MLA/2012/00141/2

Project Summary/Contact Details

Project Type(s)

Please tick the project type(s) you are applying for. Note: Burial at Sea applications cannot be mixed with any other project types.

Marine Licence

Application for a marine licence under Part 4 of the Marine and Coastal Access Act 2009 or any pre-application engagement under any Regulations.

☐ Aggregate Dredging
☐ Alternative Use of Dredged Material
☐ Burial at Sea
☐ Construction
☑ Dredged Material Disposal
☐ Dredging
☐ Miscellaneous Disposal
☐ Removals (inc. Grab Samples)
☐ Renewables

Project Description

Title of Project

Short title describing the project, e.g. Smithfield Ground Investigation Works

Tees and Hartlepool Maintenance Dredge Disposal

Background to Project (aims and objectives)

Overview of the project including a brief description (max. 2500 characters). Referring to attached document is not acceptable.

Annual renewal of the maintenance dredge disposal consent, consent is on-going over many years

Programme of Works (stages and timings)

List of all the stages in the project, definition of the works and approximate timings of each stage

Works are performed on a daily basis throughout the year and covered under the Tees Baseline Document

Related Consents/Applications

Are there any previous Marine Management Organisation consents or applications relating to this application

List previous applications applied for or licences from the MMO relating to this project.

◉ Yes ○ No

Applicant Details (Proposed Licence Holder)

This is the person, company or organisation that will hold the licence. Co-applicants can be entered in the contractor section below.

Licence Holder Type

Select the Licence Holder Type. Individual should only be selected when the contact is not working on behalf of an Organisation.

○ Individual

◉ Organisation

Trading title (if applicable)

Conservancy Engineering Dept

Title

Mr

Forename

Andrew

Surname

Ridley

Organisation name

PD TEESPORT LIMITED

Reg number

02636007

Position in organisation

Conservancy Manager

Postcode

TS2 1LX

Postal address

Conservancy
Engineering
Department
PD Teesport Limited
Vulcan Street
Middlesbrough, TS2 1LX

Telephone number

Please enter numbers, brackets and the international symbol (+) if needed.

01642 877103

Fax number

Please enter in format +00(0)0000 000000

01642 877118

Email address

Please enter a valid email address formatted as xx@xx.xx

andrew.ridley@pdports.co.uk

Agent(s)

A person, company or organisation working on behalf of the applicant. Individual should only be selected when not working on behalf of an organisation.

Are there any agents

○ Yes ◉ No

Contractor(s)

Any person, company or organisation involved in the works. They may be engaged to act under contract or other agreement on behalf of the Licence Holder and having responsibility for the control, management or deposit anywhere below MHWS tide. Both contractors and sub-contractors should be specified.

Will the applicant be undertaking any works relating to the project

○ Yes ◉ No

Will other contractors be involved in the project

○ Yes ◉ No

Dredged Material Disposal

Location(s)

The location(s) of the source material, if not already specified the Dredging section of this application (where applicable).

Method Statement

Proposed Methodology

The methods and procedures to be employed during the project, including the maintenance, distribution and placement of material and plant on site. Referring to attached document is not acceptable.

PD Teesport's method statement is attached, and summarised below.

PD Teesport - Maintenance Dredging Method Statement

Suction Dredging

PD Teesport employs two trailing suction hopper dredgers (TSHD) of 1500m (cubed) hopper volume to maintain depths within the navigable channel and berths within The Tees and Hartlepool.

The larger suction dredger (by deadweight) operates on a 6 day/week basis and predominantly dredges sand or sandy silts, the small suction dredger operates on a 3 day/week basis concentrating on silts, fine sands and berth/frontage dredging. Both are traditional suction dredgers with active bottom door dumping systems, the only variation being the vessel deadweight capacity and the inclusion of an active drag-head on the larger vessel to assist in the sand dredging.

Both vessels are essentially maintenance dredge vessels however limited capital dredge is possible where the material is soft or relatively unconsolidated. The two vessels are "Heortnesse" (the larger vessel) and "Cleveland County".

Maintenance dredging operations

The suction dredgers operate on a nominal production time 8-10 hours per day for 6 days per week, this can for a limited period be increased to 22 hours and 7 days per week where sudden increases in deposition rate occur primarily following storm conditions.

Based on both vessels working together the maximum disposal rate equates to around 1200mt per hour and nominally centred around daylight hours.

Plough Dredging

PD Teesport employs a buoy tender "Wilton" using a 5 metre plough (bed-leveller) to remove isolated high spots on the river bed primarily off frontages or confined areas. The material is removed from the high spots and deposited into deeper areas where they can be removed using conventional suction dredge process.

This results in no change and on occasion a reduction in production volume or disposal volume but allows dredge depths to be better maintained.

Maintenance dredging operations

Chart areas 1 to 5 (see attached Maintenance Dredging Baseline Document) generally have dredge materials of an organic silty nature. Chart areas 6 to 8 are generally sandy silt and silty sand, and chart areas 9 and seaward (i.e. 10, 11 and 12) are predominantly composed of sand with fine sand moving to a coarser nature into the sea reaches.
All issues relating to safe navigation are controlled by the Competent Harbour Authority's integrated management system the requirements with which the Conservancy Engineering Department complies.

Disposal within the designated maintenance disposal site (Tees Bay ¿A¿ ¿ TY160) is controlled under the Tees Disposal Protocol. The site is zoned into 12 distinct sub-sites which are rotated on a monthly basis, and monitoring of this site is undertaken by PD Teesport (bathymetry) and CEFAS (sediment quality/contamination).

The location of dredge areas and positioning of vessels within the disposal site are controlled using the integrated navigation, survey and dredge control software, with final locations for disposal confirmed and recorded within the Port Operation Centre VTS system.

Where dredge areas are subject to the application of the Conservation of Species and Habitats Regulations 2010 (Habitats Regulations), such operations are planned and consents are agreed in advance with Natural England and other relevant Statutory Consultees as necessary.

This method statement should be read in conjunction with the Maintenance Dredging Baseline Protocol Document which is available for years 2000-2005, 2006-2008, 2009/2010, and most recently 2010/11. This document is updated yearly by PD Teesport.

Potential Environmental Impacts

A list of any changes to the environment, whether adverse or beneficial, wholly or partially resulting from the proposed project. Please state if not applicable. Referring to attached document is not acceptable.

As per the most recent maintenance dredging baseline document (2011).

Proposed Mitigation

Steps taken to avoid or minimise negative environmental impacts. Mitigation can include: avoiding the impact by not taking a certain action; minimising impacts by limiting the degree or magnitude of the action; rectifying the impact by repairing or restoring the affected environment; reducing the impact by protective steps required with the action; and compensating for the impact by replacing or providing substitute resources. Referring to attached document is not acceptable.

As per the most recent maintenance dredging baseline document (2011).

Residual Risks

Those risks remaining after mitigation. If none are applicable please specify. Referring to attached document is not acceptable.

As per the most recent maintenance dredging baseline document (2011).

Please provide any supporting Method Statement documents

PD Teesport - Maintenance Dredging Method Statement.docx
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Project Details

Disposal Type(s)

Maintenance

Ongoing dredging, with gaps between operations of no more than 10 years.

Has a maintenance dredge protocol document been produced for the dredge area(s)

Yes

Please provide the date your MDP was last published

30-MAR-2012

Proposed Start Date	Proposed End Date
01-JUN-2012	31-MAY-2015

Material(s)

Material Type	Specific Gravity	Yearly Quantity Disposed (Tonnage)	Licence Lifetime Quantity Disposed (Tonnage)	Proposed Disposal Site	Source Material Location	First Disposal Date	Last Disposal Date	Frequency of Proposed Works	Chemically Analysed	Actions
Sand (62.5um-2mm)	1.6	1255800	1255800	Choose Site TY160 TESBAY A	RIVER TEES CHANNEL	01-JUN-2012	31-MAY-2013	Not known	No	
Silt	1.58	59250	59250	Ch	RIVER	01-JUN	31-MA	Not kno	No	

(31.25-62.5um)				oose Site TY 160 TEES BAY A	TEES CHANNEL	-2012	Y-2013	wn	
Sand (62.5um-2mm)	1.58	59250	59250	Choose Site TY 160 TEES BAY A	RIVER TEES BERTHS AND FRONTAGES	01-JUN-2012	31-MAY-2013	Not known	No
Silt (31.25-62.5um)	1.5	34200	34200	Choose Site TY 160 TEES BAY A	RIVER TEES BERTHS AND FRONTAGES	01-JUN-2012	31-MAY-2013	Not known	No
Sand	1.5	22800	22800	Choo	HARTLEP	01-JUN-	31-MAY-	Not known	No

(62.5um-2mm)				se Site TY 160 TES BAY A	OOL ENTRANCE CHANNEL	2012	2013		
Sand (62.5um-2mm)	1.5	30000	30000	Choose Site TY 160 TES BAY A	HARTLEPOOL ENTRANCE CHANNEL	01-JUN-2012	31-MAY-2013	Not known	No
Sand (62.5um-2mm)	1.5	270000	270000	Choose Site TY 160 TES BAY A	HARTLEPOOL DOCKS AND WATERAREA	01-JUN-2012	31-MAY-2013	Not known	No
Silt (31.25	1.4	128480	128480	Choose	HARTLEPOO	01-JUN-201	31-MAY-201	Not known	No

-62.5um)				Site TY160 TESBAY A	LDOCKS AND WATERAREA	2	3		
Sand (62.5um-2mm)	1.4	192720	192720	Choose Site TY160 TESBAY A	SEATON CHANNEL BASIN AND BERTHS	01-JUN-2012	31-MAY-2013	Not known	No
Silt (31.25-62.5um)	1.6	837200	837200	Choose Site TY160 TESBAY A	SEATON CHANNEL BASIN AND BERTHS	01-JUN-2012	31-MAY-2013	Not known	No

Alternative Means of Disposal

What are the sediment characteristics in relation to possible disposal / treatment / re-use options

List the physical, geotechnical and contamination characteristics of the sediment (this is important in determining potentially suitable disposal or treatment options).

Material has been used previously to re-establish a half-tide embankment. Subject to identification of projects and suitable material availability, similar projects may be considered in the future.

In addition, studies have been conducted in conjunction with Teesside University to look at alternative processes including use of dredge clay in brick production, though not entirely successfully and further investigation is underway.

During 2012 it is planned to develop a mitigation plan to allow identifiable projects to be considered for alternative or benefical use, subject to material quality and suitable project drivers.

PD Teesport are currently undertaking a programme of sediment sampling for Particle Size Analysis (PSA) to gain further understanding of materials dredged from the outer reaches (Chart areas 9, 10, and 11, Maintenance Dredging Baseline Document), so as to inform potential future use scenarios.

Using the EU Waste Framework Directive's Waste Hierarchy, state all alternative uses of the dredged material

Waste policy is strongly influenced by the waste hierarchy. In accordance with the Waste Framework Directive this comprises, prevention; preparing for re-use; recycling; other recovery; and disposal. The hierarchy places a strong emphasis on preventing waste. Where waste cannot be avoided, the hierarchy seeks to re-use, recycle or recover waste, with disposal as the last resort. The waste hierarchy is central to the handling of dredged material from the point of dredging to the point of final disposal. Please list all options assessed.

As above

Please detail how you screened and assessed each management option and show how you eliminated those that were unreasonable

List all options eliminated from further consideration and why, e.g. taking into consideration environmental concerns, cost, technical feasibility etc. The rationale for eliminating these options should be clearly documented.

As above

List all reasonable management options retained

List all management options retained and why, e.g. taking into consideration environmental, technical, economic etc. information.

As above

Summarise why disposal to sea is the preferred management option for the dredged material

List the reason(s) why disposal at sea is the preferred management option over those retained above.

As above

Other Details

Is this disposal associated with a dredge project not currently being applied for in this application / already licensed

○ Yes ◉ No

Is the Disposal associated to a Construction Project not being applied for in this current application / already licensed

○ Yes ◉ No

Other Details

Conservation

Is the location of the project within a designated and/or protected conservation area, including proposed and candidate areas

A designated/protected area can be one or more of the following:

1. A Site of Special Scientific Interest (SSSI)
2. A Special protection Area (SPA)
3. A Special Area of Conservation (SAC)
4. RAMSAR site
5. Nature reserve
6. Marine Plan Area
7. Marine Conservation Zone

○ Yes ◉ No

Is any part of the project likely to have any effect on a designated and/or protected conservation area, including proposed and candidate areas

○ Yes ◉ No

Please provide details of any meetings and/or copies of any correspondence with Natural England or JNCC

Meeting held with Natural England (Giles Alcock) on 25/02/12 to discuss MDP document draft. The MDP document is attached to this renewal application.

Please provide any Natural England / JNCC documents by clicking the link below

Has an environmental statement been produced to support these works

○ Yes ◉ No

If any public advertisements or consultations have taken place prior to submitting this application then please provide summary details

This may have been undertaken voluntarily or by regulatory arrangement.

N/A

Has a Habitat Regulation Assessment document been produced detailing the designated sites, interest features of those sites, and likely significant project effects.

◉ Yes ○ No

Please provide your Habitat Regulation Assessment by clicking the link below

For HRA please see Maintenance Dredging Baseline Document, ref 9X2669-R01-303907-Newc.txt

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Please provide a list of organisations consulted by clicking the link below

Public Consultation and Advertising

Has the public been invited to submit comments

○ Yes ◉ No

Have any consultation meetings with the public been arranged

○ Yes ◉ No

Has the project been advertised

○ Yes ◉ No

Other Consents Applied For

Do you have any statutory powers to consent any aspect of the project

◉ Yes ○ No

Please give details

1966 Tees and Hartlepool Port Authority Act for dredging

Consent(s)

Please add any other consents applied for by using the button below.

Compliance

Have you carried out a Water Framework Directive Appraisal

◉ Yes ○ No

Please provide your Water Framework Directive by clicking the link below

For WFD Assessment please see Maintenance Dredging Baseline Document, ref 9X2669-R01-303907-Newc.txt
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Sustainable Development

The MMO strongly advise that a strategic appraisal is completed. Issues that should be considered include:

1. Identification of any conflicts between the project and the relevant marine plan.
2. Identification of alignment of the project with the Marine Policy Statement and any relevant National Policy Statement.
3. Identification of the environmental, social and economic drivers for a project that have been identified through existing feasibility studies or discussions with other

public bodies (e.g. Local Authorities or Local Economic Partnerships).
4. Identification of any potential issues that may arise due to UK law (e.g. Water Environment (Water Framework Directive) (England and Wales) Regulations 2017, Marine Strategy Regulations 2010, Conservation of Habitats & Species Regulations 2017), and how these can potentially be avoided, or mitigated, at the strategic level.
5. Identification of any priority issues that may need addressing with regard to cumulative effects.
6. Options appraisal undertaken by the applicant, and the social, economic and environmental reasoning behind why the preferred option has been chosen.

Please provide your Strategic Appraisal (if completed) by clicking the link below

Additional Documents of Interest

Please provide any additional documents of interest regarding this application

9X2669_R01_303907_FINAL.pdf
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Public Register

The Marine Management Organisation (MMO) has gathered information from a number of existing sources to support marine planning, marine licensing and associated functions of the MMO. The MMO is continuously adding to the evidence base to support future decision making, with the aim to ensure a sustainable future for our coastal and offshore waters. A new marine plan led system of marine management will set the direction for decision making on marine use and will:

- guide marine users to the most suitable locations for different activities;
- manage the use of marine resources to ensure sustainable levels; and
- consider all the benefits and impacts of current and future activities that occur in the marine environment.

The MMO would like your permission to use any of the data you submit in a digital format that can be entered into a geographical information system. This data may be used to inform MMO functions.

Under section 101 of the Marine and Coastal Access Act 2009 the MMO must maintain a register of activities where it is the appropriate licensing authority. Information contained within or provided in support of this application will be placed on the MMO's Public Register unless:

- The Secretary of State determines that its disclosure would be contrary to the interests of national security; or
- The MMO determines that its disclosure would adversely affect confidentiality of commercial or industrial information where such confidentiality is provided by law to protect legitimate commercial interest.

Summary

This page details a summary of the project locations together with the start and end

dates.

Proposed Start Date

01-JUN-2012

Proposed End Date

31-MAY-2015

Has a marine plan been added for the area where the project will take place

○ Yes ◉ No

How does the project comply with the marine policy statement

PD Teesport has a statutory duty to maintain navigation within the Tees estuary and into the Hartlepool docks. As part of this responsibility, PD Teesport must maintain the advertised dredge depths within designated areas. In order to achieve this, PD Teesport carries out maintenance dredging in the reaches of the river shown in Figures 2.1a ¿ 2.1m of the Maintenance Dredging Baseline Document (as attached to this application). Most dredging occurs in the approach channel and low-middle estuary in order to maintain access to berth pockets and impounded docks. The dredged material is tested regularly by CEFAS and assessed for its suitability for disposal at sea. The Maintenance Dredging Baseline Document is implemented by PD Teesport to minimise impacts upon habitats and species and help to meet the Port's obligations in relation to European Sites (i.e. the Teesmouth and Cleveland Coast SPA and Ramsar sites). The baseline document also assists PD Teesport to maintain compliance with the Water Framework Directive (WFD).

Dredging is an 'enabling activity' which is essential to the functioning of ports and marinas and the social and economic benefits which derive from these (Marine Policy Statement, Para. 3.6.3). The Tees Estuary contains the largest heavy industrial complex in the United Kingdom. Through maintaining advertised depths, PD Teesport facilitates industry through the provision of year-round, lock free deep water port access. This brings significant benefits to both the economy of the North East of England and also the wider UK.

Maintenance dredging activities within the jurisdiction of PD Teesport are a necessary element of a functional port and are not in conflict with the vision and high level objectives of the Marine Policy Statement, or future marine planning framework. It can therefore be concluded that the proposed activities are compliant with the UK Marine Policy Statement.

Total Licence Material Tonnage Being Deposited / Disposed

2889700