



AQUIND Limited

AQUIND INTERCONNECTOR

Environmental Statement Addendum –
Appendix 16 Cumulative Effects Assessment
Matrix (Stage 3 & 4)

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 16 Cumulative Effects Assessment
Matrix (Stage 1 & 2)

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CUMULATIVE EFFECTS ASSESSMENT MATRIX (STAGES 3 & 4)

Table 1 – Stage 3 & 4 Matrix for Landscape and Visual Amenity (APP-408)

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
62b	Tier 1	North Portsea Island Coastal Flood Defence Scheme, Eastern Road and Kendall's Wharf (19/00706/FUL – Phase 4a, Granted conditional permission 25/07/2019)	North Portsea Island Coastal Flood Defence Scheme, Eastern Road and Kendall's Wharf. 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).	Section 7 and 8 Onshore Cable Route: Works associated with the flood defence scheme would include the introduction of retaining walls / new sea walls to a height of 1.2m (altering the sense of openness and views), new planting, raised footpaths, improvements to the public realm including	Proposed mitigation: If sites are constructed concurrently close site liaison and management would be required to reduce effects, in relation to impacts on landscape, visual amenity, construction traffic	Landscape character: Minor to minor-negligible adverse (not significant) cumulative effects on landscape character UCA 1, 2 and 17. Localised moderate adverse (Significant) effects associated with open space, vegetation, PRow's including Solent Way and minor - moderate adverse

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
		(19/01368/FUL – Phase 4b. Granted Full 20/02/2020)	<p>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</p>	<p>“social spots”, seating areas, sculptures and fencing / handrails.</p> <p>Construction works associated with the flood defence scheme would require temporary access roads, facilities and six work compounds cutting across the Onshore Cable Route including around Kendall's Wharf, Andrew Simpson Watersports Centre and Pavilion as well as land to the north of Milton Common, south of the Harvester pub and west of the existing car park off Eastern Road. Some vegetation clearance</p>	<p>management and noisy activities. This would be implemented through the OCEMP.</p> <p>A clear coordinated programme of works would be required agreeing the siting of compounds, temporary access routes and facilities and cable works installed prior to landscape enhancements works to ensure no loss or damage to new hard and soft</p>	<p>(significant) effects on tranquillity.</p> <p>Visual amenity:</p> <p>Moderate adverse (significant) on local resident's namely those at Harbourside Park and minor – moderate and moderate (significant) effects on recreational users.</p> <p>Site liaison, management and phased timing of works would reduce effects on tranquillity.</p>

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			<p>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> <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</p>	<p>will take place (primarily near Kendall's Wharf) and a PRoW forming part of the Solent Way to the east of Kendalls' Wharf would be diverted and run along the eastern edge of Eastern Road from 2019 to 2021.</p> <p>Likely to be direct and indirect localised temporary construction effects on landscape and visual amenity resulting from an overlap in activities around Kendall's Wharf, Baffins Milton Rovers Football ground and Milton Common.</p>	<p>works associated with the coastal defence works. If this is not achievable reinstatement works after the cable works needs to align with original coastal defence proposals. This will be implemented through the OCEMP.</p>	

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			stepped revetment. The construction of replacement slipways and access steps will also be required.	<p>Sensitive receptors include residents of Harbourside Park, Great Saltern Mansion, recreational users of Baffins Milton Rover Football Ground, Andrew Simpson Watersports Centre, Milton Common, Great Saltern Golf Club, University of Portsmouth Langstone Campus and users of PRoWs and footpaths including the Solent Way – the coastal path as well as local transport, industrial and retail workers.</p> <p>Landscape character – open space,</p>		

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
				vegetation, PRoW including the Solent Way and tranquillity.		

Table 2 – Stage 3 & 4 Matrix for Chapter 16 (Onshore Ecology) (APP-424)

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
62b	Tier 1	North Portsea Island Coastal Flood Defence Scheme, Eastern Road and Kendall's Wharf (19/00706/FUL – Phase 4a, Granted conditional permission 25/07/2019)	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	Potential overlap between the Proposed Development Order Limits and mitigation areas proposed by North Portsea Island Coastal Flood Defence Scheme Phase 4b would occur if the southern route option around Milton Common is taken. Phase 4b compensation areas	Winter working restrictions have been put in place by the Proposed Development and North Portsea Island Coastal Defence Scheme Phase 4a and 4b to avoid effects on brent geese and other wintering birds using terrestrial	Negligible (not significant)

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
		(19/01368/FUL – Phase 4b. Granted Full 20/02/2020)	<p>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</p>	<p>are within Milton Common and would comprise compensatory foraging areas through grassland enhancement for brent geese and other bird species associated with Solent Wader and Brent Goose Strategy (SWBGS) sites. The overlap would potentially lead to reduction in the extent of enhanced grassland available in the southernmost compensation area as work within the Proposed Development Order Limits may restrict the planned enhancement</p>	<p>foraging habitat. Although it is considered that ample suitable habitat exists on the northern and western sides of the planned Phase 4b compensation area, the associated overlap with the Planned development requires mitigation. As outlined in the Winter Working Principles for the Proposed Development (Appendix 16.14 of the Environmental</p>	

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			<p>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> <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</p>	<p>work, meaning grassland would not be established by the winter season when it is required by birds for foraging. In addition, construction work from the Proposed Development in the non-breeding season (October – March) has the potential to lead to disturbance through either visual or noise means on birds present within the compensation area.</p> <p>Moderate adverse (significant) effect</p>	<p>Statement) SWBGS sites will be avoided during the non-breeding season. This restriction would therefore apply to the area of works of the Proposed Development immediately adjacent to and overlapping with the ESCP compensation area. Furthermore, no works that are likely to exceed the prescribed 69dB threshold within the compensation area will be permitted during</p>	

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			and access steps will also be required.		the non-breeding season. This will be implemented through the OCEMP.	

Table 3 – Stage 3 & 4 Matrix for Air Quality (APP-459)

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
3a	Tier 1	Development Land East of Horndean, Rowlands Castle Road, Horndean, Waterlooville (55562/005)	Outline planning application with all matters reserved, except the means of access to the highway network (junction arrangements) and associated highway improvements, for the demolition of existing buildings and the residential-led (C3) mixed-use development of the site with up to 800 dwellings, up to 2ha of employment land (uses B1 and B2), a Local Centre (including: local retail (food and non-food A1); financial and professional services (A2); restaurants, cafés, and drinking	Distant from the Order Limits, but with a small potential for combined effects from construction traffic and vehicle trackout. Negligible effect.	N/A Not Significant - No additional mitigation required	Negligible (not significant) No residual cumulative effect is expected due to the requirement for dust risk assessments. The assessed dust risk is used to determine commensurate mitigation measures in accordance with the IAQM (Institute of Air Quality Management, 2016).

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			establishments (A3 and A4), hot food takeaways (A5), together with a primary school (D1) and community facilities (D2)), informal and formal open space, allotments, and acoustic bunds, together with associated drainage, utilities and all other associated and necessary infrastructure			
3b	Tier 1	Development Land East of Horndean, Rowlands Castle Road, Horndean, Waterlooville (55562/006)	Outline Application – Development for up to 85 age restricted dwellings (aged 55 years and above) with associated infrastructure, formal and informal open space and access from Rowlands Castle Road following demolition of	Distant from the Order Limits, but with a small potential for combined effects from construction traffic and vehicle trackout. Negligible effect.	N/A Not Significant - No additional mitigation required	Negligible (not significant) No residual cumulative effect is expected due to the requirement for dust risk assessments. The assessed dust risk is used to determine commensurate

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			all buildings and removal of hardstanding (Access to be considered in detail)			mitigation measures in accordance with the IAQM (Institute of Air Quality Management, 2016).
3c	Tier 1	Development Land East of Horndean, Rowlands Castle Road, Horndean, Waterlooville (55562/007)	Outline application – Development of a care village comprising a 60-bed care home, a village care centre (VCC) incorporating up to 60 no. care-assisted living apartments and up to 60 no. extra care units comprising bungalows and apartments, with associated parking, landscaping and sustainable drainage (with all matters reserved).	Distant from the Order Limits, but with a small potential for combined effects from construction traffic and vehicle trackout. Negligible effect.	N/A Not Significant - No additional mitigation required	Negligible (not significant) No residual cumulative effect is expected due to the requirement for dust risk assessments. The assessed dust risk is used to determine commensurate mitigation measures in accordance with the IAQM (Institute of Air Quality Management, 2016).

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
3d	Tier 1	Development Land East of Horndean, Rowlands Castle Road, Horndean, Waterlooville (55562/008)	Outline planning application for the development of a 60-bed care home and up to 50 no. extra care bungalows and apartments with associated parking, landscaping and sustainable drainage (with all matters reserved).	Distant from the Order Limits, but with a small potential for combined effects from construction traffic and vehicle trackout. Negligible effect.	N/A Not Significant - No additional mitigation required	Negligible (not significant) No residual cumulative effect is expected due to the requirement for dust risk assessments. The assessed dust risk is used to determine commensurate mitigation measures in accordance with the IAQM (Institute of Air Quality Management, 2016).
62b	Tier 1	North Portsea Island Coastal Flood Defence Scheme, Eastern Road and Kendall's Wharf	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	Directly adjacent to Order Limits, dust effects, construction traffic and trackout from construction vehicles may	N/A Not Significant - No additional mitigation No additional mitigation required.	Negligible (not significant) No residual cumulative effect is expected due to

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
		<p>(19/00706/FUL – Phase 4a, Granted conditional permission 25/07/2019)</p> <p>(19/01368/FUL – Phase 4b. Granted Full 20/02/2020)</p>	<p>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</p>	<p>combine. Negligible effect.</p>		<p>the requirement for dust risk assessments. The assessed dust risk is used to determine commensurate mitigation measures in accordance with the IAQM (Institute of Air Quality Management, 2016).</p>

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			<p>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> <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.</p>			

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			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.			
78	Tier 1	St James Hospital, Locksway Road, Southsea, PO4 8LD (20/00204/LBC & 20/00205/FUL)	Redevelopment of former St James' Hospital comprising the conversion of listed buildings to provide 146 dwellings and associated works, including demolition, erection of new 2 storey housing and 3 storey apartments to provide 84 dwellings and associated works.	Distant 0.2km from the Order Limits; dust effects, construction traffic and trackout from construction vehicles may combine. Minor effect.	N/A Not Significant - No additional mitigation No additional mitigation required.	Negligible (not significant) No residual cumulative effect is expected due to the requirement for dust risk assessments. The assessed dust risk is used to determine commensurate mitigation measures in accordance with the IAQM (Institute of Air Quality Management, 2016).

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
79	Tier 1	Portsmouth College, Tangier Road, Portsmouth, PO3 6PZ (20/00241/FUL)	Construction of two storey building (Class D1) with associated soft and hard landscaping	Distant 0.6km from the Order Limits; only trackout and construction vehicles may combine. Negligible effect.	N/A Not Significant - No additional mitigation No additional mitigation required.	No residual cumulative effect is expected due to the requirement for dust risk assessments. The assessed dust risk is used to determine commensurate mitigation measures in accordance with the IAQM (Institute of Air Quality Management, 2016).
80	Tier 1	Waterlooville Swimming Pool, Waterberry Drive, Waterlooville, PO7 7UW (APP/20/00257)	Hybrid Application: Full planning application for reconfiguration of existing ground car park and development of single storey deck car park. Outline planning application for future extensions on current footprint of overflow car park at Waterlooville	Distant 0.2km from the Order Limits; dust effects, trackout and construction vehicles may combine. Minor effect.	N/A Not Significant - No additional mitigation No additional mitigation required.	No residual cumulative effect is expected due to the requirement for dust risk assessments. The assessed dust risk is used to determine commensurate mitigation measures in accordance with the IAQM (Institute of Air

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			Leisure Centre with access and layout to be considered with all other matters reserved.			Quality Management, 2016).

Table 4 – Stage 3 & 4 Matrix for Chapter 24 Noise and Vibration (APP-468)

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
62b	Tier 1	<p>North Portsea Island Coastal Flood Defence Scheme, Eastern Road and Kendall's Wharf</p> <p>(19/00706/FUL – Phase 4a, Granted conditional permission 25/07/2019)</p> <p>(19/01368/FUL – Phase 4b. Granted Full 20/02/2020)</p>	<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>A significant adverse noise effect has been identified at the Harbourside Caravan Park during the construction of the cable route on the basis of 24 hour working on Eastern Road.</p> <p>Should the construction periods coincide, there is the potential for the magnitude of impact and duration of effect at the Harbourside Caravan Park to increase.</p>	<p>Once the specific construction programmes for both schemes are known, the works should be programmed such that concurrent construction works on the c.300m sections of both schemes near the Harbourside Caravan Park are avoided.</p> <p>Providing a sufficient temporal gap between construction of the two schemes</p>	<p>On the assumption that concurrent construction activities outside the Harbourside Caravan Park are avoided, a cumulative adverse effect will be avoided.</p> <p>A Minor adverse (not significant) Temporary, Short term effect, has been identified.</p>

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			<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>	<p>However, the area where a cumulative effect could potentially occur comprises a c.300m section of the Onshore Cable Corridor and Flood Defence Scheme, which is a relatively small section of these schemes in their entirety. Both of these schemes are linear in the way they are constructed, which will limit the duration of exposure of any individual sensitive receptor to adverse construction impacts.</p>	<p>on this c.300m section would provide respite to occupiers at the Caravan Park. This will be implemented through the OCEMP.</p> <p>Considering that this c.300m section forms a small part of each scheme, it is anticipated this would be feasible.</p>	

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			<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>			

Table 5 – Stage 3 & 4 Matrix for Socio-economics (APP-472)

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
62b	Tier 1	<p>North Portsea Island Coastal Flood Defence Scheme, Eastern Road and Kendall's Wharf</p> <p>(19/00706/FUL – Phase 4a, Granted conditional permission 25/07/2019)</p> <p>(19/01368/FUL – Phase 4b. Granted Full 20/02/2020)</p>	<p>Application to seek approval of details reserved by conditions 6, 8a, 11, 13, 16 and 20 of planning permission 19/01368/FUL (tidal habitat reinstatement, Biodiversity mitigation, 'Compound 6' method, CEMP, Drainage, Materials)</p>	<p>Potential for socio-economic and recreational receptors (medium to high sensitivity) to have increased disturbance from construction of the new sea wall and rock armouring as well as the Onshore Cable Route. These include Baffins Milton Rovers Football ground (high), Tudor Sailing Club (medium), Andrew Simpson Watersports Centre (medium), Kendall's Wharf (medium), Milton Common (high), Great Saltern</p>	<p>N/A for majority of receptors as effect not significant.</p> <p>If sites are constructed concurrently then site liaison and management would be required to reduce effects, for example in relation construction traffic management and noisy activities.</p> <p>Consultation with user groups of sports facilities, PROW and local authority.</p> <p>This mitigation will be implemented through the OCEMP.</p>	<p>Minor to moderate adverse (Not significant), indirect, temporary and short-term.</p>

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
				<p>Golf Course (medium), University of Portsmouth Langstone Campus (medium) and users of PRowS and footpaths including the Solent Way (High)</p> <p>Disruption could last up to several weeks but the magnitude would be low and isolated to the sports facilities, PRow and industrial units located off Eastern Road. Minor to moderate adverse effect for businesses; moderate adverse</p>		

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
				effect for users of open space.		
78	Tier 1	St James Hospital, Locksway Road, Southsea, PO4 8LD (20/00204/LBC & 20/00205/FUL)	<p>Redevelopment of former St James' Hospital comprising the conversion of listed buildings to provide 146 dwellings and associated works including demolition of extensions and ancillary buildings, erection of new 2 storey housing and 3 storey apartments to provide 84 dwellings, retention of cricket pitch and listed chapel, provision of car parking, associated landscaping and other work</p> <p>Conversion of main hospital and Shore's Trust buildings, including external alterations - demolition of boiler house, kitchen and storage wings, service room and 20th Century buildings, window and door alterations, recessed and</p>	<p>Potential for socio-economic receptors (medium sensitivity) to have increased disturbance from construction from both new development and the Onshore Cable Route, in particular University of Portsmouth Playing Fields (medium) and St James' Hospital (medium).</p> <p>Disruption could last up to several weeks, but the magnitude would be low and isolated to properties adjacent to Langstone Way,</p>	N/A Effect not significant.	Minor to moderate adverse (not significant), indirect, temporary and short-term.

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			projecting dormers, new stairs; Internal alterations to include alterations to walls, doorways and staircases. Construction of new housing; provision of parking and landscaping.	Nelson Drive and Woodlands Walk. Minor adverse effect.		
79	Tier 1	Portsmouth College, Tangier Road, Portsmouth, PO3 6PZ (20/00241/FUL)	Construction of two storey building (Class D1) with associated soft and hard landscaping	<p>Potential for socio-economic receptors (medium sensitivity) to have increased disturbance from construction from both the Portsmouth College site and the Onshore Cable Route, in particular the Great Salterns Golf course (medium).</p> <p>Disruption could last up to several weeks, but the magnitude would be low and will be isolated to</p>	N/A Effect not significant.	Minor to moderate adverse (not significant), indirect, temporary and short-term.

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
				Tangier Road. Minor adverse effect.		
80	Tier 1	Waterlooville Swimming Pool, Waterberry Drive, Waterlooville, PO7 7UW (APP/20/00257)	Full planning application for reconfiguration of existing ground car park and development of single storey deck car park. Outline planning application for future extension on current footprint of overflow car park at Waterlooville Leisure Centre with access and layout to be considered and with all other matters reserved.	Potential for socio-economic receptors (medium sensitivity) to have increased disturbance from construction from both new car park and Onshore Cable Route. Construction of the onshore cable could last up to several weeks however, due to the relatively short duration, the magnitude would be low and isolated to properties adjacent to Hambledon Road. Minor adverse effect.	N/A Effect not significant.	Minor to moderate adverse (not significant), indirect, temporary and short-term.

Table 6 – Stage 3 & 4 Matrix for Human Health (APP-476)

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
3a	Tier 1	Development Land East of Horndean, Rowlands Castle Road, Horndean, Waterlooville (55562/005)	Outline planning application with all matters reserved, except the means of access to the highway network (junction arrangements) and associated highway improvements, for the demolition of existing buildings and the residential-led (C3) mixed-use development of the site with up to 800 dwellings, up to 2ha of employment land (uses B1 and B2), a Local Centre (including: local retail (food and non-food A1); financial and professional services (A2); restaurants,	<p>Potential for human health receptors (high sensitivity) to have increased disturbance from construction and reduced air quality due to effects from construction traffic and vehicle trackout.</p> <p>The impact would be adverse, though of low intensity and only effecting a small number of people (residential receptors adjacent to Havant Road and the A3 in Cowplain).</p> <p>Therefore the effects will be minor adverse (not significant) and</p>	N/A Effect not significant	Minor adverse (not significant), temporary and short-term

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			cafés, and drinking establishments (A3 and A4), hot food takeaways (A5), together with a primary school (D1) and community facilities (D2)), informal and formal open space, allotments, and acoustic bunds, together with associated drainage, utilities and all other associated and necessary infrastructure	temporary for the general population.		
3b	Tier 1	Development Land East of Horndean, Rowlands Castle Road,	Outline Application – Development for up to 85 age restricted dwellings (aged 55 years and above) with associated infrastructure, formal	Potential for human health receptors (high sensitivity) to have increased disturbance from construction and reduced air quality	N/A Effect not significant	Minor adverse (not significant), temporary and short-term

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
		Horndean, Waterlooville (55562/006)	and informal open space and access from Rowlands Castle Road following demolition of all buildings and removal of hardstanding (Access to be considered in detail)	due to effects from construction traffic and vehicle trackout. The impact would be adverse, though of low intensity and only effecting a small number of people (residential receptors adjacent to Havant Road and Rowlands Caste Rd). Therefore the effects will be minor adverse (not significant) and temporary for the general population.		
3c	Tier 1	Development Land East of Horndean, Rowlands Castle Road,	Outline application – Development of a care village comprising a 60-bed care home, a village care centre (VCC) incorporating up	Potential for human health receptors (high sensitivity) to have increased disturbance from construction and	N/A Effect not significant	Minor adverse (not significant), temporary and short-term

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
		Horndean, Waterlooville (55562/007)	to 60 no. care-assisted living apartments and up to 60 no. extra care units comprising bungalows and apartments, with associated parking, landscaping and sustainable drainage (with all matters reserved).	reduced air quality due to effects from construction traffic and vehicle trackout. The impact would be adverse, though of low intensity and only effecting a small number of people (residential receptors adjacent to Havant Road and Rowlands Castle Rd). Therefore the effects will be minor adverse (not significant) and temporary for the general population.		
3d	Tier 1	Development Land East of Horndean, Rowlands	Outline planning application for the development of a 60-bed care home and up	Potential for human health receptors (high sensitivity) to have increased	N/A Effect not significant	Minor adverse (not significant), temporary and short-term

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
		Castle Road, Horndean, Waterlooville (55562/008)	to 50 no. extra care bungalows and apartments with associated parking, landscaping and sustainable drainage (with all matters reserved).	disturbance from construction and reduced air quality due to effects from construction traffic and vehicle trackout. The impact would be adverse, though of low intensity and only effecting a small number of people (residential receptors adjacent to Havant Road and Rowlands Castle Rd). Therefore the effects will be minor adverse (not significant) and temporary for the general population.		
62b	Tier 1	North Portsea Island Coastal Flood Defence	Phase 4 of the North Portsea Island Coastal Flood Defence Scheme	Potential for human health receptors (high sensitivity) to have	N/A Effect not significant	Minor adverse (not significant)

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
		<p>Scheme, Eastern Road and Kendall's Wharf</p> <p>(19/00706/FUL – Phase 4a, Granted conditional permission 25/07/2019)</p> <p>(19/01368/FUL – Phase 4b. Granted Full 20/02/2020)</p>	<p>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</p>	<p>increased disturbance related to dust, traffic and noise from construction of the new sea wall and rock armouring as well as the Onshore Cable Route. his includes PRowS and footpaths including the Solent Way – the coastal path.</p> <p>The impact would be adverse, though of low intensity and only effecting a small number of people (residential receptors adjacent to Eastern Rd). Therefore the effects will be minor adverse (not significant) and</p>		<p>temporary and short-term.</p>

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			<p>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>	<p>temporary for the general population.</p>		

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			<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>			

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			<ul style="list-style-type: none"> — some minor elements of contractor led design, — additional ground /site investigation, — services searches and trial pitting to locate services, — installation of flood boards /gates, — 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, — site clearance, — demolition and removal of 150 m of existing seawall in the southern section of the 			

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			site and creation of a high roost site /bird island, — reconstruction of the coastal path, — landscape works.			
78	Tier 1	St James Hospital, Locksway Road, Southsea, PO4 8LD (20/00204/LBC & 20/00205/FUL)	Redevelopment of former St James' Hospital comprising the conversion of listed buildings to provide 146 dwellings and associated works, including demolition, erection of new 2 storey housing and 3 storey apartments to provide 84 dwellings and associated works.	Potential for human health receptors (high sensitivity) to have increased disturbance from construction and reduced air quality due to effects from construction traffic and vehicle trackout. The impact would be adverse, though of low intensity and only effecting a small number of people	N/A Effect not significant	Minor adverse, temporary and short-term

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
				(residential receptors adjacent to Langstone Way, Nelson Drive and Woodlands Walk). Therefore the effects will be minor adverse (not significant) and temporary for the general population.		
79	Tier 1	Portsmouth College, Tangier Road, Portsmouth, PO3 6PZ (20/00241/FUL)	Construction of two storey building (Class D1) with associated soft and hard landscaping	Potential for human health receptors (high sensitivity) to have increased disturbance from construction and reduced air quality due to effects from construction traffic and vehicle trackout. The impact would be adverse, though of	N/A Effect not significant	Minor adverse, temporary and short-term

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
				low intensity and only effecting a small number of people (residential receptors adjacent to Tangier Road). Therefore the effects will be minor adverse (not significant) and temporary for the general population.		
80	Tier 1	Waterlooville Swimming Pool, Waterberry Drive, Waterlooville, PO7 7UW (APP/20/00257)	Hybrid Application: Full planning application for reconfiguration of existing ground car park and development of single storey deck car park. Outline planning application for future extensions on current footprint of overflow car park at	Potential for human health receptors (high sensitivity) to have increased disturbance from construction and reduced air quality due to effects from construction traffic and vehicle trackout. The impact would be	N/A Effect not significant	Minor adverse, temporary and short-term

ID	Tier	Application Reference	Application for development and brief description	Assessment of cumulative effect	Proposed mitigation applicable	Residual cumulative effect
			Waterlooville Leisure Centre with access and layout to be considered with all other matters reserved.	adverse, though of low intensity and only effecting a small number of people (residential receptors adjacent to Hambledon Road). Therefore the effects will be minor adverse (not significant) and temporary for the general population.		

