# MLA/2019/00066

# 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)

Withernsea Long Sea Outfall Replacement EIA

## 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)

Yorkshire Water Services Ltd. (YWS) is proposing the construction of a new long sea outfall (LSO) on the Holderness Coast in the East Riding of Yorkshire, to discharge treated wastewater (in compliance with the EA discharge consent) from Withernsea and its surrounding catchment. A number of storm weather events occurring recently at the site location have amplified the rates of erosion, causing the existing LSO and the existing Withernsea Wastewater Treatment Works (WwTW), located approximately 2.5km south of Withernsea, to be under threat from the sea. This has accelerated the need for a new WwTW and associated infrastructure, including a new LSO, prior to the lapse in design life of the existing infrastructure (WwTW and LSO).

The new LSO will extend 3.4km from the new WwTW, to the east of Hollym village. The terrestrial section will be approximately 2.3km in length. The intertidal and subtidal sections (below MHWS) ('the proposed scheme'), will be approximately 1.1 km in length, from the toe of the cliff to a new discharge point offshore (up to a maximum of 50m to the south of the current permitted discharge point of the existing LSO).

The works below MHWS, comprising the construction of the intertidal, and subtidal length of the LSO, were screened in January 2018 under the requirements of the Marine Works (Environmental Impact Assessment) Regulations 2007, as amended by the Marine Works (Environmental Impact Assessment) (Amendment) Regulations 2017 (the MWRs) by the MMO). The MMO confirmed in February 2018 that the proposed scheme required an EIA under the MWRs.
The purpose of this application is to provide details for the EIA undertaken under the MWRs, covering the construction of the marine sections of the LSO.

**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)

Construction of the proposed scheme is planned to begin in April 2020.

Works required for the construction of the new LSO will be undertaken during the summer months (1st April to 30th September) due to the requirement to avoid poor weather conditions and are expected to take approximately five months. It is intended that the decommissioning of the existing LSO would also be undertaken within this period, however, due to the requirement for this to occur once the new LSO is fully commissioned, this may occur in winter months.

Programme (activity and approximate duration):
Subtidal works
Offshore trench dredging – 5 weeks
Pipe connection (3 sections) and transportation to site – 1 week
Survey of trench and maintenance where required – 5 days
Pipe installation – 2 days
Diffuser installation – 2 days
Backfill offshore trench – 5 weeks
Diffuser dome installation – 1 day
Scour protection installation – 5 days
Marker buoy installation – 1 day
Decommissioning of existing LSO (removal of diffuser dome, diffuser, scour protection and cap end of LSO – 1 week

Intertidal works
Construct access to beach – 4 weeks
Construct cofferdam and reception pit – 5 weeks
Tunnel from 100-year erosion line to cofferdam on foreshore – 8 weeks
Remove TBM, cofferdam and access – 3 weeks
Decommissioning of existing LSO (removal of rock bags and removal of exposed pipeline and chamber on foreshore) – 2 weeks

# 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 direct relation to this project, a sampling licence for the dredged material was obtained from the MMO in 2016 - SAM/2016/00063
A screening opinion was received in February 2018 – EIA/2018/00001/1
A Scoping Response was subsequently received on 5th November 2018 – EIA/2018/00036
Separately a marine licence was sought for the provision of temporary pipe protection (the installation of rock bag protection) needed to protect the existing LSO – MLA/2017/00249/2 and L/2017/00420/3
Minor maintenance activities for the existing LSO are covered by a 10-year licence (L/2017/00177/1)

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

◉ Yes ○ No

**Please give details**

(max. 2000 characters)

On the 2nd March Yorkshire Water Services challenged the MMO's Screening Opinion (EIA/2018/0001) however the decision was upheld.

Items within the MMO's EIA Scoping Response were queried by YWS, specifically Paragraph 4.5.2 . An updated note was provided by the MMO on the 9th November

**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

**Please give details (including the authority name, dates, application reference numbers and the status of the application or consent where possible)**

(max. 2000 characters)

East Riding of Yorkshire Council (EYRC) provided a Screening Opinion, confirming that the works above Mean High Water Springs (including the Wastewater Treatment Works, rising main and the terrestrial length of the LSO) did not require EIA in January 2018 – 18/00207/EIASCR.

Planning application was subsequently submitted in June 2018 and granted in October 2018 - Application no.: DC/18/02089/CM/STRAT. PP-06885672
Yorkshire Water Services hold a Discharge Consent Permit for Withernsea LSO – WA6192 (Appendix D of attached ES)

**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 construction of the terrestrial section of the new LSO will be completed under YWS' Permitted Development Rights through the Town and Country Planning (General Permitted Development) (England) Order 2015, Part 13 of Schedule 2.

The wider project, such as the Rising Mains and demolition of the existing WwTW will also be completed under YWS' Permitted Development Rights

**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

# 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)**

Yorkshire Water Services

**Title**

Miss

**Forename**

Emma

**Surname**

Jose

**Organisation name** **Reg number**

YORKSHIRE WATER SERVICES LTD.

**Position in organisation** **Contact within company**

Project Manager Emma Jose

**Postcode**

LS10 1LJ

**Postal address**

LIVINGSTONE HOUSE
CHADWICK STREET
LEEDS

**Telephone number**

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

07791 817 138

**Fax number**

Please enter in format +00(0)0000 000000

**Email address**

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

emma.jose@yorkshirewater.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.

# 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 East Inshore and East Offshore areas were the first to be selected for marine planning. It is considered that the following policies of the East Inshore Plan are of particular importance to the proposed scheme and are considered throughout the ES; Policy GOV1, Policy MPA1, Policy FISH1, Policy FISH2, Policy ECO1 and Policy ECO2. Supporting information is provided within the Environmental Statement, attached as part of this licence application.

**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)

The project has been assessed with regard to the UK Marine Policy Statement and the National Policy for Waste Water. Full details of the assessment are within the Environmental Statement submitted in support of this application.

# 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)

Yes – Please see the attached Environmental Statement and supporting Appendices

# Habitats regulations assessment

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

◉ Yes ○ No

**Please give details**

(max. 2000 characters)

Yes - Please see the HRA within the attached Environmental Statement and supporting Appendices

# Marine conservation zone assessment

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

◉ Yes ○ No

**Please give details**

(max. 2000 characters)

Yes - Please see the MCZ Assessment within the attached Environmental Statement and supporting Appendices

## 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)

Yes - Please see the attached Environmental Statement and supporting Appendices

## 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)

Yes - Please see the WFD Compliance Assessment within the attached Environmental Statement and supporting Appendices

## Consultation and advertising

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

◉ Yes ○ No

**Please give details**

(max. 2000 characters)

Public consultation was undertaken during the site selection process for the new WwTW and LSO. Further details of this are presented in the Environmental Statement.

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

◉ Yes ○ No

**Please give details**

(max. 2000 characters)

Natural England have been consulted through their Discretionary Advice Service – reference numbers: DAS/11138/197263 and DAS/11138/204391.

An EIA Screening Opinion was requested from East Riding of Yorkshire Council.

Further details of these are presented within the Environmental Statement.

# 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 | Proposed licence end date |
|---|---|
| 01-APR-2020 | 30-APR-2021 |

# 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.

## Proposed Scheme Red Line Boundary

**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 within the Greater Wash SPA and the Holderness Inshore MCZ, and is approximately 5km from the Humber Estuary SPA, SAC, SSSI and Ramsar. Withernsea Bathing Water is approximately 3km to the north. There are non-designated heritage assets within the foreshore area. The inshore area is used by fishermen for potting crabs and lobster. A full assessment of any potential impacts to these sensitivities, amongst others, is presented within the ES.

## List of activities at this site

| Activity | Site | Activity type | Actions |
|---|---|---|---|
| Trenching, sidecasting and backfill for installation of subtidal LSO | Proposed Scheme Red Li... | Other dredging | |
| Installation of subtidal pipeline, diffuser and associated scour protection | Proposed Scheme Red Li... | Construction of new works | |
| Installation of intertidal pipeline | Proposed Scheme Red Li... | Construction of new works | |
| Decommissioning of existing LSO | Proposed Scheme Red Li... | Decommissioning of works | |

Proposed Scheme Red Line Boundary - Trenching, sidecasting and backfill for installation of subtidal LSO

# 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**

Other dredging

## General

### Activity title

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

Trenching, sidecasting and backfill for installation of subtidal LSO

### 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)

Dredged trenching and backfill techniques will be used in the subtidal zone. In total, approximately 1km of pipeline will be buried in a shallow dredged trench in the subtidal area, to approximately 3.5m depth below seabed level, along the length

Further details are available within the Environmental Statement.

### 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 approximately 50,000 m3 of seabed substrate (mainly consisting of sand, till and clay) will require to be dredged, most likely using a backhoe or cutter suction dredger, depending on the nature of the material encountered. The dredge material will be side-cast during excavation, on either side of the trench. Following completion of the trench and installation of the pipe, the side-cast materials will be re-used as backfill.
Further details are available within the Environmental Statement.

| Activity start date | Activity end date |
|---|---|
| 01-APR-2020 | 30-SEP-2020 |

### 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)

Construction hours of the subtidal section will be seven days per week, 24 hours a day for approximately two months.
Further details are available within the Environmental Statement.

### 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 this activity on subtidal benthic communities, fish and fisheries, coastal processes, sediment and water quality, foraging birds, the Greater Wash SPA and the Holderness Inshore MCZ and WFD parameters have been assessed as negligible or minor significance and are discussed within the Environmental Statement.

### 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)

No mitigation is proposed.  Please refer to the ES for further details.

### 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)

Impacts remain of negligible or minor significance.

### 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 ES for further detail on these assessments.

## Other dredging

Please provide background information on dredging activities that have taken place in this area previously. This will help us assess the impact of your proposed activities.

You can also supply information in the additional supporting information box above.

**Number of years dredging that has been carried out**

**Average number of dredging campaigns that have been carried out per year**

**Average volume of material that has been dredged per campaign (m3)**

**Average volume of material that has been dredged per year (m3)**

**Number of years that dredging has been carried out in its current form**

## Material details

| | | | |
|---|---|---|---|
| **Start date** | 01-APR-2020 | **End date** | 30-SEP-2020 |
| **Method of dredging** | Mechanical - Backhoe | **Material** | Sand (62.5um-2mm) |
| **Specific gravity** | 2.66 | **Dredge depth below chart datum (m)** | 3.5 |
| **Existing depth below chart datum (m)** | 0 | **Maximum amount to be dredged (m3)** | 25000 |
| **Date last dredged** | | | |

| | | | |
|---|---|---|---|
| **Start date** | 01-APR-2020 | **End date** | 30-SEP-2020 |
| **Method of dredging** | Mechanical - Backhoe | **Material** | Clay (<31.25um) |
| **Specific gravity** | 2.75 | **Dredge depth below chart datum (m)** | 3.5 |

| | | | |
|---|---|---|---|
| **Existing depth below chart datum (m)** | 0 | **Maximum amount to be dredged (m3)** | 25000 |
| **Date last dredged** | | | |

## Further details

**Maximum amount to be dredged per campaign (m3)**

50000

**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)

Sediment samples were taken as per the sampling plan received from the MMO in 2016 (SAM/2016/00063), based on proposals to remove material to a depth of 3.5m below the seabed. Samples were analysed by Cefas. Samples marginally exceeded AL1 for total hydrocarbons, however no exceedances of AL2 were recorded for heavy metals or total hydrocarbons. Please see the ES for further details.

**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)

The material will be side-cast and used to backfill the trench once the pipeline is in place. Please see the ES for further details.

Proposed Scheme Red Line Boundary - Installation of subtidal pipeline, diffuser and associated scour protection

# 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**

Construction, alteration or improvement of any works

**Activity subtype**

Construction of new works

## General

### Activity title

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

Installation of subtidal pipeline, diffuser and associated scour protection

### 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 HDPE pipe will be installed using the 'float and flood' technique, once the trench has been excavated and material side-casted. Once in place, the side-casted material will be used to backfill the trench. There may be the potential for suitable infill material to be imported, should side-casted material not be sufficient to ensure minimal cover of the buried LSO.

The diffuser, diffuser riser, diffuser protection dome, scour protection and marker buoy would then be installed at the distal end of the LSO. this will be done by a dive team and support vessel.

### 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)

The pipeline will be installed from the intertidal connection pit towards the subtidal section in a single length. Once installed the dredged material will be used to bury the pipeline. The diffuser will then be installed and scour protection comprising a rock blanket installed to a maximum of 10m in all directions around the diffuser. Please see the ES for further details

| Activity start date | Activity end date |
|---|---|
| 01-APR-2020 | 30-SEP-2020 |

### 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 pipeline will be installed over a two to three day window of good weather. The diffuser installation and placement of associated scour protection will be undertaken over 6 days.

Please see the ES for further details.

### 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 this activity on subtidal benthic communities, fish and fisheries, coastal processes, sediment and water quality, foraging birds, the Greater Wash SPA and the Holderness Inshore MCZ and WFD parameters have been assessed as negligible or minor significance and are discussed within the Environmental Statement.

### 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)

No mitigation is required

### 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)

Impacts remain of negligible or minor significance.

### 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)

Further information on this activity and any potential impacts can be found within the ES.

## Construction of new works

### Use intended to be made of the works

You should detail the use that will be made of the works. For example, if you are proposing to build a quay to use for unloading cargo then you should detail the type of cargo, quantity to be unloaded, frequency of unloading, methodology of unloading and any other relevant information. (max. 2000 characters)

It is anticipated that the pipeline will be operational for a period of up to 60 years and will discharge treated wastewater from the Withernsea WwTW. The existing discharge consent for the existing LSO will be modified to cover discharge from the replacement LSO. The new LSO will be installed as close as is practicably possible to the existing LSO, at a maximum of 50m to the south.

Proposed Scheme Red Line Boundary - Installation of intertidal pipeline

# 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**

Construction, alteration or improvement of any works

**Activity subtype**

Construction of new works

## General

**Activity title**

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

Installation of intertidal pipeline

## 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)

Construction of temporary cofferdam and trench above MLW, to provide a reception pit for the tunnelled section of LSO and enable connection to the subtidal section of LSO.

It is understood that an exemption under Part 3 of the Marine Licensing (Exempted Activities) Order 2011 (as amended) may be applicable for the HDD/micro-tunnelling works. Article 35 covers 'Bored tunnels' and, hence, permission for this activity is not sought under the marine licence application.
Article 35 states the following;
"35.—(1) Article 4 applies to a deposit or works activity carried on wholly under the sea bed in connection with the construction or operation of a bored tunnel.
(2) Paragraph (1) is subject to conditions 1 and 2.
(3) Condition 1 is that notice of the intention to carry on the activity must be given to the licensing authority before the activity is carried on.
(4) Condition 2 is that the activity must not significantly adversely affect any part of the environment of the UK marine area or the living resources that it supports.
(5) But article 4 does not apply to any such deposit carried on for the purpose of disposal."

Justification regarding Paragraph (4) is provided throughout this ES.

**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)

The intertidal pipeline installation will involve the following activities:
-A temporary cofferdam for the extraction of the tunnel boring machine/ HDD exit pit and to connect the subtidal section to the HDD/microtunnelling section of LSO
-a trench of approximately 100m length between the cofferdam and the lower limit of the subtidal dredging equipment. The material removed to form this trench will be side-cast and used to backfill once the pipeline is in place.

The temporary cofferdam would be constructed using sheet piles and will be approximately 30m long by 6m wide, with 10m wing walls. The length of the piles will be between 10m to 15m, depending on the ground conditions, with approximately 5m buried below ground. The temporary cofferdam will most likely be vibro-piled into the foreshore during low tide periods . This will be done in the dry, using land-based piling plant and constructed within one week. There will be a maximum of 6 sheet piles (of 5m length) required either side of the trench. It is intended that the temporary cofferdam would be fully removed once the pipe installation works are complete

Additionally, to link the pipe at the end of the HDD/micro-tunnelled section to the subtidal pipe section, a trench will be excavated around the connection point, between the cofferdam and the low water limit of marine dredging equipment (i.e. backhoe or cutter suction dredger), by tracked land-based hydraulic excavators. The trench from the connection point to the low water mark will be approximately 100m long, 3m wide at the base and 3.5m deep, generating approximately 5,000m3. The temporary cofferdam would provide protection against sedimentation of this trench. The dredged material will be side-cast on either side of the trench until the pipeline has been installed and will then be used as backfill over the pipeline.

Further details are available within the ES.

| Activity start date | Activity end date |
|---|---|
| 01-APR-2020 | 30-SEP-2020 |

### 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 onshore trenching will take place over one week. The trench will then be maintained for approximately two weeks to allow for the installation of the pipeline. Once the pipeline is in place the trench will be backfilled over one week. Please see the ES for further details.

Construction hours of the subtidal section will be six days per week, between the hours of 08:00 to 19:00 for approximately two months. During construction, mobile cranes may be required for installation of the pipe. The following may also be required depending on how the intertidal section is constructed:
•Drill Rig and associated equipment and site set up for construction of tunnelled section if HDD method employed; and
•TBM and associated equipment and site set up for construction of tunnelled section if micro-tunnelling method employed; and
•Land-based plant equipment for construction of HDD/micro-tunnelling reception pit in intertidal zone.

### 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 this activity on intertidal benthic habitats, coastal processes, sediment and water quality, foraging birds, the Greater Wash SPA and the Holderness Inshore MCZ and WFD parameters have been assessed as negligible or minor significance and are discussed within the ES.

### 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)

No mitigation is required

### 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)

Impacts remain of negligible or minor significance.

### 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)

Further information is presented within the ES.

## Construction of new works

**Use intended to be made of the works**

You should detail the use that will be made of the works. For example, if you are proposing to build a quay to use for unloading cargo then you should detail the type of cargo, quantity to be unloaded, frequency of unloading, methodology of unloading and any other relevant information. (max. 2000 characters)

It is anticipated that the pipeline will be operational for a period of up to 60 years and will discharge treated wastewater from the Withernsea WwTW.

Proposed Scheme Red Line Boundary - Decommissioning of existing LSO

# 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**

Removal of any substance or object

**Activity subtype**

Decommissioning of works

## General

**Activity title**

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

Decommissioning of existing LSO

**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)

Once the replacement pipeline is commissioned the existing pipeline will be removed from the intertidal foreshore, however the subtidal section of the LSO will be left in place.

## 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)

The decommissioning of the existing LSO will involve the following activities:
-Removal of temporary pipe protection (covered under L/2017/00420/2)
-Removal of above seabed infrastructure
-100m length of LSO removed from foreshore
-Capping the ends of the subtidal and intertidal sections

Above seabed structures associated with the existing LSO in the subtidal zone, including the diffuser riser to approximately 1m below the seabed level, diffuser head and protection dome shall be removed and disposed of at a suitable licensed waste disposal facility. The above works will be done by a team of divers and workboats, using lifting equipment and hand tools. The existing marker buoy and anchor may also be removed, and may be re-used/re-located (depending on condition) for the new LSO or totally removed and disposed of at a suitable licensed waste disposal site.

Decommissioning may also require moving of a very small area of existing scour protection, limited to that which lies immediately adjacent to the existing diffuser. The above works will also be done by a team of divers and workboats, using lifting equipment and hand tools.
The existing LSO section from the toe of the cliff up to and including the exposed chamber on the foreshore shall be removed and disposed of at a suitable licensed waste disposal facility. The approximate length of this section of existing pipeline is 100m. The area immediately adjacent to the existing LSO will be excavated to enable removal.
This will be reinstated following removal, with 'as dug' material to be utilised if required. This will likely require approximately two tracked lifting cranes, two tracked excavators and a small generator for electric supply, to dig around the existing pipe and assist in removal of the 100m LSO section, in cut sections.
The redundant ends of the outfall at the foreshore and the offshore end shall be capped with suitable grout/concrete

Further detail is provided in the ES.

| Activity start date | Activity end date |
|---|---|
| 01-APR-2020 | 30-APR-2021 |

## 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 works will take place over two weeks. Further detail is provided in the ES.

It is intended that the decommissioning of the existing LSO (i.e. removal of diffuser dome, diffuser riser, marker buoy and capping of the LSO end) would also be carried out during the summer periods, however, it is possible that timings of LSO commissioning may mean that this would be undertaken in the winter months, for a period of two weeks only.

### 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 this activity on intertidal benthic habitats, coastal processes, sediment and water quality, foraging birds, the Greater Wash SPA and the Holderness Inshore MCZ and WFD parameters have been assessed as negligible or minor significance and are discussed within the ES.

### 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)

No mitigation is proposed

### 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)

Impacts remain of negligible or minor significance.

### 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)

Further information about the decommissioning of the existing LSO is provided within the ES.

# 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

# 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

8000000

# 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