## **MARINE AGGREGATES**

THE CROWN ESTATE LICENCES

**SUMMARY OF STATISTICS 2022** 

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NC Non confidential

### **ACCOMPANYING NOTES**

- 1. These statistics refer to removal of sand and gravel from the bed of the English and Welsh Territorial Sea and Continental Shelf, under licence from The Crown Estate Commissioners. Removals from areas not in The Crown Estate ownership are not included in these statistics, nor are dredged materials removed purely for navigational reasons and not used beneficially.
- 2. All the statistics relate to royalty returns for the 2022 calendar year.
- 3. All permitted and actual extraction figures are expressed in metric tonnes. A conversion factor of 1.73 for aggregate and 1.5 for sand, has been applied where necessary, to convert cubic metres to metric tonnes.
- 4. The reported permitted removal tonnages shown within this report refers to the tonnage permitted within The Crown Estate production agreement. This is correct as at 31 December 2022.
- 5. The tonnages exclude corrections relating to late declarations and those identified during the audits.
- 6. The regional landing statistics totals will not equate to the amount dredged from each region, due to the presence of the export market and movement of aggregate to meet differing home market demands.
- 7. The county landing statistics for England are based on ceremonial counties and preserved counties for Wales.
- 8. An Official Port Listing is included (pages 17-18), which illustrates the individual landing locations (current and historic) and the standard name used within this document.

## Summary 2022

## 1. Regional Dredging Statistics

**Licences to Dredge Marine Minerals** 

Dredging P	Permitted Primary	Rivers and	Secondary Ag	Total			
Area Removal *		Aggregates	Miscellaneous	Beach Nourishment	Reclamation Fill	Removal	
				600 10-			
Humber	6,875,000	3,691,629	-	690,437	-	4,382,066	
East Coast	7,125,000	3,598,657	-		-	3,598,657	
Thames Estuary	4,350,000	1,694,808	-		-	1,694,808	
East English Channel	9,916,667	4,536,225	-	77,264	-	4,613,489	
South Coast	8,125,000	3,652,781	-	20,408	-	3,673,189	
South West	2,799,998	1,295,116	-	45,829	-	1,340,945	
North West	700,000	217,884	-	976,539	-	1,194,423	
Total	39,891,665	18,687,101		1,810,477		20,497,578	
2. Regional Landing Statistics				3. National Landing S	tatistics - Primary	Aggregate	
Humber / North East		1,281,774		England		13,354,51	
East Coast		443,773		Wales		639,29	
Thames Estuary		7,886,432		Belgium		1,441,62	
East English Channel		655,872		France		166,64	
South Coast		2,214,928		Netherlands		3,085,02	
South West		1,293,147					
North West		217,884					
Export		4,693,291					
Primary Aggregates Total		18,687,101	Priı	mary Aggregates Total	_	18,687,101	
Beach Nourishment / Reclamation Fill / R	Rivers and Misc	1,810,477				-,,	
TOTAL LANDED		20,497,578					

<sup>\*1</sup> Relates to Average Annual Tonnages (total tonnage / term). This does not include specific permitted tonnages for Secondary Aggregates only.

Tonnages exclude corrections. See note 5 on page 1.

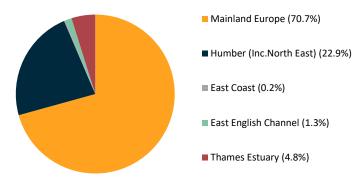
## The Humber region

#### Tonnage delivered to landing locations in the region

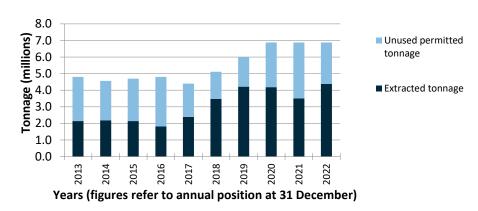
Landing locations	2022 tonnages		
Blyth	38,748		
River Humber Wharves	330,575		
River Tees Wharves	553,842		
River Tyne Wharves	358,609		
Humber / North East Total	1,281,774		

#### Delivery of marine aggregates to the region ■ Secondary use from 2.5 licences (suoillim) 2.0 Blyth ■ River Humber wharves **Lounage** 1.0 ■ River Tyne wharves 0.0 River Tees wharves 2013 2015 2017 2018 2019 2020 2022 2021 Years (figures refer to calendar year)

## During 2022 material extracted from the region was delivered to:



#### Permitted and extracted tonnage



3.69

million tonnes of primary aggregate were extracted out of the permitted
6.87 million tonnes from 10
licences\*

0.69

million tonnes of aggregate were extracted for Beach Nourishment

16

Current estimates suggest there are **16 years** of primary aggregate production permitted \* 1

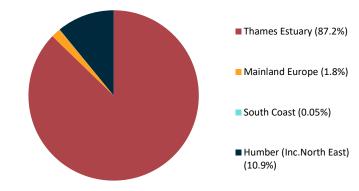
Current application for a licence could, if approved **increase** the permitted tonnage by **0.5 million tonnes** annually \*

## The East Coast region

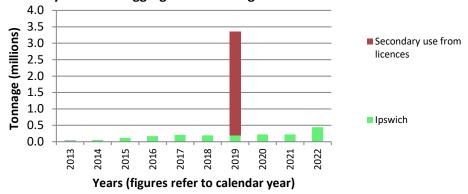
#### Tonnage delivered to landing locations in the region

Landing locations	2022 tonnages
Ipswich Wharves	443,773
East Coast Total	443,773

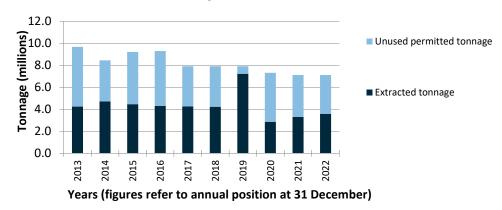
# During 2022 material extracted from the region was delivered to:



#### Delivery of marine aggregates to the region



### Permitted and extracted tonnage



3.6

million tonnes of primary aggregate were extracted out of the permitted 7.1 million tonnes from 11 licences\*

No marine aggregate was extracted for **Beach**Nourishment

**10** 

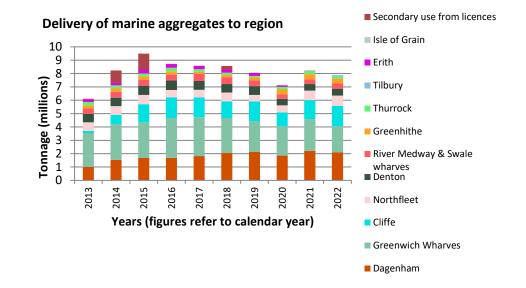
Current estimates suggest there are **10 years** of primary aggregate production permitted \* 1

Current application for a licence could, if approved **increase** the permitted tonnage by **0.65 million tonnes** annually\*

## The Thames region

### Tonnage delivered to landing locations in the region

Landing locations	2022 tonnages		
Cliffe	1,533,384		
Dagenham	2,112,314		
Denton	491,161		
Greenwich Wharves	1,943,207		
Greenhithe	367,126		
Northfleet	757,895		
River Medway Wharves	379,282		
Swale Wharves	41,191		
Thurrock	163,334		
Tilbury	97,540		
Thames Estuary Total	7,886,432		

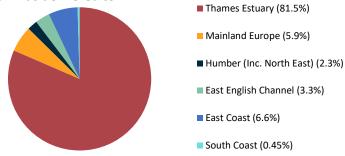


### **During 2022 materials extracted from** the region was delivered to:

million tonnes of primary aggregate

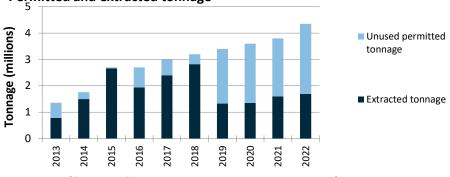
were extracted out of the permitted

4.35 million tonnes from 8 licences\*



**No** marine aggregate was extracted for Beach **Nourishment** 

Permitted and extracted tonnage



Years (figures refer to annual position at 31 December)

Current estimates suggest there are 25 years of primary aggregate production permitted \*

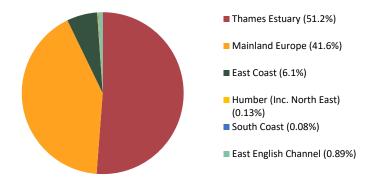
Current application for a licence could, if approved increase the permitted tonnage by 0.5 million tonnes annually\*

## The East English Channel region

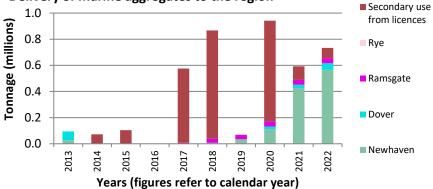
#### Tonnage delivered to landing locations in the region

Landing locations	2022 tonnages		
Dover	49,686		
Newhaven	565,982		
Ramsgate	40,205		
East English Channel Total	655,872		

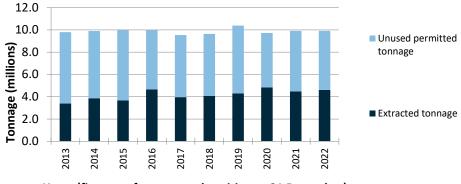
# During 2022 material extracted from the region was delivered to:



## Delivery of marine aggregates to the region



#### Permitted and extracted tonnage



Years (figures refer to annual position at 31 December)

4.5

million tonnes of primary aggregate were extracted out of the permitted 9.1 million tonnes from 9 licences\*

0.07

million tonnes of aggregate were extracted for Beach Nourishment

36

Current estimates suggest there are **36 years** of primary aggregate production permitted \* -

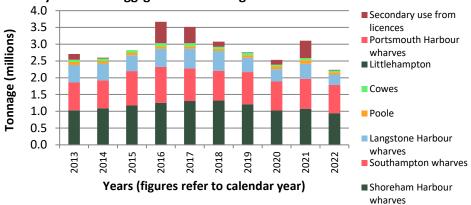
Current application for a licence could, if approved **increase** the permitted tonnage by **3.4 million tonnes** annually \*

## The South Coast region

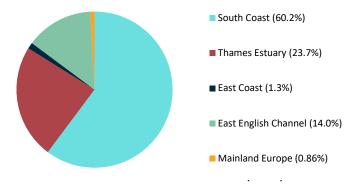
#### Tonnage delivered to landing locations in the region

Landing locations	2022 tonnages		
Cowes	48,734		
Langstone Harbour Wharves	309,089		
Poole	67,357		
Shoreham Harbour Wharves	945,182		
Southampton Wharves	844,565		
South Coast Total	2,214,928		

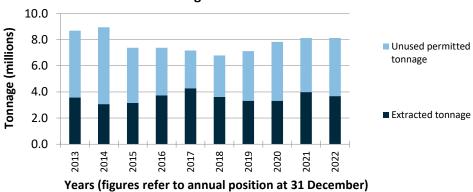




# During 2022 material extracted from the region was delivered to:



### Permitted and extracted tonnage



3.65

million tonnes of primary aggregate were extracted out of the permitted
8.13 million tonnes from 15
licences\*

0.02

million tonnes of aggregate were extracted for Beach Nourishment 21

Current estimates suggest there are **21 years** of primary aggregate production permitted \* 0

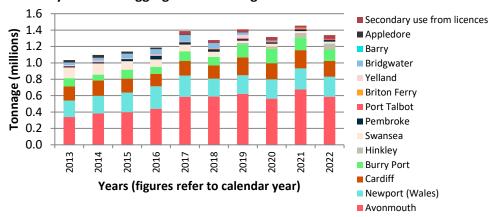
There are currently **no applications** for new licences
on the South Coast \*

## **The South West region**

#### Tonnage delivered to landing locations in the region

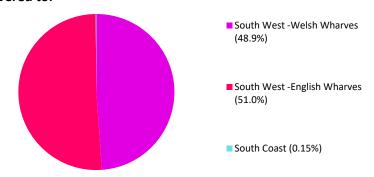
Landing locations	2022 tonnages
Avonmouth	587,665
Briton Ferry	1,105
Burry Port	138,261
Cardiff	193,044
Hinkley	72,490
Newport	243,633
Pembroke	19,562
Port Talbot	13,121
Swansea	24,266

#### Delivery of marine aggregates to the region



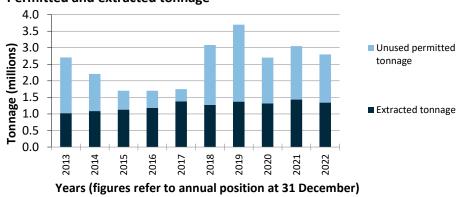
# During 2022 material extracted from the region was delivered to:

**South West Total** 



1,293,147

Permitted and extracted tonnage



1.3

million tonnes of primary aggregate were extracted out of the permitted 2.8 million tonnes from 9 licences\*

0.04

million tonnes of aggregate were extracted for Beach Nourishment 24

Current estimates suggest there are **24 years** of primary aggregate production permitted \* 0

There are currently **no applications** for new licences in the South West \*

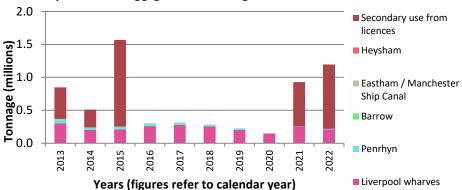
## The North West region

#### Tonnage delivered to landing locations in the region

Landing locations	2022 tonnages
Liverpool Wharves	211,580
Penrhyn	6,304

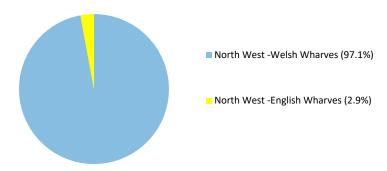
217,884

## Delivery of marine aggrgates to the region



# During 2022 material extracted from the region was delivered to:

**North West Total** 



#### Permitted and extracted tonnage



0.2

million tonnes of primary aggregate were extracted out of the permitted 0.7 million tonnes from 2 licences\* 0.98

million tonnes of aggregate were extracted for Beach Nourishment 33

Current estimates suggest there are **33 years** of primary aggregate production permitted \* 1

Current application for a licence could, if approved **increase** the permitted tonnage by **0.5 million tonnes** annually \*

## **Exports**

0.5

0.0

2013

2014

#### Tonnage delivered to landing locations in the region

**Delivery of marine aggregates to The Netherlands** 

2015

2016

2017

Years (figures refer to calendar year)

2018

2019

2020

2021

2022

Landing locations	2022 tonnages
Amsterdam	696,087
Antwerp	244,772
Breskens	3,338
Bruges	433,183
Dunkirk	124,983
Fecamp	34,808
Gent	99,106
Harlingen	346,333
Ijmuiden	57,870
Le Havre	6,857
Ostend	504,829
Vlissingen	1,981,394
Wielsbeke	14,294
Zeebrugge	145,438
Export Total	4,693,291

#### Delivery of marine aggregate to Belgium

**Delivery of marine aggreates to France** 

2016

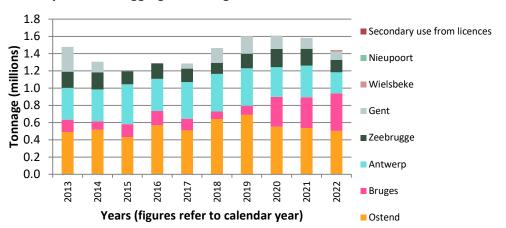
2015

2017

2018

Years (figures refer to calendar year)

2019



■ Secondary use from licences

Roscoff

■ Dieppe

Calais

Le Treport

Honfleur

Boulogne

Le Havre

■ Fecamp Dunkirk

■ River Seine wharves

### 3.5 1.0 from licences ■ Sluiskil O.8 0.6 0.4 0.2 Moerdijk ■ Rotterdam Breskens

■ Ijmuiden

Harlingen

Amsterdam

Flushing

■ Secondary use

0.0

2013

2014

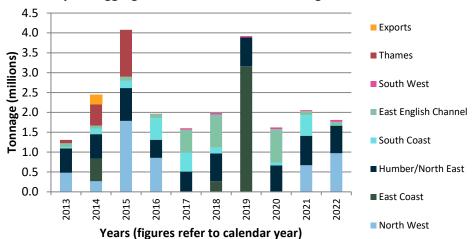
# Secondary use aggregate

### Beach nourishment/reclamation fill/rivers and miscellaneous

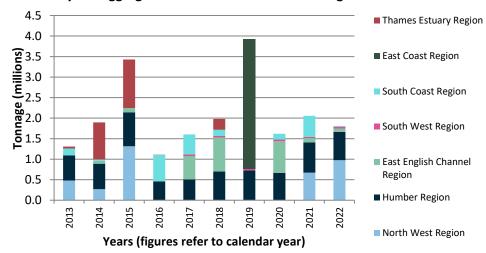
### Secondary use aggregate delivered to landing locations

Landing locations	2022 tonnages
Colwyn Bay	973,871
Eastbourne	11,517
Lincshore	690,437
Lydd	77,264
Pevensey Beach	8,891
Yelland	48,497
Beach Nourishment Total	1,810,477

### Secondary use aggregate was delivered to these regions:



### Secondary use aggregate was extracted from these regions:



# **Delivery by region/country**



## **Reserves and Resources**

Region	Total current primary reserves	10-year average annual offtake	3-year average annual offtake	Peak annual offtake during 10-year period*	Annual permitted offtake (as March 2023)	Regional reserve life @ 10-year average annual offtake
	Primary (construction aggregate)			Ulitake		
Humber	40.57	2.47	3.57	3.69	6.88	16.46
East Coast	38.97	4.01	3.26	4.72	7.13	9.71
Thames Estuary	35.78	1.44	1.55	1.94	4.35	24.93
East English Channel	146.80	4.08	4.36	4.65	9.92	36.02
South Coast	70.65	3.39	3.61	3.99	8.13	20.86
South West	29.41	1.25	1.34	1.43	2.80	23.61
North West	8.75	0.27	0.21	0.38	0.70	32.77
TOTAL	370.93	16.89	17.90	18.10	39.89	21.96

All figures are in millions of tonnes

### **Reserves and Resource**

The PERC code defines "**reserves"** as the proportion of a mineral "**resource**" that can be mined for economic purposes

22

Current national estimates suggest there are **22 years** of primary marine aggregate production permitted

371

Million tonnes estimated national primary reserve

<sup>\*</sup>Totals are national peaks, not the sum of regional figures

### SUMMARY OF NATIONAL LANDING STATISTICS FOR MARINE DREDGED PRIMARY AGGREGATES - 2022

Landing Locations		2022 Tonnage
England	Avonmouth	587,665
	Blyth	38,748
	Cliffe	1,533,384
	Cowes	48,734
	Dagenham	2,112,314
	Denton	491,161
	Dover	49,686
	Greenhithe	367,126
	Greenwich Wharves	1,943,207
	Hinkley	72,490
	Ipswich Wharves	443,773
	Langstone Harbour Wharves	309,089
	Liverpool Wharves	211,580
	Newhaven	565,982
	Northfleet	757,895
	Poole	67,357
	Ramsgate	40,205
	River Humber Wharves	330,575
	River Medway Wharves	379,282
	River Tees Wharves	553,842
	River Tyne Wharves	358,609
	Shoreham Harbour Wharves	945,182
	Southampton Wharves	844,565
	Swale Wharves	41,191
	Thurrock	163,334
	Tilbury	97,540
	England Total	13,354,514

### SUMMARY OF NATIONAL LANDING STATISTICS FOR MARINE DREDGED PRIMARY AGGREGATES - 2022

Landing Locations			2022 Tonnage
Wales	Briton Ferry Burry Port Cardiff Newport (Wales) Pembroke Penrhyn Port Talbot Swansea		1,105 138,261 193,044 243,633 19,562 6,304 13,121 24,266
		Wales Total	639,296
Belgium	Antwerp Bruges Gent Ostend Wielsbeke Zeebrugge	Belgium Total	244,772 433,183 99,106 504,829 14,294 145,438
France	Dunkirk Fecamp Le Havre		124,983 34,808 6,857
		France Total	166,648
Netherlands	Amsterdam Breskens Harlingen Ijmuiden Vlissingen		696,087 3,338 346,333 57,870 1,981,394
		Netherlands Total	3,085,021
	Total		18,687,101

### SUMMARY OF COUNTY LANDING STATISTICS FOR MARINE DREDGED PRIMARY AGGREGATES -2022

LANDING LOCATIO	NS	2022 Tonnage
ENGLAND	Bristol	587,665
	Dorset	67,357
	East Riding of Yorkshire	305,233
	East Sussex	924,123
	Essex	163,334
	Greater London	4,153,060
	Hampshire	1,153,654
	Isle of Wight	48,734
	Kent	1,747,263
	Lincolnshire	25,342
	Medway	1,912,666
	Merseyside	211,580
	Middlesbrough	39,913
	North Yorkshire	513,929
	Northumberland	38,748
	Somerset	72,490
	Suffolk	443,773
	Tyne & Wear	358,609
	West Sussex	587,040
	England Total	13,354,514
WALES	Carmarthenshire	138,261
	Gwent	243,633
	Gwynedd	6,304
	Pembrokeshire	19,562
	South Glamorgan	193,044
	West Glamorgan	38,492
	Wales Total	639,296

### OFFICIAL PORT LISTING

Region	Landing Port (Standard Name)	Wharves/Alternative Names
North East	Blyth	Blyth
Humber	Immingham	Immingham
	Lincshore	Lincshore
	River Humber Wharves	Goole, Grimsby, Howden, Hull, Hull N&Y, Hull Northern Aggregates, Pyewipe, St Andrew's Quay, Stema Hull
	River Tees Wharves	Able Tees, Billingham, Middlesbrough, Tees, Tees Sand, Seaton, Middlesbrough Dawsons, TCP East Quary (Shire
		Aggregates)
	River Tyne Wharves	Gateshead, Jarrow, Tyne, Jarrow Wharf (Cemex)
	Sunderland	Hendon, Hendon Dock, Sunderland
East Coast	Bacton	Bacton
	Ipswich	Hanson/ARC Ipswich, Ipswich, East Coast Marine Aggregates
	Lowestoft	Lowestoft
Thames Estuary	Barking	Barking, Docklands Wharf
	Cliffe	Alpha Wharf, Cliffe, North Sea Terminal
	Dagenham	Hanson/ARC Dagenham, Dagenham Deport (Cemex)
	Denton	Denton, Denton B.A.D, Denton Sand, J Clubbs
	Erith	Erith, Pioneer Wharf
	Felixstowe	Felixstowe
	Greenhithe	Greenhithe, Hanson Greenhithe
	Greenwich Wharves	Angerstein, Blackwall Wharf, Charlton, Delta Wharf, Greenwich, Murphy's Wharf, Phoenix Wharf, Victoria Deep Wharf
	London Docklands Wharves	Canning Town, Cargo Fleet Wharf, Clarence Wharf, East India Dock, Heron Quay, Millwall, Orchard Wharf, Peruvian
	(mostly disused)	Wharf, Rotherhithe, Silvertown, Thames Wharf, Thamesmead, Union Wharf, Victoria Wharf
	Northfleet	Northfleet, Northfleet Brett, Robin's Wharf
	River Medway & Swale Wharves	Queenborough, Ridham, Rochester, Rochester Hanson, Sheerness
	Swale Wharves	Ridham, Queenborough
	Tilbury	Tilbury Stema
	Thurrock	Purfleet, Purfleet PAL, Thurrock, West Thurrock
East English Channel	Dover	Dover
	Hythe	Hythe
	Lydd	Lydd
	Newhaven	Newhaven, Cemex Newhaven
	Ramsgate	Ramsgate
	Rye	Rye
South Coast	Cowes	Cowes, East Cowes, IOWA/Isle of Wight Aggregates, Kingston Wharf, Medina Wharf, Cemex/SCS West Cowes, TMD/UMD
		West Cowes, West Cowes
	Eastbourne	Eastbourne Beach
	Elmer	Elmer Beach
	Langstone Harbour Wharves	Bedhampton, Havant, Kendall's Wharf, Langstone, TMD/UMD Bedhampton/ Portsmouth
	Littlehampton	Littlehampton, TMD/UMD Littlehampton
	Newport, Isle of Wight	Blackhouse Quay (disused), Newport IoW, Solent Services, West Medina Mills (disused)
	Pevensey	Pevensey Beach
	Plymouth	Millbay, Plymouth, Stonehouse
	Poole	Poole
	Portsmouth Harbour Wharves	Fareham, Gosport, LRA Tipner, LRA Upper Wharf, Portsmouth
	Shoreham Harbour Wharves	Hanson/ARC Shoreham, Hall's Wharf, Hiedelberg Portslade, Kendall's Wharf Shoreham, Portslade, Cemex/SCS
		Shoreham, Shoreham Ferry Wharf, TMD/UMD Shoreham
	Southampton Wharves	Burnley Wharf, Dibles Wharf, Eling Wharf, JP Marks, JPM Super Wool, Leamouth, LRA Marchwood, Marchwood,
		Cemex/SCS Southampton, Southampton, Southampton (Fawley), Spitfire Wharf, Totton, TMD/UMD Burnley Wharf,
		Woolston
	Couthoop	
Channal Islands	Southsea	Southsea Cuernasy St Sampson
Channel Islands	Guernsey	Guernsey, St Sampson

### OFFICIAL PORT LISTING

Region	Landing Port (Standard Name)	Wharves/Alternative Names
South West	Appledore	Appledore, Appledore Evans, Bidna
	Avonmouth	Avonmouth, BCA Avonmouth, Cemex/BDL Avonmouth, Hanson Avonmouth, Remix Avonmouth, TMD/UMD Avonmouth
	Barnstaple	Barnstaple
	Barry	Barry
	Bridgwater	Bridgwater, Dunball Wharf
	Briton Ferry	Briton Ferry, Cemex Briton Ferry, Giant's Wharf, Hanson Briton Ferry, Ironworks, Riverside Wharf, Tarmac Briton Ferry
	Burry Port Cardiff	Burry Port Cardiff, TMD Cardiff, Cemex Cardiff, Hanson Cardiff, Empire Wharf, Roath Dock
	Hinkley	Hinkley Jetty
	Newport, Wales	Alexandra Dock, Hanson/ARC Newport, East Bank/Ferry Terminal, Eastern Wharf, Newport, Newport (Wales), Newport 2
	Pembroke	Pembroke
	Port Talbot	Port Talbot
	Swansea	Prince of Wales Dock, Cemex/BDL Swansea, Swansea
	Yelland	Yelland
North West	Barrow	Barrow
	Eastham	Eastham
	Glasson	Glasson
	Heysham	Heysham
	Liverpool Wharves	Albert Dock, Birkenhead, Bramley Moore Dock, Garston, Liverpool, Mersey Wharf, Mostyn
	Penrhyn	Penrhyn
Northern Ireland	Belfast	Belfast
Continental Europe	Amsterdam	Amsterdam, Amsterdam AGM, Amsterdam PAES, Hanson/CM/Hiedelberg Amsterdam, Steen Korrel
·	Antwerp	Antwerp, Hanson/CM Antwerp, Kallo, Antwep Sands
	Breskens	Breskens
	Boulogne	Boulogne, Boulogne-sur-mer
	Bruges	Alzagri, Bruges, Brugge, Hanson/CM Brugge
	Caen	Caen
	Calais	Calais
	Dieppe	Dieppe
	Dunkirk	Hanson/CM Dunkirk Sand, Dunkerque, Dunkirk, Dunkirk Gravel, Dunkirk Sand, Mardyck
	Fecamp	Fecamp, Fecamp Mercier
	Flushing	Flushing, Vlissingen
	Gent	Gent, Kluizendok
	Harlingen	Harlingen
	Honfleur	Honfleur
	Ijmuiden	Ijmuiden
	Le Havre	Le Havre, Treguier
	Le Treport	Le Treport
	Moerdijk	Moerdijk
	Nieupoort	Nieupoort
	Ostend	Ostend, Ostend ISG
	River Seine Wharves	Lillebonne, Rouen, St Wandrille, Vatteville, Vattewille-la-Rue
	River Somme Wharves	Vattier
	Roscoff	Roscoff
	Rotterdam	De Hoop Rotterdam, Europoort, Rotterdam, Schiemond
	Sluiskil	NL Sluiskil, Sluiskil
	Terneuzen	Terneuzen
	Thyboron	Thyboron
	Zeebrugge	Zeebrugge, Zeebrugge DVSII, Zeebrugge Hanson