

Mr M Keeling

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Fairport House, Lands End Road, Bursledon,  
Southampton, SO31 8DN

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Supporting Statement, WaFD and WFD  
Assessments for Construction Works

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Compiled by Dr P Tosswell, Lymington Technical Services Ltd

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## 1 Site Location & Works

The site is located in Bursledon adjacent to the Hamble River, at the end of Lands End Road. The site is immediately opposite Swanwick Marina on the north side of the river.

The site comprises a residential property and outbuildings together with a large area of garden. Access to the site is from the north-west corner where a drive leads to the main house, past a garage building and an outbuilding used as an office.

The whole site extends to an area of approximately 2 ha and includes a large part of the foreshore of the Hamble River. There is an alternative access to the site from the very end of Lands End Road adjacent to a public slipway.

The site owner has an established agreement with Natural England regarding the use of the land within the SSSI, SPA & SAC areas.

It is proposed to install a jetty and pontoon to provide improved recreational access to the water. The location of the works are within the Natural England consented areas.

Drawing 10951/26/1AB shows the proposed works.

## 2 New Jetty and pontoon - installation

See drawing 10951/26/1AB to assist.

Materials for the access jetty will arrive by road and stored on the hardstanding to the west of the Boathouse. This will prevent any environmental impact.

The land end of the jetty will rest on the existing timber edging on the site. The Four support piles will be installed using land-based equipment, ground mats will cover the works area. Once installed, the timber jetty will be constructed using manual labour and tools. All metal works will be coated in a marine friendly paint, and all timer parts will be treated with marine friendly protection. These works area anticipated to take 2 weeks, subject to weather.

The outer piles (2 no), pontoon and access brow will arrive by water on the crane barge. The crane barge will spud down and installed the two outer piles. The new pontoon will be floated into position and the access brow craned into position. These works are anticipated to be completed within 3 days.

### 3 Waste Framework Directive

The waste hierarchy sets out 5 methods of dealing with waste – Prevention, Preparing for re-use, Recycling, Other recovery and Disposal.

Prevention – This is a proposed new installation; prevention is not applicable.

Waste from the works is unlikely but may consist of offcuts. These will all be removed, and recycled if possible by the contractor.

Prevention of waste is therefore not possible.

Preparing for re-use – this is undertaking preparation works such that the materials may be re-used without other processing.

Recycling - this is any recovery operation by which waste materials are reprocessed into products, materials or substances whether for the original or other purposes. All waste can be recycled.

Reprocessing of a waste into a non-waste product meets the requirement of recycling.

Any waste material resulting from the proposed works can be either prepared and re-used elsewhere or recycled. The works therefore comply with the WaFD.

### 4 Protected Areas

Marine Conservation Zone – The site is not within a MCZ.

The proposed works are within an existing area of very high leisure vessel activity.

Ecology details are contained in the Rathom Ecology Ltd reports.

The site is within the following protected areas:

SPA – Solent and Dorset Coast (UK9020330). This SPA is intended to protect the foraging areas utilised by the Sandwich Tern, Common Tern & Little Tern. The boundaries in this area extend to MHW such that the application site is covered. The area has existing very high human activity.

Ramsar – Solent and Southampton Water UK11063. This site overlays the SSSI & SPA sites. The area has existing very high human activity. Ramsar sites are wetlands of international importance. This site is designated for the habitats that support wintering wildfowl and breeding gull and tern populations (JNCC). The site covers intertidal habitat used for feeding.

SSSI – Lincegrove and Hackets Marshes 1000644. This site overlays the Ramsar & SPA sites. This is a wetland habitat and of importance to feeding marine birds. The area has existing very high human activity.

SPA – Solent and Southampton Water UK9011061. This site overlays the SSSI & Ramsar sites. This site is of importance for rare and vulnerable birds as well as migratory birds. The area has existing very high human activity.

WFD Estuarine and Coastal Water Bodies Cycle 2 GB520704202800 Southampton Water.

WFD Habitats – higher sensitivity – Saltmarsh approximately 25m southeast of works area. The works have been located so as not to damage the saltmarsh. The works are located within the licenced Natural England consent area. No likely impact.

WFD Habitats – lower sensitivity – Intertidal soft sediment and subtidal soft sediment, this covers the works area.

## 5 Background to Water Framework Directive Assessment

The purpose of a Water Framework Directive (WFD) assessment is to determine whether the proposed works will compromise the attainment of a WFD objective or result in the deterioration of the current ecological status of the relevant waterbodies.

The process consists of 3 stages –

### Stage 1 – The Screening Stage

This stage is used to identify activities which need to be considered further (i.e. excludes those which do not require further assessment).

### Stage 2 – The Scoping Stage

This stage identifies the potential risks to the following receptors:

- Hydromorphology
- Biology – fish habitats
- Biology – fish
- Water quality
- Protected areas

### Stage 3 – Impact Assessment

This stage examines whether the activity will have a significant non-temporary effect on each receptor.

## 6 WFD Assessment

The assessment uses the online EA tables which are reproduced in the following pages.

The Catchment Data Explorer provides data updated 17:03:25.

### 6.1 WFD Tables for activities in estuarine and coastal waters

| Activity                                                                                        | Description, notes or more information                           |
|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Applicant name                                                                                  | <i>Mr M Keeling</i>                                              |
| Application reference number (where applicable)                                                 | <i>n/a</i>                                                       |
| Name of activity                                                                                | <i>Fairport House Ketty and pontoon</i>                          |
| Brief description of activity                                                                   | <i>Installation of new jetty and pontoon.</i>                    |
| Location of activity (central point XY coordinates or national grid reference)                  | <i>449238, 109221</i>                                            |
| Footprint of activity (ha)                                                                      | <i>0.0046 ha</i>                                                 |
| Timings of activity (including start and finish dates)                                          | <i>Dependent upon Marine Licence and plant availability.</i>     |
| Extent of activity (for example size, scale frequency, expected volumes of output or discharge) | <i>Installation is estimated to be completed within 3 weeks.</i> |
| Use or release of chemicals (state which ones)                                                  | <i>No</i>                                                        |

| Water body <sup>1</sup>                | Description, notes or more information                 |
|----------------------------------------|--------------------------------------------------------|
| WFD water body name                    | <i>Southampton Water</i>                               |
| Water body ID                          | <i>GB520704202800</i>                                  |
| River basin district name              | <i>South East</i>                                      |
| Water body type (estuarine or coastal) | <i>Transitional Water (Estuarine in summary table)</i> |
| Water body total area (ha)             | <i>3123.51</i>                                         |
| Ecological status 2022                 | <i>Good</i>                                            |
| Target Ecological status               | <i>Moderate by 2015</i>                                |
| Chemical status 2022                   | <i>Does not require assessment</i>                     |

|                                              |                                                                                                                                                                                                                      |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target Chemical status                       | <i>Good by 2063</i>                                                                                                                                                                                                  |
| Hydromorphology status of water body 2022    | <i>Supports Good</i>                                                                                                                                                                                                 |
| Heavily modified water body and for what use | <i>Yes – coastal protection; flood protection; navigation, ports and harbours</i>                                                                                                                                    |
| Higher sensitivity habitats present          | <i>Saltmarsh approximately 25m southeast of works area. The works have been located so as not to damage the saltmarsh. The works are located within the licenced Natural England consent area. No likely impact.</i> |
| Lower sensitivity habitats present           | <i>Intertidal soft sediment, this covers the works area.</i>                                                                                                                                                         |
| Phytoplankton status                         | <i>Good</i>                                                                                                                                                                                                          |
| History of harmful algae                     | <i>Yes</i>                                                                                                                                                                                                           |
| WFD protected areas within 2km               | <i>Yes SPA, SAC</i>                                                                                                                                                                                                  |

## 6.2 Specific risk to receptors

### 6.2.1 Section 1: Hydromorphology

Consider if hydromorphology is at risk from your activity.

Use the water body summary table to find out the hydromorphology status of the water body, if it is classed as heavily modified and for what use.

| <b>Consider if your activity:</b>                                                                             | <b>Yes</b>                 | <b>No</b>                      | <b>Hydromorphology risk issue(s)</b> |
|---------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------|--------------------------------------|
| Could impact on the hydromorphology (for example morphology or tidal patterns) of a water body at high status | Requires impact assessment | Impact assessment not required | <i>No</i>                            |
| Could significantly impact the hydromorphology of any water body                                              | Requires impact assessment | Impact assessment not required | <i>No</i>                            |
| Is in a water body that is heavily modified for the same use as your activity                                 | Requires impact assessment | Impact assessment not required | <i>Yes</i>                           |

Record the findings for hydromorphology and go to section 2: biology.

## 6.2.2 Section 2: Biology

### 6.2.2.1 Habitats

Consider if habitats are at risk from your activity.

Use the water body summary table and Magic maps, or other sources of information if available, to find the location and size of these habitats.

| Higher sensitivity habitats <sup>2</sup>     | Lower sensitivity habitats <sup>3</sup>     |
|----------------------------------------------|---------------------------------------------|
| chalk reef                                   | cobbles, gravel and shingle                 |
| clam, cockle and oyster beds                 | intertidal soft sediments like sand and mud |
| intertidal seagrass                          | rocky shore                                 |
| maerl                                        | subtidal boulder fields                     |
| Mussel beds, including blue and horse mussel | subtidal rocky reef                         |
| polychaete reef                              | subtidal soft sediments like sand and mud   |
| saltmarsh                                    |                                             |
| subtidal kelp beds                           |                                             |
| subtidal seagrass                            |                                             |

<sup>2</sup> Higher sensitivity habitats have a low resistance to, and recovery rate, from human pressures.

<sup>3</sup> Lower sensitivity habitats have a medium to high resistance to, and recovery rate from, human pressures.

| Consider if the footprint <sup>4</sup> of your activity is: | Yes                                             | No                                         | Biology habitats risk issue(s) |
|-------------------------------------------------------------|-------------------------------------------------|--------------------------------------------|--------------------------------|
| 0.5km <sup>2</sup> or larger                                | Yes to one or more – requires impact assessment | No to all – impact assessment not required | No                             |
| 1% or more of the water body's area                         |                                                 |                                            | No                             |
| Within 500m of any higher sensitivity habitat               |                                                 |                                            | Yes                            |
| 1% or more of any lower sensitivity habitat                 |                                                 |                                            | No                             |

<sup>4</sup> Note that a footprint may also be a temperature or sediment plume. For dredging activity, a footprint is 1.5 times the dredge area.

### 6.2.2.2 Fish

Consider if fish are at risk from your activity, but only if your activity is in an estuary or could affect fish in or entering an estuary.

| Consider if your activity:                                                                                                                                                | Yes                        | No                             | Biology fish risk issue(s) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------|----------------------------|
| Is in an estuary and could affect fish in the estuary, outside the estuary but could delay or prevent fish entering it or could affect fish migrating through the estuary | Continue with questions    | Go to next section             | No                         |
| Could impact on normal fish behaviour like movement, migration or spawning (for example creating a physical barrier, noise, chemical change or a change in depth or flow) | Requires impact assessment | Impact assessment not required | No                         |
| Could cause entrainment or impingement of fish                                                                                                                            | Requires impact assessment | Impact assessment not required | No                         |

Record the findings for biology habitats and fish and go to section 3: water quality.

### 6.2.3 Section 3: Water quality

Consider if water quality is at risk from your activity.

Use the water body summary table to find information on phytoplankton status and harmful algae.

| Consider if your activity:                                                                                                                                               | Yes                        | No                             | Water quality risk issue(s)   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------|-------------------------------|
| Could affect water clarity, temperature, salinity, oxygen levels, nutrients or microbial patterns continuously for longer than a spring neap tidal cycle (about 14 days) | Requires impact assessment | Impact assessment not required | No. Works are not continuous. |
| Is in a water body with a phytoplankton status of moderate, poor or bad                                                                                                  | Requires impact assessment | Impact assessment not required | No                            |
| Is in a water body with a history of harmful algae                                                                                                                       | Requires impact assessment | Impact assessment not required | No                            |

Consider if water quality is at risk from your activity through the use, release or disturbance of chemicals.

| If your activity uses or releases chemicals (for example through sediment disturbance or building works) consider if: | Yes                        | No                             | Water quality risk issue(s)                                                             |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------|-----------------------------------------------------------------------------------------|
| The chemicals are on the Environmental Quality Standards Directive (EQSD) list                                        | Requires impact assessment | Impact assessment not required | <i>No data but sediment disturbance may potentially release chemicals on EQSD list.</i> |
| It disturbs sediment with contaminants above Cefas Action Level 1                                                     | Requires impact assessment | Impact assessment not required | <i>No data but considered unlikely based on history of use.</i>                         |

| If your activity has a mixing zone (like a discharge pipeline or outfall) consider if:  | Yes                                     | No                             | Water quality risk issue(s) |
|-----------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------|-----------------------------|
| The chemicals released are on the Environmental Quality Standards Directive (EQSD) list | Requires impact assessment <sup>5</sup> | Impact assessment not required | <i>No</i>                   |

<sup>5</sup> Carry out your impact assessment using the Environment Agency's surface water pollution risk assessment guidance, part of Environmental Permitting Regulations guidance.

Record the findings for water quality go on to section 4: WFD protected areas.

## 6.2.4 Section 4: WFD protected areas

Consider if WFD protected areas are at risk from your activity. These include:

- special areas of conservation (SAC)
- special protection areas (SPA)
- shellfish waters
- bathing waters
- nutrient sensitive areas

Use Magic maps to find information on the location of protected areas in your water body (and adjacent water bodies) within 2km of your activity.

| Consider if your activity is:                     | Yes                        | No                             | Protected areas risk issue(s) |
|---------------------------------------------------|----------------------------|--------------------------------|-------------------------------|
| Within 2km of any WFD protected area <sup>6</sup> | Requires impact assessment | Impact assessment not required | <i>Yes, SPA, SAC.</i>         |

<sup>6</sup> Note that a regulator can extend the 2km boundary if your activity has an especially high environmental risk.

Record the findings for WFD protected areas and go to section 5: invasive non-native species.

## 6.2.5 Section 5: Invasive non-native species (INNS)

Consider if there is a risk your activity could introduce or spread INNS.

Risks of introducing or spreading INNS include:

- materials or equipment that have come from, had use in or travelled through other water bodies
- activities that help spread existing INNS, either within the immediate water body or other water bodies

| Consider if your activity could: | Yes                        | No                             | INNS risk issue(s)                                                                                                        |
|----------------------------------|----------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Introduce or spread INNS         | Requires impact assessment | Impact assessment not required | <i>No, the plant is local to waterbody and does not have ballast tanks. Vessels are regularly dry docked and cleaned.</i> |

## 6.2.6 Summary

| Receptor                    | Potential risk to receptor? | Note the risk issue(s) for impact assessment |
|-----------------------------|-----------------------------|----------------------------------------------|
| Hydromorphology             | Yes                         | <i>Within an HMWB for same use</i>           |
| Biology: habitats           | Yes                         | <i>Saltmarsh</i>                             |
| Biology: fish               | No                          |                                              |
| Water quality               | Yes                         | <i>Potential for suspended solids</i>        |
| Protected areas             | Yes                         | <i>SPA, SAC.</i>                             |
| Invasive non-native species | No                          |                                              |

## 7 WFD Impact Assessment & Mitigation

The assessment has identified potential risks to the following:

### 7.1 Hydromorphology

The works are the installation of a jetty and pontoon. This is very minimal in terms of impact, especially when compared to general area. There is therefore no likelihood of any additional risk.

### 7.2 Biology - habitats

The nearby saltmarsh is an important consideration and is part of the long-term ambitions of the site owner to restore. Small trial schemes have been attempted and this work will continue.

The areas designated are clearly indicated on the drawing (all as per the agreement with Natural England).

Despite the close nature of the works the saltmarsh will not be impacted.

### 7.3 Water quality

During the piling there is a small possibility of suspended solids being raised. This will be very local to the works and dissipate quickly.

The works are highly unlikely to have any negative impact on the water quality.

## 7.4 WFD Protected areas

SPA – Solent and Dorset Coast (UK9020330). This SPA is intended to protect the foraging areas utilised by the Sandwich Tern, Common Tern & Little Tern. The boundaries in this area extend to MHW such that the application site is covered. Due to the existing high levels of activity in this location there is unlikely to be any significant impact.

SPA – Solent and Southampton Water UK9011061. This site is of importance for rare and vulnerable birds as well as migratory birds. The area has existing very high human activity. Timing restrictions to avoid overwintering birds is appropriate.

Best practice is being employed with the use of the most appropriate plant.

## 8 Flood Risk Assessment

The works are located below MHWS and therefore within a flood risk zone. However, these are works relating to an existing structure that is fully water compatible. The works will not have any impact on flooding.

## 9 Navigation

For a previous proposal there was a concern regarding the annual gig racing within the River Hamble. This was because the pontoon location reduced the available gap to the existing piled moorings. For this application the pontoon has been positioned such that the gap between the pontoon and the nearby pontoon is 32m. The application drawing clearly shows that this is greater than all (equal to one) the other existing gaps. It is inconceivable to consider the proposed installation a restriction.