

MLA/2019/00371

Project summary

Application type

Please select the type(s) of application you are applying for.

If you wish to apply for a section 36 or 36A consent or a safety zone in addition to your marine licence application please tick the relevant box.

If you wish to also apply for consent under a local Act or Order please tick the Local Act consent box. Please explain which local Act or Order consent you are applying when giving details of the project background below. You should also upload a copy of the local Act or Order there too.

Application type

Marine licence

Please tick all additional application types that are relevant.

Additional application types

- Section 36 and Section 36A: Electricity Act 1989.
- Local Act Consent: Consent under a local Act or harbour order.

- Section 36
- Section 36A
- Local Act consent
- Safety zone

Project details

Project title

Enter the title of your project (max. 250 characters)

Harwich Haven Approach Channel Deepening

Project background

You should explain the background to the project. This should include the aims of the project, the need for the project, whether it forms part of a larger project and any other relevant information. (max. 2000 characters)

Harwich Haven Authority (HHA) is proposing the deepening of the existing Harwich harbour and approach channel from -14.5m Chart Datum (CD) to a maximum of -16.0m CD by capital dredging and the associated disposal of the capital dredge material.

The Haven Ports is the cluster of port facilities in and around Harwich Harbour. The Port of Felixstowe is the UK's busiest container port and carries about 40% of the UK's containerised trades.

The largest vessels that currently arrive in the Haven are container ships calling at the Port of Felixstowe and have drafts of up to 15.7m, a limit which is set by the deepest available berth depth; currently -16m CD. At the current harbour and channel depth of -14.5m CD, it is possible for a 15.5m draft vessel to either arrive or depart on every predicted high water. If two vessels of this draft need to move on the same high water, it is most likely that one would be delayed for up to 12 hours.

If the harbour and channel were to be dredged to -15.5m CD, the tidal window would increase to 54%, meaning two 15.5m draft vessels could exchange berths. If the harbour and channel were to be dredged to -16.0m CD, the tidal window would increase to 73%, meaning three 15.5m draft vessels could exchange berths - a very significant increase in the availability of marine access to the Haven Ports.

In parallel to this application to deepen the harbour and approach channel, HHA is also providing the MMO additional information to support the expansion of the existing IGE disposal ground. The current IGE disposal ground does not have an appropriate capacity to take the potential worst-case volume of 23.5 million m³ of capital material. Therefore, information is presented within the document entitled 'Supplementary Environmental Information to Support the Expansion of the Inner Gabbard East Disposal Ground' (the 'SEI Report'), which accompanies this application.

Programme of works

You should detail the proposed programme of works for the project. This should include proposed start and end dates for the overall project and individual elements of the project. It should also include details of any elements that need to be completed by a certain date and details of any time periods during which activities could not be carried out and the reasons for this. It should also include proposed working hours. (max. 2000 characters)

The programme for the proposed deepening of the Harwich Haven harbour and approach channel is not yet fixed. However, it is anticipated that the capital dredging activity will be undertaken over a period of between one and two years, depending upon the selected dredgers. The capital dredging activity could commence in 2021. It is anticipated that the proposed capital dredging works will be undertaken whilst the current maintenance dredging activity takes place within the harbour and approach channel. It is assumed that for the duration of the works, the capital dredging of the harbour and approach channel will take place for up to 24 hours a day, 7 days a week.

The Harwich Haven harbour and approach channel are currently maintained at a depth of -14.5 m CD. It is proposed that the entire approach channel and harbour will be dredged to the same depth up to -16.0 m CD. The total maximum volume of material to be dredged, including 0.3m over dredge allowance is 23.5 million m³.

Related consents and applications

Have any other applications been made to the MMO in relation to this project?

Yes No

Please give details (including application reference numbers if possible)

(max. 2000 characters)

In May 2013, HHA applied for a marine licence from the MMO (Application MLA/2/2013/00172) in order to carry out a site investigation in the form of excavating a number of trial pits within the Harwich Haven approach channel by backhoe dredger (BHD).

The Scoping Report for the project was submitted on the 26th February 2014. A Scoping Opinion was issued of 21st May 2014 (reference MLP/2014/00045).

Regarding sediment quality, a pre-application sampling plan request was also made on 5th September 2018 (reference SAM/2018/00063), in advance of the meeting with the MMO.

Has there been any other contact with the MMO in relation to this project?

Yes No

Please give details

(max. 2000 characters)

A project introduction meeting was held between the MMO, HHA and RHDHV on 6 August 2013. The aim was to introduce the project to the MMO. The MMO confirmed that as long as the existing conditions within the approach channel did not change between August 2013 and when the marine licence application was submitted then the MMO would agree that no further samples to consider contamination at depth would be necessary.

A meeting with the MMO, HHA and RHDHV on 18 December 2013. This meeting was to confirm the regulatory approach for the project. HHA has chosen to apply for a marine licence to cover the whole project. The MMO and HHA agreed that the channel deepening project would be subject to statutory EIA.

A meeting was held with the MMO on the 23rd October 2018. The purpose of the meeting was to re-engage with the regulator and confirm a number of key items to allow the progression of the project, which were also the subject of a pre-application submission to the MMO on 5th September 2018 (reference ENQ/2018/00176).

- The MMO confirmed by letter on 30th November 2018 that as the project received an EIA Scoping Opinion from the MMO pre-May 2017, this remained valid and the EIA should continue to be undertaken under the requirements of the 2007 Regulations, not the 2017 Regulations.

- The MMO confirmed by letter on 26 October 2018 that a total of 25 surface sediment samples from the approach channel should be obtained for further chemical and physical analysis. No further samples at depth were required. For the proposed expanded IGE disposal site, the MMO agreed that no additional sampling was required.

- The MMO confirmed by letter on 30 November 2018 that "approx. 12 stations within and immediately surrounding the proposed expansion area should be sampled to provide sufficient evidence of the species and assemblages that are to be potentially impacted by the large, proposed deposition". Full results are presented in Appendix E.1 of the ES (Vol. III, Part 2).

Have any applications been made to or consents issued by other authorities in relation to this project?

This could include applications for planning permission, environmental permits, development consent orders, transport and works orders, marine licences or any other type of licence, permit or consent. This could also include consents from local authorities, Government regulators, harbour authorities, devolved administrations, other European Union member states and any other type of authority.

Yes No

Do you have statutory powers to consent or undertake without consent any aspect of this project?

This could include statutory powers of a coast protection authority, harbour authority or lighthouse authority or any other type of statutory powers.

Yes No

Please give details

(max. 2000 characters)

The HHA has statutory authority to deepen the harbour and approach channel within the limits of HHA's jurisdiction. HHA is empowered to maintain and improve navigation within its jurisdiction, including the undertaking of maintenance and capital dredging. Although HHA has the authority to dredge within its jurisdiction, it must apply to the MMO for consent to dispose of the dredged material (capital and maintenance) at sea. Due to the scale of the proposed capital dredging project and its possible impacts, the HHA has agreed with the MMO not to use its own dredging powers on this occasion. See Section 2 of the ES for further details (Volume II).

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

This includes the jurisdiction of municipal, private and trust ports where they are a statutory harbour authority.

Yes No

Please give details

(max. 2000 characters)

HHA has existing powers as a Harbour Authority to undertake certain works, including dredging of the seabed within the port jurisdiction, in order to maintain and improve navigation.

Applicant details

This is the person, company or organisation that will hold the licence.

Contact type

Select the Contact type. Individual should only be selected when the contact is not working on behalf of an Organisation.

- Individual
- Organisation

Trading title (if applicable)

Harwich Haven Authority

Title

Mr

Forename

John

Surname

Brien

Organisation name

Harwich Haven

Reg number

Position in organisation

Harbour Engineer

Contact within company

Postcode

CO12 3HH

Postal address

HARBOUR HOUSE
THE QUAY
HARWICH

Telephone number

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

01255252303

Fax number

Please enter in format +00(0)0000 000000

Email address

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

Harbour.Engineer@hha.co.uk

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 EU legislation (e.g. Water Framework Directive, Marine Strategy Framework Directive, Habitats Directive), 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

Marine policy and plans

This project must be assessed in accordance with the relevant marine policy documents. Which marine plans do you consider relevant to this project?

If a marine plan is not in place in the location of the proposed activity, an assessment in accordance with the Marine Policy Statement is required.

Guidance relating to marine planning is available here (<https://www.gov.uk/topic/planning-development/marine-planning>) and on the Marine Information System here (<http://mis.marinemanagement.org.uk>).

- South Inshore and Offshore Marine Plans
- East Inshore and Offshore Marine Plans
- Marine Policy Statement

Please detail how you considered that this project is in accordance to the relevant marine policy documents

(max. 2000 characters)

The MPS aims to facilitate and support the formulation of marine plans, ensuring that marine resources are used in a sustainable way in line with high-level marine objectives.

The East Inshore Marine plan was developed in 2011 alongside the East Offshore Marine plan and was adopted and published in 2014. The South East Plan is currently in development.

It is considered that the following policies are of particular importance to the proposed scheme and are considered throughout the ES;

- Policy SOC2
- Policy ECO1
- Policy ECO2
- Policy BIO1
- Policy MPA1
- Policy GOV2
- Policy GOV3
- Policy WIND1
- Policy PS3
- Policy DD1
- Policy AGG3
- Policy FISH1
- Policy FISH2
- Policy TR1

Supporting information is provided within the Environmental Statement, attached as part of this licence application. See Section 3 of the ES (Volume II).

Please provide copies of documents supporting your assessment of this project in relation to relevant marine planning documents

If the supporting information is provided within other documents, such as an Environmental Statement, please clearly state this in the free text box (above)

Have you assessed this project with regard to other policy statements and spatial plans?

This includes national, regional and local policy and spatial plans.

Yes No

Please give details

(max. 2000 characters)

National Policy Statement for Ports
Shoreline Management Plans (SMPs)
Essex and South Suffolk

If possible, please provide a copy of the assessments done

Environmental impact assessment

Has an environmental statement been produced to support this project?

Environmental statements are required for projects of a type listed in the Environmental Impact Assessment Directive. If you are not certain whether your project falls within this category, please contact us before proceeding with your application.

Yes No

Please give details

(max. 2000 characters)

Please see the attached Non-Technical Summary (NTS) (Volume I), ES (Volume II) and supporting Appendices (Volume III, Parts 1 and 2) for further information.

If applicable, please provide a copy of the environmental statement

Harwich Approach Channel Deepening_ES.pdf

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Harwich Approach Channel Deepening_ES_Appendices_Part 2.pdf

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Harwich Approach Channel Deepening_ES_NTS.pdf

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Habitats regulations assessment

Have the effects of the project on European sites been considered?

Yes No

Please give details

(max. 2000 characters)

Information required to allow the MMO to undertake an HRA has been provided in Section 21 of the ES (Volume II).

If possible, please provide a copy of the assessments done

Marine conservation zone assessment

Have the effects of the project on marine conservation zones been considered?

Yes No

Please give details

(max. 2000 characters)

The following MCZs have been considered:

- Blackwater, Crouch, Roach and Colne MCZ;
- Kentish Knock East MCZ;
- Orford Inshore MCZ.

See Section 6 of the ES (Volume II).

If possible, please provide a copy of the assessments done

Sites of special scientific interest

Have the effects of the project on sites of special scientific interest (SSSI) been considered?

Yes No

Please give details

(max. 2000 characters)

The following SSSI have been considered to have potential impacts:

- Orwell SSSI;
- Harwich Foreshore SSSI;
- Stour Estuary SSSI; and,
- Hamford Water SSSI.

See Section 6 of the ES (Volume II).

If possible, please provide a copy of the assessments done

Water Framework Directive compliance assessment

Have the effects of the project been considered in accordance with the Water Framework Directive?

Yes No

Please give details

(max. 2000 characters)

See Section 9 of the ES (Volume II).

If possible, please provide a copy of the assessments done

Consultation and advertising

Has public consultation taken place and/or has the project been advertised?

Yes No

Has consultation about the project with any other statutory body taken place?

Yes No

Please give details

(max. 2000 characters)

Details of consultation carried out, and meetings held, to inform the proposed capital dredge scheme is provided within Section 4 of the ES (Volume II), a summary of which is provided below.

A scoping Opinion was issued by the MMO 21/05/14. The MMO consulted with the following organisations:

Cefas

Environment Agency (EA)

English Heritage (EH)

IFCA

Maritime and Coastguard Agency (MCA)

Natural England (NE)

Royal Yachting Association

Trinity House.

See Appendix B1 of the ES (Volume III Part 1) for comments by each individual organisation.

An introductory stakeholder meeting was held shortly after the Scoping Report was submitted on 24/04/14. Attendees included:

Cefas

Eastern IFCA

English Heritage

Environment Agency

Essex County Council

Kent and Essex IFCA

MMO

Natural England

Royal Society for Protection of Birds (RSPB)

Suffolk Coastal District Council

Suffolk County Council

Tendering District Council

Trinity House.

In May 2013, HHA applied for a marine licence from the MMO in order to carry out site investigation within the Harwich Haven approach channel. Consultation was undertaken with the MMO and EH regarding the methodology. A Written Scheme of Investigation (WSI) for the site investigation was prepared by RHDHV in July 2013 and approved by EH and the MMO prior to the marine licence for the site investigation works being issued in August 2013. Cefas was also consulted with regard to a sediment sampling strategy associated with the trial pit investigation.

A HRA screening document was submitted to Natural England 16/09/14 under its Discretionary Advice Service (reference DAS/8387/130853). The advice provided by NE has been incorporated into Section 21 of the ES (Volume II).

Detailed Stakeholder Engagement consultations with NE, EH, EA, Essex County Council, The Crown Estate, RSPB took place in 2014. Detailed Stakeholder Engagement consultations took place 20018-2019. Further details of these are presented in Section 4.5 of the ES (Volume II).

Licence summary

Do you consider this application to be for emergency activities?

Emergency activities are those undertaken for the protection of life, property or the environment from an imminent risk.

Yes No

Do you consider this application would qualify for the accelerated licensing process for dredging?

The accelerated licensing process applies to certain types of small-scale low-risk dredging activity.

Yes No

Proposed licence start date

01-JAN-2021

Proposed licence end date

31-DEC-2023

Site summary

Please provide the location of your proposed activities. Note that the responsibility for determining whether your proposed activities are below Mean High Water Springs (MHWS) rests with the applicant. If there is any doubt as to whether a site lies below MHWS you can undertake an independent survey to determine its location.

Use the 'Add/edit site(s)' button below to add one or more more locations to your application.

Next use the 'Add activity' button to add activities to your locations. (NB this option only appears once a location is created).

Basic examples:

Dredging at RiverA. Create one site for RiverA and add dredging as an activity.
 Dredging and quay wall improvements at RiverA. Create 2 locations: one for the dredging in front of the new quay area and one for the quay wall improvements.
 Dredging at RiverA and removal of large concrete block within the dredge area. Create 1 location and add two activities: 1 activity for removal and 1 activity for dredging.

Additional functions:

Subsites, Holes and Exclusion Zones can also be used more guidance is available in the 'Help' guide.

Activities:

When an activity is added to a site it is listed in a table. Click on the activity name in the table or use the links on the left hand side of this screen to navigate to the activity screen where you can provide your method statement and other information.

If you delete a site, the activities linked to it will still be visible on this screen. You

must delete these activities or move them to a valid site.

If you would like any advice on using this form or structuring your application please contact us.

Sites

Please see included locations.kml file for detailed site locations.

Harwich Haven Dredge Channel

Site sensitivities

You should provide details of any protected areas (European or Ramsar sites, marine conservation zones, sites of special scientific interest, areas of outstanding natural beauty etc) and protected features (scheduled monuments, protected wrecks etc). You should also provide details of other areas and features of social, economic or environmental value. This could include shipping lanes, fishing grounds, recreational sailing areas, material assets, unprotected habitats and species and any other feature. (max. 2000 characters)

In brief, the proposed scheme is 0.1 km from the Outer Thames Estuary SPA, 0.1 km from Orwell Estuary biological SSSI 0.8 km from Harwich Foreshore geological SSSI. Dovercourt Bathing waters is approximately 3km to the south-west. There are 59 records relating to the terrestrial and intertidal archaeological and historical assets. A full assessment of any potential impacts to these sensitivities, amongst others, is presented within the accompanying ES (Volume II).

List of activities at this site

Activity	Site	Activity type	Actions
Capital Dredging of the harbour and approach channel	Harwich Haven Dredge C...	Navigational dredging (capital)	

INNER GABBARD EAST

Site sensitivities

You should provide details of any protected areas (European or Ramsar sites, marine conservation zones, sites of special scientific interest, areas of outstanding natural beauty etc) and protected features (scheduled monuments, protected wrecks etc). You should also provide details of other areas and features of social, economic or environmental value. This could include shipping lanes, fishing grounds, recreational sailing areas, material assets, unprotected habitats and species and any other feature. (max. 2000 characters)

The IGE disposal ground lies within the Southern North Sea SAC, designated for harbour porpoise.

List of activities at this site

Activity	Site	Activity type	Actions
Disposal of capital dredged material	INNER GABBARD EAST	Disposal of dredged material	

Harwich Haven Dredge Channel - Capital Dredging of the harbour and approach channel

Site

Please see included locations.kml file for detailed site locations.

Activity details

Activity type

Please select the type of activity that would take place. If more than one activity would take place you should enter the details of one activity here and then add another activity.

Activity type

Dredging

Activity subtype

Navigational dredging (capital)

General

Activity title

Enter the title of this activity (max. 250 characters)

Capital Dredging of the harbour and approach channel

Activity description

You should include a detailed description of the activity. For construction activities, this should include the dimensions of the works and materials to be used. (max. 2000 characters)

The capital dredge area covers approximately 18km² of seabed, spanning approximately 28 km from the mouth of the Stour and Orwell estuaries. It is proposed that the entire approach channel and harbour will be dredge to the same depth up to -16.0 m CD.

Further details are available in Section 2 of the ES (Volume II).

Activity methodology

Your method statement should clearly explain how you are going to carry out the activities providing detail on any materials and plant to be used as well as proposed programme timings. (max. 2000 characters)

It is anticipated that the capital dredging works will be undertaken whilst ongoing maintenance dredging activity (to currently maintained depth of -14.5 m CD) takes place. During the capital works phase, there could be up to two Trailing Suction Hopper Dredges (TSHDs) working simultaneously at separate locations within the harbour and approach channel. Therefore, with the addition of the ongoing maintenance dredging activity, up to three dredgers could be operational at any one time.

Activity start date	Activity end date
01-JAN-2021	31-DEC-2023

Activity programme

You should detail the proposed programme of works for the activity. This should include proposed start and end dates for the activity. It should also include details of any elements that need to be completed by a certain date and details of any time periods during which the activity could not be carried out and the reasons for this. It should also include proposed working hours. (max. 2000 characters)

The detailed activity programme is not yet confirmed. The above dates are the earliest possible start and the latest likely completion of the works. Works are likely to take between 12 and 24 months to complete. Dredging and disposal will be undertaken seven days per week, 24 hours a day.

Potential impacts

You should detail the potential impacts this activity may have. This should include social, economic and environmental impacts. If this has already been detailed elsewhere in the application it is sufficient to reference that. (max. 2000 characters)

Potential impacts as a result of the proposed capital dredge activity are assessed within the ES (Volume II).

Proposed mitigation

You should detail the mitigation you propose in response to the potential impacts. This should include a detailed explanation of the mitigation measure and evidence to demonstrate that the mitigation is likely to be successful. If this has already been detailed elsewhere in the application it is sufficient to reference that. (max. 2000 characters)

See Section 22 the ES (Volume II).

Residual risks

You should detail the residual risks from the activity following the mitigation. This should include an assessment of the significance of the risks and evidence to show why these risks cannot be avoided or further mitigated. (max. 2000 characters)

See Section 22 the ES (Volume II, Part 3).

Additional supporting information

You should use this section to provide any further information about this activity that you wish to have taken into account in the processing and determination of this application. (max. 2000 characters)

Please see the attached Non-Technical Summary (NTS) (Volume I), ES (Volume II) and supporting Appendices (Volume III, Parts 1 and 3) for further information.

Navigational dredging (capital)

Material details

Start date	01-JAN-2021	End date	31-DEC-2023
Method of dredging	Hydraulic - Trailer Hopper	Material	Clay (<31.25um)
Specific gravity	1.7	Dredge depth below chart datum (m)	16.3
Existing depth below chart datum (m)	14.5	Maximum amount to be dredged (m3)	15646052
Start date	01-JAN-2021	End date	31-DEC-2023
Method of dredging	Hydraulic - Trailer Hopper	Material	Silt (31.25-62.5um)
Specific gravity	1.6	Dredge depth below chart datum (m)	16.3
Existing depth below chart datum (m)	14.5	Maximum amount to be dredged (m3)	1776777
Start date	01-JAN-2021	End date	31-DEC-2023
Method of dredging	Hydraulic - Trailer Hopper	Material	Boulder (>256mm)

Specific gravity	2.2	Dredge depth below chart datum (m)	16.3
Existing depth below chart datum (m)	14.5	Maximum amount to be dredged (m3)	72536
Start date	01-JAN-2021	End date	31-DEC-2023
Method of dredging	Hydraulic - Trailer Hopper	Material	Sand (62.5um-2mm)
Specific gravity	1.9	Dredge depth below chart datum (m)	16.3
Existing depth below chart datum (m)	14.5	Maximum amount to be dredged (m3)	5859780
Start date	01-JAN-2021	End date	31-DEC-2023
Method of dredging	Hydraulic - Trailer Hopper	Material	Cobble (64-256mm)
Specific gravity	2.0	Dredge depth below chart datum (m)	16.3
Existing depth below chart datum (m)	14.5	Maximum amount to be dredged (m3)	106767

Further details

Maximum amount to be dredged per campaign (m3)

0

Sample analysis

You should provide analysis of the sediment to enable a determination to be made about whether the material is suitable for disposal to sea. This should include particle size analysis and analysis against Cefas Action Levels. (max. 2000 characters)

Please see the attached ES (Volume II) and supporting Appendices (Volume III, Parts 1 and 3) for further information.

Please provide a copy of the analysis file

Destination of material

You should detail the destination of the material and whether this is going to be taken to land or is proposed to be disposed of to sea. If this has already been detailed elsewhere in the application it is sufficient to reference that. (max. 2000 characters)

Inner Gabbard East Disposal Site.

INNER GABBARD EAST - Disposal of capital dredged material

Site

Please see included locations.kml file for detailed site locations.

Activity details

Activity type

Please select the type of activity that would take place. If more than one activity would take place you should enter the details of one activity here and then add another activity.

Activity type

Deposit of any substance or object

Activity subtype

Disposal of dredged material

General

Activity title

Enter the title of this activity (max. 250 characters)

Disposal of capital dredged material

Activity description

You should include a detailed description of the activity. For construction activities, this should include the dimensions of the works and materials to be used. (max. 2000 characters)

HHA has undertaken an investigation into the suitability of the IGE disposal ground to take the maximum anticipated volume of material from the harbour and approach channel deepening. The investigation concluded that the currently licensed IGE disposal ground does not have an appropriate capacity to take the potential worst-case volume of 23.5 million m³ of capital material (based on achieving the ADD, as outlined in Section 2.3.1).

See the Supplementary Environmental Information for the Expansion of the Inner Gabbard East Disposal Ground (Volume IV – SEI Report) provided with this Marine Licence application.

Harwich Approach Channel Deepening_SEI Report.pdf
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Activity methodology

Your method statement should clearly explain how you are going to carry out the activities providing detail on any materials and plant to be used as well as proposed programme timings. (max. 2000 characters)

HHA proposes to expand the width and length of the existing IGE disposal ground to 750m x 3,000m, which will give a total area of approximately 2.6km², and a total capacity of approximately 24.4 million m³.

See Volume IV – SEI Report.

Activity start date	Activity end date
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01-JAN-2021	31-DEC-2023
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Activity programme

You should detail the proposed programme of works for the activity. This should include proposed start and end dates for the activity. It should also include details of any elements that need to be completed by a certain date and details of any time periods during which the activity could not be carried out and the reasons for this. It should also include proposed working hours. (max. 2000 characters)

The detailed activity programme is not yet confirmed. The above dates are the earliest possible start and the latest likely completion of the works. Works are likely to take between 12 and 24 months to complete. Dredging and disposal will be undertaken seven days per week, 24 hours a day.

Potential impacts

You should detail the potential impacts this activity may have. This should include social, economic and environmental impacts. If this has already been detailed elsewhere in the application it is sufficient to reference that. (max. 2000 characters)

See Volume IV – SEI Report.

Proposed mitigation

You should detail the mitigation you propose in response to the potential impacts. This should include a detailed explanation of the mitigation measure and evidence to demonstrate that the mitigation is likely to be successful. If this has already been detailed elsewhere in the application it is sufficient to reference that. (max. 2000 characters)

See Volume IV – SEI Report.

Residual risks

You should detail the residual risks from the activity following the mitigation. This should include an assessment of the significance of the risks and evidence to show why these risks cannot be avoided or further mitigated. (max. 2000 characters)

See Volume IV – SEI Report.

Additional supporting information

You should use this section to provide any further information about this activity that you wish to have taken into account in the processing and determination of this application. (max. 2000 characters)

See Volume IV – SEI Report.

Disposal of dredged material

Material details

Please provide information on the material to be deposited. This needs to state the type of material, when you plan to do this, the specific gravity of the material and the weight of the material in both dry and wet tonnes. You also need to tell us the source of the material by selecting the source site.

If you have not yet entered the coordinates of the source site, you should go back to the Sites and activities summary screen (see the left-hand menu) and enter these coordinates first. You can do this by adding a new site.

On this page, you can add more rows to tell us about material you propose to deposit on different dates or about different types of material that you propose to deposit.

Start date	End date	Material	Specific gravity	Amount to be deposited (dry tonnes)	Amount to be deposited (wet tonnes)	Source Site
01-JAN-2021	31-DEC-2023	Clay (<31.25um)	1.7	23128946	26598288	Harwich Haven

						Dredg e Chann el
01- JAN- 2021	31- DEC- 2023	Silt (31.25 - 62.5u m)	1.6	25844 03	28428 43	Harwi ch Haven Dredg e Chann el
01- JAN- 2021	31- DEC- 2023	Sand (62.5u m- 2mm)	1.9	74223 88	11133 582	Harwi ch Haven Dredg e Chann el
01- JAN- 2021	31- DEC- 2023	Bould er (>256 mm)	2.2	79790	15957 9	Harwi ch Haven Dredg e Chann el
01- JAN- 2021	31- DEC- 2023	Cobbl e (64- 256m m)	2.0	11863 0	21353 4	Harwi ch Haven Dredg e Chann el

Further details

Dredge details

You should provide details of the dredge. This should include the methodology and location. If this has already been detailed elsewhere in the application it is sufficient to reference that. (max. 2000 characters)

Please see the attached ES (Volume II) and supporting Appendices (Volume III, Parts 1 and 3) for further information.

Has the dredged material been analysed?

You should provide analysis of the sediment to enable a determination to be made about whether the material is suitable for disposal to sea. This should include particle size analysis and analysis against Cefas Action Levels.

- Yes No

Please give details

(max. 2000 characters)

Please see the attached ES (Volume II) and supporting Appendices (Volume III, Parts 1 and 2) for further information.

Has this activity been assessed in line with the waste hierarchy?

The disposal of dredged material to sea should be considered a last resort. You should provide details of alternatives that have been considered and the reasons why you propose to dispose of the material to sea.

- Yes No

Please give details

(max. 2000 characters)

In accordance with the Waste Framework Directive and the MMO Navigational Dredging Guidance, alternative use of the dredge material is considered within this ES. Disposal at sea should be the last resort where no other viable options are available.

Please see the attached ES (Volume II, Parts 1 to 3) and supporting Appendices (Volume III, Parts 1 to 3) for further information.

Licence conditions

Are there any conditions you consider should be added to the marine licence?

Any suggested conditions will be considered as part of the application and may be applied to the consent. However, proposed conditions may also be edited or removed and other conditions may be applied in addition to or in place of any conditions you propose.

- Yes No

Online contacts

Name

MMO Application Contacts

Description

MMO Application Contacts

Central Contact Details	Team Coordinator or	Edit/Prep are Application	Submit Application	Applicant	Co-applicant	Copy Recipient	Invoice Address
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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Jim Warner	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Other details

Fees and charges

**Cost of project seaward
of mean high water
springs (£)**

Specify pounds only or pounds and
pence, e.g. 1000 or 1000.10

90000000

Public register

Permission to add your data to the MMO evidence base:

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.

1.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.

Can we use your data to inform MMO functions?

Yes No

2.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.

Is there any information in your application (including any supporting documents) that you believe should be withheld from the Public Register?

Yes No