



**GLENELG SEA FOREST SEAWEED FARM:
AIRD A MHILL, LOCH ALSH**

**APPENDIX 3:
METHOD STATEMENT**

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NB: This Outline Method Statement must be developed in more detail prior to any works being carried out on site.

1 Scope of Work

This method statement covers the works involved for North West Marine (NWM) to install the stage 1 test lines for the Aird A Mhill Seaweed Farm. The farm will be installed over a three year period:

- Stage 1 will comprise the installation of 4 individual longlines, 150m long, within one of the agreed grid footprints, set 50m apart. The lines will be moored securely to the seabed; and these moorings will later form part of the wider grid system.

For information, and not part of the scope of works for this phase of the project, stages 2 and 3 are set out below:

- Stage 2 will see the long line system converted to a grid, with the remaining 12 lines and wider mooring system installed.
- Stage 3 will see the remaining 4 grids on the Aird A Mhill site installed.

Refer to appended drawing for further information.

2 Site Details

2.1 Location of Work

The site location is defined as Aird A Mhill, at the east end of Loch Alsh, Wester Ross, Highlands; Farm Coordinates are detailed in Table 1 below.

Table 1: Aird A Mhill Seaweed Farm Coordinates

| Latitude/ Longitude | OS Grid Ref |
|-------------------------------|----------------|
| WGS84: 57:16.410N, 5:37.1000W | NG 81962 26115 |
| WGS84: 57:16.180N, 5:37.1000W | NG 81939 25689 |
| WGS84: 57:16.410N, 5:36.300W | NG 82765 26073 |
| WGS84: 57:16.180N, 5:36.300W | NG 82742 25646 |

2.2 Name and details of Nearest Medical Centre and Hospital

- a) Broadford Medical Centre
High Road, Broadford, Isle of Skye IV499AA
Tel: 01471 822 460
- b) Dr Mackinnon Memorial Hospital
High Road, Broadford, Isle of Skye IV499AA
Tel: 01471 822 491

3 Personnel and Competence

3.1 North West Marine (NWM) Personnel

All works are to be undertaken by NWM, with no sub-contractors. The personnel engaged on these works are detailed in Table 2 below.

Table 2: NWM Personnel

| Name | Position | Mandatory Qualifications | Other Qualifications |
|------|-------------|--------------------------|----------------------|
| TBC | Skipper | | |
| TBC | Deckhand | | |
| TBC | First Aider | | |

Table Notes:

1. Details of the appointed person, lift supervisor etc are detailed in the Lift Plan RAMS.

4 Hazards, Risk Assessments and Method Statements

4.1 Risk Assessments & Method Statements

Risk Assessments and Method Statements (RAMS) associated for specific activities being undertaken by NWM for this project are being developed. They will take into account how the activity will be undertaken through detailing the method of works; then identifying the hazards presented, and the control measures that will be required to mitigate them and ensure the safety of personnel, along with any person within the vicinity or likely to be impacted by the activity. Personal protective equipment (PPE) will be detailed and provided, with personnel trained and competent to use it. The RAMS being developed and which will be appended to this document are:

Appended documents:

- RAMS 001 – Barge Operations
- RAMS 002 – Lift Plan and Crane Operations

4.2 General Project Hazards Identified

- Contact with sharp objects/ materials
- Coronavirus Disease (COVID-19)
- Electricity
- Exposure to Contact Hazards
- Lifting Operations
- Manual Handling
- Noise
- Site Transport and Deliveries
- Slips, Trips and Falls
- Sunburn and Weather
- Vibration
- Work at Height

- Working with Mobile Plant/ Traffic and Vehicle Movements
- Working with Power Tools
- Working in and around tidal water, on boats and exposed walkways in tidal water

4.3 Personal Protective Equipment (PPE)

Mandatory PPE as per site rules:

- High Viz clothing
- Hard Hat
- Safety Boots
- Gloves
- Eye Protection
- Flotation Suit
- Other PPE as per COSHH Assessment or specific RAMS

4.4 Additional Measures Due to Covid-19 Pandemic

- All personnel to travel to/from site in separate vehicles from persons they do not share accommodation with. On arriving at site, parking should be such that social distancing can be maintained when entering and exiting the vehicles.
- Handwashing facilities and sanitizer to be available when entering site.
- Social distancing shall be maintained on site. Close working is not possible.

5 Tools, Plant and Equipment

Tools, plant and equipment required to undertake the work include:

- Barge and (on-board) crane
- Site welfare cabins (on board facilities)
- Battery powered drills (if using 240V must be charged from mains supply in office)
- Small hand tools

6 Materials

Permanent materials and equipment to be installed as part of the works include:

- Anchors
- Heavy chain link
- Anchor rope and buoy
- Header rope
- Buoys
- Marker and navigation buoys

7 Method and Sequence of Work

7.1 Prestart

Before commencing work on site, site specific hazard identification and risk assessments will be undertaken; and this will be cascaded to all workforce through an initial site induction and daily toolbox talks. This includes employees, sub-contractors, client’s staff, and visitors.

7.2 Daily

- a) The site will be supervised by an appointed NWM personnel, detailed in Table 2, Section 3.1. They are deemed fully trained and competent to undertake this task.
- b) Prior to daily works commencing an appointed competent person will:
 - o provide a daily briefing on RAMS relevant to the activities being undertaken to the workforce that day.
 - o Ensure correct and appropriate PPE is provided, and that the personnel using it have the appropriate training and are competent.
 - o Provide a site induction to any new personnel, making them aware of relevant identified risks specific to the site and their identified activities.
- c) The work area, plant and equipment checks will be undertaken.
- d) Weather will be checked, monitored and recorded daily (Fig.3). Met office forecast or similar to be used. Information to be recorded includes wind direction and strength; temperature; rainfall; and air pressure. **If any wave height over 100mm is recorded within the works area, all works will cease.**

| Hour | Wind | Avg. | Gust | Temp. | Appmt Temp. | Rain 1h | Cloud | Press. |
|-------|------|-------|----------|-------|-------------|---------|-------|---------|
| 17:00 | WSW | 7 mph | to 8 mph | 18 °C | 18 °C | 0.2 mm | 100 % | 1002 mb |
| 18:00 | SW | 5 mph | to 7 mph | 17 °C | 17 °C | 0.2 mm | 100 % | 1002 mb |
| 19:00 | SSW | 1 mph | to 5 mph | 17 °C | 17 °C | 0.1 mm | 100 % | 1001 mb |
| 20:00 | E | 2 mph | to 3 mph | 16 °C | 16 °C | 0.1 mm | 100 % | 1001 mb |
| 21:00 | ESE | 5 mph | to 6 mph | 14 °C | 14 °C | 0.1 mm | 100 % | 1001 mb |
| 22:00 | SSE | 2 mph | to 3 mph | 13 °C | 13 °C | 0 mm | 100 % | 1000 mb |
| 23:00 | ESE | 5 mph | to 5 mph | 13 °C | 13 °C | 0 mm | 100 % | 1000 mb |

Figure 3: Extracted example of weather data to be recorded daily.

7.3 Deployment of Equipment

The deployment of equipment will be undertaken in two phases: setting the moorings, and setting the long lines.

- a) Phase 1: Setting the Moorings (2 per long line):
 - i. Set up the mooring chains on deck, all shackles tightened and cable tied.
 - ii. Connect the crane to the main shackle on the anchor, using appropriately rated lifting chains/ hook/ sling.

- iii. Using the crane, lift the anchor into the water off the front or side of the vessel following the signallers instructions ensuring nothing enters the work area.
 - iv. Attach the mooring chain onto the main winch and run the chain onto the winch drum until the chain becomes tensioned on the winch.
 - v. Lower the crane till strops or lifting chains become relaxed and disconnect the anchor from the crane.
 - vi. When the vessel is in the correct position lower the chain from the winch to the seabed until the tension is off the chain. All personnel to stand clear whilst the chain is being lowered.
 - vii. Run all excess chain off the drum and secure the mooring chain a few metres from the end of the vessel secure point and disconnect the mooring chain from the winch.
 - viii. Connect the marker buoy to the mooring chain. Using the crane, lift the marker buoy until the tension is on the mooring chain and disconnect the mooring chain from the vessel secure point, lower the marker buoy into the water and disconnect from the crane.
 - ix. Repeat for the second anchor and buoy.
 - x. Once the mooring lines are correctly aligned, run a length of chain between them, shackling it at each mooring.
- b) Phase 2: Setting the Long Lines:
- i. 12mm long lines should be pre-cut to approximately 160m long and wound onto a winch drum.
 - ii. Connect the end of the long line to the first main mooring buoy, then splice a dropper/ ballast into the long line at approximately 3m.
 - iii. At 10m intervals, splice 3m lengths onto the long line, and take to surface, connecting to intermittent buoys.
 - iv. Repeat b(iii) for the length of the long line; then splice a dropper, as per b(ii) and connect the end of the long line to the second main mooring buoy.
- c) Items (a) and (b) above should be repeated at 5m intervals for a total of 4 long lines.

8 Consents and Permits

The consents and permits required to undertake the works, along with responsibilities are detailed below.

- Marine Licence
- Lease Agreements
- Ensure approvals in place from appropriate landowner for onshore equipment laydown area (if required) and for barge tie up.
- Lift plan for crane operations.

9 Emergency Arrangements

- In case of fire, raise the alarm and evacuate to muster point as per site induction and fire/emergency procedures.
- In case of accident or injury, seek assistance from site first aiders as per site induction and fire/emergency procedures.

10 Method Statement Responsibility

| | | | | | |
|--------------|--|---------|--|-------|--|
| Produced By: | | Signed: | | Date: | |
| Checked By: | | Signed: | | Date: | |

11 Record of Briefing

I confirm that I have been briefed on and understand the content of this Method Statement, the accompanying Risk Assessments, Plans and any associated COSHH Assessments.

| Name | Signature | Date | Briefed By |
|------|-----------|------|------------|
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