

## APPLICATION FOR A MARINE LICENCE FOR MARINE WORKS

**Marine Works include, but are not limited to, coast defences, beneficial uses of dredged materials, subsea cables, pontoons, jetties, land reclamation, grab samples and outfall pipes under the Marine and Coastal Access Act 2009**

Please read the notes carefully before completing the form.

- The Marine Licensing Team (MLT) administers Part 4 of the Marine and Coastal Access Act 2009 on behalf of the Licensing Authority, the Welsh Ministers.
- The completed application form must be accompanied by a location plan and, where appropriate, descriptive drawing(s) and any supporting environmental assessments. One completed hard copy of the application and supporting documents will always be required. Additional copies are required for consultation purposes.
  - For application and supporting documents less than 10MB we can accept an additional copy via email.
  - For applications larger than 10MB **16** additional copies in CD/DVD format will be required
  - When applications and supporting documents are hard copy only **16** copies will be required.
- Please submit applications to the **Permit Receipt Centre** via the details at the top of this form
- Please submit marine licence applications, including this form and all supporting documents, **at least 4 months before the licence is required.**

**Some projects may raise matters that require a significantly longer time for consideration.** These are most likely to be:

- Projects that fall **within** The Marine Works (Environmental Impact Assessment) Regulations 2007 – as amended requiring an Environmental Statement
- Large scale projects with substantial volumes of material being deposited or excavated
- Works requiring an Appropriate Assessment to be conducted under The Conservation of Habitats and Species Regulations 2017.
- Information should be provided about the anticipated **duration of the entire project** in respect of works below/seaward of Mean High Water Spring (MHWS). Where appropriate, planned phasing of the work for which consent is sought must be detailed. For projects lasting more than one calendar year, planned phasing details must be given for each 12 month period.

A licence fee is payable in respect of an application. Details of fees can be found on our web pages.

**Please note applications will not be processed without the correct relevant fee or invoicing details.**

- Payments can be made via Cheque, BACS or credit/debit card.
  - Cheques should be crossed and made payable to **Natural Resources Wales.**
  - For BACS payments ensure you provide the reference number (not remittance number)

- For credit/debit card payments please complete the CC1 form and submit with the application. The CC1 form can be found on our web pages

Further information on payment methods can be found on our web pages

- **All activities need to comply with the Water Framework Directive (WFD). The framework and guidance can be found on the Natural Resources Wales website, <http://naturalresources.wales>. The results of your WFD assessment must be attached to your marine licence application.**
- Please answer all questions. If any information is not available at the time of application please indicate in the relevant section, giving reasoning in a covering letter. Outstanding details must be submitted as soon as possible. Any delay in forwarding details is likely to result in delays in determining your application.

**Your application may not be considered complete and therefore not processed until key information has been submitted. Your application may be returned if you fail to submit outstanding information within given timescales.**

- Please note any licence may have conditions that must be discharged before works can commence. This will take additional time.
- If you have any queries with regards to completing this application please contact the MLT: [marinelicensing@naturalresourceswales.gov.uk](mailto:marinelicensing@naturalresourceswales.gov.uk)

### How your application will be processed by the MLT:

- Submit all application to the **Permit Receipt Centre** via the details at the top of this form.
- Checked and acknowledged by the MLT within 21 days of receipt of application and payment
- If the application is complete and no further information is needed at this time, your application will be placed in a work queue to be assigned a permitting officer
- If the application is not complete, further information will be request and need to be provided before the application can be considered as complete
- Our **4 months** service level for determining non-EIA applications will begin from the date the **completed** application is received (*Please note some projects may take significantly longer than 4 months to determine due to their nature*)
- EIA projects may take significantly longer due to their scale and complexity. Therefore we encourage early engagement with the MLT
- Your application and supporting documents will be sent to for an initial consultation period of 28 days (*42 days for EIA projects*)
- For the majority of projects, a public notice must be advertised. Public consultation will be 28 days (*49 days for EIA projects*).  
For EIA projects a second public notice will be required. The MLT will advise on how this should be done.
- Responses to consultation will be considered and additional information requested at this time, if necessary.

- A decision on your Marine Licence Application will be made

All information submitted may be referred to within a licence, therefore all works must be in accordance with this information, unless otherwise agreed with NRW acting on behalf of the Licensing Authority during the determination process.

**It is the responsibility of the applicant to obtain any other consents/authorisations that may be required.**

### Application Form Structure

1. Project Description and Cost
2. Applicant Details
3. Details of Agent, Contractor, Vehicles and/or Vessels used to carry out works
4. Environmental Impact Assessment (EIA)
5. Licensable Period
6. Project Description
7. Methods Statement
8. Materials of Project
9. Beach Replenishment, Land Reclamation or Salt Marsh Feeding
10. Temporary Works
11. Dredge and Disposal of Dredge Material
12. Protected Sites
13. Other Consents
14. Statutory Powers
15. Public Register
16. Application Fee
17. Declaration

### Check List

Please ensure that you have included all the necessary information before you submit your application. **If any of the below are not completed in the application form, the application is likely to be considered incomplete and may be returned to you**

| Item                                                                                                   | Yes (✓) |
|--------------------------------------------------------------------------------------------------------|---------|
| The applicant is a legal entity?                                                                       | ✓       |
| The declaration is signed by the applicant?                                                            | ✓       |
| Is the application fee correct?                                                                        | ✓       |
| Are the grid references/coordinates correct?                                                           | ✓       |
| Do the coordinates match map locations?                                                                | ✓       |
| Have all the relevant supporting documents been submitted?                                             | ✓       |
| Has a clear methodology been provided in the application form?                                         | ✓       |
| Has Protected sites information been included?                                                         | ✓       |
| Has a Water Framework Directive (WFD) assessment been submitted?                                       | ✓       |
| Are all the continuation sheets for application questions appended with correct corresponding numbers? | ✓       |

**Should you have any queries regarding your application please contact the MLT via [marinelicensing@naturalresourceswales.gov.uk](mailto:marinelicensing@naturalresourceswales.gov.uk)**

## 1. Project Description and Cost

### 1 (a). Project Name

Aberarth Outfall Remediation

### 1(b). Please provide a brief description of the proposed project, including location

Aberarth sewage pumping station and sea outfall is situated just to the north of the town of Aberarth; approximate NGR SN47896410 The proposal includes: Removal and disposal of existing sea outfall (13m of 225mm OD pipeline and concrete surround). Construction of new consented out fall and 21m of new 225mm OD outfall with minimum 150mm concrete surround. Construction of New Head wall with Non-return valve (Wastop) and new stone scour protection surrounding the outfall.

### 1(c). Please provide an estimated gross cost of the project (Inc. materials and labour) for works that fall below/seaward of Mean High Water Springs (MHWS)

£300,000

## 2. Applicant Details

To whom the licence will be issued. *This must be a legal entity such as an individual, registered company/ charity or public body.*

|                                                                          |                                                                                                                                              |           |               |
|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------|
| Title                                                                    | Mr                                                                                                                                           | Full Name | Geoff Tilling |
| Company or Trading Name                                                  | Morgan Sindall (Infrastructure) plc                                                                                                          |           |               |
| Company Registration Number (if applicable)                              | 01904978                                                                                                                                     |           |               |
| Name of Contact or individual (if different)                             |                                                                                                                                              |           |               |
| Position in Company                                                      | Senior Contracts Manager                                                                                                                     |           |               |
| Address inc. postcode (provide registered Company address if applicable) | Morgan Sindall Construction & Infrastructure Ltd<br>Ty Awen<br>Spooner Close<br>Celtic Springs Business Park, Coedkernew<br>Newport NP10 8FZ |           |               |
| Telephone Number                                                         | 01633 963058                                                                                                                                 |           |               |
| Email Address                                                            | geoff.tilling@morgansindall.com                                                                                                              |           |               |

### 3. Details of Agent, Contractor, Vehicles and/or Vessels used to carry out works

#### 3(a). Agent Details

*This is who we will correspond with unless otherwise informed. If no agent we will contact the applicant.*

|                                              |                                                        |           |                   |
|----------------------------------------------|--------------------------------------------------------|-----------|-------------------|
| Title                                        | Miss                                                   | Full Name | Stephanie Chapman |
| Company or Trading Name                      | Ove Arup and Partners Ltd.                             |           |                   |
| Company Registration Number (if applicable)  | 1312453                                                |           |                   |
| Name of Contact or individual (if different) |                                                        |           |                   |
| Position in Company                          | Senior Environmental Consultant                        |           |                   |
| Address (Inc. postcode)                      | 63 St Thomas Street<br>Redcliffe<br>Bristol<br>BS1 6JZ |           |                   |
| Telephone Number                             | 0117 988 6736                                          |           |                   |
| Email Address                                | Stephanie.chapman@arup.com                             |           |                   |

**3(b). Does the Applicant wish to be included in all correspondence?** Yes ☒ No ☐

#### 3(c). Contractor Details

In order for contractors to benefit from the licence permission, details must be provided.  
*Any details not provided with application must be confirmed before operations commence.*

| Contractor Company or Trading Name | Address                                          |
|------------------------------------|--------------------------------------------------|
| Morgan Sindall plc,                | Corporation Street, Rugby, Warwickshire. CV212DW |
|                                    |                                                  |
|                                    |                                                  |

**3(d). Will the works require the use of vessels?**

Yes ☐ No ☒

**3(d) (i). Vessel Details (if applicable and available)**

In order for contractors to benefit from the licence permission, details must be provided.  
*Any details not provided with application must be confirmed before operations commence.*

| Operator | Name of Vessel | Type of Vessel | Vessel Registration Number | Country of Registration |
|----------|----------------|----------------|----------------------------|-------------------------|
|          |                |                |                            |                         |
|          |                |                |                            |                         |
|          |                |                |                            |                         |
|          |                |                |                            |                         |

**3(e). Will the works require the use of vehicle?**

Yes ☒ No ☐

☐

**3(e) (i). Vehicle Details (if applicable and available) to be used below MHWS**

In order for contractors to benefit from the licence permission, details must be provided.  
*Any details not provided with application must be confirmed before operations commence.*

| Operator                                                              | Type/Description of Vehicle |
|-----------------------------------------------------------------------|-----------------------------|
| Morgan Sindall, Ty Awen, Spooner Close, Coedkernew, Newport, NP10 8FZ | 8t Tracked Excavator        |
| Morgan Sindall, Ty Awen, Spooner Close, Coedkernew, Newport, NP10 8FZ | 13t Tracked Excavator       |
| Morgan Sindall, Ty Awen, Spooner Close, Coedkernew, Newport, NP10 8FZ | Tracked dumper              |
| Morgan Sindall, Ty Awen, Spooner Close, Coedkernew, Newport, NP10 8FZ | Tractor and trailer         |

**3(f). If the contractor or vessels or vehicles are not known at the application stage, when do you expect to provide these details?**

*These details will need to be confirmed prior to the licence and operations commencement*

|  |
|--|
|  |
|--|

#### 4. Environmental Impact Assessment (EIA)

Certain projects, due to their scale, location and/or nature, may require an EIA under the Environmental Impact Assessment Directive (Directive 85/337/EEC – as amended). If a project qualifies under EIA, an Environmental Statement (ES) must be prepared and submitted with the application.

Projects that fall within Annex I of the Directive automatically require an EIA. Projects that fall within Annex II of the Directive are assessed on a case-by-case basis for the requirement for an EIA to be undertaken.

**4(a). Do you consider the works to be under the Environmental Impact Assessment Directive (Directive 85/337/EEC – as amended)?** Yes ☐ No ☒

**4(a) (i) If Yes, which Annex does the proposal fall under?** Annex I ☐ Annex II ☐

**4(a) (ii) Which number(s) within the Annex does the proposal relate to?**

**4(b). Have you applied for a screening or scoping opinion from the MLT under the Marine Works (Environmental Impact Assessment) Regulations 2007 (as amended)?** Yes ☐ No ☒

**4(b) (i). If Yes, please provide the reference number**

**4(c). Has an Environmental Impact Assessment been undertaken?** Yes ☐ No ☒

**4(c)(i). If Yes, has an Environmental Statement been submitted to support this Marine Licence application?** Yes ☐ No ☐

**4(d). If an Environmental Impact Assessment has been undertaken, but an ES has not been submitted, please provide an explanation**

Please continue on a separate sheet if necessary. Please tick if you have done this ☐

#### 5. Licensable Period

Determination of applications will be based on the works taking place during these dates. Please ensure you have included an adequate contingency period. If works are not completed by the Requested Licence Expiry Date you may be required to submit a new application. *Including a contingency period within your original application does not impact on Licence Fee*

**Start Date** 1 May 2019

**Requested Licence Expiry Date** 1 May 2020

*Please ensure you submit your application for a Marine Licence **at least 4 months** prior to the intended start date. Some projects, such as EIA projects, will take significantly longer to determine.*

## **6. Project Description**

### **6(a). Please give a description of the proposed project.**

This should include the purpose of the project, estimated timescales of construction and operation, and broken down by the phases of works, if applicable.

Details should include, but not be limited to, dimensions of project, quantity of material being deposited and removed.

The long sea outfall at Aberarth is used for the discharge of storm sewage and sewage in an emergency from Aberarth Sewage Pumping Station.

The proposed works are to relocate an outfall pipeline to a new point of discharge. The outfall pipeline will be 21m in length and will discharge into the watercourse Allt Craig - Arth. This is to replace the outfall which was constructed in 2016 which experiences damming impacts from the river. The works comprise:

- Removal and disposal of existing sea outfall (13m of 250mm OD pipeline and concrete surround)
- Construction of new consented out fall and 21m of new 250mm OD outfall with minimum 150mm concrete surround.
- Construction of New Head wall with Non-return valve (Wastop) and new stone scour protection surrounding the outfall.

Please continue on a separate sheet if necessary. Please tick if you have done this ☐

### **6(b). Please detail the location of the proposed construction project.**

This should be either Ordnance Survey National Grid Reference (i.e. AB 12345 67890) or Latitude and Longitude in decimal degrees to 4 decimal places (i.e. Lat 52.1234 Long - 4.1234), defining the extent of the project. **Please specify which coordinate system has been used.**

National Grid Reference (NGR):

Pipeline to be removed (circa 13m): SN 47900 64084 to SN 47888 64085.

Proposed new section of pipeline (circa 21m): SN 47900 64084 to SN 47893 64105



Please continue on a separate sheet if necessary. Please tick if you have done this ☐

**6(c). The following must be provided with the completed application form:**

- (i) a suitably scaled extract of an Ordnance Survey Map or Admiralty Chart with location of project, complete with **North Arrow** and **Scale**
- (ii) construction plans and sectional drawings showing those proposed works below/seaward of MHWS, which should give details of the materials to be used (for beach replenishment the quantity, particle size and source of material to be deposited and deposit location is also required).
- (iii) a descriptive schematic drawing and suitably scaled location plan which show the full extent of the project clearly in relation to the surrounding area and features.

Please list below **all supporting documents** that have been submitted with this application, including suitable documents/maps/drawing titles and reference numbers

All figures and supporting documents are provided at the end of this form.

Supporting Figures:

- Figure 1: Site Location Plan.
- Figure 2: OS Mastermap including proposed works and temporary deposits.
- Figure 3: Aerial including constraints, proposed works and temporary deposits.
- Figure 4: General Arrangement and new pipe profile

Supporting Documents

1. Risk Assessment and Method Statement (RAMS)
2. Information to Inform a Habitat Regulation Assessment Stage 1: Screening
3. Water Framework Directive Assessment
4. NRW Email 23/10/2018 (Protected Sites Officer) re. Habitat Regulation Assessment

Please continue on a separate sheet if necessary. Please tick if you have done this ☐

The applicant should note that these drawings/plans may be copied to others as part of the MLT's consultation procedures. If they are subject to copyright, it is the **responsibility of the applicant to obtain the necessary approvals to reproduce the documents and to submit up to 16 copies with the application.**

## 7. Methods Statement

**7(a). Please provide a detailed method statement for the works**

This must include methods for all works including temporary structures or deposits such as jetties, cofferdams, moorings or landing stages to be constructed seaward of MHWS

Please refer to Morgan Sindall Risk Assessment and Method Statement (RAMS) (Ref: MS/1W6000) (separate sheet attached to the application form).

Please continue on a separate sheet if necessary. Please tick if you have done this ☒

**7(b). Do you intend to undertake activities that could generate underwater noise?**

This include piling, use of explosives, geophysical, acoustic deterrent devices and multibeam echosounders.

Yes ☐ No ☒

**7(b) (i). If Yes, what type(s) of activities will be undertaken?**

**7(b) (ii). If Yes, approximately how many days will the activity be undertaken for?**

If Yes, you will be required to complete an additional form that will be provided.

**7(c). Please state the measures to be taken to:**

- (i) Minimise risk to the marine environment

Please refer to the Information to Inform a HRA report for further details; embedded mitigation outlined in Section 6.4.

- (ii) Prevent undue interference to others

Whilst plant are accessing or traversing the beach area vehicle banksmen will be present to control movements to ensure members of the public are not put at risk from the machines.

- (iii) Maintain navigational safety, including marking and lighting of works

Not applicable; intertidal works.

Please continue on a separate sheet if necessary. Please tick if you have done this ☒

## 8. Materials of Project

### 8(a). Description of materials to be deposited seaward of MHWS (Please tick all that apply)

|        |                                     |            |                                     |          |                                     |                          |                                     |
|--------|-------------------------------------|------------|-------------------------------------|----------|-------------------------------------|--------------------------|-------------------------------------|
| Timber | <input checked="" type="checkbox"/> | Iron/Steel | <input checked="" type="checkbox"/> | Concrete | <input checked="" type="checkbox"/> | Biocides/other chemicals | <input type="checkbox"/>            |
| Silt   | <input type="checkbox"/>            | Stone/Rock | <input type="checkbox"/>            | Gravel   | <input type="checkbox"/>            | Plastic/Synthetics       | <input checked="" type="checkbox"/> |
| Sand   | <input type="checkbox"/>            | Other      | <input type="checkbox"/>            |          |                                     |                          |                                     |

If other, please provide a description of materials.

### 8(b). Delivery method of materials to site

If sea delivery, please include details of vessels to be used with a chart of proposed route and transhipment area. If vehicle delivery, please provide the proposed access route.

Please refer to RAMS.

Please continue on a separate sheet if necessary. Please tick if you have done this ☒

8(c). Will the works involve removals seaward of MHWS? Yes ☒ No ☐

**8(c) (i). Description of materials to be removed seaward of MHWS (Please tick all that apply)**

|        |                                     |            |                                     |          |                                     |                          |                                     |
|--------|-------------------------------------|------------|-------------------------------------|----------|-------------------------------------|--------------------------|-------------------------------------|
| Timber | <input checked="" type="checkbox"/> | Iron/Steel | <input checked="" type="checkbox"/> | Concrete | <input checked="" type="checkbox"/> | Biocides/other chemicals | <input type="checkbox"/>            |
| Silt   | <input type="checkbox"/>            | Stone/Rock | <input type="checkbox"/>            | Gravel   | <input type="checkbox"/>            | Plastic/Synthetics       | <input checked="" type="checkbox"/> |
| Sand   | <input type="checkbox"/>            | Other      | <input type="checkbox"/>            |          |                                     |                          |                                     |

**8(c) (ii). Description of objects/materials to be removed seaward of MHWS**

Including quantities to be removed.

Existing pipeline circu 13m of 250mm outfall pipe and sections of concrete surround

**9. Beach Replenishment, Land Reclamation or Salt Marsh Feeding**

For works involving any of the above, please provide the following information

**9(a). Is the material to be deposited like for like to existing material?** Yes ☐ No ☐

**9(a)(i) If No for Beach Replenishment please provide justification why?**

**9(b). Description of material to be deposited**

Please provide the grading specification of materials to be used, if using a range of grain sizes please state the percentage by weight passing. *If unsure, please refer to the Wentworth Scale*

Please continue on a separate sheet if necessary. Please tick if you have done this ☐

**9(c). Source of the material to be deposited**

Including dredged or land based stating the origin of material

**9(d). Has the material been chemically analysed?**

Yes ☐ No ☐

If material has been analysed, we may request this information to determine the application

**9(d) (i) If Yes, is the analysis data been included with the application?** Yes ☐ No ☐

## 10. Temporary Works

**10(a). Will there be any temporary deposits below MHWS?** Yes ☒ No ☐

This includes construction materials, removed objects/material, jetties or cofferdams

If **Yes**, please continue with section **10**

**10(b). Please provide the location of temporary deposits**

Please include a map/chart displaying the location of temporary deposits, if necessary.

Please refer to Figure 2: Site Location – Aerial including proposed works and temporary deposits.

**10(c). Description of temporary deposits**

New outfall – No temporary deposits will be required below MHWS. Marine-grade concrete (fast setting, low washout) will be applied to maximise drying capacity. Timber shuttering will be required during curing and will subsequently be removed from site. No other temporary deposits will remain on-site (unless in case of emergency).

Existing outfall removal - The concrete surround and pipe will be demolished and loaded into the tracked dumper for transport to the site compound for disposal to a licenced waste disposal site. This process will continue towards the shore until the tide is at such a level the works are to be abandoned and all materials and plant are to be moved from the beach area.

Please continue on a separate sheet if necessary. Please tick if you have done this ☐

## 11. Dredge and Disposal of Dredge Material

If you are undertaking Dredge and Disposal activities please also complete the Dredge and Disposal application form and submit together.

**11(a). Do you intend to apply for a marine licence to dispose of dredged material to sea as part of the works in this application?** Yes ☐ No ☒

## 12. Protected Sites

Licensing Authorities have a duty to ensure that projects will **not have significant adverse environmental impact**, particularly on any designated **European Site of Conservation Importance - Special Areas of Conservation (SAC) and Special Protection Areas (SPA)**, listed under the **Habitats Directive (Council Directive 92/42/EEC on the conservation of natural habitats and of wild fauna and flora)**. In addition, it is Government Policy that Wetlands of International Importance (Ramsar sites) are also considered as European Sites. There is a duty to take reasonable steps to further the conservation and enhancement of nationally designated sites (Sites of Special Scientific Interest (SSSIs)).

**12(a). Have you had pre-application correspondence with NRW, its legacy bodies or Natural England?** Yes ☒ No ☐

**12(a)(i). If Yes, please provide copies of correspondence with application and state which team(s) you have contacted?**

NRW - Jon Hudson (Protected Sites Officer) 23 October 2018. Please see the attached correspondence (See Supporting Document Number 4)

**12(b). Are any part of the works located *within* or *likely to affect* a designated conservation site? (SAC, SPA, SSSI or Ramsar)** Yes ☐ No ☒

**12(b)(i). If Yes, which designated site(s) may be affected?**

**12(c). Please provide a description of all mitigation measures proposed to avoid any impact on designated conservation sites.**

No works will be undertaken within 50m of the protected site boundary, working areas have been restricted as far as feasible. Construction mitigation is included within the Information to Inform a HRA Stage 1: Screening report; please refer to Section 6.4. (See supporting Document Number 2)

Please continue on a separate sheet if necessary. Please tick if you have done this ☒

**12(d). If the works are not located *within* or *likely to affect* a designated conservation site, please indicated the approximate distance to the nearest designated conservation site.**

Cardigan Bay SAC (<50m), Aberarth Carreg Wylan SSSI (<50m).  
No works are proposed within 50m of the protected site boundary.  
The Information to Inform a HRA Stage 1: Screening report concludes no likely significant effect.

Please note that if the proposed works are in or within 2km of a European Site of Conservation Importance you will have to provide suitable mitigation measure to avoid any impact on designated conservation sites.

### 13. Other Consents

Please detail all consents that you have applied for or received for these works

| Type of Consent                                                                                                     | Applied for | To be applied for                                   | Reference Number | Date of Issue and Expiry |
|---------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------|------------------|--------------------------|
| <b>Planning Permission under Town and County Planning Act 1990 – From Local Planning Authority (LPA)</b>            | N/A         |                                                     |                  |                          |
| <b>Name and Address of LPA for location of works</b>                                                                |             |                                                     |                  |                          |
| <b>Land Owners Consent</b><br>such as The Crown Estate Consent                                                      |             | Permitted access                                    |                  |                          |
| <b>Port Authority or Local Harbour permissions</b>                                                                  | N/A         |                                                     |                  |                          |
| <b>Other NRW consents</b> <i>such as Flood Defence or SSSI assent</i>                                               |             | New Operational Discharge Consent to be applied for |                  |                          |
| <b>Details of NRW consent</b>                                                                                       |             |                                                     |                  |                          |
| <b>Other consents</b> <i>such as Transport and Works Act Order, Section 36 Electricity Act, grant/loan sanction</i> | N/A         |                                                     |                  |                          |
| <b>Details of other consents</b>                                                                                    |             |                                                     |                  |                          |

### 14. Statutory Powers

**14(a).Does the applicant have statutory powers to consent any aspect of the project?**  
E.g. coast protection authority, dredging powers, statutory undertakers      Yes ☒ No ☐

**14(a)(i).If Yes, please give details and state the relevant legislation that gives these powers**

Morgan Sindall plc will undertake the works on behalf of Dŵr Cymru Welsh Water (DCWW). DCWW may apply permitted development rights as statutory undertakers pursuant to the Town and Country Planning (General Permitted Development) Order 1995 [non-EIA development]. Under Part 16: Class E, permitted development rights are afforded to development consisting of: '(a) development not above ground level required in connection with the provision, improvement, maintenance, repair of a sewer, outfall pipe, sludge main or associated apparatus' and '(e) any other development in, on, over or under their operational land, other than the provision of a building but including the extension or alteration of a building.'

## 15. Public Register

Under The Marine Licensing (Register of Licensing Information)(Wales) Regulations 2011 and the Environmental Impact Assessment Directive (Directive 85/337/EEC – as amended) , all information contained within or provided in support of this application will be placed on the Public Register unless NRW approve of the applicant's reasons for withholding all or part.

15. Is there any information contained within or provided in support of this application that you consider should NOT be included on the Public Register on the grounds that its disclosure:

15(a). Would be contrary to the interest of National Security? Yes ☐ No ☒

15(b). Would prejudice to an unreasonable degree you, or some other person's commercial interest of those of a third party? Yes ☐ No ☒

If **Yes** to either (a) or (b), please provide full justification as to why all or part of the information you have provided should be withheld

Please continue on a separate sheet if necessary. Please tick if you have done this ☐

## 16. Application Fee



**16(a). What are the corresponding fee band for this application?** Band 2 ☒ Band 3 ☐

**16(b) Band 2 Only**

Projects are charged at a fixed fee of £1920. The application will not be processed until the correct fee has been provided.

**Please provide the method of payment**

| Method                           | Yes (✓) | Reference Number |
|----------------------------------|---------|------------------|
| <b>Cheque</b>                    |         |                  |
| <b>BACS</b> (not remittance no.) | ✓       | PRCAPPMORGA274   |
| <b>World Pay (phone or CC1)</b>  |         |                  |

Please attach **CC1 Form** with application. Can be found on our web pages

**16(c) Band 3 Application only**

**Band 3 applications are charged at on hourly rate of £120 and are invoiced in arrears. Please complete the details below which will be required for invoicing.**

|                       |                      |
|-----------------------|----------------------|
| Customer Name         | <input type="text"/> |
| FAO                   | <input type="text"/> |
| Purchase order number | <input type="text"/> |
| Address for invoice   | <input type="text"/> |
| Telephone Number      | <input type="text"/> |
| Email Address         | <input type="text"/> |

## 17. Declaration

I declare that to the best of my knowledge and belief that the information given in this application form and supporting documentation is true.

**WARNING:** It is an offence under the Marine and Coastal Access Act 2009, under which this application is made, to fail to disclose information or to provide false or misleading information and can invalidate any licence granted.

Signature  Date 20/12/2018

Name (in capitals) GEOFF TILLING

Position in Company Senior Contracts Manager

*Applications cannot be processed unless signed by the **Applicant** (not agent), the applicant must have appropriate level of authority within the company.*

**Applications will not be processed unless signed**



**Cyfoeth  
Naturiol  
Cymru  
Natural  
Resources  
Wales**

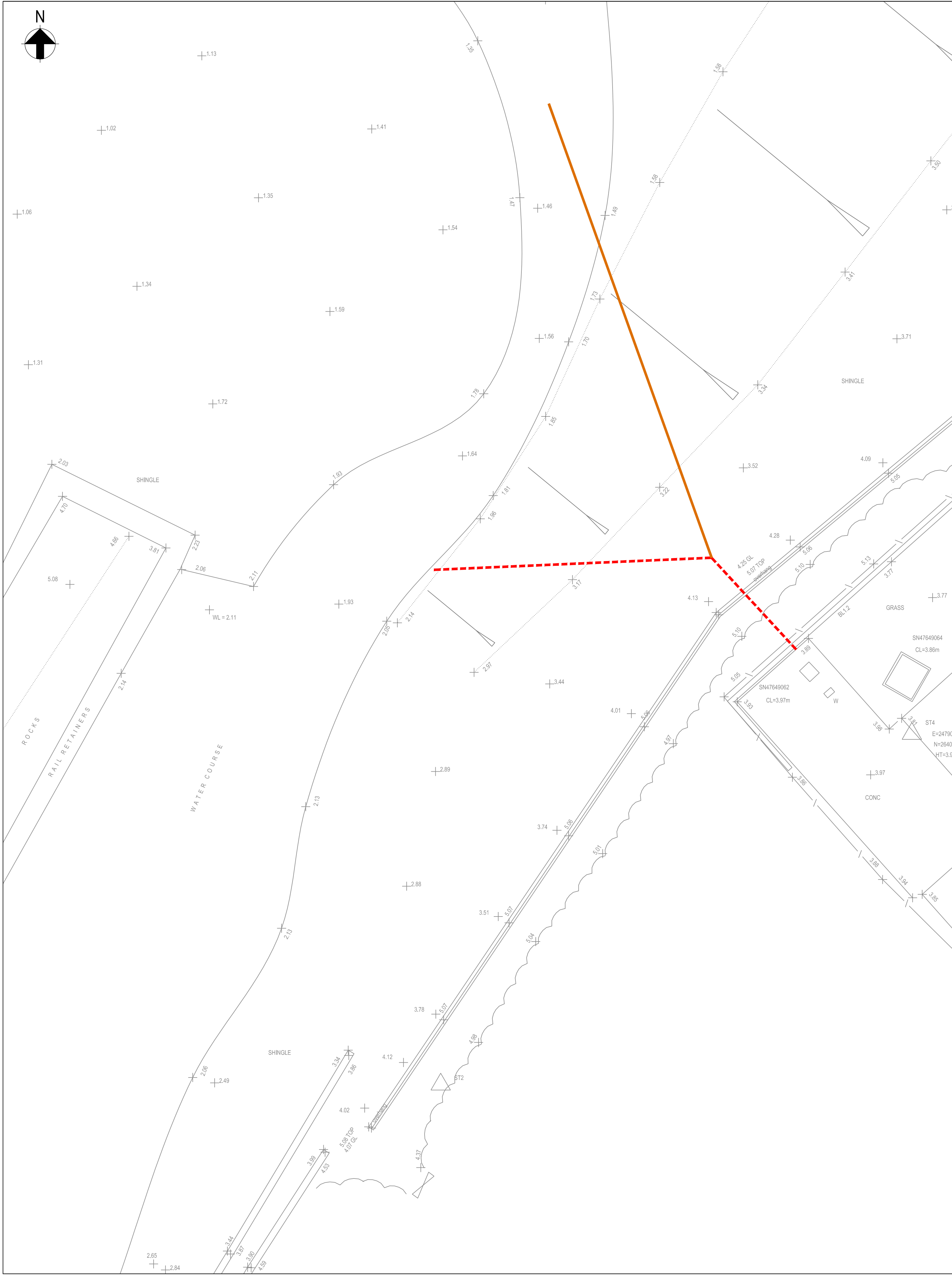
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### Figures

- Figure 1: Site Location Plan.
- Figure 2: OS Mastermap including, proposed works and temporary deposits.
- Figure 3: Aerial including constraints, proposed works and temporary deposits.
- Figure 4: General Arrangement and new pipe profile





OS REF : 24705, 264079

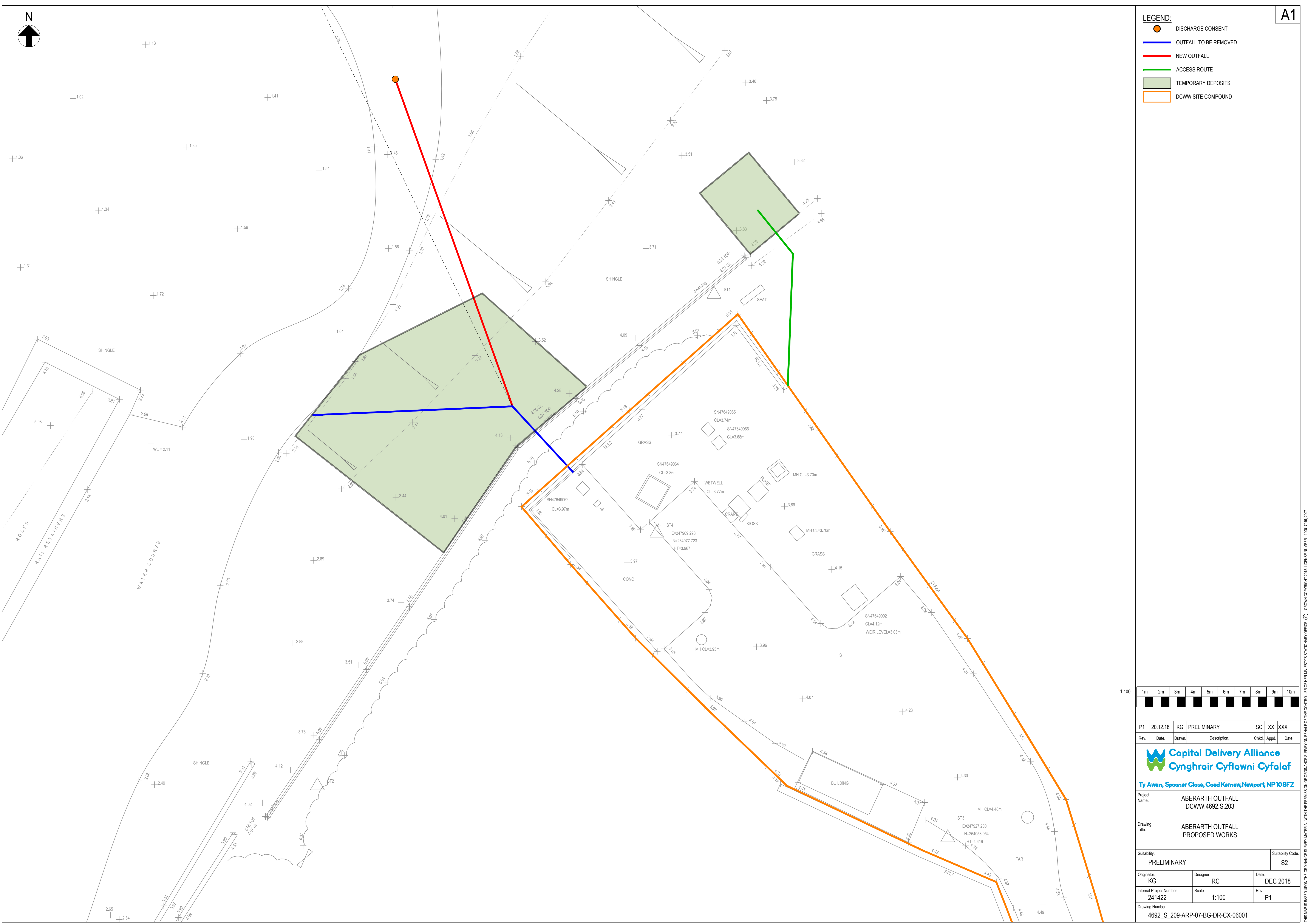
**LEGEND:**

--- ASSUMED POSITION OF EXISTING OUTFALL

--- PROPOSED POSITION OF NEW OUTFALL

|                                                                                                                                                                                                                                                     |          |                                     |              |    |    |          |                  |       |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------|--------------|----|----|----------|------------------|-------|-------|
| 1:100                                                                                                                                                                                                                                               |          |                                     |              |    |    |          |                  |       |       |
| 1m                                                                                                                                                                                                                                                  | 2m       | 3m                                  | 4m           | 5m | 6m | 7m       | 8m               | 9m    | 10m   |
|                                                                                                                                                                |          |                                     |              |    |    |          |                  |       |       |
| C1                                                                                                                                                                                                                                                  | 20.12.18 | KG                                  | FOR COSTING  |    |    |          | SC               | XX    | XXX   |
| Rev.                                                                                                                                                                                                                                                | Date.    | Drawn.                              | Description. |    |    |          | Chkd.            | Appd. | Date. |
| <div><div><div>Capital Delivery Alliance</div><div>Cynghair Cyflawni Cyfalaf</div></div><div>Ty Awen, Spooner Close, Coed Kernew, Newport, NP108FZ</div></div> |          |                                     |              |    |    |          |                  |       |       |
| Project Name.                                                                                                                                                                                                                                       |          | ABERARTH OUTFALL<br>DCWW.4692.S.203 |              |    |    |          |                  |       |       |
| Drawing Title.                                                                                                                                                                                                                                      |          | LOCATION PLAN                       |              |    |    |          |                  |       |       |
| Suitability.                                                                                                                                                                                                                                        |          |                                     |              |    |    |          | Suitability Code |       |       |
| FOR COSTING                                                                                                                                                                                                                                         |          |                                     |              |    |    |          | S2               |       |       |
| Originator.                                                                                                                                                                                                                                         |          | Designer.                           |              |    |    | Date.    |                  |       |       |
| KG                                                                                                                                                                                                                                                  |          | RC                                  |              |    |    | DEC 2018 |                  |       |       |
| Internal Project Number.                                                                                                                                                                                                                            |          |                                     | Scale.       |    |    | Rev.     |                  |       |       |
| 241422                                                                                                                                                                                                                                              |          |                                     | 1:100        |    |    | C1       |                  |       |       |
| Drawing Number.                                                                                                                                                                                                                                     |          |                                     |              |    |    |          |                  |       |       |
| 4692_S_209-ARP-07-BG-DR-CX-06000                                                                                                                                                                                                                    |          |                                     |              |    |    |          |                  |       |       |







-  Discharge consent
-  Proposed outfall
-  Existing outfall to be removed
-  Access route
-  DCWW site compound
-  Sites of Special Scientific Interest (SSSI)
-  Special Areas of Conservation (SAC)

Grid Reference  
(247893, 264105)

|                                                                                                                                                                                                                              |            |                                                     |              |       |                                                                    |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------|--------------|-------|--------------------------------------------------------------------|------------|
| P0                                                                                                                                                                                                                           | 2018-10-15 | EA                                                  | Preliminary  | GM    | GM                                                                 | 2018-10-15 |
| Rev.                                                                                                                                                                                                                         | Date.      | Drawn                                               | Description. | Chkd. | Appd.                                                              | Date.      |
|  <b>Capital Delivery Alliance</b><br><b>Cynghrair Cyflawni Cyfalaf</b><br><b>Ty Awen, Spooner Close, Coed Karnaew, Newport, NP108FZ</b> |            |                                                     |              |       |                                                                    |            |
| Project Name.<br><p style="text-align: center;">Aberarth Outfall</p>                                                                                                                                                         |            |                                                     |              |       |                                                                    |            |
| Drawing Title.<br><p style="text-align: center;">Aberarth Outfall<br/>Proposed works</p>                                                                                                                                     |            |                                                     |              |       |                                                                    |            |
| Suitability.<br><p style="text-align: center;">Preliminary</p>                                                                                                                                                               |            |                                                     |              |       | Suitability Code.<br><p style="text-align: center;">2018-10-15</p> |            |
| Originator<br><p style="text-align: center;">EA</p>                                                                                                                                                                          |            | Designer<br><p style="text-align: center;">GM</p>   |              |       | Date<br><p style="text-align: center;">2018-12-05</p>              |            |
| Internal Project Number<br><p style="text-align: center;">241422</p>                                                                                                                                                         |            | Scale<br><p style="text-align: center;">1:2,000</p> |              |       | Rev.<br><p style="text-align: center;">1</p>                       |            |
| Drawing Number.<br><p style="text-align: center;">002</p>                                                                                                                                                                    |            |                                                     |              |       |                                                                    |            |

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**[Supporting Documents](#)**





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## **1. Risk Assessment and Method Statement (RAMS)**

## Method Statement

|                                                                                                                          |                                      |                                                                                                   |                                   |                              |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------|
| Method Statement Title:<br>Removal of 18mtrs existing sea outfall, and construction of new 20mtrs outfall and head wall. |                                      | Scheme Title: <b>Aberarth</b>                                                                     |                                   |                              |
|                                                                                                                          |                                      | RA/MS Number:- MS/1W6000                                                                          |                                   |                              |
|                                                                                                                          |                                      | Start Date: <b>20.11.18</b>                                                                       |                                   |                              |
| Prepared by:<br><b>Eryl Davies</b>                                                                                       | Job title:<br><b>Site Manager</b>    | Company:<br><b>Morgan Sindall</b>                                                                 | Signed:<br><i>Eryl Davies</i>     | Date:<br><b>20.11.18</b>     |
| Checked by:<br><b>Kevin James</b>                                                                                        | Job title:<br><b>Project Manager</b> | Company:<br><b>Morgan Sindall</b>                                                                 | Signed:<br><i>K James</i>         | Date:<br><b>20.11.18</b>     |
| Approved by:                                                                                                             | Job title:                           | Company:                                                                                          | Signed:                           | Date:                        |
| Issued by:                                                                                                               | Job title:<br>Document Controller    | Issue:<br><b>Revision 0</b>                                                                       | Status<br><b>For construction</b> | Issue Date:                  |
| Review Process:<br>(This method statement accepted as current working document)                                          | Name (Print)                         | Signed:                                                                                           | Status                            | 1 <sup>st</sup> Review Date: |
|                                                                                                                          | Name (Print)                         | Signed:                                                                                           | Status                            | 2 <sup>nd</sup> Review Date: |
| Issued to:                                                                                                               | Job title:                           | Please acknowledge receipt of your copy of this MS by signing and returning the transmittal note. |                                   | Transmittal date:            |
| Eryl Davies                                                                                                              | Site Manager                         |                                                                                                   |                                   |                              |
|                                                                                                                          |                                      |                                                                                                   |                                   |                              |
|                                                                                                                          |                                      |                                                                                                   |                                   |                              |
|                                                                                                                          |                                      |                                                                                                   |                                   |                              |
|                                                                                                                          |                                      |                                                                                                   |                                   |                              |
|                                                                                                                          |                                      |                                                                                                   |                                   |                              |
|                                                                                                                          |                                      |                                                                                                   |                                   |                              |
|                                                                                                                          |                                      |                                                                                                   |                                   |                              |
|                                                                                                                          |                                      |                                                                                                   |                                   |                              |
|                                                                                                                          |                                      |                                                                                                   |                                   |                              |
|                                                                                                                          |                                      |                                                                                                   |                                   |                              |
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|                                                                                                                          |                                      |                                                                                                   |                                   |                              |
|                                                                                                                          |                                      |                                                                                                   |                                   |                              |
|                                                                                                                          |                                      |                                                                                                   |                                   |                              |
|                                                                                                                          |                                      |                                                                                                   |                                   |                              |

## Method Statement

Control sheet:

### Risk Assessment / Method statement – Tracking Sheet

| Name         | Job title       | Signature                                                                         | Status | Comments       |
|--------------|-----------------|-----------------------------------------------------------------------------------|--------|----------------|
| Kevin James  | Project Manager |  | A      | Ok, To proceed |
| Mike Sellars | SHE Advisor     |                                                                                   |        |                |
|              |                 |                                                                                   |        |                |
|              |                 |                                                                                   |        |                |
|              |                 |                                                                                   |        |                |

### Review process

| No  | Prompt List                                                                                                                                                                                                                    | Yes | No | In Part | N/A |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|---------|-----|
| 1.  | Unique project specific number and title identified for the document?                                                                                                                                                          | X   |    |         |     |
| 2.  | Does the method statement / risk assessment include suitable arrangements if sub-sub contractors are involved?                                                                                                                 | X   |    |         |     |
| 3.  | Authorisation and distribution personnel identified?                                                                                                                                                                           | X   |    |         |     |
| 4.  | Brief overview including location and duration of the works described?                                                                                                                                                         | X   |    |         |     |
| 5.  | Specific Risk Assessment † attached and satisfactory?<br>Are all the hazards/environmental impacts identified?<br>Have all the risks been evaluated and controls identified?                                                   | X   |    |         |     |
| 6.  | High risk/safety critical / COSHH activities identified / controls specified?<br>(Controls eg – Statutory permits/ licences, Security, Testing / commissioning / special training)                                             | X   |    |         |     |
| 7.  | Scope of works identifying / listing all activities?<br>Philosophy identified?<br>Are all parameters identified / listed?                                                                                                      | X   |    |         |     |
| 8.  | Temporary Works schemes identified?<br>Philosophy identified?<br>Temporary work drawings listed including relevant calculations?<br>Permits required?<br>Interfaces identified?                                                | X   |    |         |     |
| 9.  | Names / titles / contact details of key personnel / supervisors responsible?                                                                                                                                                   | X   |    |         |     |
| 10. | Resources identified e.g. personnel, supervision, equipment, plant, materials?<br>Craneage – lifting plan in place?<br>Lifting equipment – plan / certificates in place?<br>Access / scaffolding requirements clearly set out? | X   |    |         |     |
| 11. | Induction / training / permit requirements identified?<br>Permit issue authorisation regime identified?<br>Daily briefing and toolbox talk regime identified?                                                                  | X   |    |         |     |
| 12. | General site requirements identifying access / egress / traffic measures?<br>Details of services / works isolation?<br>PPE / evacuation requirements identified?<br>Welfare / first aid facilities identified?                 | X   |    |         |     |
| 13. | Monitoring & compliance<br>Monitoring by whom<br>Enforcement – how by whom- equipment (meters / sampling)                                                                                                                      | X   |    |         |     |

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## Method Statement

|                                                                                                                                                                                                                                                        |                                                                                |   |  |  |   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---|--|--|---|
| 14.                                                                                                                                                                                                                                                    | Interfaces / security of the client / public / other contractors identified?   | X |  |  |   |
| 15.                                                                                                                                                                                                                                                    | Environmental controls / Waste Controller / ECCoP identified?                  | X |  |  |   |
| 16.                                                                                                                                                                                                                                                    | QC monitoring and inspection / testing regime identified? I&T Plans refs       | X |  |  |   |
| 17.                                                                                                                                                                                                                                                    | Contingency plan e.g. emergency / fire / rescue / spill response identified?   | X |  |  |   |
| 18.                                                                                                                                                                                                                                                    | Any special conditions identified e.g.                                         |   |  |  | X |
| 19.                                                                                                                                                                                                                                                    | Management of Change – process in place to identify change requirements        | X |  |  |   |
| 20.                                                                                                                                                                                                                                                    | Review date as required                                                        | X |  |  |   |
| 21.                                                                                                                                                                                                                                                    | Approvals statement incorporated?                                              | X |  |  |   |
| 22.                                                                                                                                                                                                                                                    | Confirmation of Operatives briefing / Operatives induction sheet incorporated? | X |  |  |   |
| 23.                                                                                                                                                                                                                                                    | Any other (specify)?                                                           | X |  |  |   |
| † Any Risk Assessment shall be amended / confirmed as site specific.<br>* Status<br>A Work can proceed as described<br>B Work can proceed when comments are incorporated<br>C Resubmit and agree before work can proceed                               |                                                                                |   |  |  |   |
| Comments                                                                                                                                                                                                                                               |                                                                                |   |  |  |   |
| <b>Note</b><br><b>Clearance to proceed with this Method Statement does not relieve the Subcontractor of their contractual obligations, including safety, structural integrity or any implications to permanent works arising from these proposals.</b> |                                                                                |   |  |  |   |

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## Method Statement

|                     |                         |
|---------------------|-------------------------|
| <b>Scheme Title</b> | <b>Aberarth Outfall</b> |
| <b>Contractor</b>   | <b>Morgan Sindall</b>   |

This method statement has been developed further to the completion of the following references risk assessments:

| <b>Risk Assessment Number</b> | <b>Title</b>                                                                      |
|-------------------------------|-----------------------------------------------------------------------------------|
| Included in RAMS              | Replacement of 230mtrs existing sea outfall with new 20mtrs outfall and head wall |

### Section 1 – General Details

| <b>Scope of Works:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The purpose of this method statement is to detail the sequence and methodology involved in completing the scheme :-</p> <p>Removal and disposal of existing sea outfall (18mtrs of 225mm pipeline and concrete surround)<br/> Construction of new consented out fall and 20mtrs of new 225mm outfall with minimum 150mm concrete surround.<br/> Construction of New Head wall with Non-return valve (Wastop) and new stone scour protection surrounding the outfall.</p> |

|                       |                 |              |          |
|-----------------------|-----------------|--------------|----------|
| <b>Prepared by:</b>   | Kevin James     |              |          |
| <b>Position held:</b> | Project Manager |              |          |
| <b>Signed:</b>        |                 | <b>Date:</b> | 20.11.18 |
| <b>Review date:</b>   | tbc             |              |          |

|                                                             |             |
|-------------------------------------------------------------|-------------|
| <b>Work Supervisor(s);</b>                                  | Eryl Davies |
| <b>Refer to Method Statement Tracking and Content Sheet</b> |             |

### Section 2 – Programme of Operations

|                                         |                                                          |
|-----------------------------------------|----------------------------------------------------------|
| <b>Start date / time:</b>               | TBC                                                      |
| <b>Preceding Works to be Completed:</b> | None                                                     |
| <b>Duration:</b>                        | 25 days expected on site, subject to favourable weather. |
| <b>Permit required:</b>                 |                                                          |

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## Method Statement

|                                 |                          |                                          |                          |                        |                                     |
|---------------------------------|--------------------------|------------------------------------------|--------------------------|------------------------|-------------------------------------|
| <b>Permit to Work (General)</b> | <input type="checkbox"/> | <b>Permit to Enter (Confined Spaces)</b> | <input type="checkbox"/> | <b>Permit to Dig</b>   | <input checked="" type="checkbox"/> |
| <b>Hot Work Permit</b>          | <input type="checkbox"/> | <b>Out of Hours Work Permit</b>          | <input type="checkbox"/> | <b>Other (specify)</b> | <input type="checkbox"/>            |

All required Permits will be issued by the Morgan Sindall designated person prior to the works commencing.

### Section 3 – Personnel

The designated site personnel will have experience in the activities that they will be undertaking that are covered by this method statement and risk assessment. The exact names of personnel will be confirmed before works commence, however typical examples are as below.

| Name | Role | Competence Details |
|------|------|--------------------|
| TBC  |      |                    |
| TBC  |      |                    |

### Section 4 – Safe System of Work to be Adopted

#### 4.0 Introduction

- 4.0.1 This method statement (MS) outlines initial proposals for this activity. Where it is identified that there is a need to change the method of work due to unforeseen circumstances for example, then revision, authorisation and issue will follow the same procedure as the original. This method statement is only valid when the person who has prepared it and the person who has authorised it have signed the front sheet accordingly.
- 4.0.2 Task Statements (TS) will be developed for specific tasks required to carry out the works, as and when required. The MS and TS should be read in conjunction with the site specific plan and the construction programme. The MS and TS are “live” documents and will be updated as required, with newly identified risks.
- 4.0.3 The Responsible Person must be in possession of an approved method statement and task statement for the works. The Project Manager and Foreman / Supervisor shall ensure that the works proceed according to this approved method statement and subsequently developed task statements.

#### 4.1 Risk Assessment

- 4.1.1 Template displayed in Appendix A.

#### 4.2 Induction / Training

- 4.2.1 All site personnel will be familiarised with the site and made aware of any hazards, by way of a site specific induction.
- 4.2.2 All operatives working on the tasks described in this method statement, risk assessment and any associated task statement must be briefed on its contents. Operatives must sign the attached briefing attendance sheet to confirm that they have been briefed and understood the contents.
- 4.2.3 Daily briefings shall be given to the operatives prior to work commencing. Tool Box talks will be planned monthly and given to all operatives on a weekly basis. The Morgan Sindall designated person must be in possession of an approved MS and TS before issuing any permits. All operatives must be briefed on the requirements of the permit before work commences.

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### 4.3 General Site Requirements

#### 4.3.1 Access and Egress

Access and egress to the outfall will be VIA the field to the right hand side of the Dwr Cymru Welsh Water compound, access to the compound will be off the A487 Road running through Aberarth.



A ramped excavation will need to be constructed to access the lower area of the beach, this will be directly outside the compound

From this point the works areas to the beach can be accessed. **When on the beach, The working window is expected to be between 2 and 3 hours only at the lowest part.** Tides will be monitored to allow suitable programming of the works, After all works are complete all plant and materials will be removed from the beach area and transported to the DCWW compound. Whilst plant are accessing or traversing the beach area vehicle banks men will be present to control movements to ensure members of the public are not put at risk from the machines.

#### 4.3.2 Safety of Services

With reference to the statutory undertakers drawings and trial hole information, all known services will be marked on the ground. A CAT scan will be carried out and a permit to excavate issued prior to carrying out excavations on site. Excavations carried out within 500mm of known services will be carried out by hand.

Not all services encountered will be identified from the service plans and CAT scan – therefore utilise recognised best practice whilst completing excavations.

**No lifting operations can take place before a permit to lift has been issued.** All lifting operations are to be controlled by a permit to lift produced by a competent appointed person. Machine driver, Slinger Signaller/Crane Supervisor and appointed person all to be CPCS trained and competent.

#### 4.3.3 Safety Works or Isolation Measures

Throughout the works, the tide levels will be continuously monitored by a supervisor to ensure the

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work force and plant are not cut off by the rising tide. If there is any doubt, all work must cease and all plant and operatives to leave the foreshore.

### 4.3.4 Site office, welfare and first aid facilities

A suitable location will be provided within Aberarth as a temporary site compound where a site office and welfare facilities will be located and where plant and materials shall be stored. No plant or materials will be stored on the foreshore or beach areas, Currently the compound is anticipated to be within the DCWW existing compound.

### 4.4 Interface Issues

The local community will be fully engaged and advised of the project prior to works starting on site.

### 4.5 Scheme Construction Methodology

**If any of the methodology or construction sequence detail below should change, STOP works immediately, make safe and report to the site supervision.**

**Site establishment and compound method statement will be compiled when location of proposed compound is known.**

#### Preliminary Instructions

- Main lifting on the project will primarily be undertaken by the onsite excavator. A valid lift plan will be compiled and completed by an authorised CPCS appointed person complete with a schedule of lifts. All slinging of equipment will be undertaken by a CPCS certified slinger/signaller. The excavator driver must also hold a valid CPCS card and be component in the proposed works to be undertaken.
- All lifting chains and equipment will have current test certificates and shall display the current colour coded lifting tag. A copy of the test certificates will be held in the site file.
- A Delivery Lifting Plan & Lorry Loader Checking Form must be completed prior to any delivery offloading on site and the supplier must also have a safe system of work for offloading.
- It may be necessary to temporarily leave broken out concrete or rock on site at the end of a shift if it is not possible to remove fully due to time constraints. All excess and waste materials however will be removed from the beach and disposed of off-site at a suitable licensed facility.

- 4.5.1 The initial section of works to be complete is to construct the outfall pipe. the 225mm pipeline will be installed to the existing bend in the pipeline, this will be installed using a trench box ground support system (Install method below) or using an open dig method. On laying the pipes to the required gradient on a bed of 150mm concrete and after confirmation the desired line and level has been achieved a 200-300mm layer of concrete will be used to surround the pipeline, The trench will then be backfilled using the as dug material. This sequence will be completed until we reach the existing pipeline 2mtrs from the head wall where the 45deg bend will be installed/Altered or the sequence maybe to lay from the 45deg bend to the proposed outfall location, the desired way of laying will be decided on site and to utilise the tide window.

When all the pipeline is in place the flows can be transferred to the new outfall line and the existing line can be decommissioned, The flow will be transferred during a period of dry weather so as the overflow is not being utilised, the flows will be monitored for this operation.

At or just before low tide, vehicles and personnel shall make their way on to the foreshore from the designated access point and down the beach to the sea outfall location. At all times extreme care must be taken to ensure members of the public are not put at risk or injury.

The vehicles shall be loaded with all plant and materials necessary to undertake the works.

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Minimal quantities of fuels, materials etc. will be taken on to the foreshore to reduce the risk of pollution. **Only Tracked vehicles shall be used for this operation, due to the uneven levels of the running surface.**

Once at the sea outfall route the excavator shall clear a number of boulders from the proposed access route to enable the items of plant reach the desired location. These will be moved to one side for replacement on completion of the works, exact replacement of these stones/boulders will not be able to be achieved due to the tide movements and the removal of the outfall which is visible at the lower end of the outfall.



When at the end of the out fall the concrete surround and pipe will be demolished and loaded into the tracked dumper for transport to the site compound for disposal to a licenced waste disposal site. This process will continue towards the shore until the tide is at such a level the works are to be abandoned and all materials and plant are to be moved from the beach area. When demobilising from the beach the location of the end of the existing out fall pipe will be marked to ensure when the following days work is to commence for the removal of the rest of the pipeline.

This process will be repeated until the whole length of the outfall is removed, The resulting void from the outfall removal will be locally filled in with surrounding material and it will then be left to the tide to settle.

### Excavations using a Trench Box

The line of the pipeline will be marked out on the ground by utilising the camera team and sonde to locate the pipe. A full CAT scan survey utilising the STAT drawings will be undertaken in the vicinity of the proposed dig.

A permit to dig will then be signed and issued for the specified excavation area. All operatives involved in this operation will be briefed on the known location of any services in the area.

The width of the trench will then be clearly marked by the site team, The extent of the proposed excavation will then be reduced to 1.2mtrs. The Trench box will then be lifted and placed into the excavation by the excavator to the formation of the trench, utilising certified chains.

A valid permit to lift will be produced prior to the lift and signed by the appropriate persons, to confirm that the excavator is within its lifting capacity to handle the temporary works. Also a CPCS certified slinger/signaller will control all lifting operations.

The trench boxes will then be progressively installed using the 'cut and lower' technique.

The internal area of the trench boxes will then be excavated with the 360 excavator. When the excavation is under way the corners of the trench box will be pushed uniformly to failure into the

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ground. This process will be completed until the desired formation has been achieved. No operative is to be within the trench whilst the excavation is being progressed.

All excavated spoil will be stored to the side of the excavation in a safe and suitable manner, to be used for backfilling operations.

### 4.7 Contingency Plans

- 4.7.1 In the event of a spill on site no matter how minor, site personnel must firstly find the source of the spill and **Stop** it, then **Contain** it by using the equipment available in the Spill Response Kit. Then **Notify** the Project Manager, Foreman or Engineer of the details of the incident. A clean-up of the spill will be undertaken.
- 4.7.2 In the event of a serious injury which as a result the operative cannot be safely moved the Coastguard will be called immediately by calling 999.
- 4.7.3 Should one of the vehicles break down whilst on the foreshore, a towing chain or strap will be fitted to allow one of the other vehicles to tow it to safety.
- 4.7.4 First Aid kits are available in the site cabins and vehicles and are also kept by appointed First Aiders.
- 4.7.5 Damage to any statutory undertakers apparatus should be notified to relevant people using the following contact numbers:-

| Statutory Undertaker    | Additional Info.                | Number        |
|-------------------------|---------------------------------|---------------|
| BT                      | Emergency & Dial before you dig | 0800 9173993  |
| WPD                     | Emergency                       | 0800 052 0400 |
| Wales & West Utilities  | Emergency                       | 0800 111 999  |
| DCWW Pollution Helpline | Sewerage                        | 08000 853968  |
| DCWW Control Room       | General Enquiries               | 08000 520130  |

## Section 5 – Plant, Equipment

The following plant and equipment will be used at various times during this operation:-

Plant, equipment and lifting equipment will only be used by operators who are authorised, trained and have CPCs certification. The operator must inspect all plant and equipment before use and if any damage is found, then it shall be removed from service and the Foreman / Supervisor must be informed.

### Plant and Equipment

| Equipment description    | Test Certificates in date<br>(matched to equipment) | Operator details |
|--------------------------|-----------------------------------------------------|------------------|
| 8t/13t Tracked Excavator | TBC                                                 | TBC              |

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|                                     |             |     |
|-------------------------------------|-------------|-----|
| Tracked Dumper                      | TBC         | TBC |
| Tractor and trailer                 | If required | TBC |
| Lifting Equipment Tagged and Tested | TBC         | TBC |
| Hand power tools e.g. drills        | TBC         | TBC |
| Electric/Petrol Disc Cutter         | TBC         | TBC |
| Cable avoidance tool and generator  | TBC         | TBC |
| Small tools e.g. hammers, saws      | TBC         | TBC |
| Compressor/generator                | TBC         | TBC |
|                                     |             |     |
|                                     |             |     |
|                                     |             |     |
|                                     |             |     |

### Personal Protective Equipment (PPE)

| Equipment description                           | Specification<br>(e.g. type, grade)                         | Training required |
|-------------------------------------------------|-------------------------------------------------------------|-------------------|
| <i>Fluorescent jackets or waistcoats</i>        | <i>(to BS EN 471 Class 2) (Class 3 on high speed roads)</i> |                   |
| <i>Safety glasses or goggles</i>                | <i>(to BS EN 166-F for general site work)</i>               |                   |
| <i>Safety helmets</i>                           | <i>(to BS EN3 97)</i>                                       |                   |
| <i>Steel toecapped boots with steel midsole</i> | <i>(to BS EN 345)</i>                                       |                   |
| <i>Gloves (appropriate for task)</i>            | <i>(to BS EN 388 – Category 2)</i>                          |                   |



## Method Statement

### Receipt Acknowledgements

#### Supervisor in charge of the Work

I confirm that I have read and understand the requirements of this method statement and associated risk assessments and will ensure their communication to operatives under my control and to those who may be affected by its requirements

|                   |  |                   |  |
|-------------------|--|-------------------|--|
| <b>Signed</b>     |  | <b>Date</b>       |  |
| <b>Print name</b> |  | <b>Supervisor</b> |  |

### Communication

Communicate the contents of the Method Statement to all those involved or affected by the works and record their details below.

The following personnel have been inducted in the procedures required to carry out the operations detailed in this Method Statement.

**Note:** please complete the original MS attendance sheet [copy to be kept in the on-site file original to be returned to Document Control]. Copies of the original MS are to be distributed to the MS holders.

**Note to Contractor:** whenever the method of work changes you must seek agreement from MORGAN SINDALL before proceeding. Remember to instruct all new starters and get them to sign below.

| Name | Job Description | Signature | Date | Employer | Inductor |
|------|-----------------|-----------|------|----------|----------|
|      |                 |           |      |          |          |
|      |                 |           |      |          |          |
|      |                 |           |      |          |          |
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#### NOTE:

- If you have any doubt about any information given or contained in this Method Statement – ASK FOR CLARIFICATION.

|                    |                |                 |                |        |          |
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## Safety, Health and Environment Risk Assessment

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |                                 |   |                            |          |                            |   |                                                                                                                                                                                                                                                 |          |          |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|---|----------------------------|----------|----------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--|
| <b>Project title and contract no.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                              | Aberarth Outfall                |   | <b>Risk assessment no.</b> |          | 01                         |   | Risk Factor                                                                                                                                                                                                                                     |          |          |  |
| <b>Activity</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              | Replacement of existing outfall |   | <b>Location</b>            |          | Aberarth                   |   | Risk Quantity                                                                                                                                                                                                                                   |          |          |  |
| <b>Person conducting assessment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              | Kevin James                     |   | <b>Date</b>                |          | 20.11.18                   |   | <div> <div>No injury, damage or environment impact</div> <div>Minor injury, damage or environment impact</div> <div>Major injury, damage or environment impact</div> <div>Fatality, building loss, catastrophic environment impact</div> </div> |          |          |  |
| <b>Person supervising work</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              | Eryl Davies                     |   | <b>Date</b>                |          | 20.11.18                   |   |                                                                                                                                                                                                                                                 |          |          |  |
| <b>Persons exposed</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                              |                                 |   |                            |          |                            |   |                                                                                                                                                                                                                                                 |          |          |  |
| <b>Employees</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | x                            | <b>Other workers</b>            | x | <b>Public/ visitors</b>    | x        | <b>Young persons</b>       |   |                                                                                                                                                                                                                                                 |          |          |  |
| <b>New / expectant mothers</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                                 |   | <b>Disabled</b>            |          |                            |   | <b>Others</b>                                                                                                                                                                                                                                   |          |          |  |
| <b>Estimated total number of persons at risk</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                 |   | 3                          |          |                            |   | Almost no probability                                                                                                                                                                                                                           |          |          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |                                 |   |                            |          |                            |   | A small probability                                                                                                                                                                                                                             |          |          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |                                 |   |                            |          |                            |   | A small probability                                                                                                                                                                                                                             |          |          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |                                 |   |                            |          |                            |   | Almost certain                                                                                                                                                                                                                                  |          |          |  |
| <b>Hazards (what might cause harm?)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |                                 |   | <b>S</b>                   | <b>H</b> | <b>E</b>                   |   | <b>S</b>                                                                                                                                                                                                                                        | <b>H</b> | <b>E</b> |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Adverse Weather Conditions   | ✓                               |   |                            | 17       | Loading/Unloading          | ✓ | ✓                                                                                                                                                                                                                                               |          |          |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cold                         | ✓                               | ✓ |                            | 18       | Materials                  | ✓ | ✓                                                                                                                                                                                                                                               |          |          |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Electricity                  |                                 |   |                            | 19       | Moving Parts of Machinery  | ✓ | ✓                                                                                                                                                                                                                                               |          |          |  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Excavation                   | ✓                               |   |                            | 20       | Proximity to Water         | ✓ | ✓                                                                                                                                                                                                                                               | ✓        |          |  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Fire/Flammable Atmosphere    |                                 |   |                            | 21       | Scaffold                   |   |                                                                                                                                                                                                                                                 |          |          |  |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Floor/Ground Conditions      | ✓                               |   |                            | 22       | Sharp Objects              |   |                                                                                                                                                                                                                                                 |          |          |  |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Flying Particle/Dust         | ✓                               | ✓ | ✓                          | 23       | Stairs/Steps               |   |                                                                                                                                                                                                                                                 |          |          |  |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Hand or Power Tool           | ✓                               | ✓ |                            | 24       | Static Equipment/Machinery |   |                                                                                                                                                                                                                                                 |          |          |  |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Hazardous Substance          | ✓                               | ✓ | ✓                          | 25       | Structure                  |   |                                                                                                                                                                                                                                                 |          |          |  |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Heat/Hot Work                |                                 |   |                            | 26       | Temporary Works            |   |                                                                                                                                                                                                                                                 |          |          |  |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Lack of Experience           | ✓                               |   |                            | 27       | Vehicle/Mobile Equipment   | ✓ | ✓                                                                                                                                                                                                                                               | ✓        |          |  |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Lack of Training             | ✓                               | ✓ | ✓                          | 28       | Working Hours/Fatigue      | ✓ | ✓                                                                                                                                                                                                                                               |          |          |  |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Lack of/too much Oxygen      |                                 |   |                            | 29       | Workstation Design         |   |                                                                                                                                                                                                                                                 |          |          |  |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Access                       | ✓                               | ✓ |                            | 30       | Work at Height             |   |                                                                                                                                                                                                                                                 |          |          |  |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Lifting Equipment Appliances | ✓                               |   |                            | 31       | Other                      |   |                                                                                                                                                                                                                                                 |          |          |  |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Lighting                     | ✓                               |   |                            |          |                            |   |                                                                                                                                                                                                                                                 |          |          |  |
| <div> <div>Risk Level</div> <div>Action</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |                                 |   |                            |          |                            |   |                                                                                                                                                                                                                                                 |          |          |  |
| <div> <div>Insignificant</div> <div>No action required and no documentary records need to be kept.</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |                                 |   |                            |          |                            |   |                                                                                                                                                                                                                                                 |          |          |  |
| <div> <div>Acceptable</div> <div>No further preventative action. Consideration shall be given to more cost effective solutions or improvements that impose no additional cost burden. Monitoring required to ensure that controls in place are properly maintained.</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |                                 |   |                            |          |                            |   |                                                                                                                                                                                                                                                 |          |          |  |
| <div> <div>Unacceptable</div> <div>Work shall not be started or continued until the risk level has been reduced to an acceptable risk level. While the control measures selected shall be cost-effective, legally there is an absolute duty to reduce the risk, this means that if it is not possible to reduce the risk even with unlimited resources, then the work shall not be started or shall remain prohibited.</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              |                                 |   |                            |          |                            |   |                                                                                                                                                                                                                                                 |          |          |  |
| <div>Notes:</div> <ol style="list-style-type: none"> <li>Physical Hazards are the nature of issues that may cause harm. Tick box for hazard.</li> <li>Preventative / Control Measures are the actions that will stop it going wrong.</li> <li>Control measures are to ensure that residual risks are reduced to a minimum. Where controls fail to reduce the risk to an acceptable level then refer assessment to your line manager.</li> <li>If the operations are likely to affect the public or the safe operation of a public infrastructure or transport system, the control measures must reduce the likelihood of significant harm to the level that existed before our work commenced.</li> <li>Where young persons or expectant mothers are involved in the activity, ensure that any additional controls are put in place in accordance with local procedures.</li> <li>In addition to the above, consideration must be given to other individuals' susceptibility due to pre-existing health conditions, e.g. bad back, poor hearing. Additional 'human factors' such as ergonomics, workplace design, etc. should also be considered.</li> </ol> |                              |                                 |   |                            |          |                            |   |                                                                                                                                                                                                                                                 |          |          |  |

## Safety, Health and Environment Risk Assessment

|                             |                                                                                                                                                                                                     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7. Where a hazard is identified that is not listed in the Physical Hazards list, enter the hazard description followed by other in brackets i.e. (Other). |                              |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Hazard no.<br>(from page 1) | Nature of risk (What might go wrong?)                                                                                                                                                               | Risk before controls<br>U / A | Control measures<br>(How do you stop it going wrong?)                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Control measure implemented by<br>(name)                                                                                                                  | Risk after controls<br>U / A |
| 14, 16, 20                  | <b>Being cut off due to incoming tides</b> <ul style="list-style-type: none"> <li>Damage to plant</li> <li>Loss of materials</li> <li>Potential drowning</li> </ul>                                 | U                             | <ul style="list-style-type: none"> <li>Works to be undertaken during lowest possible tide levels to provide suitable access and egress.</li> <li>Work to be undertaken during good weather conditions.</li> <li>Tide levels to be monitored throughout the work to ensure operatives, plant and materials are safely removed from site before being cut off.</li> <li>Minimal quantities of labour and kit to be taken to work area.</li> <li>Work to be carried out during day light hours.</li> </ul> | Site Supervisors/<br>Operatives                                                                                                                           | A                            |
| 9                           | <b>Environmental Threat:</b> <ul style="list-style-type: none"> <li>Spillage or use of chemicals such as diesel, grease, resin resulting in environmental pollution or harm to personnel</li> </ul> | U                             | <ul style="list-style-type: none"> <li>Use of environmentally friendly products where possible.</li> <li>COSHH assessments for all COSHH items</li> <li>Dispose of all waste materials to designated skips etc.</li> <li>Emergency spill kits are to be maintained at every work location and with each main item of plant.</li> <li>Equipment to be stored on designated drip trays/ bundled areas</li> <li>Minimal quantities of materials, fuels etc. to be taken on to foreshore.</li> </ul>        | Site staff, operatives                                                                                                                                    | A                            |
| 6, 14                       | <b>Working on construction sites</b> <ul style="list-style-type: none"> <li>Slips, trips, falls.</li> </ul>                                                                                         | U                             | <ul style="list-style-type: none"> <li>Ensure good housekeeping of working areas.</li> <li>All personnel to have received an specific project and site induction.</li> </ul>                                                                                                                                                                                                                                                                                                                            | Site Supervisors/<br>Operatives                                                                                                                           | A                            |

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|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---|
|                | <ul style="list-style-type: none"> <li>Sprains, strains, broken limbs.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                   |   | <ul style="list-style-type: none"> <li>Footwear to have good grips and soles.</li> <li>Use of crawling boards on rock to prevent slips and falls.</li> <li>Where possible do not walk across rocks and avoid obvious wet or seaweed covered areas</li> </ul>                                                                                                                                                                                                                                                                                                                                    |                                                                   |   |
| 7, 8, 12, 19   | <b>Working with construction plant</b> <ul style="list-style-type: none"> <li>Noise and vibration</li> <li>Ear damage</li> <li>Environmental impact i.e nuisance noise and damage to properties from vibration</li> <li>Dust/debris blown into eyes, off cuts of tying wire flying into eyes.</li> <li>Catching hands on sharp or rough surfaces.</li> <li>Injuries to eyes, possible blindness. Cuts, lacerations to hands and fingers.</li> </ul> | U | <ul style="list-style-type: none"> <li>Ensure all plant has noise reduction measures in place and working correctly i.e. baffles, acoustic jackets.</li> <li>PPM scheme to ensure plant working correctly.</li> <li>All personnel must wear safety glasses/goggles and gloves at all times once they enter the working area in addition to the mandatory high visibility clothing, hard hat and safety boots. CPCS trained plant operatives. (or similar approved)</li> <li>Switch off all plant when not in use.</li> <li>Vibration and noise monitoring during certain operations.</li> </ul> | Site Supervisors/<br>Operatives                                   | A |
| 7, 27          | <b>Interaction with public</b> <ul style="list-style-type: none"> <li>Injury to members of the public due to plant and materials crossing public beach area</li> <li>Injury to members of the public during works</li> </ul>                                                                                                                                                                                                                        | U | <ul style="list-style-type: none"> <li>Minimum quantity of plant and materials to be taken to the work area to reduce number of trips across beach.</li> <li>Vehicles to be marshalled by operatives walking in front to control speeds.</li> <li>Where possible avoid busiest locations and abundance of people.</li> <li>Work area to be controlled to prevent members of the public encroaching by banksman. Stop works if members of the public enter working area.</li> </ul>                                                                                                              | Site Supervisors/<br>Operatives                                   | A |
| 12, 15, 17, 19 | <b>Lifting operations</b><br><br>Load falling due to failure of lifting equipment, or                                                                                                                                                                                                                                                                                                                                                               | U | <ul style="list-style-type: none"> <li>All lifts to be controlled by trained/competent slinger/signaller.</li> <li>Lift plan to be completed by crane appointed</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                      | Appointed person,<br>machine operator,<br>slinger/signaller, Site | A |

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|            |                                                                                                                                                                                                                                  |   |                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                              |   |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---|
|            | incorrectly slung loads<br>Dropping of load in an unsafe manner uncontrolled slewing causing collision with plant or operatives <ul style="list-style-type: none"> <li>Serious injury due to crushing, possible death</li> </ul> |   | person and plant certificates to be in place. <ul style="list-style-type: none"> <li>No personnel to stand under or near to suspended loads.</li> <li>Safety zones to be established around lifting operations.</li> <li>All lifting equipment to be thoroughly examined prior to use</li> <li>All drivers to be competent experienced and trained to CPCS standard.</li> <li>Weather conditions to be monitored.</li> </ul> | Supervisors.                                                 |   |
| 14, 17, 30 | <b>Unloading of materials</b> <ul style="list-style-type: none"> <li>Operatives falling off the bed of delivery vehicles whilst assisting with the unloading of materials/plant resulting in serious injury/fatality.</li> </ul> | U | <ul style="list-style-type: none"> <li>Delivery vehicles to be fitted with integral edge protection barriers.</li> <li>Under no circumstances are operatives to access the bed of a lorry unless a safe system of work is in place and agreed by the site management.</li> <li>Hiab off-loading form to be completed and authorised.</li> </ul>                                                                              | Site Supervisors, Operatives.                                | A |
| 12, 27,    | <b>Use of construction plant.</b> <ul style="list-style-type: none"> <li>Possible crushing of operatives and pedestrians</li> </ul>                                                                                              | U | <ul style="list-style-type: none"> <li>All mobile plant must only be operated by suitably licensed and trained operators i.e. CPCS cards.</li> <li>Operatives to wear high visibility clothing</li> <li>Banksman to be appointed to supervise works</li> <li>Segregated pedestrian and vehicle access wherever possible.</li> </ul>                                                                                          | Plant operator, site personnel, banks man. Site supervisors. | A |
| 9          | <b>Contact with sewage</b> <ul style="list-style-type: none"> <li>Weils disease</li> <li>Waterborne pollutants and bacteria causing death or serious injury.</li> </ul>                                                          | U | <ul style="list-style-type: none"> <li>PPE to include safety boots/wellingtons, hard hat, glasses, hi-viz, gloves, disposable overalls/oil skins, waders and face mask.</li> <li>Maintain good personal hygiene practices</li> <li>Avoid breathing in sewage dust or spray – dust mask/face masks should be worn</li> <li>Clean contaminated equipment onsite, do not take contaminated equipment home for</li> </ul>        | All operatives, Supervisors                                  | A |

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|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---|
|              |                                                                                                                                                                             |   | washing.<br>Where possible isolate flows as much as possible to reduce likelihood of contact.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                               |   |
| 8, 27        | <b>Noise from works:</b> <ul style="list-style-type: none"> <li>Noise level too high resulting in noise induced hearing loss.</li> <li>Disturbance to residents.</li> </ul> | U | <ul style="list-style-type: none"> <li>Noise to be reduced by engineering means wherever practicable, e.g. use of noise reducing blades, purchasing of silenced equipment, maintenance of equipment to manufacturers specification to avoid worsening noise, e.g. ensure rotating parts are checked for balance and replace if necessary.</li> <li>Control of Noise at work regulations 2005 to apply</li> <li>Where noise level is above the 1st action level, currently 80dB(A), hearing protection to be provided on request.</li> <li>Where noise level is at or above the second action level, currently 85dB(A), appropriate PPE must be worn.</li> <li>Operatives to be supplied and wear ear defenders to provide protection at 500-2000Hz frequency. Standard Noise Reduction (SNR) - 28-32dB - Approved to EN 352-2.</li> </ul> | Site Supervisors, Operatives. | A |
| 7, 8, 12, 19 | <b>Use of Abrasive Wheels:</b> <ul style="list-style-type: none"> <li>Injury to user and other personnel from flying debris or incorrect use of wheel</li> </ul>            | U | <ul style="list-style-type: none"> <li>Use of goggles (to BS2092)</li> <li>Wear mandatory PPE inclusive of ear defenders</li> <li>Tool box talks</li> <li>Ensure all necessary guards are in place</li> <li>PPM scheme</li> <li>Competent person only to change the blade ensuring speed match.</li> <li>Do not use side of blade for any use</li> <li>Ensure operatives have received abrasive wheel training.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                | Site Supervisors, Operatives. | A |

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| 7, 8, 12, 19       | <b>Contact with flying particles:</b> <ul style="list-style-type: none"> <li>Injury from cutting/grinding operations</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                 | U | <ul style="list-style-type: none"> <li>Use dust suppression as required</li> <li>Wear safety spectacles/goggles suitable for the task being carried out</li> <li>Ensure the manufacturer's recommended/provided guards are present and set correctly on all tools</li> <li>Ensure a clear area around operation before commencing</li> <li>Heat resistant clothing</li> <li>Only trained/competent operatives to use equipment</li> <li>When using disc cutters always cut away from other operatives and inform anybody in the immediate area that cutting will soon commence</li> </ul> | Site Supervisors, Operatives.           | A |
| 6, 18              | <b>Material Storage:</b> <ul style="list-style-type: none"> <li>Improper storage/stacking of materials which could overturn/topple resulting in serious injury/fatality to nearby site personnel.</li> </ul>                                                                                                                                                                                                                                                                                                                    | U | <ul style="list-style-type: none"> <li>An designated storage area will be fenced off using pedestrian barriers</li> <li>Good housekeeping must be maintained at all times.</li> <li>Visual check on lifting points to ensure integrity</li> <li>Materials to be stacked on firm level ground.</li> </ul>                                                                                                                                                                                                                                                                                  | Site Supervisors, Operatives            | A |
| 11, 12, 15, 19, 27 | <b>Use of Quick Hitch</b> <ul style="list-style-type: none"> <li>Risk of operatives being struck by a falling excavator bucket or attachment as a result of incorrect attachment or missing locking pins, resulting in death or major injury.</li> <li>Bucket Failure/Falling whilst digging/grading causing death, major injury</li> <li>Risk of serious injury to the excavator driver when changing attachments to the quick hitch mechanism. Incorrect attachment change not in accordance with operators manual</li> </ul> | U | <ul style="list-style-type: none"> <li>CPCS Trained and Certified machine drivers/Operatives.</li> <li>Operatives are prohibited from working beneath excavators</li> <li>Machine operators must be trained and deemed competent to operate the type of quick hitch system fitted to their machine. NB: Operators must demonstrate competence by a change of bucket in the presence of Site Supervisors.</li> <li>Magnor Plant Operators must be inducted by Magnor plant before being employed on a</li> </ul>                                                                           | Site Management, Operatives & Operators | A |

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|  | <p>resulting in death, major injury to persons within the operating area of the machine</p> <ul style="list-style-type: none"> <li>• Failure of Quick Hitch or Attachments due to incorrect fitting.</li> <li>• Failure of Quick Hitch or Attachments due to crowding.</li> </ul> |  | <p>Morgan Sindall Site.</p> <ul style="list-style-type: none"> <li>• Semi Automatic and Automatic Single locking Quick Hitches are banned on all Morgan Sindall Sites. Quick hitches must be either then Fully Automatic Double Locking or of the Manual type.</li> <li>• Machine operators must sign a declaration at induction to confirm that they have been trained in the use of the machine quick hitch (Quick Hitch Equipment Pre – Start Arrival Check Form) and that they have read and understood the operators manual specific to that quick hitch.</li> <li>• In date certificate of thorough examination or certificate of conformity for all excavators.</li> <li>• Manufactures installation and operation manuals for all types of Quick Hitches must be kept within the excavator and not removed from the cab.</li> <li>• PPM's on all plant to include quick hitch checks.</li> <li>• Visual / physical inspection to be carried out on quick hitch system at the start of each shift or when attachment is changed to ensure the safety pin / latch or clamp connection is in place and secure. NB: Operators must physically get out of the cab to check this – Mandatory Instruction)</li> <li>• Manual quick hitch lever - to be inspected by driver after change of bucket without fail to ensure it is in its locked position.</li> <li>• Buckets and other attachments &amp; "Shake Rattle Roll tests" shall be changed in a safe area away from operatives/third parties.</li> </ul> |  |  |
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|  |  |  | <p>“Shake, Rattle, Roll” test of the fitted attachment, or placing the bucket flat on the ground then trying to un-crowd the bucket so that the bucket tries to disengage from the QH. Test to be carried out when a bucket is changed and at the start of every shift.</p> <ul style="list-style-type: none"> <li>• Bucket to be removed prior to any lifting operation by the excavator</li> <li>• Any excessive movement of bucket connected via a quick hitch to be reported to site supervisor immediately for investigation of working mechanism of the quick hitch.</li> <li>• Any visual indication of hydraulic leak near to quick hitch mechanism to be reported immediately, stop work immediately and do not commence work until authorised to do so by site supervisor.</li> <li>• Special care to be taken when using quick hitch systems:<br/>Manual: This requires the winding of a screw or the use of a bar to open a spring actuated latch.<br/>Automatic: This is operated entirely from the cab of the excavator and usually has an independent locking system which functions automatically and does not rely on hydraulic pressure to hold the latch in the closed position. The operator must ensure the locking system has completed before proceeding with work.</li> <li>• Under no circumstances must Piling Hammers be fitted directly to the Quick Hitch, these must be fitted directly to the Excavator Dipper Arm.</li> <li>• Breakers may not be fitted to the Quick Hitch for tasks of a long duration, they must be fitted</li> </ul> |  |  |
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|                    |                                                                                                                                                                                              |   | directly to the Dipper Arm.<br>• Piling Hammers and Quick Hitches must be fitted by a competent service engineer.<br>• Ensure that the correct size of excavator has been chosen to adequately carry out the task.                                                                                                                                                                                                                                                                   |                                                             |   |
| 4                  | <b>Excavation works</b> <ul style="list-style-type: none"> <li>Striking buried services resulting in electrical shock, injury from damaging pressurised pipes etc.</li> </ul>                | U | • All excavations will be covered by a permit to excavate.<br>• Prior to issue of the permit all service drawings are to be studied and a thorough C.A.T scan performed.<br>• All services known and found to be marked on site.<br>• Excavation to be carried out by hand when 500mm or less from a known service.<br>• Trench dig to be supervised by a competent trained and experienced person<br>• If unknown service is found, stop and report it to the site management team. | Site management team, work supervisor, services coordinator | A |
| 6, 14, 16, 23      | <b>Falls on same level</b> <ul style="list-style-type: none"> <li>Trip over</li> <li>Fall onto sharp objects</li> <li>Land on uneven surface</li> <li>Fall into existing chambers</li> </ul> | U | • Good Housekeeping, ensure clean and tidy work spaces<br>• Ensure all materials are stacked as per manufacturers recommendations<br>• Place waste material in the designated areas<br>• Designated walkways to segregate operatives and materials<br>• Signage as necessary                                                                                                                                                                                                         | Site Supervisors, Operatives                                | A |
| 2, 3, 7, 8, 12, 19 | <b>Use of small tools:</b> <ul style="list-style-type: none"> <li>Injury due to faulty equipment</li> <li>HAV's exposure limits exceeded</li> </ul>                                          | U | • All guards are to be in place as per manufacturers recommendations<br>• Tool box talks on safe use of equipment<br>• Plant to be used in accordance with manufacturer's instructions.<br>• Trained personnel for use of plant.<br>• Remove any faulty tools/equipment from service immediately and inform your                                                                                                                                                                     | Site Supervisors, Operatives                                | A |

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|                   |                                                                                                                                                                                                        |   | supervisor <ul style="list-style-type: none"> <li>• PAT testing all portable electrical equipment</li> <li>• Use of correct PPE to suit equipment being used</li> <li>• PPM's for each item to be completed by a competent person</li> <li>• Keep hands warm during colder weather</li> <li>• Limit "trigger" time for equipment being used and rotate workforce</li> <li>• Exercise hands to increase blood flow</li> <li>• Record actual trigger times on daily form</li> </ul>                                                                                                                                                                                                                                                                                                                             |                              |   |
| 9, 12, 18         | <b>Contact with/exposure to hazardous substances:</b> <ul style="list-style-type: none"> <li>• Injury/Poisoning/Ingestion of COSHH items</li> <li>• Concrete Burns</li> <li>• Weils Disease</li> </ul> | U | <ul style="list-style-type: none"> <li>• Use alternative less harmful substances</li> <li>• Complete COSHH assessment and brief operatives accordingly</li> <li>• Training as required</li> <li>• Wear appropriate PPE</li> <li>• Only authorised personnel to use substances</li> <li>• Tool box talks (COSHH)</li> <li>• Disposal to designated COSHH skips and further disposal to licensed tip ensuring a waste transfer note has been completed.</li> <li>• Do not use materials until fully aware of the associated risks</li> <li>• Wash off any concrete/mortar splashes as soon as possible</li> <li>• Report any burns to your supervisor – do not ignore burning "sensations" check them out.</li> <li>• Good Hygiene – wash any area that came into contact with substances thoroughly</li> </ul> | Site Supervisors, Operatives | A |
| 6, 12, 17, 18, 28 | <b>Manual Handling:</b> <ul style="list-style-type: none"> <li>• Operatives suffering musculoskeletal injuries</li> <li>• Damaging items being lifted</li> </ul>                                       | U | <ul style="list-style-type: none"> <li>• Provide regular manual handling training/toolbox talks</li> <li>• Assess load to be lifted using TILE and use mechanical means of lifting if possible</li> <li>• Complete manual handling risk assessment if</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Site Supervisors, Operatives | A |

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|                                                   |  |             | mechanical lift is not possible<br>• Break down load to a more manageable size<br>• More than one person to complete lift if load is awkward or irregular in shape |           |                            |                                                                                         |  |             |  |
| Method Statement required?                        |  | Yes         | ✓                                                                                                                                                                  | No        |                            | Method Statement number:                                                                |  | MS/ 1W6000  |  |
| Additional Risk Assessment (Tick box as required) |  |             |                                                                                                                                                                    |           | PPE (Tick box as required) |                                                                                         |  |             |  |
| Noise                                             |  | COSHH       |                                                                                                                                                                    | Handling  |                            | Helmet                                                                                  |  | Respiratory |  |
| Asbestos                                          |  | Lead        |                                                                                                                                                                    | Radiation |                            | Hearing                                                                                 |  | Eye         |  |
|                                                   |  | Name        |                                                                                                                                                                    |           |                            | Signature                                                                               |  | Date        |  |
| Person completing the assessment:                 |  | Eryl Davies |                                                                                                                                                                    |           |                            | pp.  |  | 20.11.18    |  |
| Person reviewing the assessment:                  |  | Kevin James |                                                                                                                                                                    |           |                            |      |  | 20.11.18    |  |
| Date to be reviewed:                              |  | TBC         |                                                                                                                                                                    |           |                            |                                                                                         |  |             |  |