



**AQUIND Limited**

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# **AQUIND INTERCONNECTOR**

## **Environmental Statement – Volume 3 – Appendix 15.9 Landscape and Visual Amenity Cumulative Effects Assessment Matrix (Stage 1 & 2)**

The Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 – Regulation 5(2)(a)

The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017

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Appendix 15.9 Landscape and Visual Amenity  
Cumulative Effects Assessment Matrix  
(Stage 1 & 2)

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# APPENDIX 15.9 LANDSCAPE AND VISUAL AMENITY CUMULATIVE EFFECTS ASSESSMENT MATRIX (STAGE 1 & 2)

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## 1.1. INTRODUCTION

1.1.1.1. This document should be read in conjunction with the Chapter 29 (Cumulative Effects) of the Environmental Statement ('ES') Volume 1 (document reference 6.1.29), Chapter 15 (Landscape and Visual Amenity) of the ES Volume 1 (document reference 6.1.15) and Appendix 15.10 (Landscape and Visual Amenity Cumulative Effects Assessment Matrix (Stage 3 & 4) of the ES Volume 3 (document reference 6.3.15.10).

1.1.1.2. The Cumulative Effects Assessment ('CEA') for the Proposed Development follows the recommended approach as detailed by the Planning Inspectorate ('PINS') in PINS Advice Note Seventeen (Planning Inspectorate, 2015). This document summarises the first stages of the CEA approach which include:

- Stage 1 – Establish a Zone of Influence ('ZOI') for each environmental discipline and identify long list of 'other developments'; and
- Stage 2 – Identify a shortlist of 'other developments'.

## 1.2. STAGE 1

1.2.1.1. In order to screen projects for the CEA relating to Landscape and Visual Amenity the following threshold criteria has been applied:

- The ZOI for other developments:
  - Section 1 – Lovedean (Converter Station Area) is 8 km radius as agreed with LPAs and SDNP. (This includes development in the field of vision of receptors within the ZOI);
  - Section 2-9 (Onshore Cable Corridor) is 120 m; and
  - Section 10 – Eastney (Landfall) is 300 m radius.
- The scale and nature of other developments:

- Projects greater than 0.5 ha, used as a threshold for likely significant effects in Schedule 2 of the EIA Regulations. However, it is also acknowledged that some projects under this threshold may give rise to cumulative effects, so projects within 100 m of the Order Limits are included due to their proximity to the Proposed Development.
- Temporal scope:
  - Construction would need to fall within 1 year with Aquind construction for cumulative construction effects to be applied.

1.2.1.2. Developments were also screened where work was under construction and considered as part of current baseline.

### **1.3. STAGE 2**

1.3.1.1. As part of the second stage, developments were filtered based on the scale and nature of development likely to generate a significant cumulative effect as follows:

- Converter Station: Other developments which fall with the ZOI of the Converter Station were selected based on height and mass comparable with the Converter Station. The cumulative assessment for the Converter Station does not consider residential developments, conversions or extensions, storage and distribution, waste management and holiday and recreational facilities due to their overall size, scale and height. The majority of such developments lie within or adjacent to settlements.
- Onshore Cable Route (visual amenity): Small scale developments (i.e. extensions to dwellings and associated plots) along the Onshore Cable Route were scoped out where, when combined with Chapter 15's (Landscape and Visual Amenity) conclusions on visual amenity effects, direct temporary localised effects would still remain not significant. For such development it was assumed that whilst more than one activity would take place at any one time in the immediate locality of receptors, such effects would cumulatively not be significant given the short duration of installation works. As described in Chapter 3 (Description of Proposed Development) of the ES Volume 1 (document reference 6.1.3) the installation rate for cable ducts for one circuit would be approximately 18 m – 30 m per day, on average, within urban areas and approximately 50 m per day in open country.

- Onshore Cable Route (landscape character): In terms of effects on landscape character the LVIA considers that small scale developments would not generate a direct impact on specific landscape features along the Onshore Cable Route and whilst there are indirect impacts associated with tranquillity, tranquillity levels along Hambledon / London / Eastern / Havant Roads is low and when combined would not be sufficient to alter the level of effect which would remain as not significant.

1.3.1.2. Table 1 lists the long and short list of developments for consideration as part of the CEA for the Proposed Development.

**Table 1 – Stage 1 & 2 CEA Matrix for Landscape and Visual Amenity**

‘Other Development’ Details						Stage 1		Stage 2			
ID	Application Name and Reference	Applicant for ‘other development’ and brief description	Distance from project	Status	Tier	Within ZOI?	Progress to Stage 2	Overlap in temporal scope?	Scale and Nature of development likely to have a significant effect?	Other Factors	Progress to Stage 3 / 4?
1	Land rear of 185-189A Lovedean Lane, Horndean, Waterlooville (54596/001)	Outline application with some matters reserved for 40 residential dwellings (mix of 1, 2, 3, and 4 bed) with associated amenity space and road network with access from Lovedean Lane via existing access	0.69 km to east of the Order Limits	Granted Outline (15/09/2014)	Tier 1	Yes	No (considered as part of the baseline)	Construction commenced March 2017. Construction likely to be completed by the start of construction works.			
2	Land rear of, 179-189A Lovedean Lane, Horndean, Waterlooville (54596/002)	Reserved matters application pursuant to 54596/001 for dwellings and discharge of condition 7 of 54596/001 as revised by plans and details received on 3 March 16	0.69 km to east of the Order Limits	Granted Reserved Matters (29/04/2018)	Tier 1	Yes	No (considered as part of the baseline)	Unknown but unlikely overlap of construction programmes.			
3	Development land east of Horndean, Rowlands Castle Road, Horndean, Waterlooville (55562/01)	Outline planning application with all matters reserved (except for access to the highway network and associated off-site highway improvements) for the demolition of existing buildings and the development of a maximum of 700 dwellings, approximately 1.7 Ha of employment land, a Local Centre (including local retail, a primary school and community facilities), a Care Village, playing pitches, a cricket pavilion (including associated access and parking), allotments (including associated building and car parking), acoustic bunds and ecological buffers together with internal access network	2.52 km east of the Order Limits	Granted Outline (05/02/2016)  Site bought by Bloor Homes who submitted request for a new Scoping Opinion in August 2018 (55562/004)	Tier 1	Yes	Yes (forms part of ZOI for the Converter Station)	Unknown but possible construction overlap	Not significant due the height and mass of development as well as location, intervening vegetation and built form including the A3		No



		(including footpaths and cycleways), drainage works, associated landscaping and open space (including play areas).  Under the current programme, it is expected that construction will take place between 2016 and 2020.									
4	Former Purbrook Park Playing Fields, Stakes Road, Waterlooville (APP/12/00205)	Construction of 76 No. dwellings consisting of 3 No. 2 bed, 38 No. 3 bed, 23 No. 4 bed houses and 12 No. 2 bed flats with associated parking, landscaping including open space and play area, and pumping station. New vehicular access to Stakes Road and new pedestrian access to Stakes Hill Road.	0.96 km East of the Order Limits	Granted Full (03/08/2012) Construction complete	n/a	Yes	No (considered as part of baseline)				
5	Purbrook School Former Playing Fields, Stakes Road, Waterlooville APP/16/00347	Erection of 26 residential units with associated works, access parking and landscaping.	0.96 km East of the Order Limit	Granted Full (13/01/2017) Construction complete		Yes	No (considered as part of the baseline assessment )				
6	Purbrook Park School, Park Avenue, Waterlooville, PO7 5DS (APP/14/00687)	Construction of new two storey school building (Block A), two storey school building to courtyard (Block B), refurbishment to Block D, raised covered walkways, new pedestrian access to main entrance and new Block A, altered and additional car parking, landscaping and other works. Demolition of two storey Caretakers house  Works now completed.	0.42km to the east of the Order Limits	Granted Full (16/04/2014) Construction complete	n/a	No	No (considered as part of the baseline assessment )				
7	108 London Road, Widley, Waterlooville, PO7 5AA (APP/17/01009)	Subdivision of plot to provide a further 2 bedroom dwelling with access from London Road.	Western boundary adjacent (0.18km) to the Order Limits	Granted Full (08/01/2018) Construction not yet started.	Tier 1	Yes	Yes (forms part of ZOI for the Onshore	Unknown but possible construction overlap	Small scale development and whilst the developme		No

							Cable Route)		nt would be in close proximity to the Onshore Cable Route the duration whereby both works may overlap is limited		
8	Land at 38-44 London Road, Purbrook (APP/17/01141)	Construction of 43 retirement apartments for older persons including communal facilities, parking, associated landscaping with access from Stakes Road and 2 commercial / residential units fronting London Road.	Western boundary adjacent (0.40km) to the Order Limits.	Granted Full (21/12/2017) Construction not yet started	Tier 1	Yes	Yes (forms part of ZOI for the Converter Station)	Unknown but possible construction overlap	Small scale development and whilst the development would be in close proximity of the Onshore Cable Route the duration whereby both works may overlap is limited		No
9	Woodcroft Farm Development Site, Woodcroft Lane, Waterlooville (APP/13/00804)	Development of 288 residential units, retention of existing farmhouse, new access road from Eagle Avenue	0.79 km to south-east of Order Limits	Granted Full (05/05/2015) Under construction Phase 1 infrastructure works consisting of bridleway	Tier 1	Yes	No (considered part of the baseline)	Unknown but possible construction overlap			

				improvements were completed in 2017.						
10	Waterlooville Swimming Pool, Waterberry Drive, Waterlooville, PO7 7UW (APP/17/00295)	Hybrid Application: Full planning permission for reconfiguration of existing car park and development of single storey deck car parking. Outline planning permission for future extension on current footprint of overflow carpark at Waterlooville Leisure Centre for access and layout with all other matters reserved.	Northern boundary adjacent(0.40km ) to the Order Limits	Granted Full / Outline (01/07/2017)  Construction not started.	Tier 1	Yes	Yes	Unknown but possible construction overlap	Of relevance only in the context of the Onshore Cable Route  External landscape works would be contained within the site itself accessed from Electra Avenue. There may be indirect effects associated with tranquillity though this, combined would be insufficient to alter the level of effects given the short duration of installation works.	No

11	Former BAE Systems, Waterloo Park, Elettra Avenue, Waterlooville (APP/18/01072)	Outline planning application with all matters, apart from access, reserved for development of office, storage, industrial, hotel, leisure and restaurant uses.	Eastern boundary adjacent to the Order Limits	Registered and awaiting decision	Tier 1	Yes	Yes	Unknown but possible construction overlap	Works would be contained within the site itself from Electra Avenue. There may be indirect effects associated with tranquillity though this, combined would be insufficient to alter the level of effects given the short duration of installation works.	No
12	Coastline between Ports Creek Railway Bridge and Kendall's Wharf, Portsmouth, PO3 5LY (14/01387/FUL)	Construction of new coastal defences consisting of raised earth embankments with rock armour on the seaward side, together with wave walls to abut the A2030 Eastern Road bridge to tie into the new embankments (along the alignment of the existing coastal defences), and associated landscaped works including a shared footpath constructed along the full length of the new embankment.	Boundary adjacent to the Order Limits	Granted Full (13/02/2015) Under construction	Tier 1	Yes	No (considered as part of the baseline)	Construction overlap unlikely		
13	Coastal Defences Fort Cumberland, Fort Cumberland	Replacement of existing coastal sea defences with rock revetment.	0.47 km to east of the Order Limits	Granted Full (22/06/2016) Construction complete	Tier 1	Yes	Yes (within ZOI for the Landfall)		The scale and nature of developme	No

	Road, Southsea, PO4 9LJ (16/00255/FUL)								nt would be limited to the coastline and not within the immediate vicinity of the Landfall as a consequence there would be no cumulative visual or landscape effects		
14	West Wing St. Marys Hospital Milton Road Portsmouth PO3 6AD 11/00250/OUT	Construction of 2 and 3 storey buildings comprising 191 dwellings and a 2 storey 60 bed care home with associated estate roads/parking areas/open space and landscaping after demolition of existing buildings. Outline with all matters reserved.	0.57 km to west of the Order Limits	Granted Outline (29/03/2012) Granted Conditional Outline (29/03/2012) 13/01120/REM for 191 dwellings and care home approved (15/02/2014). Complete 14/01121/REM for care home approved (19/11/2014). Complete	Tier 1	No	No				
15	Tesco Fratton Way, Southsea, PO4 8FA (14/00128/FUL)	Construction of a Retail Store (Use Class A1) of up to 10,475sqm GEA, Petrol Filling Station (Sui Generis) with an associated kiosk up to 86sqm GEA, canopy and jet wash, new access/egress arrangements, car	0.70 km to west of the Order Limits	Granted Full (19/02/2014) Construction complete	n/a	No	No				

		parking including replacement Stadium car parking, service yard, highway and footpath works, landscaping, and other associated works (after demolition of existing structures).									
16	Former Kingston Prison, Milton Road, Portsmouth, PO3 6AS 16/00085/FUL	Redevelopment of former prison comprising: part demolition and conversion of listed buildings to provide 73 dwellings and commercial unit (within Class A1 or Class A3); demolition of non-listed structures; construction of five blocks of between three and seven stories to provide 157 dwellings; part demolition of listed prison wall and formation of new vehicular accesses to Milton Road and St Marys Road; and provision of car parking and associated landscaping and other works.  Construction not yet started.	0.69 km to west of the Order Limits	Granted Full (02/02/2017)  Construction not yet started.	Tier 1	No	No	Unknown but possible construction overlap			
17	Voyager Park, Portfield Road, Portsmouth, PO3 5FJ  (11/00822/VOC as varied by 12/00159/VOC)	Development of site for offices/industry/warehousing/distribution (Classes B1/B2 and B8) (Outline) with variation to condition 17 of planning permission 11/00822/VOC to allow the construction of up to 40,000sqm gross floorspace.	1.07 km to west of the Order Limits	Granted Outline (04/04/2012)  Numerous Reserved Matters applications submitted for individual units. Largely constructed.	Tier 1	No	No	Unlikely construction overlap			
18	Milton Common, Eastern Road, Portsmouth  (15/01769/FUL)	Construction of new coastal defences consisting of a rock revetment along the seaward side of Milton Common and three earth bunds on Milton Common together with the demolition of Great Salterns Quay and associated landscaping works.	Adjacent to Order Limits	Granted Full (04/02/2016)  Construction complete	n/a	Yes	No (considered as part of the baseline)				
19	Land adjacent to 291 Locksway Road, Southsea	Construction of three-storey building to form three flats with associated parking, cycle and refuse storage	Within Order Limits	Granted Full (23/10/2015)	Tier 1	Yes	No (considered as part of	Unlikely construction overlap			

	(15/01330/FUL)			Under construction			the baseline)			
20	Land adj 1A Eveleigh Road, Portsmouth, P06 1DH  16/01588/FUL	Construction of new two storey dwelling	Western boundary of site directly adjacent the Order Limits	Granted Full (24/11/2016)  Construction not yet started	Tier 1	Yes	Yes (within the ZOI for the Onshore Cable Route)	Unknown but possible construction overlap	Small scale development - Whilst the development would be in close proximity of the Onshore Cable Route the duration whereby both works may overlap is limited	No
21	Portsmouth Park Hotel, Eastern Road, Portsmouth, PO6 1UN  (16/00522/FUL)	Construction of 2 single storey buildings to form restaurant / takeaway with drive-thru (Use Class A3/A5) and coffee shop / café (Use Class A1/A3) with drive-thru with associated car parking and landscaping and alterations to existing hotel car park and circulation and realignment of existing access roads	Within the Order Limits.	Granted Full (31/08/2016)  Construction not yet started	Tier 1	Yes	Yes (within the ZOI for the Onshore Cable Route)	Unknown but possible construction overlap	Whilst extent of works would be concentrated within the curtilage of the Hotel complex and car park with the Onshore Cable Route at this point running to the north, east and	Yes

									south east of the hotel there may be visual impacts on immediate receptors given the extent of installation works around the hotel		
22	Little Brandon, Portsdown Hill Road, Portsmouth, PO6 1BE (18/00053/FUL)	Construction of five-bedroom dwelling house	Southern Boundary of site directly adjacent (0.04 km) to Order Limits	Granted Full (21/03/2018) Construction not yet started.	Tier 1	Yes	Yes (within the ZOI for the Onshore Cable Route)	Unknown but possible construction overlap	Small scale development- Whilst the development would be in close proximity of the Onshore Cable Route the duration whereby both works may overlap is limited.		No
23	Former Dairy Site, Station Road, Portsmouth, PO6 1PL (17/00224/OUT)	Outline application for the construction of up to 108 dwellings (principle of access only to be considered).	0.2 km to north-west of the Order Limits	Granted Full (22/03/2018)	Tier 1	No	No	Unknown but possible construction overlap			
24	Kendalls Wharf, Eastern Road,	Construction of 50m quay wall as a continuation of the existing quay wall and provision of rock armouring at northern end to form a revetment; and	0.04 km east of the Order Limits	To be decided	Tier 1	Yes	Yes	Unknown but possible	Visual impacts would be		No



	Portsmouth, PO3 5LY 17/01676/FUL	construction of a 4m by 4m dolphin structure with linking walkway 25m south of existing quay.  Works are expected to take 3 to 4 months to complete. Works would aim to commence on 1 April Dredging works are proposed to be undertaken during late May or early June.		(Determination period expired 27/11/2017)				construction overlap	limited in term of extent and therefore combined is considered insufficient to alter the cumulative effect.		
25	Langstone Harbour Sports Ground, Eastern Road, Portsmouth (17/00182/FUL)	Construction of club house (on land adjacent to football pitch)	Within the Order Limits	Granted Full (03/07/2017)  Under construction. Anticipated to be near completion.	Tier 1	No	No (considered as part of the baseline)	Unlikely construction overlap			
26	170 Milton Road, Portsmouth, PO4 8PN (17/01097/FUL)	Construction of 3-storey building to form 9 flats with associated parking, refuse/cycle stores and landscaping, following demolition of existing building	0.7 km south-west of Order Limits	Granted Full (25/06/2018)  Construction not yet started	Tier 1	No	No	Unknown but possible construction overlap	Small scale development- Whilst the development would be in close proximity of the Onshore Cable Route the duration whereby both works may overlap is limited.		
27	Land to north of Harbourside Holiday and Lodge Park, Eastern Road,	Change of use of enclosed area of unused land to form an extension to the existing Harbourside Holiday Park adjoining to the south	Eastern boundary directly adjacent to the Order Limits	To be decided (Determination period expired 24/09/2018)	Tier 1	Yes	Yes (within the ZOI for the Onshore	Unknown but possible construction overlap	Small scale development- Whilst the		No

	Portsmouth, PO3 6QB (18/01182/FUL)						Cable Route)		development would be in close proximity of the Onshore Cable Route the duration whereby both works may overlap is limited.		
28	St James Hospital, Locksway Road, Southsea, PO4 8HW (18/00288/OUT)	Outline application for the construction of 107 dwellings including provision of vehicular and pedestrian access, public open space and hard and soft landscaping  Construction of 4 years anticipated, commencing in 2018 and completing in 2021.	Adjacent (0.02 km) to north-west boundary of the Order Limits	To be decided (Determination period expires 31/12/2018)	Tier 1	No	No	Unknown but possible construction overlap			
29	Admiral Lord Nelson School, Dundas Lane, Portsmouth, PO3 5XT (18/01891/FUL)	Construction of single storey front extension to include 10 additional classrooms and new sports pitches	0.34 km west of the Order Limits	Granted Full (07/06/2019)	Tier 1	No	No	Unknown but possible construction overlap			
30	Unit 5, Interchange Park, Robinson Way, Portsmouth, PO3 5QD (18/01027/FUL)	Construction of building of 3004 sqm (GEA) for use within light or general industrial purposes (B1 or B2) or storage and distribution (B8)	0.17 km to west of the Order Limits	Granted Full (01/04/2019)  Construction not yet started	Tier 1	No	No	Unknown but possible construction overlap			
31	Self-Drive Depot, Airport Service Road,	Construction of After Sales Centre (B2) comprising 18-bay workshop/MOT centre, reception area, service drive-in and associated development	0.19 km to west of the Order Limits	Granted Full (22/11/2018)	Tier 1	No	No	Unknown but possible construction overlap			

	Portsmouth, PO3 5PW (18/01050/FUL)			Construction not yet started						
32	Southsea Leisure Park, Melville Road, Southsea, PO4 9TB (17/00710/PLARE G)	Retrospective application for the construction of a wall and widening of an existing pathway.	Partially within the Order Limits	Granted Full (08/09/2017) Construction complete	n/a	Yes	Yes (within ZOI for the Landfall)		Small scale development focusing on a boundary wall and footpath to the south of Southsea Leisure Park no significant cumulative effects as works would be HDD in this location	No
33	Cliff House, Dayton Lane, Portsmouth, PO6 1BS (18/01620/FUL)	Construction of two-storey, three-bedroom detached chalet bungalow. Construction of carport and extensions to Cliff House.	0.03 km south of the Order Limits	Granted Full (20/12/2018) Construction not yet started	Tier 1	Yes	Yes (within the ZOI for the Onshore Cable Route)	Unknown but possible construction overlap	Small scale development - Whilst the development would be in close proximity of the Onshore Cable Route the duration whereby both works may overlap is limited.	No

34	81 Solent Road, Portsmouth, PO6 1HJ (18/01618/FUL)	Construction of two dwelling houses following demolition of existing.	0.01 km west of the Order Limits	Granted Full (21/12/2018) Construction not yet started	Tier 1	Yes	Yes (within the ZOI for the Onshore Cable Route)	Unknown but possible construction overlap	Small scale development -Whilst the development would be in close proximity of the Onshore Cable Route the duration whereby both works may overlap is limited.		No
35	142 Milton Road, Portsmouth, PO4 8PN (18/02089/FUL)	Construction of 4 storey residential block to form 12 flats.	0.62 km south-west of Order Limits	To be decided (determination period expired 08/02/2019)	Tier 1	Yes	Yes (within the ZOI for the Onshore Cable Route)	Unknown but possible construction overlap	Small scale development - Whilst the development would be in close proximity of the Onshore Cable Route the duration whereby both works may overlap is limited.		No
36	Land Bounded by Tanners Lane, Kidmore Lane	Erection of 91 residential units, associated public open space, residents car park, landscaping, access, car parking, partial realignment	0.41 km to west of the Order Limits	Granted Full (03/07/2018)	Tier 1	Yes	No (considered as part of	Unknown but possible			

	and Anmore Road, Denmead (17/00335/FUL)	of road junction and associated works (resubmission). 2-year construction programme anticipated.		Construction not yet started			the baseline as construction works are underway)	construction overlap			
37	Land to rear of 32-36 Mill Road, Denmead, PO7 6PA (16/01861/FUL)	3 new dwellings	0.03 km to west of the Order Limits	Granted Full (10/11/2016) Construction not yet started	Tier 1	Yes	Yes (within the ZOI for the Onshore Cable Route)	Unknown but possible construction overlap	Small scale development - Whilst the development would be in close proximity of the Onshore Cable Route the duration whereby both works may overlap is limited.		No
38	Denmead Baptist Church, 51 Anmore Road, Denmead, PO7 6NW (15/02566/FUL)	Construction of 10 dwellings together with associated access, car parking, refuse and cycle storage following demolition of Denmead Baptist Church	0.27 km to west of the Order Limits	Granted Full (08/06/2016) Construction complete	n/a	Yes	Yes (within the ZOI for the Converter Station)		Small scale development within the ZOI for the Converter Station and outside of the ZOI for Onshore Cable Route.		No
39	Land to the North of The Gables and West of Closewood Road,	Construction of stables and menage.	0.03 km south-west of Order Limits	Granted Full (10/02/2016) Construction complete	n/a	Yes	Yes		Small scale development within the ZOI for the Converter		No

	Closewood Road, Denmead (15/02448/FUL)								Station and outside of the ZOI for the Onshore Cable Route.		
40	121 Anmore Road, Denmead, Waterlooville, PO7 6NX (14/00890/FUL)	Redevelopment comprising change of use from farmstead (C3/sui-generis) to childrens care home (C2) incorporating replacement, renovations and erection of replacement farmhouse and barn, retention of paddocks, improvement to vehicular access, car parking, landscaping and associated works	Within the Order Limits.	Granted Full (21/05/2015) Construction complete	n/a	Yes	No (considered part of the baseline)				
41	Taylor Wimpey Site – Land at Old Park Farm, South of Hambledon Road, Waterlooville (05/40000 and 05/00500/OUT)	Outline application for development of land for residential (450 units), live / work (24 units), employment (7.1 ha including B1, B2, B8 and a Household Waste Recycling Centre), mixed use including retail, food & drink, financial/professional & health, open space / recreation purposes and the construction of two accesses.	Directly adjacent to Order Limits	Granted Full (04/01/2008) Development largely complete, expected to be finished 2018/2019	Tier 1	No	No (considered as part of the baseline)	Unlikely for construction overlap			
42	Land at Old Park Farm, Hambledon Road, Waterlooville (08/40000/003 and 08/00350/REM)	First Phase of Residential Development – 110 dwellings	Directly adjacent to Order Limits	Granted Reserved Matters (08/04/2009) Construction complete	n/a	No	No (considered as part of the baseline)				
43	Grainger Development Site Land West of London Road, Waterlooville / Newlands Phase 1 Hambledon Road, Denmead, Hampshire	Outline application for the development of approx 2,550 no. dwellings including the construction of a new access from Ladybridge Roundabout, Milk Lane and completion of Maurepas Way access, a local centre (comprising retail, community building, land for health care, land for elderly care) public house, land for 2 primary schools, land	Directly adjacent to Order Limits	Granted part Online, part Full (18/04/2012) Three phases complete, one still under construction	Tier 1	No	No (Under construction and most recent planning applications 9b and 10a lie outside	Unknown but possible construction overlap			

	(APP/10/00828 and 10/02862/OUT)	for a nursery, land for employment uses, associated amenity space along with substantial green infrastructure, SuDS, land for allotments, main pumping station, land for cemetery, restoration of River Wallington, together with landscape structure planting (Matters for Approval Access only). Full planning application for the development of Phase 1 comprising 194 no. dwellings, internal roads, garages, driveways, pathways, boundary treatment, substation, pedestrian/cycle ways, including to Maurepas Way, associated parking spaces, flood attenuation ponds, temporary play provision, associated amenity space and hard and soft landscape works. Full planning for engineering operations associated with infrastructure requirements and service provision for the detailed Phase 1 application, the temporary closure of Havant Footpath No 11 and Southwick and Widley Footpath No 30, with suitable alternative route provided (approved 18/04/2012).		with others not yet under construction			of the study area for the Onshore Cable Route)				
44	Phase 2, Dukes Meadow, Hambledon Road, Waterlooville  (APP/10/00610 and 10/02353/REM)	Second Phase of Residential Development (121 Dwellings) along with 7 live/work units and 326 square metres of A1/A2/A3 floorspace, mixed use including retail, food and drink, financial / professional and health, open space / recreation purposes and the construction of two accesses from Hambledon Road	North-eastern boundary directly adjacent to the Order Limits	Granted Full (24/12/2010)  Construction complete	n/a	Yes	(No considered as part of the baseline)				
45	Phase 3 and 4, Land at Old Park Farm, Hambledon Road, Waterlooville / Dukes Meadow,	Third and Fourth phase of residential development – 219 units, 17 live work units, employment, mixed use including retail, food and drink, financial / professional and health, open space / recreational purpose and the	Adjacent to Order Limits	Granted Reserved Matters (09/07/2013)  Construction complete	n/a	No	(No considered as part of the baseline)				



	Hambledon Road, Denmead, Hampshire (APP/12/00008 and 11/03014/REM) (amended by APP/12/01243 & 12/02502/FUL)	construction of two accesses from Hambledon Road.									
46	Berewood Phase 1, Hambledon Road, Denmead (14/02872/REM)	104 units of private rented accommodation	0.13 km to west of the Order Limits	Granted Reserve Matters (24/03/2015) Under construction	Tier 1	Yes	(No considered as part of the baseline)	Unknown but possible construction overlap			
47	Land at Old Park Farm, Wimpey Site, Hambledon Road, Denmead (13/02843/FUL)	103 dwellings and associated infrastructure	0.36 km to south west of the Order Limits	Granted Full (31/07/2015) Under construction	Tier 1	No	No	Unknown but possible construction overlap			
48	Berewood Phase 2 Development Site, London Road, Purbrook (APP/14/00032)	Reserved matters application for 246 residential dwellings The phasing timetable is subject to the market sales rate, but is anticipated to be between three and four years to complete the development.	Eastern edge of site adjacent to Order Limits	Granted Reserved Matters (24/06/2014) Under construction	Tier 1	Yes	(No considered as part of the baseline)	Unknown but possible construction overlap			
49	Land at junction of Main Avenue and Hambledon Road, Dukes Meadow Development Site, Waterlooville (APP/14/00854)	Erection of extra care accommodation with 48 units and associated communal facilities, access, car parking and landscaping.	Northern boundary of site directly adjacent to the Order Limits	Granted Full (19/01/2015) Construction complete	n/a	Yes	(No considered as part of the baseline)				
50	Berewood Phase 2 Development Site, London Road, Purbrook	Reserved Matters application for Phase of the Town Park	Southern part of site adjacent (0.07 km) to Order Limits	Granted Reserved Matters (22/07/2014)	Tier 1	Yes	(No considered as part of the baseline)	Unknown but possible construction overlap	Works would be There may be indirect effects		No



	(APP/16/01211 and 16/03168/REM)			Construction not yet started					associated with tranquillity though this, combined would be insufficient to alter the level of effects given the short duration of installation works.		
51	Berewood Phase 3A, East of Newlands Avenue, Waterlooville (16/02621/REM)	Reserved Matters application for 296 dwellings	0.36 km west of the Order Limits	Granted Reserved Matters (10/01/2017)  Under construction	Tier 1	No	(No considered as part of the baseline)	Unknown but possible construction overlap			
52	Berewood Phase 13A, Development Land to the West of Newlands Avenue, Waterlooville, Hampshire (17/01772/REM)	Reserved Matters application for 73 dwellings	0.26 km to west of the Order Limits	Granted Reserved Matters (28/02/2018)  Under construction	Tier 1	No	No	Unknown but possible construction overlap			
53	Berewood Phase 9b, West of Marrelsmoor Avenue, Waterlooville, Hampshire (17/02957/REM)	Reserved Matters application for 75 dwellings	0.03 km west of the Order Limits	Granted Reserved Matters (28/02/2018)  Under construction	Tier 1	No	No	Unknown but possible construction overlap			
54	Berewood Phase 10a, South of Marrelsmoor	Reserved Matters application for 43 dwellings	0.03 km west of the Order Limits	Granted Reserved Matters	Tier 1	No	No	Unknown but possible			

	Avenue, Waterlooville, Hampshire (17/02956/REM)			(20/12/2018) Construction not yet started				construction overlap			
55	Berewood Phase 9a, West of Marrelsmoor Avenue, Waterlooville, Hampshire 18/01351/REM	Reserved Matters application for 104 dwellings	0.78 km west of the Order Limits	To be decided (determination expired 13/09/2018)	Tier 1	No	No	Unknown but possible construction overlap			
56	Berewood E2, Plot 1, Houghton Avenue, Waterlooville, Hampshire (18/01581/REM)	Reserved Matters application for 10,177 sqm of B1/B2/B8 floorspace	0.35 km south-west of the Order Limits	Granted Reserved Matters (11/12/2018)	Tier 1	No	No	Unknown but possible construction overlap			
57	Locks Farm, Botley Road, Bishops Waltham, Hampshire (18/01337/FUL)	Development of a gas powered standby generation facility and associated infrastructure (for a period of 25 years from date of commissioning)	11.8 km to north west of Order Limits	Application refused	Tier 1	No (but may be within a 360 degree field of view)	Yes	Unknown but possible construction overlap	Based on distance and the proposed height of the building which appears to be a maximum of 6.5m it is unlikely that there would be any cumulative effects on visual amenity or on landscape character		No

58	Portsmouth City Centre Highway Network incorporating parts of Mile End Road, Church Street, Commercial Road Marketway, Charlotte Street, Cascades Approach, Hope Street, Flathouse Road (17/02066/CS3)	Modification of existing road network around the A3 southwards from the junction with Princess Royal Way to the junction with Unicorn Road, including construction of a new link road between Flathouse Road and the A3 south of Herbert Street; associated site clearance, junction works, bus and cycle routes and necessary highway alterations, with landscaping, street furniture, road signage, markings and lighting. Demolition of Pickfords Vanguard Ltd, Flathouse Road, PO1 4QJ. Partial demolition and reconfiguration of the western edge of Morrisons Supermarket, Victory Retail Park, Flathouse Road, PO1 4QP. Repositioning of Clarence Street service yard access gate to Sainsbury's Supermarket, 315 Commercial Road, PO1 4BS.	2.10 km north-west of the Order Limits (at closest point)	To be decided (determination period expired (07/03/2018))	Tier 1	No (outside of ZOI for Onshore Cable Route)	No	Unknown but possible construction overlap			
59	Welborne Land North of Fareham, Fareham (P/17/0266/OA)	New Community of Up To 6000 Dwellings and various other uses	8.33 km west of the Order Limits (at closest point)	Granted - Outline	Tier 1	No (but may be within a 360 degree field of view)	Yes	Unknown but possible construction overlap	Development would not be of a mass and height comparable within the Converter Station		No
60	Site of Fawley Power Station (Fawley Waterside) (17/11559)	Mixed use redevelopment of redundant power station.	18.15 km west of the Order Limits (at closest point)	EIA Scoping submitted and opinion received from NFDC, NFNPA and MMO. Public consultation x2 – most recent July 2018 Outline application planned for	Tier 1	No (but may be within a 360 degree field of view)	Yes	Unknown but possible construction overlap	Given the likely scale of mixed use development it would not be comparable with the height and mass of the Converter		No

				submission in Autumn 2018. Outline application submitted May 2019.					Station therefore unlikely to generate any cumulative effects on visual amenity or on landscape character		
61	Number not used.										
62	North Portsea Island Coastal Flood Defence Scheme, Eastern Road and Kendall's Wharf (19/00706/FUL)	<p>Phase 4 of the North Portsea Island Coastal Flood Defence Scheme is a combination of two distinct sections: Kendall's Wharf and Eastern Road. The full length of the frontage is 2,4 km (300 m for Kendall's Wharf and 2,1 km for Eastern Road). The sea defences are being raised to +4,8 m AOD along the frontage to accommodate a 1 in 500 Standard of Protection (SOP). The road raising and steel sheet piles of Kendall's Wharf works will be raised to a lower level as set back from the coast.</p> <p>The Kendall's Wharf defences tie in with Anchorage park embankment defences (constructed in 2016) in the North and are set landward of Kendall's Wharf aggregates, who are responsible for their own flood protection. The first c. 150 m of sea defence will be a raised earth embankment with a 3 m crest and continuation of the 2 m wide coastal path. This will tie into an area of road raising landward of Kendall's Wharf. South of the road will be a 150 m steel sheet pile wall which will tie into the coastal defences at Eastern Road.</p>	Southern boundary of site adjacent to Order Limits	<p>Emerging - contract out for tender. Documentation for bidders was due for submission by 29/06/18</p> <p>Kendalls Wharf - Target commencement 09/2019. Target completion 04/2020.</p> <p>Eastern Road seawall – Target commencement 04/2020. Target completion 10/2022.</p> <p>Phase 4 /2022 Pre-application consultation undertaken in November 2018</p>	Tier 1	Yes	Yes (within the ZOI for the Onshore Cable Route)	Unknown but possible construction overlap	Likely to be localised temporary construction effects on landscape and visual amenity resulting from an overlap in activities along Eastern Road		Yes

		<p>The scope of the works for Eastern Road, at summary level, comprises of the construction of a reinforced seawall, including sheet pile and bearing pile installation with local realignment. Part of this will be an encasement and part new sea wall with a stepped revetment. The construction of replacement slipways and access steps will also be required.</p> <p>Other aspects of phase 4 that will /could be involved and should be considered by the contractor:</p> <ul style="list-style-type: none"> <li>— some minor elements of contractor led design,</li> <li>— additional ground /site investigation,</li> <li>— services searches and trial pitting to locate services,</li> <li>— installation of flood boards /gates,</li> <li>— responding to any emergency failures to other parts of PCC’s coastal defence related assets for which PCC may call on the contractor’s services,</li> <li>— site clearance,</li> <li>— demolition and removal of 150 m of existing seawall in the southern section of the site and creation of a high roost site /bird island,</li> <li>— reconstruction of the coastal path,</li> <li>— landscape works.</li> </ul>									
63	Southampton to London Pipeline project DCO	<p>Replacement of 90 km aviation fuel pipeline that runs from Fawley Refinery to West London Terminal Storage facility at Hounslow</p> <p>Works to install and commission the pipeline programmed to be completed early 2023 or earlier if possible.</p>	13.45 km to north-west of the Order Limits at closest point	Application submitted to PINS in May 2019, application accepted for examination in June 2019.	Tier 1	No (but may be within a 360 degree field of view)	No	Unknown but possible construction overlap	Whilst development would be extensive it would not be of a height or mass comparable within the		No

									Converter Station		
64	A27 Arundel Bypass DCO	A new dual carriageway bypass linking together the 2 existing sections of the road to replace the existing single carriageway road.	28.21 km east of the Order Limits at closest point	Preferred route announced May 2018 (Option 5a). New evidence on scheme has emerged (inc updated traffic modelling) on Options 1 and 3 since. Further non-statutory public consultation on Options 1, 3 and 5a planned for Spring 2019.  Scheme likely to be submitted in Q4 of 2019.	Tier 3	No  (but may be within a 360 degree field of view)	No		Due to distance and intervening topography / built form and vegetation which cumulative effects would not be generated		No
65	Norths Hill, Portsmouth, PO6 3RU (18/01646/FUL)	Construction of 20MW embedded Short Term Operating (STOR) generating plant building; auxillary equipment; DNO substation associated works; and a new wooden maintenance shed.	2.7 km to west of the Order Limits	Granted Full (14/12/2018).  Construction not started.	Tier 1	Yes	Yes (within 8km ZOI for the Converter Station)	Unknown but possible construction overlap	Small scale development but there would be some inter visibility due to the presence of stacks up to 15m high		Yes
66	Fraser Range (19/00420/FUL)	Part demolition and redevelopment of the site. Including the conversion of three existing structures and construction of new buildings (108 apartments and 26 houses), associated access, parking and landscaping works and construction of new seawall flood defences.	Adjacent to Eastern boundary of Order Limits	To be decided (determination expired 31/07/2019)	Tier 1	Yes	Yes (within 300m ZOI for the Landfall)	Unknown but possible construction overlap	Site access along lane to the south of Landfall and north of the Southsea Leisure Park. During construction there may be localised		Yes

									impacts on visual amenity		
67	Land South of Lovedean Electricity Substation, Broadway Lane, Lovedean, Waterlooville 57524/001	Installation of two energy storage systems and associated infrastructure with a total capacity of 49.95MW	Within the Order Limits	Permission granted on 17/04//2018, Planning Permission quashed at judicial review on 07/09/2018.  New Scoping Opinion requested by applicant on 01/11/2018. EHDC deemed no EIA required.  SoS stated that no EIA is required in July 2019.	Tier 1	Yes	Yes (within ZOI for the Converter Station)	Unknown but possible construction overlap	Proximity and type of development could generate impacts on landscape character and visual amenity		Yes
68	Land to the south of Old Mill Lane and east/south-east of The Haven, Denmead 19/01071/FUL	Pivot Power considering site for battery storage plant project	Within the Order Limits	Application withdrawn *	n/a	Yes (within the ZOI for the Converter Station)	Unknown but possible construction overlap	Due to proximity, impact on local landscape character and immediate visual receptors		Yes	Yes (within the ZOI for the Converter Station)
69	36 Mill Road Denmead PO7 6PA (16/01861/FUL)	Proposed land to rear of 32-36 MILL ROAD FOR 3 Houses of 1 No. 3 Bed House and 2 No. 2 Bed Houses	0.03 km to west of the Order Limits	Application permitted		Yes	Yes (lies close to the Onshore Cable Route)		Small scale development - Whilst the development would be in close proximity of the Onshore Cable		No



								Route the duration whereby both works may overlap is limited.		
70	Lovedean Electricity Station, Broadway Lane, Lovedean, Waterlooville, PO8 0SJ (32642/003)	Installation of 30m high Telecommunication Mast 0.6 m dish and 0.6 m antenna for network connections between electricity substations.	Within the Order Limits	Granted		Yes	Yes (lies within the ZOI for the Converter Station)	Whilst development is of a height it would be read in context with the existing Lovedean Substation albeit slightly higher than surrounding structures and insufficient to alter when combined with the Proposed Development		No
71	Land South of, Chalton Lane, Clanfield, Waterlooville (28463/002)	207 dwellings and provision of open space, sports pitches, bowling green, pavilion and allotments, with associated access, parking, access roads, footpaths/cycle paths, landscaping and works, with demolition of existing buildings and structures (as amended by plans received 30 September 2014)	3.65 km to north-east of the Order Limits	Permitted 2015		Yes	Yes (within ZOI to the north east of the Converter Station)	Given the location, well screened by surrounding topography, vegetation and built form there is no inter visibility with the Proposed		No



									Development and therefore impacts on visual amenity and indirect impacts on landscape character are negligible.		
72	Yew Tree Cottage, Eastland Gate, Lovedean, Waterlooville, PO8 0SR (26982/003)	Change of use of agricultural fields to private equestrian paddocks, creation of associated manege and horse walker	0.43 km to East of the Order Limits	Granted		Yes	No (already constructed and considered as part of baseline)				
73	England Coast Path – Portsmouth to South Hayling	Natural England’s proposals to the Secretary of State under section 51 of the National Parks and Access to the Countryside Act 1949 for improved access along the coast of Hampshire between Portsmouth and South Hayling	Within the Order Limits	19th July 2017, Natural England submitted a report to the Secretary of State for the Environment, Food and Rural Affairs setting out the proposals for improved access to the coast between Portsmouth and South Hayling		Yes	Yes (within the ZOI for the Onshore Cable Route)		Likely short term significant effects on visual amenity and landscape character given the extent of the route and proximity to section 7, 8, 9 and 10 of the Onshore Cable Route		Yes

74	Southsea Seafront from Long Curtain Moat in the West to Eastney Marine Barracks in the East (19/01097/FUL)	Flood and coastal erosion management scheme comprising a combination of vertical sea wall, raising and realignment of the promenade, construction of stepped revetment, rock armour revetments and groynes, secondary defence walls and bunds, beach widening and management, and all associated works, highway alterations, removal of trees and landscaping. Scheme includes the removal and repositioning of 34 Grade II Listed lamp columns, 3 Grade II Listed shelters and 6. Grade II Listed monuments, works affecting the Grade II Listed South Parade Pier, regrading and works to the Grade II Listed Southsea Common and works to the Grade I Listed Naval Memorial. The proposal constitutes EIA development.	Within the Order Limits	To be decided (Application submitted 16/07/2019, determination period expires 06/11/2019)	Tier 1	Yes	Yes (within the ZOI for the Landfall)	Yes – construction anticipate to commence early 2020 until 2026.	No effects on landscape character and visual amenity around the immediate vicinity of the Landfall or Onshore Cable Route	No
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\*The application for development number 68 (Land to the south of Old Mill Lane and east/south-east of The Haven, Denmead 19/01071/FUL) was withdrawn on the 2/07/2019. As the application could be re-submitted in the future, for the purpose of the cumulative effects assessment, it has been assessed.

## REFERENCES

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Planning Inspectorate. (2015). Advice note seventeen: Cumulative effects assessment relevant to nationally significant infrastructure.

