Berwickshire and Northumberland SAC Simple Assessments

Habitats Regulations Assessment document: BNNCSAC – tLSE 001

European Marine Site:	Berwickshire and North Northumberland Coast SAC
Generic sub-feature(s):	Seagrass, Intertidal mud, Intertidal mud & sand, Intertidal Gravel and sand, Intertidal sand (high energy), Mussel beds on mixed and sandy sediments, Intertidal mixed sediments, Tideswept communities, Intertidal bedrock reef, Intertidal boulder and cobble reef, Subtidal bedrock reef, Subtidal boulder and cobble reef, Kelp forest communities & Sub- tidal faunal turfs, Intertidal sea caves, Subtidal sea caves, Subtidal coarse sediment, Subtidal mixed sediment, Subtidal mud, Subtidal sand
Gear type(s):	Commercial diving
NIFCA tLSE type:	Simple
Gear/feature interaction reference(s):	BNNCSAC-001 BNNCSAC-002 BNNCSAC-003 BNNCSAC-004 BNNCSAC-005 BNNCSAC-006 BNNCSAC-007 BNNCSAC-007 BNNCSAC-009 BNNCSAC-010 BNNCSAC-011 BNNCSAC-011 BNNCSAC-012 BNNCSAC-013 BNNCSAC-014 BNNCSAC-015 BNNCSAC-016 BNNCSAC-474

BNNCSAC-475	
BNNCSAC-476	
BNNCSAC-477	

Revision history		
Date	Revision	Editor
24/02/2015	Document created	EM
20/07/2015	QA	SM
10/11/2015	Features amended	SM

Potential for Likely Significant Effect?	No
Justification and evidence	Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this informal process.
	Activity historically does not occur within BNNC SAC (Jon Green pers. comm.)

Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the Berwickshire and North Northumberland Coast SAC?

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
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Date of document completion/'sign-off':	11/11/2015

European Marine Site:	Berwickshire and North Northumberland Coast SAC
Generic sub-feature(s):	Seagrass, Intertidal mud, Intertidal mud & sand, Intertidal Gravel and sand, Intertidal sand (high energy), Mussel beds on mixed and sandy sediments, Intertidal mixed sediments, Tideswept communities, Subtidal bedrock reef, Subtidal boulder and cobble reef, Kelp forest communities & Sub-tidal faunal turfs
Gear type(s):	Bait dragging
NIFCA tLSE type:	Simple
Gear/feature interaction	BNNCSAC-018
reference(s):	BNNCSAC-019
reference(s).	BNNCSAC-020
	BNNCSAC-021
	BNNCSAC-022
	BNNCSAC-023
	BNNCSAC-024
	BNNCSAC-026
	BNNCSAC-027
	BNNCSAC-028
	BNNCSAC-029
	BNNCSAC-030
	BNNCSAC-031

Revision history		
Date	Revision	Editor
20/04/2015	Document created	EM
20/07/2015	QA	SM
10/11/2015	Features amended	SM

Potential for Likely Significant Effect?	No
Justification and evidence	Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this informal process. Activity historically does not occur within the BNNC SAC (Jon Green, pers. comm.)

Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the BNNC SAC?

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes

Date of document completion/'sign-off':	11/11/2015

European Marine Site:	Berwickshire and North Northumberland Coast SAC
Generic sub-feature(s):	Seagrass, Intertidal mud, Intertidal mud & sand, Intertidal Gravel and sand, Intertidal sand (high energy), Mussel beds on mixed and sandy sediments, Intertidal mixed sediments, Tideswept communities, Intertidal bedrock reef and Intertidal boulder and cobble reef
Gear type(s):	Crab tiling
NIFCA tLSE type:	Simple
Gear/feature interaction reference(s):	BNNCSAC-035 BNNCSAC-036 BNNCSAC-037 BNNCSAC-038 BNNCSAC-039 BNNCSAC-040 BNNCSAC-041 BNNCSAC-043 BNNCSAC-044 BNNCSAC-045

Revision history		
Date	Revision	Editor
20/04/2015	Document created	EM
20/07/2015	QA	SM
19/09/2018	Seagrass added as feature	NW

Test for Likely Significant Effect (LSE)

Potential for Likely Significant Effect?	No
Justification and evidence	Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this informal process.
	No current activity within BNNC SAC (Jon Green, pers. comm.). Crab tiling prohibited on seagrass (NIFCA Byelaw 17: Seagrass Protection Byelaw)

Conclusion

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No

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
Date of document completion/'sign-off':	11/11/2015

European Marine Site:	Berwickshire and North Northumberland Coast SAC
Generic sub-feature(s):	Seagrass, Intertidal mud, Intertidal mud & sand, Intertidal Gravel and sand, Intertidal sand (high energy), Mussel beds on mixed and sandy sediments, Intertidal mixed sediments, Tideswept communities, Intertidal bedrock, Intertidal boulder & cobble reef, Subtidal bedrock reef, Subtidal boulder and cobble reef, Kelp forest communities & Sub-tidal faunal turfs, Subtidal coarse sediment, Subtidal mixed sediment, Subtidal mud, Subtidal sand
Gear type(s):	Longline (demersal)
NIFCA tLSE type:	Simple
Gear/feature interaction reference(s):	BNNCSAC-052 BNNCSAC-053 BNNCSAC-054 BNNCSAC-055 BNNCSAC-056 BNNCSAC-057 BNNCSAC-057 BNNCSAC-058 BNNCSAC-060 BNNCSAC-061 BNNCSAC-061 BNNCSAC-062 BNNCSAC-063 BNNCSAC-063 BNNCSAC-065 BNNCSAC-065 BNNCSAC-486 BNNCSAC-487 BNNCSAC-488 BNNCSAC-489

Revision history		
Date	Revision	Editor
20/04/2015	Document created	EM
20/07/2015	QA	SM
10/11/2015	Features amended	SM

Potential for Likely Significant Effect?	No
Justification and evidence	Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this informal process. No current activity within the BNNC SAC (Jon Green, pers. comm.).

Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the BNNC SAC European Marine Site?

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes

Date of document completion/'sign-off':	11/11/2015
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European Marine Site:	Berwickshire and North Northumberland Coast SAC
Generic sub-feature(s):	Seagrass, Intertidal mud, Intertidal mud & sand, Intertidal Gravel and sand, Intertidal sand (high energy), Mussel beds on mixed and sandy sediments, Intertidal mixed sediments, Tideswept communities, Intertidal bedrock reef, Intertidal boulder and cobble reef, Subtidal bedrock reef, Subtidal boulder and cobble reef, Kelp forest communities & Sub- tidal faunal turfs, Grey seal, Subtidal coarse sediment, Subtidal mixed sediment, Subtidal mud, Subtidal sand
Gear type(s):	Drift nets (demersal)
NIFCA tLSE type:	Simple
Gear/feature interaction reference(s):	BNNCSAC-086 BNNCSAC-087 BNNCSAC-088
	BNNCSAC-089 BNNCSAC-090
	BNNCSAC-090 BNNCSAC-091
	BNNCSAC-092 BNNCSAC-094
	BNNCSAC-095
	BNNCSAC-096
	BNNCSAC-097 BNNCSAC-098
	BNNCSAC-098 BNNCSAC-099
	BNNCSAC-102
	BNNCSAC-490
	BNNCSAC-491
	BNNCSAC-492
	BNNCSAC-493

Revision history		
Date	Revision	Editor
20/04/2015	Document created	EM
20/07/2015	QA	SM
10/11/2015	Features amended	SM

Potential for Likely Significant Effect?	No
Justification and evidence	Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this informal process.

Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the BNNC SAC European Marine Site?

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes

Date of document completion/'sign-off':	11/11/2015
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European Marine Site:	Berwickshire and North Northumberland Coast SAC
Generic sub-feature(s): Gear type(s):	Seagrass, Intertidal mud, Intertidal mud & sand, Intertidal Gravel and sand, Intertidal sand (high energy), Mussel beds on mixed and sandy sediments, Intertidal mixed sediments, Tideswept communities, Intertidal bedrock, intertidal boulder and cobble reef, Subtidal bedrock reef, Subtidal boulder and cobble reef, Kelp forest communities & Sub-tidal faunal turfs, Subtidal coarse sediment, Subtidal mixed sediment, Subtidal mud, Subtidal sand
NIFCA tLSE type:	Gill nets
	Simple
Gear/feature interaction reference(s):	
	BNNCSAC-120 BNNCSAC-121
	BNNCSAC-121 BNNCSAC-122
	BNNCSAC-122 BNNCSAC-123
	BNNCSAC-124
	BNNCSAC-125
	BNNCSAC-126
	BNNCSAC-128
	BNNCSAC-129
	BNNCSAC-130
	BNNCSAC-131
	BNNCSAC-132
	BNNCSAC-133
	BNNCSAC-494
	BNNCSAC-495
	BNNCSAC-496
	BNNCSAC-497

Revision history		
Date	Revision	Editor
20/04/2015	Document created	EM
20/07/2015	QA	SM
10/11/2015	Features amended	SM

Potential for Likely Significant Effect?	No
Justification and evidence	Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this informal process. Levels of activity within the BNNC SAC are deemed insufficient to impact features listed.
	Levels of netting activity have declined considerably in recent years, with just one or two boats known to set nets infrequently. In 2015 just one boat submitted a monthly returns form reporting netting activity within the BNNC SAC, although the reliability of this return is dubious. Sightings of gill netters from the NIFCA Patrol Vessel have also dropped considerably in the last 4-5 years and anecdotal evidence from fishermen suggests a significant decline in netting activity as a result of an increase in the population of grey seals off the Northumberland coast, which interfere with the nets, in addition to the introduction of TACs in the 1980s and the resultant shift towards shellfish (Jon Green, pers. comms.)

Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the BNNC SAC European Marine Site?

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes

Date of document completion/'sign-off':	11/11/2015

European Marine Site:	Berwickshire and North Northumberland Coast SAC
Generic sub-feature(s):	Seagrass, Intertidal mud, Intertidal mud & sand, Intertidal Gravel and sand, Intertidal sand (high energy), Mussel beds on mixed and sandy sediments, Intertidal mixed sediments, Tideswept communities, Subtidal bedrock reef, Subtidal boulder and cobble reef, Kelp forest communities & Sub-tidal faunal turfs, Subtidal coarse sediment, Subtidal mixed sediment, Subtidal mud, Subtidal sand
Gear type(s):	Trammel nets
NIFCA tLSE type:	Simple
Gear/feature interaction	BNNCSAC-136
reference(s):	BNNCSAC-137
	BNNCSAC-138
	BNNCSAC-139
	BNNCSAC-140
	BNNCSAC-141
	BNNCSAC-142
	BNNCSAC-144
	BNNCSAC-145
	BNNCSAC-146
	BNNCSAC-147
	BNNCSAC-148
	BNNCSAC-149
	BNNCSAC-498
	BNNCSAC-499
	BNNCSAC-500
	BNNCSAC-501

Revision history		
Date	Revision	Editor
20/04/2015	Document created	EM
20/07/2015	QA	SM
10/11/2015	Features amended	SM

Potential for Likely Significant Effect?	No
Justification and evidence	Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this informal process.
	No current activity within the BNNC SAC (Jon Green, pers. comm.)

Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the BNNC SAC European Marine Site?

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
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Date of document completion/'sign-off':	11/11/2015

Generic sub-feature(s): Seagrass, Intertidal mud, Intertidal mud & sand, Intertidal Gravel and sand, Intertidal sand (high energy), Mussel beds on mixed sandy sediments, Intertidal mixed sedime Tideswept communities, Intertidal bedroo reef, Intertidal boulder and coble reef,	, 4
Subtidal bedrock reef, Subtidal boulder an cobble reef, Kelp forest communities & Su tidal faunal turfs, Subtidal coarse sediment Subtidal mixed sediment, Subtidal mud, Subtidal sandGear type(s):	ll and ents, ck nd ub-
Entangling nets	
NIFCA tLSE type: Simple	
Gear/feature interaction	
reference(s): BNNCSAC-152	
BNNCSAC-153	
BNNCSAC-154	
BNNCSAC-155	
BNNCSAC-156	
BNNCSAC-157	
BNNCSAC-158	
BNNCSAC-160	
BNNCSAC-161	
BNNCSAC-162 BNNCSAC-163	
BNNCSAC-163 BNNCSAC-164	
BNNCSAC-164 BNNCSAC-165	
BNNCSAC-105 BNNCSAC-502	
BNNCSAC-502 BNNCSAC-503	
BNNCSAC-505 BNNCSAC-504	
BNNCSAC-505	

Revision history		
Date	Revision	Editor
20/04/2015	Document created	EM
23/07/2015	QA	SM
10/11/2015	Features amended	SM

Potential for Likely Significant Effect?	No
Justification and evidence	 Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this informal process. Infrequent, low level activity within BNNC SAC - insufficient to impact features listed. Only one boat known to use entangling nets off Berwick; activity infrequent and not currently being fished following consultation with
	fisherman in question (Jon Green, pers. comm.)

Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the BNNC SAC European Marine Site?

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
Date of document completion/'sign-off':	11/11/2015

European Marine Site:	Berwickshire and North Northumberland Coast SAC
Generic sub-feature(s):	Seagrass, Intertidal mud, Intertidal mud & sand, Intertidal Gravel and sand, Intertidal sand (high energy), Mussel beds on mixed and sandy sediments, Intertidal mixed sediments, Tideswept communities, Intertidal bedrock reef, Intertidal boulder and cobble reef, Subtidal bedrock reef, Subtidal boulder and cobble reef, Kelp forest communities & Sub- tidal faunal turfs, Subtidal coarse sediment, Subtidal mixed sediment, Subtidal mud, Subtidal sand
Gear type(s):	Cuttle pots
NIFCA tLSE type:	Simple
Gear/feature interaction	BNNCSAC-168
reference(s):	BNNCSAC-169
	BNNCSAC-170
	BNNCSAC-171
	BNNCSAC-172
	BNNCSAC-173
	BNNCSAC-174
	BNNCSAC-176 BNNCSAC-177
	BNNCSAC-177 BNNCSAC-178
	BNNCSAC-178 BNNCSAC-179
	BNNCSAC-175 BNNCSAC-180
	BNNCSAC-181
	BNNCSAC-506
	BNNCSAC-507
	BNNCSAC-508
	BNNCSAC-509

Revision history		
Date	Revision	Editor
20/04/2015	Document created	EM
23/07/2015	QA	SM
10/11/2015	Features amended	SM

Potential for Likely Significant Effect?	No
Justification and evidence	Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this informal process.
	Activity historically does not occur within the BNNC SAC (Jon Green, pers. comm.)

Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the BNNC SAC European Marine Site?

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
Date of document completion/'sign-off':	11/11/2015

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European Marine Site:	Berwickshire and North Northumberland Coast SAC
Generic sub-feature(s):	Intertidal mud, Intertidal mud & sand, Intertidal Gravel and sand, Intertidal sand (high energy), Intertidal mixed sediments,
Gear type(s):	Subtidal mud
NIFCA tLSE type:	Pots/creels (crustacean/gastropods)
Gear/feature interaction	Simple
reference(s):	BNNCSAC-186
	BNNCSAC-187
	BNNCSAC-188
	BNNCSAC-189
	BNNCSAC-191
	BNNCSAC-512

Revision history		
Date	Revision	Editor
20/04/2015	Document created	EM
23/07/2015	QA	SM

Test for Likely Significant Effect (LSE)

Potential for Likely Significant Effect?	No	
Justification and evidence	n and Synthesis of evidence and local knowledge informing this decisio occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutor authorities. Natural England (CS) was involved with this informal process.	
	No interaction of activity with features listed within BNNC SAC.	
	No commercial potting on subtidal mud or within the intertidal zone. Subtidal mud within the BNNC SAC is within areas of the shallow inlets and bays feature, which are close inshore and are not prosecuted. There may be low levels of recreational activity in intertidal areas over neap tides but levels of activity not deemed	

sufficient to cause adverse impact (and recreational activities fall
outside the Article 6 process) (Jon Green, pers. comms.)

Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the BNNC SAC European Marine Site?

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes

Date of document completion/'sign-off':	11/11/2015

European Marine Site:	Berwickshire and North Northumberland Coast SAC
Generic sub-feature(s):	Seagrass, Intertidal mud, Intertidal mud & sand, Intertidal Gravel and sand, Intertidal sand (high energy), Mussel beds on mixed and sandy sediments, Intertidal mixed sediments, Grey seal, Tideswept communities, Intertidal bedrock reef, Intertidal boulder and cobble reef, Subtidal bedrock reef, Subtidal boulder and cobble reef, Kelp forest communities & Sub-tidal faunal turfs, Subtidal coarse sediment, Subtidal mixed sediment, Subtidal mud, Subtidal sand
Gear type(s):	Fish traps
NIFCA tLSE type:	Simple
Gear/feature interaction reference(s):	BNNCSAC-195 BNNCSAC-196 BNNCSAC-197 BNNCSAC-198 BNNCSAC-199 BNNCSAC-200 BNNCSAC-201 BNNCSAC-201 BNNCSAC-204 BNNCSAC-204 BNNCSAC-463 BNNCSAC-464 BNNCSAC-465 BNNCSAC-466 BNNCSAC-467 BNNCSAC-468 BNNCSAC-514 BNNCSAC-515 BNNCSAC-516 BNNCSAC-517

Revision history		
Date	Revision	Editor
20/04/2015	Document created	EM
23/07/2015	QA	SM
10/11/2015	Features added	SM

Potential for Likely Significant Effect?	No
Justification and evidence	Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this informal process.
	Activity historically does not occur within the BNNC SAC. Some fish may be caught as bycatch in larger lobster pots, but historically fish traps have not been used in this area (Jon Green pers. comm.).

Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the BNNC SAC European Marine Site?

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes

Date of document completion/'sign-off':	11/11/2015

European Marine Site:	Berwickshire and North Northumberland Coast SAC	
Generic sub-feature(s):	Seagrass, Intertidal mud, Intertidal mud & sand, Intertidal Gravel and sand, Intertidal sand (high energy), Mussel beds on mixed and sandy sediments, Intertidal mixed sediments, Tideswept communities, Intertidal bedrock reef, Intertidal boulder and cobble reef	
Gear type(s):	Intertidal handwork from vessel	
NIFCA tLSE type:		
Gear/feature interaction reference(s):	Simple	
	BNNCSAC-205 BNNCSAC-206 BNNCSAC-207	
	BNNCSAC-208 BNNCSAC-209 BNNCSAC-210	
	BNNCSAC-211 BNNCSAC-213 BNNCSAC-214	
	BNNCSAC-215	

Revision history		
Date	Revision	Editor
20/04/2015	Document created	EM
23/07/2015	QA	SM
19/09/2018	Seagrass added as feature	NW

Potential for Likely Significant Effect?	No
Justification and evidence	Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this informal process.

Conclusion

Has Natural England been formally consulted on this tLSE (and do they agree)	Yes
Date of document completion/'sign-off':	11/11/2015

European Marine Site:	Berwickshire and North Northumberland Coast SAC
Generic sub-feature(s):	Intertidal mud, Intertidal mud & sand, Intertidal Gravel and sand, Intertidal sand (high energy), Intertidal mixed sediments, Tideswept communities
Gear type(s):	Intertidal handwork (access from land)
NIFCA tLSE type:	Simple
Gear/feature interaction	BNNCSAC-223
reference(s):	BNNCSAC-224
	BNNCSAC-225
	BNNCSAC-226
	BNNCSAC-228
	BNNCSAC-586

Revision history		
Date	Revision	Editor
20/04/2015	Document created	EM
23/07/2015	QA	SM
12/09/2018	Document revised and agreed with NE	NW AA CLS

Potential for Likely	No
Significant Effect?	
Justification and evidence	Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this informal process.
	No current activity on listed features within BNNC SAC. Intertidal handwork within the BNNC SAC predominantly targets winkles, mussels and lobster, which do not occur on these habitats (Jon Green, pers. comm.).

Hand gathering prohibited on seagrass: NIFCA Byelaw 17: Seagrass protection byelaw.
Within the site <i>Sallicornia</i> sp. are present, Natural England byelaws prohibit collection of these species within the Lindisfarne NNR.
Hand gathering on mussel beds regulated by private fishery.

Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the BNNC SAC European Marine Site?

No

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
Date of document completion/'sign-off':	11/11/2015

European Marine Site:	Berwickshire and North Northumberland Coast SAC
Generic sub-feature(s):	Intertidal sand (high energy), Tideswept communities, Intertidal bedrock reef, Intertidal boulder and cobble reef
Gear type(s):	Digging with forks
NIFCA tLSE type:	Simple
Gear/feature interaction	BNNCSAC-237
reference(s):	BNNCSAC-240
	BNNCSAC-241
	BNNCSAC-242

Revision history		
Date	Revision	Editor
22/04/2015	Document created	EM
23/07/2015	QA	SM

Potential for Likely Significant Effect?	No
Justification and evidence	Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this informal process.
	No interaction of activity with features listed within BNNC SAC (Jon Green pers. comm.)

Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the BNNC SAC European Marine Site?

Has Natural England been formally consulted on this tLSE (and do they agree)	Yes

n/'sign-off' 11/11/2015
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European Marine Site:	Berwickshire and North Northumberland Coast SAC
Generic sub-feature(s):	Grey seal
Gear type(s):	Drift nets (pelagic)
NIFCA tLSE type:	Simple
Gear/feature interaction reference(s):	BNNCSAC-418

Revision history		
Date	Revision	Editor
23/04/2015	Document created	EM
23/07/2015	QA	SM

Test for Likely Significant Effect (LSE)

Potential for Likely Significant Effect?	No
Justification and evidence	Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this informal process.
	Only drift net fishery within the district is for Migratory species (Salmon & Sea trout), which is regulated by the Environment Agency (Jon Green, pers. comm.)

Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the BNNC SAC European Marine Site?

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes

Date of document completion/'sign-off':	11/11/2015

European Marine Site:	Berwickshire and North Northumberland Coast SAC
Generic sub-feature(s):	Intertidal mud, Intertidal mud & sand, Intertidal gravel & sand, Intertidal sand (high energy), Mussel beds on mixed and sandy sediments, Intertidal mixed sediments, Brittlestar beds, Tideswept communities, Intertidal bedrock reef, Intertidal boulder and cobble reef, Subtidal bedrock reef, Subtidal boulder and cobble reef, Kelp forest communities & Sub-tidal faunal turfs, Grey seal, Subtidal coarse sediment, Subtidal mixed sediment, Subtidal mud, Subtidal sand
Gear type(s):	Fyke and stake nets
NIFCA tLSE type:	Simple
Gear/feature interaction	BNNCSAC-674
reference(s):	BNNCSAC-675
	BNNCSAC-676
	BNNCSAC-677
	BNNCSAC-678
	BNNCSAC-679
	BNNCSAC-680
	BNNCSAC-681
	BNNCSAC-682
	BNNCSAC-683
	BNNCSAC-684
	BNNCSAC-685
	BNNCSAC-686
	BNNCSAC-689
	BNNCSAC-690
	BNNCSAC-691 BNNCSAC-692
	DIVINCJAC-092

	BNNCSAC-693

Revision history		
Date	Revision	Editor
12/11/2015	Document created	SM

Potential for Likely Significant Effect?	No
Justification and evidence	Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this informal process.
	The only remaining licensed berths for fyke and stake nets in the district are located at Goswick sands (north side of Holy Island). These target migratory fish species and are therefore regulated by the Environment Agency (Jon Green, pers. comm.).

Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the BNNC SAC European Marine Site?

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
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Date of document completion/'sign-off':	11/11/2015

European Marine Site:	Berwickshire and North Northumberland Coast SAC
Generic sub-feature(s):	Intertidal mud, Intertidal mud & sand, Intertidal gravel & sand, Intertidal sand (high energy), Mussel beds on mixed and sandy sediments, Intertidal mixed sediments, Brittlestar beds, Tideswept communities, Intertidal bedrock reef, Intertidal boulder and cobble reef, Subtidal bedrock reef, Subtidal boulder and cobble reef, Kelp forest communities & Sub-tidal faunal turfs, Grey seal, Subtidal coarse sediment, Subtidal mixed sediment, Subtidal mud, Subtidal sand
Gear type(s):	Beach/ring nets
NIFCA tLSE type:	Simple
Gear/feature interaction reference(s):	BNNCSAC-104 BNNCSAC-105 BNNCSAC-106 BNNCSAC-107 BNNCSAC-108 BNNCSAC-109 BNNCSAC-109 BNNCSAC-110 BNNCSAC-111 BNNCSAC-112 BNNCSAC-113 BNNCSAC-113 BNNCSAC-114 BNNCSAC-115 BNNCSAC-115 BNNCSAC-116 BNNCSAC-119 BNNCSAC-582 BNNCSAC-583 BNNCSAC-583 BNNCSAC-583

Revision history		
Date	Revision	Editor
11/12/2015	Document created	SM

Potential for Likely Significant Effect?	No
Justification and evidence	Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this informal process. No current activity within the BNNC SAC(or the NIFCA district as a whole) (Jon Green, pers. comm.).

Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the BNNC SAC European Marine Site?

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
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Date of document completion/'sign-off':	11/12/2015

European Marine Site:	Berwickshire and North Northumberland Coast SAC
Generic sub-feature(s):	Seagrass, Intertidal mud, Intertidal mud & sand, Intertidal Gravel and sand, Intertidal sand (high energy), Mussel beds on mixed and sandy sediments, Intertidal mixed sediments, Tideswept communities, Intertidal bedrock reef, Intertidal boulder and cobble reef, Subtidal bedrock reef, Subtidal boulder and cobble reef, Kelp forest communities & Sub-tidal faunal turfs, Subtidal coarse sediment, Subtidal mixed sediment, Subtidal mud, Subtidal
Gear type(s):	sand
tLSE type:	Mussels/clams/oysters, Pump scoop (cockles), Suction (cockles), Tractor
Gear/feature interaction reference(s):	Simple
	BNNCSAC-589 BNNCSAC-590 BNNCSAC-591 BNNCSAC-592 BNNCSAC-593 BNNCSAC-594 BNNCSAC-595 BNNCSAC-597 BNNCSAC-598 BNNCSAC-599 BNNCSAC-600 BNNCSAC-60 BNNCSAC-602 BNNCSAC-606 BNNCSAC-607 BNNCSAC-608 BNNCSAC-609 BNNCSAC-610 BNNCSAC-617 BNNCSAC-612 BNNCSAC-613 BNNCSAC-614 BNNCSAC-615 BNNCSAC-616 BNNCSAC-618 BNNCSAC-619 BNNCSAC-620 BNNCSAC-621 BNNCSAC-622 BNNCSAC-623 BNNCSAC-627 BNNCSAC-628 BNNCSAC-629 BNNCSAC-630 BNNCSAC-631 BNNCSAC-632 BNNCSAC-633 BNNCSAC-630 BNNCSAC-635 BNNCSAC-632 BNNCSAC-637 BNNCSAC-639 BNNCSAC-635 BNNCSAC-636 BNNCSAC-642 BNNCSAC-643 BNNCSAC-640 BNNCSAC-641 BNNCSAC-642 BNNCSAC-650 BNNCSAC-651 BNNCSAC-648 BNNCSAC-642 BNNCSAC-650 BNNCSAC-651 BNNCSAC-652 BNNCSAC-653 BNNCSAC-654 BNNCSAC-655 BNNCSAC-656 BNNCSAC-657 BNNCSAC-658 BNNCSAC-666 BNNCSAC-656 BNNCSAC-662 BNNCSAC-658 BNNCSAC-664 BNNCSAC-665 BNNCSAC-662 BNNCSAC-658 BNNCSAC-664 BNNCSAC-665 BNNCSAC-662 BNNCSAC-658 BNNCSAC-664 BNNCSAC-665 BNNCSAC-662 BNNCSAC-657 BNNCSAC-657 BNNCSAC-655 BNNCSAC-655 BNNCSAC-662 BNNCSAC-658 BNNCSAC-664 BNNCSAC-655 BNNCSAC-662 BNNCSAC-657 BNNCSAC-657 BNNCSAC-655 BNNCSAC-655 BNNCSAC-662 BNNCSAC-658 BNNCSAC-664 BNNCSAC-665 BNNCSAC-662 BNNCSAC-658 BNNCSAC-664 BNNCSAC-665 BNNCSAC-662 BNNCSAC-657 BNNCSAC-657 BNNCSAC-655 BNNCSAC-655 BNNCSAC-662 BNNCSAC-657 BNNCSAC-657 BNNCSAC-655 BNNCSAC-655 BNNCSAC-662 BNNCSAC-657 BNNCSAC-657 BNNCSAC-657 BNNCSAC-655 BNNCSAC-655 BNNCSAC-662 BNNCSAC-658 BNNCSAC-664 BNNCSAC-665 BNNCSAC-662 BNNCSAC-657 BNNCSAC-657 BNNCSAC-655

Revision	Revision history	
Date	Revision	Editor
11/12/2015	Document created	SM
11/12/2015	Document revised and agreed	CLS
30/10/2017	Document revised due the changes to Byelaw 7: Prohibition of the use of Mobile Fishing Gear within the English section of the Berwickshire and North Northumberland Coast Special Area of Conservation (SAC)	NW JG CLS

Potential for Likely Significant Effect?	No
Justification and evidence	This tLSE was informed by the previous LSE and appropriate assessments carried out for Berwickshire and North Northumberland Coast SAC, Coquet Island SPA, Farne Islands SPA, Lindisfarne SPA and Northumbria Coast SPA.
	Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this informal process.
	No current activity within Berwickshire and North Northumberland Coast SAC or the surrounding area/NIFCA district. (Jon Green, pers. comms.). Mobile gear activity is regulated within the BNNC SAC through Byelaw 7: Prohibition of the use of Mobile Fishing Gear within the English section of the Berwickshire and North Northumberland Coast Special Area of Conservation (SAC). Therefore, this activity is prohibited within the site. This document will be reviewed should any changes occur to the regulation.

Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the BNNC SAC European Marine Site?

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
Date of document completion/'sign-off':	15/11/2018

European Marine Site:	Berwickshire and North Northumberland Coast SAC
Generic sub-feature(s): Gear type(s):	Seagrass, Intertidal mud, Intertidal mud & sand, Intertidal Gravel and sand, Intertidal sand (high energy), Mussel beds on mixed and sandy sediments, Intertidal mixed sediments, Tideswept communities, Intertidal bedrock reef, Intertidal boulder and cobble reef, Subtidal bedrock reef, Subtidal boulder and cobble reef, Kelp forest communities & Sub-tidal faunal turfs, Subtidal coarse sediment, Subtidal mixed sediment, Subtidal mud, Subtidal sand
tLSE type:	Dredges (towed): Scallops
	Simple
Gear/feature interaction	
reference(s):	BNNCSAC-249 BNNCSAC-250 BNNCSAC-251 BNNCSAC-252 BNNCSAC-253 BNNCSAC-254 BNNCSAC-255 BNNCSAC-257 BNNCSAC-258 BNNCSAC-259 BNNCSAC-260 BNNCSAC-261 BNNCSAC-262 BNNCSAC-530 BNNCSAC-531 BNNCSAC-532 BNNCSAC-533

Revision history		
Date	Revision	Editor
11/12/2015	Document created	SM
11/12/2015	Document revised and signed off	CLS
30/10/2017	Document revised due the changes to Byelaw 7: Prohibition of the use of Mobile Fishing Gear within the English section of the Berwickshire and North Northumberland Coast Special Area of Conservation (SAC)	NW JG CLS
15/11/2017	Document agreed	NW AA CLS

Potential for Likely Significant Effect?	No
Justification and evidence	This tLSE was informed by the previous LSE and appropriate assessments
	carried out for Berwickshire and North Northumberland Coast SAC, Coquet
	Island SPA, Farne Islands SPA, Lindisfarne SPA and Northumbria Coast SPA.

Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this informal process.
Mobile gear activity is regulated within the BNNC SAC through Byelaw 7: Prohibition of the use of Mobile Fishing Gear within the English section of the Berwickshire and North Northumberland Coast Special Area of Conservation (SAC). Therefore, this activity is prohibited within the site. This document will be reviewed should any changes occur to the regulation.

Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the BNNC SAC European Marine Site?

No

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
Date of document completion/'sign-off':	15/11/2017

Annex

In 2016, a revision to Byelaw 7: Prohibition of the use of Mobile Fishing Gear within the English section of the Berwickshire and North Northumberland Coast Special Area of Conservation (SAC) were proposed following extensive mapping of protected features. Three areas of the BNNC SAC are intended to be opened only to light otter trawling activity. Dredging, which is heavy mobile gear, remains prohibited within the site, and so will not affect any protected features of the site.

European Marine Site:	Berwickshire and North Northumberland Coast SAC
Generic sub-feature(s):	Seagrass
Gear type(s):	Intertidal handwork (access from land)
NIFCA tLSE type:	Simple
Gear/feature interaction reference(s):	BNNCSAC-222

Revision history		
Date	Revision	Editor
19/09/2018	Document created	NW

Test for Likely Significant Effect (LSE)

Potential for Likely Significant Effect?	No
Justification and evidence	Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this informal process. Hand gathering prohibited on seagrass: NIFCA Byelaw 8: Seagrass protection byelaw.

Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the BNNC SAC European Marine Site?

agree)?	Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
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Date of document completion/'sign-off':	11/11/2015

Revision history		
Date	Revision	Editor
11/12/2015	Document created	SM
11/12/2015	2/2015 Document revised and signed off CLS	
30/10/2017 Document revised due the changes to Byelaw 7: Prohibition of the NW JG		NW JG CLS
	use of Mobile Fishing Gear within the English section of the	ULS

	Berwickshire and North Northumberland Coast Special Area of Conservation (SAC)	
15/11/2017	Document agreed	NW AA CLS

Potential for Likely Significant Effect?	No
Justification and evidence	This tLSE was informed by the previous LSE and appropriate assessments carried out for Berwickshire and North Northumberland Coast SAC, Coquet Island SPA, Farne Islands SPA, Lindisfarne SPA and Northumbria Coast SPA.
	Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this informal process.
	No current activity within the Berwickshire and North Northumberland Coast SAC or the surrounding area/NIFCA district. (Jon Green, pers. comms.). Mobile gear activity is regulated within the BNNC SAC through Byelaw 7: Prohibition of the use of Mobile Fishing Gear within the English section of the Berwickshire and North Northumberland Coast Special Area of Conservation (SAC). Therefore, this activity is prohibited within the site. This document will be reviewed should any changes occur to the regulation.

Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the Northumberland Marine SPA?

No

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
Date of document completion/'sign-off':	15/11/2017

Annex – HRA Revision 2018

In 2016, a revision to Byelaw 7: Prohibition of the use of Mobile Fishing Gear within the English section of the Berwickshire and North Northumberland Coast Special Area of Conservation (SAC) were proposed following extensive mapping of protected features. Three areas of the BNNC SAC are intended to be opened only to light otter trawling activity. Anchor seine and fly seine activity remains prohibited within the site, and so will not affect any protected features of the site.

European Marine Site:	Berwickshire and North Northumberland Coast SAC	
Generic sub-feature(s):	Seagrass, Intertidal mud, Intertidal mud & sand, Intertidal Gravel and sand, Intertidal sand (high energy), Mussel beds on mixed ar sandy sediments, Intertidal mixed sediments Tideswept communities, Intertidal bedrock reef, Intertidal boulder and cobble reef, Subtidal bedrock reef, Subtidal boulder and cobble reef, Kelp forest communities & Sub- tidal faunal turfs, Grey seal, Subtidal coarse sediment, Subtidal mixed sediment, Subtidal mud, Subtidal sand	
Gear type(s):	Towed (demersal): light otter trawl, heavy otter trawl	
tLSE type:	Simple	
Gear/feature interaction reference(s):	BNNCSAC-266 BNNCSAC-267 BNNCSAC-268 BNNCSAC-269 BNNCSAC-270 BNNCSAC-271 BNNCSAC-272 BNNCSAC-273 BNNCSAC-275 BNNCSAC-276 BNNCSAC-277 BNNCSAC-278 BNNCSAC-279 BNNCSAC-282 BNNCSAC-283 BNNCSAC-284 BNNCSAC-285 BNNCSAC-286 BNNCSAC-287 BNNCSAC-288 BNNCSAC-289 BNNCSAC-290 BNNCSAC-292 BNNCSAC-293 BNNCSAC-294 BNNCSAC-295 BNNCSAC-296 BNNCSAC-299 BNNCSAC-534 BNNCSAC-535 BNNCSAC-536 BNNCSAC-537 BNNCSAC-538 BNNCSAC-539 BNNCSAC-540 BNNCSAC-541	

Revision history		
Date	Revision	Editor
11/12/2015	Document created	SM
11/12/2015	Document revised and agreed CLS	
30/10/2017	D17 Document revised due the changes to Byelaw 7: Prohibition of the use of Mobile Fishing NW JG CLS Gear within the English section of the Berwickshire and North Northumberland Coast Special Area of Conservation (SAC)	
15/11/2017	Document agreed	NW AA CLS

Justification and evidence	This tLSE was informed by the previous LSE and appropriate assessments carried out for Berwickshire and North Northumberland Coast SAC, Coquet Island SPA, Farne Islands SPA, Lindisfarne SPA and Northumbria Coast SPA.
	Synthesis of evidence and local knowledge informing this decision occurred between January 2014 and the date of this document's creation with stakeholders (where appropriate) and other statutory authorities. Natural England (CS) was involved with this informal process.
	Mobile gear activity is regulated within the BNNC SAC through Byelaw 7: Prohibition of the use of Mobile Fishing Gear within the English section of the Berwickshire and North Northumberland Coast Special Area of Conservation (SAC). Therefore, this activity is prohibited within the site. This document will be reviewed should any changes occur to the regulation.

Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the BNNC SAC European Marine Site?

No

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
Date of document completion/'sign-off':	15/11/2017

Annex 1

In 2016, a revision to Byelaw 7: Prohibition of the use of Mobile Fishing Gear within the English section of the Berwickshire and North Northumberland Coast Special Area of Conservation (SAC) were proposed following extensive mapping of protected features. Three areas of the BNNC SAC are intended to be opened to light otter trawling activity only. Heavy otter trawl activity will remain prohibited and so will not affect the features of the site. While activity will only be permitted to be carried out in areas where reef features are not present, a detailed tLSE has been carried to out to confirm that light otter trawling activity will not have an adverse impact on reef features and on grey seal (BNNCSAC – tLSE 030).

European Marine Site:	Berwickshire and North Northumberland Coast SAC	
Generic sub-feature(s):	Intertidal biogenic reefs: mussel beds, Intertidal coarse sediment, Intertidal mixed sediments, <i>Salicornia</i> and other annuals colonising mud and sand, Atlantic salt meadows	
Gear type(s):	Digging with forks	
tLSE type:	Simple	
Gear/feature interaction reference(s):	BNNCSAC-238, BNNCSAC-472, BNNCSAC-473, BNNCSAC-694 BNNCSAC-695	

Revision history			
Date	Revision	Editor	
22/10/2021	Document created and drafted. Features moved from Detailed assessment BNNC-tLSE 021.	ВН	
01/12/2021	Features agreed with Natural England and draft revised.	CS BH AA	
18/01/2022	Document revised and agreed.	CS BH AA	

Test for Likely Significant Effect (LSE)

Potential for Likely Significant Effect?	No.
Justification and evidence	Bait digging (digging with forks) does no co-occur with these features within the BNNC SAC.
	Mussel beds are only in areas on the east side of Fenham Flats and the south and west of Holy Island, all within the Lindisfarne National Nature Reserve (LNNR). There was another mussel bed at Budle Bay until recently, however this bed no longer exists, potentially due to changes in the topography of the shallow inlet and bay coupled with illegal collection. Apart from a voluntary bait collection zone near the causeway, located away from the mussel beds, bait collection and hand gathering are prohibited within the LNNR under a Natural England byelaw. The larger beds at Fenham Flats are particularly difficult to access, and the mussel bed habitat is not ideal for bait digging therefore this activity does not overlap with the feature.

Bait digging does not occur on intertidal coarse sediments. Intertidal coarse sediments are comprised of shingle and gravel, sometimes interspersed with sand and empty shells. This habitat is unstable and few species tolerate the harsh environment, for example small burrowing amphipods and crustaceans. <i>A. marina</i> (lugworm, the main target species of bait digging) is commonly found in fine sand and muddy sand, and scarcely, or not found at all, in fine mud, gravel, and coarse sand (Bruce et al., 1963; Longbottom, 1970). This sub-feature will therefore not co-occur with bait digging for polychaete worms.
Intertidal mixed sediment consists of unsorted gravels, rocks, sands and mud and is found in variable energy environments. Mixed sediments which are predominantly muddy tend to support infaunal communities which are similar to those of mud and sandy shores. There are broad transition areas from mud or sandflats to areas with mixed sediments including more sand and gravel, and again no definite boundary between mixed sediments and stable cobbles and boulders. This can make defining areas of mixed sediment difficult. Within the BNNC the areas classified as 'Littoral mixed sediments' (Eunis habitat classification) are within the LNNR at Fenham Flats and near the coast at Goswick, where the Natural England byelaw prohibiting bait collection prevents this activity. Access is difficult, and no bait digging has been recorded by NIFCA officers.
Bait digging is unlikely to occur on salt marsh habitats (features <i>Salicornia</i> and other annuals, and Atlantic salt meadows). Within the BNNC SAC salt marshes mainly occur in Budle Bay and Fenham Flats and coastal areas in the LNNR where bait digging is prohibited. The harvesting of <i>Salicornia</i> is also prohibited and it is harvested by hand so does not come into this assessment. The extent figure for salt marshes in the BNNC (233.79 ha) is for both saltmarsh features combined as there no data available that differentiates between the two habitats (Designated Sites). <i>Salicornia</i> is found predominantly in the pioneer saltmarsh, where there is a transition from the extensive intertidal sand and mudflats, and can also be found on sand and muddy sand where salt marsh does not occur. Salicornia could therefore co-occur with bait digging, however not within the LNNR due to the NE byelaw.
Other locations of salt marshes in the BNNC SAC such as the Tweed Estuary and near Long Nanny, at Beadnell, have no bait digging activity recorded on NIFCA patrols or anecdotally. Therefore this activity does not overlap with these features. Moreover, saltmarsh is biodiverse and in good condition across much of the Lindisfarne SSSI.

Conclusion

Is the proposal likely to have a significant effect 'alone or in combination' on the BNNC SAC European Marine Site?

Has Natural England been formally consulted on this tLSE (and do they agree)?	Yes
Date of document completion/'sign-off':	18/01/2022
Date of document completion/ sign-on .	10/01/2022