



Able Marine Energy Park

Material Change 2

Statement of Common

Ground with C.RO

ABLE MARINE ENERGY PARK DCO 2014
MATERIAL CHANGE 2

Planning Inspectorate Reference: TR030006

Statement of Common Ground

Between

ABLE HUMBER PORTS LIMITED

and

C.RO PORTS KILLINGHOLME LIMITED

Document control			
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1 Introduction and Purpose

1.1 Purpose of Statement of Common Ground

1.1.1 This Statement of Common Ground ('SoCG') is between Able Humber Ports Limited ('the Applicant') and C.RO Ports Killingholme Limited ('C.RO') in relation to an application ('the Application') for a material change to the Able Marine Energy Park Development Consent Order 2014 (the 'DCO'). The Application was made pursuant to section 153 and paragraphs 3 and 4 of Schedule 6 of the Planning Act 2008, and Regulation 16 of the Infrastructure Planning (Changes to, and Revocation of, Development Consent Orders) Regulations 2011.

1.1.2 The Planning Inspectorate allocated the Application the reference number TR030006, and published documents relating to the Application on its website under the title "Material Change 2". The Applicant submitted the Application to the Planning Inspectorate on 25 June 2021.

1.1.3 The Applicant and C.RO are collectively referred to in this SoCG as 'the parties'. The parties have been, and continue to be, in direct communication in respect of the interface between the application and the interests of C.RO.

1.1.4 The purpose and possible content of SoCGs is set out in paragraphs 58 – 65 of the Department for Communities and Local Government's guidance entitled "*Planning Act 2008: examination of applications for development consent*" (26 March 2015). Paragraph 58 of that guidance explains the basic function of SoCGs:

"A statement of common ground is a written statement prepared jointly by the applicant and another party or parties, setting out any matters on which they agree. As well as identifying matters which are not in real dispute, it is also useful if a statement identifies those areas where agreement has not been reached. The statement should include references to show where those matters are dealt with in the written representations or other documentary evidence."

1.1.5 SoCGs are therefore a useful and established means of ensuring that the evidence at the examination focuses on the material differences between the main parties, and so aim to help facilitate a more efficient examination process.

1.1.6 The purpose of this SoCG is to set out agreed factual information about the Application. It is intended that this SoCG should provide matters on which the Parties agree. As well as identifying matters which are not in dispute, the SoCG may also identify areas where agreement has not been reached.

1.1.7 This SoCG has been prepared in response to the relevant representation made by C.RO received by the Planning Inspectorate on 7 September 2021. The matters addressed are:

- The articles of the draft DCO Amendment Order.
- The assessment of development made under separate extant planning applications.
- The impact of changes to vessel movements.

- The creation of a barge berth and the types of vessels that would use this.
- The impact of maintenance dredging and additional dredge deposits.
- The Order Limits.

1.1.8 It is envisaged that this SoCG will evolve during the examination phase of the DCO material change application.

1.1.9 Subsequent drafts will be agreed and issued, with the version numbers clearly recorded in the 'Document Control' table at the beginning of the document.

1.2 Description of the DCO and material change application

1.2.1 The Able Marine Energy Park ('AMEP') is a proposed 1288m long quay on the south bank of the Humber Estuary approximately 14 miles south-east of Hull, and north of North Killingholme. It is comprised of a quay, reclaimed estuarine habitat and facilities to allow offshore energy components and parts to be manufactured, assembled, stored and exported to their installation sites and elsewhere. The development is located the administrative areas of North Lincolnshire Council and East Riding of Yorkshire Council (although the Application relates to part of the development located in the administrative area of North Lincolnshire Council only).

1.2.2 The DCO came into force on 29 October 2014. Since this time, construction of the pumping station has commenced.

1.2.3 On 25 June 2021 the Applicant submitted the Application which comprised the following proposed changes:

- a realignment of the proposed quay (within its existing limits of deviation) to remove a berth pocket at the southern end and introduce a setback at the northern end;
- changes to the construction methodology to allow the relieving slab at the rear of the quay to be at the surface as an alternative to being buried or to be omitted altogether, and the use of anchor piles as an alternative to flap anchors;
- consequential changes to dredging; and
- unrelated to the quay changes, the realignment of a footpath diversion to the north west of the site to go round the end of a railway track instead of crossing it.

Further details of the material change can be found in the Application cover letter [\[APP-001\]](#) which accompanies the material change application.

1.3 C.RO

1.3.1 C.RO is the harbour authority and owner and operator of C.RO Ports Killingholme, a six-berth ro-ro ferry port located immediately upstream from the Applicant's site. C.RO operates 24 hours seven days a week servicing scheduled ro-ro ferry sailings

from the northern continental ferry ports. The Order contains specific recognition of C.RO's status in Article 8 (Jurisdiction of the Harbour Authority).

- 1.3.2 C.RO submitted a relevant representation to the Planning Inspectorate regarding the Application (RR-014), received by the Planning Inspectorate on 7 September 2021.

1.4 Status of the SoCG

- 1.4.1 This version of the SoCG represents the position between the Applicant and C.RO at 14 December 2021.

2 Summary of Consultation

- 2.1 Consultation carried out by the Applicant and the way in which it has informed the Application is set out in full in the Consultation Report [[APP-061](#)] submitted with the Application.
- 2.2 C.RO was included in the pre-application consultation carried out by the Applicant. C.RO and the Applicant have continued direct communication in respect of the Application.

3 Matters which are fully agreed between the parties

- 3.1 This section of the SoCG describes the 'matters agreed' in detail between the parties.

The impact of additional capital dredge deposits

- 3.2 The Applicant has confirmed to C.RO that additional capital dredging arisings will be deposited at HU082 and that such deposition will not affect existing maintenance dredging deposition at all, as the capital and maintenance dredging deposit sites are completely different.
- 3.3 The Applicant has noted that the long-term effects of the deposition of capital dredging has been fully assessed and is reported in the ES, particularly in Chapter 8 (APP-079) and Appendix UES 8-2 (APP-116). In the short to medium term, all the capital dredge arising are expected to erode away.
- 3.4 The parties acknowledge that the draft DCO Amendment Order would not authorise the additional deposition of dredged arisings; this would be permitted by means of a variation to the deemed marine licence, by means of a separate application to the Marine Management Organisation.
- 3.5 On the basis of the above, C.RO is satisfied that its existing protective provisions are sufficient to address any impacts likely to arise from future capital dredge deposition undertaken by the Applicant for purposes authorised by the DCO (and the draft DCO Amendment Order).

The articles of the draft DCO Amendment Order (Construction Sequencing)

- 3.6 It is acknowledged that the authorised development must be carried out in accordance with the design drawings listed in Paragraph 6(b) of Schedule 11 (*Requirements*) to the DCO. The draft DCO Amendment Order already seeks to substitute and/or remove the majority of these drawings. This reflects the fact that many of these drawings show the quay, and therefore have been amended to reflect the new quay alignment. The substituted drawings also reflect the fact

that works are now proposed to commence at the southern end of the quay and to progress northwards in order to facilitate the early handover of an operational section of quay.

- 3.7 An additional submission has since been made by the Applicant in respect of the draft DCO Amendment Order to further amend two of the construction sequencing design drawings. The Applicant has submitted drawings AME-036-10009 (Rev D) and AME-036-10010 (Rev D) to the Planning Inspectorate, together with an amended draft Amendment Order which would permit the Applicant to follow either the construction sequencing drawings previously submitted (AME-036-10009 (Rev C) and AME-036-10010 (Rev C)) or the amended versions.
- 3.8 The original construction sequence was to build the quay from north to south; the material change proposes reversing this to build the quay from south to north. A variation on both of these has been proposed, namely building the revetment at the north first, and then building the quay from south to north, starting with a revetment at the south. This would mean that the specialist equipment needed to build the revetments would only need to be mobilised and used for one period at the start rather than being re-mobilised to build the northern revetment later.
- 3.9 The parties note that AME-036-10009 (Rev D) and AME-036-10010 (Rev D) have not yet been published on the Planning Inspectorate website. The Applicant has discussed the amended drawings with C.Ro and C.Ro has no immediate concerns regarding the proposed changes. Nevertheless, C.Ro reserves the right to make further representations once the documents have been published and it has had the opportunity to review them in detail.
- 3.10 C.RO does not have any specific concerns at this stage regarding the Articles within the draft DCO Amendment Order. However, C.RO reserves the right to make further representations to the Examining Board in this respect if necessary and in order to reflect the outcome of discussions with the Applicant on substantive matters which are noted elsewhere in this SoCG (but limited of course to those matters).

Phasing of the Development of Continuance of Permitted Uses

- 3.11 C.RO expressed concerns regarding the assessment of environmental effects undertaken by the Applicant in light of the interaction between certain extant planning permissions for uses and development wholly unrelated to AMEP and the development authorised by the DCO (as proposed to be amended by the draft DCO Amendment Order and including the associated development comprising the onshore facilities for manufacturing, assembly and storage).
- 3.12 The Applicant has confirmed to C.RO that the operations permitted within the AMEP site by these historic permissions are limited to port related storage operations and car workshops, and in some areas simply to vehicle storage and distribution. By contrast, the alternative operations on the same land permitted by the DCO are much broader in scope. Specifically, the DCO permits the construction and operation of 10 factories within the delineated area in Figure 12.1 in Chapter 12 of the updated Environmental Statement (APP-083).
- 3.13 The parties agree that it is not plausible that the construction and operation of ten additional factories results in less environmental impact than simply storing port related goods in accordance with existing consents.

The impact of changes to the construction methodology resulting in additional construction vessel movements (matters resolved)

- 3.14 C.RO has previously sought clarification from the Applicant as to the extent to which the proposed changes to the construction methodology for AMEP would result in changes to construction vessel movements within the Humber Estuary.
- 3.15 The DML requires the licence holder to dispose of 1.1M Tonnes of dredge arisings from the berthing pocket onto land (AMEP DCO Schedule 8 paragraph 11).
- 3.16 The Applicant has explained to C.RO that the initial reference to increased vessel construction vessel movements appeared in the Scoping Report issued to the Planning Inspectorate in December 2020. Specifically, the Scoping Report stated that *'the proposed change to the deposit location of 1.1M Tonnes of clay from the berthing pocket will give rise to additional vessel movements on the river during construction'*. This was the reasonable expectation of the Applicant before the Applicant checked the basis of the original assessment of construction vessel movements undertaken in November 2011 ('the 2011 assessment'). The 2011 assessment is provided in Appendix 1 of this document and totals 5,518 movements.
- 3.17 During the EIA period it became evident to the Applicant that the 2011 assessment of construction vessel movements, which was based on the Dredging Strategy at the time, provided for all material dredged from the berthing pocket to be loaded into split hopper barges and deposited at sea, contrary to the provisions of the DML. This is plain from ES Appendix 7.6¹ which provides a breakdown of the dredging works at Appendix 2, Section 3.1, abstract below, refer to Activity 7 '*Dredge .. berth pocket*'. Activity 7 appears in the 2011 assessment as a 5-month dredging period between May and September 2014 and includes 3 split hopper barges working alongside a Backhoe Dredger. Because of this error in the 2011 assessment, there is now no increase in the assessed number of construction vessel movements resulting from the material change. Put simply, the 2011 assessment was wrong and the Applicant only became aware of this after the Scoping Report had been submitted.
- 3.18 C.RO is satisfied with the explanation provided by the Applicant in the foregoing paragraphs but, as noted at Paragraphs 4.6-4.8 below, wishes to reserve its position pending further consideration of any potential impacts likely to arise from future construction vessel movements.

¹ [Microsoft Word - Dredging Strategy_Rev E_28-11-2011 \(planninginspectorate.gov.uk\)](#)

3.1 General plan

The subsequent dredging plan is proposed (draft):

Activity 1	Dredge alluvium from reclamation area	The 1,400m ³ trailing suction hopper dredger Sospan Dau (or similar) would dredge this area (if required) prior to the flap anchor trench excavation and filling by rainbowing. The disposal site will be Humber 2 or Humber 3A.
Activity 2	Excavation of flap anchor trench	A large backhoe dredger such as the Nordic Giant will excavate the trench and side cast the sand and gravel or glacial till.
Activity 3	Rainbow of selected fill over the flap anchors	The 8,000m ³ trailing suction hopper dredger Barent Zanen (or similar) will dredge suitable material from marine borrow area and discharge on site by rainbowing over the new quay wall.
Activity 4	Hydraulic fill of reclamation area	The Barent Zanen (or similar) and 16,000m ³ trailing suction hopper dredger Oranje (or similar) will dredge suitable material from marine borrow area and discharge on site by pumping through a floating pipeline.
Activity 5	Dredge alluvium from berth pocket, turning area and approaches	The Barent Zanen (or similar) will dredge the alluvium and discharge in disposal site Humber 1A, Humber 3 or Humber 3A.
Activity 6	Dredge sands & gravels from berth pocket, turning area and approaches	As Activity 5 above, however if suitable material is available in sufficient quantities it may be possible to discharge by rainbowing or pipeline into the reclamation area.
Activity 7	Dredge glacial till from berth pocket, turning area and approaches	Backhoe dredger Nordic Giant or Wodan (or similar) will dredge and discharge into two or three split hopper barges such as Frigg, Rind, Cork Sand and Long Sand. The split barges will dispose of the dredged material at the Sunk Dredged Channel disposal areas A, B, C or Holme Channel Deep.

Abstract from AMEP Dredging Strategy

4 Matters not yet agreed between the parties

The assessment of development made under separate extant planning applications (matters still under discussion)

- 4.1 However, and although certain alternative use permissions (including PA/2018/114 and PA/2019/497) have recently expired, C.RO is aware that the Applicant has previously taken steps to renew such temporary change of use permissions where they have lapsed. C.RO is of the view that there is no reason to suggest this would not or could not happen again. Indeed, whilst other permissions (including PA/2018/1416) remain extant, C.RO notes the potential future permanence in respect of alternative uses within the Order Limits which are currently authorised for a temporary period only.
- 4.2 The Applicant notes that any change of use will require planning permission (including environmental assessment as appropriate) and C.RO will be entitled to respond to such future applications when they are submitted. The appropriate time for any concerns to be raised by C.RO is when any planning applications are being considered. It is not appropriate for the examination of the proposed material change to include consideration of potential planning applications which may or may not be made in the future, particularly given that the proposed material change does not involve any land-based development.
- 4.3 C.RO currently believes that it is not improbable that the implementation of later stages of the authorised development may be prevented by other permanent uses of areas of land within the Order Limits.

4.4 Taking this into account, C.RO queries whether it would help the examination if the Applicant could provide an updated masterplan or series of masterplans covering development across the entirety of the land within the Order Limits during both construction and operational phases. In the first instance, this would help give credence to the Applicant's current position (i.e. that an 'interim development scenario' does not give rise to more significant environmental effects than have already been assessed for the AMEP scheme as proposed). C.RO is of the view that publication of a series of updated masterplans would also help C.RO, the Examining Board and other interested parties to consider the AMEP proposals on a holistic basis - acknowledging as the Applicant has itself set out in recent correspondence, the rapid pace of change within the renewable energy sector over the last decade.

4.5 For the reasons set out in paragraph 4.2, the Applicant considers it would not be appropriate for updated masterplans showing potential future changes to be considered as part of the examination of the proposed material change.

The impact of changes to the construction methodology resulting in additional construction vessel movements (matters still under discussion)

4.6 C.RO's position remains that a management plan must be utilised to ensure construction vessel movements are controlled and that scheduled commercial traffic retains river priority.

4.7 The parties acknowledge that the consented DCO provides at Schedules 8 and 9 various protections to ensure that a vessel movement management plan is finalised, following consultation with C.RO. The parties acknowledge in this context that the temporal limitations imposed by Paragraph 14(3) to Schedule 8 of the DCO have been extended through the variations made by the Applicant (see DML variation 2, submitted as appendix 1-2 to the UES (APP-102)).

4.8 Whilst this approach provides sufficient protection in respect of the authorised development as it currently stands, C.RO reserves the right to request further protections within the DCO in the event that there is a reasonable prospect of additional construction vessel movements within the Humber Estuary and/or other reasonably foreseeable impacts on vessels accessing the C.RO facility. The parties are continuing to discuss this topic.

The creation of a barge berth and the types of vessels that would use this

4.9 C.RO has requested further information on the types of vessels which would use the revised berth.

4.10 Whilst information on the types of vessels that could use the barge berth to the north of the quay are contained in Section 2.2.2 of the Navigation Risk Assessment (NRA) submitted as Appendix UES 14-1 (APP-144), both parties agree that such modelling has only been undertaken with reference to load-on load-off (Lo-Lo) vessels rather than roll-on roll-off (Ro-Ro) vessels.

4.11 C.RO considers that this is an important point of difference since, in C.RO's opinion, Ro-Ro vessels will be required to turn and approach the barge berth in a completely different manner, thereby increasing the amount of time such vessels would remain within the navigable approach channel to the existing C.RO facility. Coupled with an increased susceptibility to adverse weather and/or tide conditions, the use of slower-moving Ro-Ro vessels has the potential to significantly impact C.RO's existing and future port operations

- 4.12 Although, it has been agreed to carry out a further navigation simulation exercise at the South Tyneside Marine College on 6 January 2022, C.RO remains concerned that the purpose and use of the barge berth has not been fully explained by the Applicant and, therefore, the likelihood of that berth needing to accommodate Ro-Ro vessels, and the impacts likely to arise from the same, both remain uncertain.
- 4.13 The Applicant's advisor in marine matters is Captain Mike Nicholson, a former Humber pilot and former Harbour Master for the Port of Tyne. The Applicant considers it unlikely that the material change will have any significantly different effect on the operation of the C.RO Port compared to the consented scheme. The Applicant has asked C.RO to agree a Schedule of simulations to be carried out on 6 January and is awaiting a response.
- 4.14 To the extent that the position remains unclear, or indeed if the use of Ro-Ro vessels is within the Applicant's contemplation, C.RO reserves the right to request that additional conditions be imposed within the draft DCO Amendment Order to, for example, restrict the use of the barge berth and thereby avoid any adverse effects on existing navigation to and from C.RO's and other facilities in the area.

The Order Limits

- 4.15 The Applicant's position remains that there is no practical need to amend the Order Limits.
- 4.16 C.RO is, however, not aware of any reason why the Order Limits could not be amended so as to exclude the existing rail corridor (on the basis that the Applicant does not intend to carry out any authorised development within that corridor and also to ensure consistency of approach taking account of the Applicant's recent decision to remove Mitigation Area A from the Order Limits).
- 4.17 Ultimately, C.RO is less concerned about whether the Order Limits are adjusted, and simply wishes to ensure that the Applicant demonstrates that the retention of the rail corridor within the Order Limits will not give rise to any material adverse impacts on existing rail operations or capacity, which C.RO benefits from.
- 4.18 The Applicant is not clear what prejudice is foreseen from retention of the original Order Limits and in the absence of any such prejudice the Applicant would not propose to complicate the application by belatedly introducing this unrelated matter into the examination.
- 4.19 Although the Killingholme Branch Line is within the Order limits, it is not generally within the Order Land. In short, save for four discrete parcels of Network Rail land that remained in the Order Land (to enable the Applicant to acquire easements to cross the land at those points) the area was removed from the Order Land following Network Rail's objections to its inclusion the original application in 2012. Put simply, the Applicant has no control whatsoever over the Network Rail railway that passes through C.RO Port and is not seeking to change the rights already granted by the s127 Certificate issued by the Secretary of State and included in the original decision letter.

Protective provisions

- 4.20 C.RO confirmed in its Relevant Representation its position that the existing protective provisions in the DCO for which it has the benefit should continue to remain in force. It was also noted that the need for any further amendments to those protective provisions would be

determined by the outcome of C.RO's ongoing review of the Application submissions and by the outcome of ongoing engagement with the Applicant.

4.21 As identified elsewhere in this draft SoCG, there are matters not yet agreed between the parties. C.RO considers that there are also substantive points of clarification yet to be provided by the Applicant.

4.22 It therefore remains the case that amendments to the protective provisions may need to be sought by C.RO where necessary to control and/or ameliorate any impacts on C.RO's operations likely to arise as a result of the draft DCO Amendment Order. C.RO remains committed to collaborating with the Applicant to identify and appropriately mitigate any such impacts at the earliest opportunity.

Signed on Behalf of ABLE HUMBER PORTS LIMITED

Signature:

Name:

Position:

Date:

Signed on Behalf of C.RO PORTS KILLINGHOLME LIMITED

Signature:

Name:

Position:

Date:

APPENDIX 1

ASSESSMENT OF CONSTRUCTION VESSEL MOVEMENTS IN 2011

Equipment	Application	2013										2014										2015			Total	
		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Vessels importing hydraulic fill																										
TSHD 1	importing fill		3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5																830
Operating Days/Month			23	30	31	31	30	31	30	31																
TSHD 2	importing fill								3,5	3,5	3,5															270
Operating Days/Month									20	30	27															
MC 1	operating only on site		O	O	O	O	O	O	O	O																
Total Vessel Movements per day		0	4	4	4	4	4	7	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Total:
Total Vessel Movements per month		0	81	105	109	109	105	179	210	203	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1099
Dredging vessels																										
TSHD 1	dredging / disposal										16,6	9,1														364
TSHD 3	dredging / disposal	15,4	15,4																							739
Operating Days/Month		30	18								17	9														
BH 1	operating only on site	O												O	O	O	O	O								
SB1	transport to disposal													7,5	7,5	7,5	7,5	7,5								990
SB2	transport to disposal													7,5	7,5	7,5	7,5	7,5								990
SB3	transport to disposal													7,5	7,5	7,5	7,5	7,5								990
Operating Days/Month		8												10	30	31	31	30								
Total Vessel Movements per day		15	15	0	0	0	0	0	0	0	17	9	0	0	23	23	23	23	23	0	0	0	0	0	0	Total:
Total Vessel Movements per month		462	277	0	0	0	0	0	0	0	282	82	0	0	225	675	698	698	675	0	0	0	0	0	0	4073
Supply vessels to the installation rigs																										
GE1_WR	operating only on site	O	O	O	O	O																				
MP 1 + Tug	transporting material	0,6	1	1	1	1								0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,4	0,4		195	
Operating Days/Month		18	31	30	31	9								15	31	31	30	31	30	31	31	28				
GE2_WR	operating only on site	O	O	O	O	O	O	O																		
MP 2 + Tug	transporting material	0,5	0,5	0,6	0,6	0,8	1,3																			113
Operating Days/Month		30	31	30	31	25	20																			
GE3_WR	operating only on site	O	O	O																						
MP 3 + Tug	transporting material	0,5	0,5	0,6																						37
Operating Days/Month		18	31	21																						
Total Vessel Movements per day		1,6	2,0	2,2	1,6	1,8	1,3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,4	0,4	0,0	Total:	
Total Vessel Movements per month		35	62	61	50	29	26	0	0	0	0	0	0	0	5	9	9	9	9	9	9	12	11	0	345	
All vessels																										
Total Vessel Movements per day		17,0	20,9	5,7	5,1	5,3	4,8	7,0	7,0	7,0	16,6	9,1	0,0	0,0	22,5	22,8	22,8	22,8	22,8	0,3	0,3	0,3	0,4	0,4	0,0	
Days/Month		30	31	30	31	31	30	31	30	31	31	28	31	30	31	30	31	31	30	31	30	31	31	28	31	Total:
Total Vessel Movements per month		497	420	166	158	138	131	179	210	203	282	82	0	0	225	680	707	707	684	9	9	9	12	11	0	5518

Legend:

Code	Equipment	Application	Remark
Vessels importing hydraulic fill			
TSHD 1:	TSHD Barent Zanen (8,000 m3)	Importing and placing of selected and hydraulic fill	Approximate sailing distance to location of fill winning area and back: 60 km
TSHD 2:	TSHD Oranje (16,000 m3)	Importing and placing hydraulic fill	Approximate sailing distance to location of fill winning area and back: 60 km
MC 1:	Multicat vessel BKM	Assistance with pipeline connections fo hydraulic fill	O: operating on site within site boundary
Dredging vessels			
TSHD 1:	TSHD Barent Zanen (8,000 m3)	Dredging Alluvium, Sand & Gravel from Berthing pocket, Turning Area and Approaches	Assumed sailing distance to disposal at Humber 2 or 3 and back: 25 km
TSHD 3:	TSHD Sospan Dau (1,400 m3)	Dredging Alluvium from Reclamation Area	Assumed sailing distance to disposal at Humber 2 or 3 and back: 25 km
BH 1:	Back hoe Nordic Giant (Tug assisted)	Dredging Glacial Till	O: operating on site within site boundary
Installation rigs			
Ge1_WR:	Jack-up barge 1	Piling works and anchor installation	O: operating on site within site boundary
Ge2_WR:	Jack-up barge 2	Piling works	O: operating on site within site boundary
Ge3_WR:	Jack-up barge 3	Piling works	O: operating on site within site boundary
Supply vessels to the installation rigs			
SB1:	Split Hopper Barge 1	Transport of dredge material from BH to disposal area	Assumed sailing distance to disposal at Humber 2 or 3 and back: 25 km
SB2:	Split Hopper Barge 2	Transport of dredge material from BH to disposal area	Assumed sailing distance to disposal at Humber 2 or 3 and back: 25 km
SB3:	Split Hopper Barge 3	Transport of dredge material from BH to disposal area	Assumed sailing distance to disposal at Humber 2 or 3 and back: 25 km
MP 1 + Tug:	Material Pontoon 1 (Tug assisted)	Transport & storage of piling material & quay equipment	Location of transshipment point to be defined
MP 2 + Tug:	Material Pontoon 2 (Tug assisted)	Transport & storage of piling material	Location of transshipment point to be defined
MP 3 + Tug:	Material Pontoon 3 (Tug assisted)	Transport & storage of piling material	Location of transshipment point to be defined

