CLIMAVORE

MARINE BIOSECURITY PLAN

Site Name or Description of Operation: CLIMAVORE CLIP / Uig

Site/Operation Location(s): Uig Bay, Isle of Skye

Plan period: 6 years

Biosecurity Manager: Shona Cameron

Site features affecting biosecurity:

Salinity	There are two river sources of freshwater either side of the site and as the site is in the intertidal zone it will be affected by rain water. There are a further 5/6 small freshwater streams entering the bay.
Submerged structures	6 pairs of trestles.The trestles will have rope nets of different plant-based materials suspended from them. Oak posts in seabed, (driven 0.5m into the sand) with nylon mussel socking wrapped around. There is no anti-fouling coating as we are interested in seeing what species wild seed on these materials.
Non-native species known to be present	None introduced by the structures:

Vessel types using the site/involved in the operation:

Vessel type	Risk factors: Pathway, speed, biofouling control	Risk: High/Medium/Low
No vessels will be used for the maintenance or checking of the site		Low
The site in Uig Bay is flanked by Uig Harbour a busy port used by Calmac ferries for sailings to the Outer Hebrides and Western Isles as well as		Low

fishing fleet.		

Site Activities which have a significant risk of introducing or spreading non-native species:

Activity Description	
1	Construction and maintenance of structures and materials on site. This is done by foot. Materials may be imported.
2	Culture of shellfish using steel trestles and oak posts with nylon mussel socks. Importation of stock, disposal of waste water for cleaning of stock and equipment
3	Visitors to the site/ Access to the site by other water user - Shore is open for general access

Biosecurity Control Measures – Instructions for staff/contractors/site users:

Who	What	Where	When
Marine Scientist	**Maintenance** Ensuring regular maintenance and monitoring of the site. Proper cleaning and drying of work wear and equipment if working on other sites	Before visiting site and on site	Monthly
Marine Scientist and Project Manager	**Biosecurity of materials** Ensure that materials that are imported or ordered are not a risk to the biosecurity of the site	Desk based	Whenever order is placed
Marine Scientist and Project Manager	**Stock** Identification and use of reliable sources of stock (if applicable). It is envisioned that all species will be wild seeded and	Desk based	

	native. Application of good management practices.	From outset	
Marine Scientist	**Suitable Cultivation Methods** Ensure the cultivation method is suitable for the species being held.	On site	Prior to installation of materials and ordering stock
Marine Scientist / Oyster and Mussel advisors	**Effective disease recognition and diagnosis.** Main disease risk will be oysters and mussels. Minimal action can be taken with seaweed diseases due to difficulties in identifying them. Main threat would be to the laver. Staff training to recognise disease signs. Set up agreement with SAMS and Dr Clare Gachon (disease specialist).	On Site Ensure any new team members are trained.	Early disease identification through regular stock inspections. Prior to undertaking solo site visits
	Identification Identification of effective measures to take in the event of a disease outbreak or other unknown mortality. Contain outbreaks as quickly as possible	Desk based On site	Prior to introduction of any stock to the site Immediate
	Access Limit farm access to	On site	Ongoing

	staff and authorised personnel. This will be difficult though as shore is open for general access.		

Site surveillance and reporting procedure:

Regular site visits by marine scientists and site managers. Immediately inform the site manager and/or marine scientist via email or telephone. Include photographs and GPS location. Contact details will be available online and at the site in case any other individuals wish to report anything.

Contingency Plan:

Action	Responsibility	Location of Equipment
The rapid identification of ‘suspect’ species	Marine Scientist / Oyster & Mussel Advisors alongside SAMS and Dr Clare Gachon (disease specialist).	Personal - mobile phone with camera and GPS coordinates
Quick and simple survey to determine the extent and distribution of a newly discovered species	Marine Scientist / Oyster & Mussel Advisors	Google Documents Survey