

Marine Licence Application for Sediment Sampling

Version 1.0

Marine (Scotland) Act 2010

Acronyms

Please note the following acronyms referred to in this application form:

MHWS	Mean High Water Springs
MPA	Marine Protected Area
MS-LOT	Marine Scotland – Licensing Operations Team
SAC	Special Area of Conservation
SNH	Scottish Natural Heritage
SPA	Special Protection Area
SSSI	Site of Special Scientific Interest
WGS84	World Geodetic System 1984

Explanatory Notes

The following numbered paragraphs correspond to the questions on the application form and are intended to assist in completing the form. These explanatory notes are specific to this application and so you are advised to read these in conjunction with the Marine Scotland Guidance for Marine Licence Applicants document.

1. Applicant Details

The person making the application who will be named as the licensee.

2. Agent Details

Any person acting under contract (or other agreement) on behalf of any party listed as the applicant and having responsibility for the control, management or physical deposit or removal of any substance(s) or object(s).

3. Payment

Indicate payment method. Cheques must be made payable to: The Scottish Government.

Marine licence applications will not be accepted unless accompanied by a cheque for the correct application fee, or if an invoice is requested, until that invoice is settled. Target timelines for determining applications do not begin until the application fee is paid.

4. Application Type

Indicate if the application is for a new sediment sampling site or an existing sediment sampling site. Provide the existing or previous consent/licence number and expiry date if applicable.

5. Project Details

- (a) Give a brief description of the project e.g. sediment sampling using vibrocore.
- (b) Provide the proposed start date of the project. The start date will not be backdated, since to commence a project for which a licence has not been obtained will constitute an offence, which may result in appropriate legal action. A licence is normally valid for the duration of the project but not exceeding 6 years. If a project will not be completed before a marine licence lapses, it will be necessary for licence holders to re-apply for a further licence to continue any ongoing work at least 14 weeks prior to the expiry date of the licence. **Target duration for determination of a marine licence application is 14 weeks.**
- (c) Provide the proposed completion date of the project.
- (d) Provide the cost of the works seawards of the tidal limit of MHWS. This estimate should only cover work taking place below the tidal level of MHWS and must take into consideration the cost of materials, labour fees etc.
- (e) Describe the location of the proposed works. Include a list of the latitude and longitude co-ordinates (WGS84) of each sampling location. WGS84 is the World Geodetic System 1984 and the reference co-ordinate system used for marine licence applications. Co-ordinates taken from GPS equipment should be set to WGS84. Coordinates taken from recent admiralty charts will be on a WGS84 compatible

datum. Ordnance survey maps do not use WGS84.

Example: For positions read from charts the format should be as in the example: 55°55.555'N 002°22.222'W (WGS84). The decimal point specifies that decimals of minutes are used and the datum is stated explicitly. If seconds are used then the format should be as in the example: 55°55'44"N 2°22'11"W (WGS84).

It is important that the correct positions, in the correct format, are included with this application, as any errors will result in the application being refused or delayed.

To supplement your application, please provide a suitably scaled extract of an Ordnance Survey Map (1:2,500 scale but not more than 1:10,000) or Admiralty Chart which must be marked to indicate:

- the full extent of the works in relation to the surrounding area;
- latitude and longitude co-ordinates defining the location of the works;
- the level of MHWS;
- any adjacent SAC, SPA, SSSI, MPA, Ramsar or similar conservation area boundary.

Drawings and plans will be consulted upon. If they are subject to copyright, **it is the responsibility of the applicant to obtain necessary approvals to reproduce the documents and to submit suitably annotated copies with the application.**

- (f) Indicate if the project is located within the jurisdiction of a statutory harbour authority and provide details of the statutory harbour authority where relevant.
- (g) Provide a full method statement, including schedule of work and whether jack-up barge or vessel to be used.
- (h) Provide assessment of the potential impacts the works may have, including interference with other uses of the sea. Please include details of areas of concern e.g designated conservation areas, such as a SAC, SPA, SSSI, MPA or Ramsar site and shellfish harvesting areas. Further guidance on designated conservation areas can be obtained from SNH at this website: <http://gateway.snh.gov.uk/sitelink/index.jsp> and guidance on shellfish harvesting areas can be obtained from <http://www.foodstandards.gov.scot/> with regards to the Shellfish Waters Directive (2006/113/EC) which has parameters set to protect the water quality in which edible shellfish are grown.

Applicants should also be aware of the need to pay due regard to coastal and marine archaeological matters and attention is drawn to Historic Scotland's Operational Policy Paper HP6, "Conserving the Underwater Heritage".

Where there are potential impacts from the works, please provide details of proposed mitigation in response to potential impacts.

6. Sampling Details

- (a) Indicate all types of sampling proposed, including the number of sampling locations, sampling depth and volume of sediment for removal in cubic metres at each sampling location .

Where the project involves a number of elements, please complete all appropriate sections.

- (b) Provide the vessel name, vessel type and name and address of all vessel operators to be used for sediment sampling operations. If vessel details are not available at the time of application, please indicate this on the form as these details will be required prior to licence issue. Continue on a separate sheet if necessary.
- (c) Provide details of the vessel role (e.g guard or fisheries liaison), indicate if the vessel(s) will be stationary during any sampling work and provide details of the length of time that the vessel(s) will be stationary.

7. Noise Monitoring

Under the Marine Strategy Regulations (2010), there is now a requirement to monitor loud, low to mid frequency (10Hz to 10kHz) impulsive noise. Activities where this type of noise is produced include seismic airguns, other geophysical surveys (<10kHz), pile driving, explosives and certain acoustic deterrent devices. Where noisy activity is being undertaken, you must complete an initial registration form for the noise registry which allows you to provide details on the proposed work. Completion of a 'close-out' form, which allows licensees to provide details of the actual dates and locations where the activities occurred, is also required within 12 weeks of the completion of the 'noisy' activity or, in the case of prolonged activities such as piling for harbour construction or wind farms, at quarterly intervals or after each phase of foundation installation.

These forms can be downloaded from:

<http://www.scotland.gov.uk/Topics/marine/science/MSInteractive/Themes/noise-reduction>

Marine licence applications will not be accepted until this form has been completed and submitted.

8. Scotland's National Marine Plan

Scotland's National Marine Plan has been prepared in accordance with the EU Directive 2014/89/EU, which came into force in July 2014. The Directive introduces a framework for maritime spatial planning and aims to promote the sustainable development of marine areas and the sustainable use of marine resources. It also sets out a number of minimum requirements all of which have been addressed in this plan. In doing so, and in accordance with article 5(3) of the Directive, Marine Scotland have considered a wide range of sectoral uses and activities and have determined how these different objectives are reflected and weighted in the marine plan. Land-sea interactions have also been taken into account as part of the marine planning process. Any applicant for a marine licence should consider their proposals with reference to Scotland's National Marine Plan. A copy of Scotland's National Marine Plan can be found at: <http://www.gov.scot/Publications/2015/03/6517/0>

Indicate whether you have considered the project with reference to Scotland's National Marine Plan and provide details of considerations made including reference to the policies that have been considered. If you have not considered the project with reference to Scotland's National Marine Plan please provide an explanation.

9. Consultation

Provide details of all bodies consulted and give details of any consents issued including date of issue.

10. Associated Works

Indicate whether the application is associated with any other marine projects (e.g. land reclamation, marine/harbour construction works, dredging and sea disposal etc). If this is the case, provide reference/licence number for the related marine projects.

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

Under Section 54 of the Marine (Scotland) Act 2010, all information contained within and provided in support of this application will be placed on a Public Register. There are no national security grounds for application information not going on the Register under the 2010 Act.

Public Register

Do you consider that any of the information contained within or provided in support of this application should not be disclosed:

- (a) for reasons of national security; YES NO
- (b) for reasons of confidentiality of commercial or industrial information where such confidentiality is provided by law to protect a legitimate commercial interest? 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.

WARNING

It is an offence under the Act under which this application is made to fail to disclose information or to provide false or misleading information.

Target duration for determination is 14 weeks. Please note that missing or erroneous information in your application and complications resulting from consultation may result in the application being refused or delayed.

Marine licence applications will not be accepted unless accompanied by a cheque for the correct application fee, or if an invoice is requested, until that invoice is settled. Target timelines for determining applications do not begin until the application fee is paid.

Declaration

I declare to the best of my knowledge and belief that the information given in this form and related papers is true.

Signature



Date

19/08/2020

Name in BLOCK LETTERS

Danny Fraser

Application Check List

Please check that you provide all relevant information in support of your application, including but not limited to the following:

- Completed and signed application form
- Maps/Charts
- Co-ordinates of the boundary points of the area of harbour jurisdiction (if you are a statutory harbour authority)
- Method Statement
- Additional information e.g. photographs, consultation correspondence (if applicable)
- Noise Registry – Initial Registration Form (if applicable)
- Payment (if paying by cheque)

1. Applicant Details

Title: **Mr** Initials: **R** Surname: **Abram**

Trading Title (if appropriate): **West Dunbartonshire Council**

Address: **16 Church Street, Dumbarton, G82 1QL**

Name of contact (if different):

Telephone No. (inc. dialing code): **+44 (0) 7785 633051**

Email: **Robin.Abram@west-dunbarton.gov.uk**

Statutory Harbour Authority? YES NO

If **YES**, please provide a list of the latitude and longitude co-ordinates (WGS84) of the boundary points of the area of harbour jurisdiction using Appendix 01 Additional Co-ordinates form if necessary.

2. Agent Details (if any)

Title: **Mr** Initials: **D** Surname: **McDonald**

Trading Title (if appropriate): **Stantec**

Address: **3rd Floor, Randolph House, 4 Charlotte Ln, Edinburgh EH2 4QZ**

Name of contact (if different):

Telephone No. (inc. dialing code): **0131 2977010**

Email: **dougie.mcdonald@stantec.com**

3. Payment

Enclosed Cheque Invoice

Contact and address to send invoice to:

Applicant Agent Other

If **OTHER**, please provide contact details:

Title: **Mr** Initials: **DM** Surname: **McDonald**

Address: **3rd Floor, Randolph House, 4 Charlotte Ln, Edinburgh EH2 4QZ**
(due to COVID-19 restrictions, please send invoice by email)

Email: **dougie.mcdonald@stantec.com**

4. Application Type

Is this application for a new sediment sampling site or an existing sediment sampling site:

New Site Existing Site

If an **EXISTING SITE**, please provide the consent/licence number and expiry date:

Consent/Licence Number	Expiry Date

5. Project Details

(a) Brief description of the project (e.g. sediment sampling using vibrocore):

Sediment sampling (i.e. temporary SI works) using grab sample and push sample. Initial feasibility assessment for potential dredging.

(b) Proposed start date (**Target duration for determination of a marine licence application is 14 weeks**):

31/08/2020

(c) Proposed completion date:

20/09/2020

(d) Cost of the works seawards of the tidal limit of MHWS:

£36,150.00

(e) Location:

The site is located at the mouth of the River Leven as it enters the River Clyde at the approximate grid references 239377, 675174 to 239772, 674604, concentrating on the moorings area and marine channel area.

Latitude and Longitude co-ordinates (WGS84) defining each sampling location (continue on Appendix 01 Additional Co-ordinates form if necessary):

Latitude										Longitude										
5	5	°	5	6	.	5	0	8	'N			4	°	3	4	.	2	4	0	'W
5	5	°	5	6	.	4	8	2	'N			4	°	3	3	.	9	6	2	'W
5	5	°	5	6	.	4	0	8	'N			4	°	3	3	.	8	9	2	'W
5	5	°	5	6	.	3	3	9	'N			4	°	3	3	.	8	7	6	'W
5	5	°	5	6	.	2	8	1	'N			4	°	3	3	.	9	4	0	'W
5	5	°	5	6	.	1	4	6	'N			4	°	3	4	.	1	0	3	'W
		°			.				'N				°			.				'W
		°			.				'N				°			.				'W
		°			.				'N				°			.				'W
		°			.				'N				°			.				'W

(f) Is the project located within the jurisdiction of a statutory harbour authority?

YES NO

If **YES**, please specify statutory harbour authority:

(g) Method statement including schedule of work and whether jack-up barge or vessel to be used (continue on separate sheet if necessary):

Schedule of works

Sediment sampling at six locations at the coordinates above. Undertake grab sample at each location, together with push sample up to 4m below river bed.

Method Statement

At this early stage of the project the feasibility is being assessed rather than detailed evaluation, therefore 6 sampling stations and up to three samples from each core where sub-samples are selected from the surface, middle and bottom of the core for analysis are proposed. A combination of investigation techniques is proposed 1) a grab sampler employed from a floating modular block platform and 2) conventional window sampling techniques from the same floating modular platform.

The floating platform is assembled disassembled onshore and is a propriety modular pontoon system comprising several sealed plastic blocks which can be increased or decreased in number to form a suitable raft size for plant and personnel. A mini tracked sampling rig (windowless sampler) is positioned onto the floating platform which is then launched via a nearby slipway. The platform is towed by a small rigid workboat from location to location. At low tide, 6m long jack legs at the corners of the platform can be deployed to anchor the platform to the riverbed sampling.

Once the platform is in position the sampling rig will be utilised to push down 1000mm x 60mm samples and three samples will be recovered. At each sampling location a grab sampler will also be employed to recover sediment samples from the riverbed. The unit would be deployed from the platform and is operated via a bucket with a pair of stainless-steel lever arms that increase the tension to secure the sample securely in the grab as it is retrieved to the platform.

The pontoon will remain on each location for up to one day, and on completion at the end of each day will be towed back to the marina overnight.

The sampling will be carried out on the pontoon by a crew of two experienced ground investigation drillers and a geotechnical engineer.

The workboat will be operated by a skipper and will remain on station throughout the works as a dedicated safety boat when not positioning the pontoon.

(h) Potential impacts the works may have (including details of areas of concern e.g designated conservation and shellfish harvesting areas) and proposed mitigation in response to potential impacts (continue on separate sheet if necessary):

Sampling will only be undertaken in appropriate weather and river conditions. Given the controlled and small scale nature of proposed sampling, there is limited risk of sediment or pollution release to the watercourse.

Impacts: Potential disturbance effects on qualifying features of Inner Clyde SPA due to the proximity of the proposed operations to key redshank feeding habitat, specifically at proposed sampling locations 4, 5 and 6.

Mitigation: Avoid impacts and any adverse effects on site integrity by completing the works at these locations by mid-September (i.e. before the redshanks arrive at the site).

6. Sampling Details

(a) Please indicate sampling details:

Type of Sampling	Number of Sampling Locations	Sampling Depth (metres)	Volume of Sediment for Removal (from each sampling location in cubic metres)
Mechanical bucket or shovel			
Grabbing – surface sediments	6	0.0-0.50	0.015
Boreholes	6	4.00	0.02
Trial Pits			
Other (please specify)			

(b) Details of any vessel(s) undertaking sediment sampling (please note that a marine licence cannot be issued until the vessel details have been confirmed. Continue on a separate sheet if necessary):

Vessel	Vessel Name	Type of Vessel	Name and Address of Operator
1	SKF 1	Floating Modular Pontoon	SKF Ltd, Constablewood Estate, Brisbane Glen, Largs, KA30 8SN
2	SKF 2	Rigid aluminium workboat	SKF Ltd, Constablewood Estate, Brisbane Glen, Largs, KA30 8SN
3			
4			
5			

(c) Further details of any vessel(s) undertaking sediment sampling (please note that a marine licence cannot be issued until the vessel details have been confirmed. Continue on a separate sheet if necessary):

Vessel	Vessel Role (e.g guard or fisheries liaison)	Vessel to be Stationary (include length of time to be stationary)
1	Floating work platform to carry out sediment sampling from	Stationary at each sampling location for up to 1 day, 8-6pm
2	Workboat to manoeuvre floating pontoon to each location and to provide safety boat	Stationary at each sampling location with pontoon for up to 1 day, 8-6pm
3		

4		
5		

7. Noise Monitoring

Will loud, low to mid frequency (10Hz to 10kHz) impulsive noise be produced by the project? YES NO

If **YES**, which please indicate the noise generating activities and sound frequencies:

Noise Generating Activity	Sound Frequency (Hertz)
Use of Explosives	
Other (please describe below):	

If you have ticked **YES**, please complete the Noise Registry – Initial Registration form located at: <http://www.scotland.gov.uk/Topics/marine/science/MSInteractive/Themes/noise-reduction>

A marine licence application will not be accepted until this form has been completed and submitted.

8. Scotland’s National Marine Plan

Have you considered the application with reference to Scotland's National Marine Plan? YES NO

If **YES**, provide details of considerations made including reference to the policies that have been considered:

As temporary SI works, there are no relevant policies within Scotland's National Marine Plan.

If **NO**, please provide an explanation of why you haven't considered the National Marine Plan?

9. Consultation

List all bodies you have consulted and provide copies of correspondence:

Marine Scotland - see attached email
SNH - see attached email

10. Associated Works

Provide details of other related marine projects, including reference/licence numbers (if applicable):

N/a