

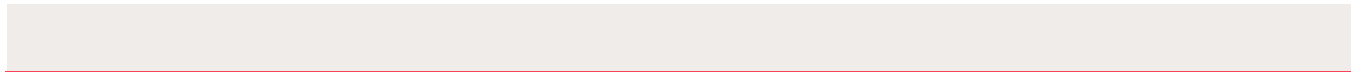
Rampion 2 Wind Farm
Category 6:
Environmental Statement
Volume 4, Appendix 26.1:
Detailed water environment baseline
information
Date: August 2023
Revision A

Document Reference: 6.4.26.1
Pursuant to: APFP Regulation 5 (2) (a)
Ecodoc number: 004866590-01



Document revisions

Revision	Date	Status/reason for issue	Author	Checked by	Approved by
A	04/08/2023	Final for DCO Application	WSP	RED	RED



Contents

1.	Introduction	3
2.	Detailed baseline	5
2.1	Aquatic environment	5
	Conservation sites	5
2.2	Water resources	29
3.	Glossary of terms and abbreviations	69
4.	References	71

List of Tables

Table 2-1	Conservation sites within the Water Environment Study Area with potential water dependency or geological features of interest	7
Table 2-2	WFD water bodies across the Water Environment Study Area	17
Table 2-3	Registered PWSs within the Water Environment Study Area	31
Table 2-4	Licences abstractions within the Water Environment Study Area	43
Table 2-5	Consented discharges within the proposed DCO Order Limits	67
Table 3-1	Glossary of terms and abbreviations	69



Page intentionally blank

1. Introduction

- 1.1.1 As part of the works in support of the Rampion 2 Environmental Statement (ES), this Appendix presents detailed results of desktop studies to establish the existing water environment conditions within the Water Environment Study Area. The detailed information on water dependent conservation sites, Water Framework Directive (WFD) Classifications and water resources within this Appendix informs the summary of baseline information and the assessment of potential effects in **Chapter 26: Water environment, Volume 2** of the ES (Document Reference 6.2.26). Background information on the approach to the assessment including the Study Area and data gathering methodologies is also presented in **Chapter 26: Water environment, Volume 2** of the ES (Document Reference 6.2.26) for reference.

Page intentionally blank

2. Detailed baseline

2.1 Aquatic environment

Conservation sites

Overview

- 2.1.1 **Section 2.1** provides details of designated conservation sites where hydrological or hydrogeological conditions support water dependent features. A complete list of other designated sites (including non - water dependent sites) is provided in **Chapter 26: Water environment, Volume 2** of the ES (Document Reference 6.2.26).
- 2.1.2 Within the Water Environment Study Area five statutory designated sites and three designated non - statutory sites have been identified as being potentially water dependent (Natural England 2018). **Table 2-1** provides details of their potential water dependency and location in relation to the proposed Development Consent Order (DCO) Order Limits to help determine whether they have a potential hydrological or hydrogeological connection to the Proposed Development. **Table 2-1** also identifies Local Geological Sites (LGSs) or the same reason. The sites are presented in **Chapter 26: Water environment, Volume 2** of the ES (Document Reference 6.2.26) and within **Figure 26-2, Volume 3** of the ES (Document Reference: 6.3.26).
- 2.1.3 From the statutory designated and non - statutory designated sites presented in **Table 2-1**, it is considered that the only sites which are to be 'screened in' for further assessment within **Chapter 26: Water environment, Volume 2** of the ES (Document Reference 6.2.26) are Amberly Mount to Sullington Hill Site of Special Scientific Interest (SSSI), Bines Green LWS and Rock Common Sand Quarry LGS, within the central section of the proposed DCO Order Limits. There are also numerous undesignated Chalk streams and South Downs National Park Authority (SDNPA) ponds which are to be 'screened in' for further assessment.



Page intentionally blank

Table 2-1 Conservation sites within the Water Environment Study Area with potential water dependency or geological features of interest

Designated conservation site	Description and water dependency	Potential connection to the proposed DCO Order Limits
Designated conservation sites		
Arundel Park SSSI	Groundwater dependent Chalk grassland with a rich invertebrate assemblage which includes an artificial lake (Swanbourn Lake) and marsh.	Screened out: the site is positioned 2.3km west of the proposed DCO Order Limits and on the opposite bank of the River Arun and therefore considered to be hydrologically disconnected.
Chanctonbury Hill SSSI	Although not designated as groundwater dependent, this site has an artificially constructed dew pond (surface water fed by rainfall) which supports species of newt.	Screened out: the site is approximately 750m to the south-east and upgradient of the proposed DCO Order Limits, therefore the surface water-fed habitats are highly unlikely to be hydrologically linked.
Amberly Mount to Sullington Hill SSSI	Two groundwater dependent Chalk grasslands on scarp slopes including juniper scrub habitat and rare invertebrates.	Screened in: the nearest unit which lies on the northern slopes of Sullington Hill encroaches on the edge of the proposed DCO Order Limits associated with access track and is approximately 220m and directly downgradient of the onshore temporary construction corridor.
Beeding Hill to Newtimber Hill SSSI	Groundwater dependent Chalk grassland which has a spring and an area of willow carr, scrub and heath. There is also an artificially constructed dew pond (surface water-fed).	Screened out: the site is approximately 6km to the south of the proposed DCO Order Limits and the onshore temporary construction corridor near Ashurst. It is fed by a flush formed at the bottom of the easterly slopes of Beeding Hill where there are localised Chalk groundwater catchments with no hydrogeological pathways from Rampion 2.

Designated conservation site	Description and water dependency	Potential connection to the proposed DCO Order Limits
Adur Estuary SSSI	This SSSI is designated as a rare intertidal mudflat within the tidal part of the River Arun. It is also identified as groundwater dependent.	Screened out: the site is situated downstream of the Proposed Development approximately 8.2km from the nearest part of the proposed DCO Order Limits which is the onshore temporary construction corridor near Ashurst. Given its distance, the large potential for dilution and because the mudflat is tidally influenced it is highly unlikely that there will be any potential for effects from Rampion 2.
Non – statutory designated sites with potential for water dependency		
Arun Valley, Watersfield to Arundel LWS	Features includes a system of flood meadows dissected by ditches which are botanically rich, supporting species including water beetles/ dragonflies.	Screened out: the site is positioned 1.1km west of the proposed DCO Order Limits and on the opposite side of Warningcamp Hill and therefore considered to be hydrologically disconnected.
Bines Green LWS	Features include neutral grassland and a surface water pond with high botanical interest.	Screened in: the associated surface water pond is situated at a similar gradient approximately 80m to the north-east of the Bines Green access point of the proposed DCO Order Limits.
Lancing Ring Local Nature Reserve (LNR)	Features include a surface water fed dew pond which supports newts.	Screened out: the site is approximately 7.5km to the south-east of the proposed DCO Order Limits, and these surface water-fed habitats are highly unlikely to be hydrologically linked.
Warningcamp Quarry	Disused Chalk quarry exposing higher part of the Culver Chalk Formation.	Screened out: the site is 175m north and upgradient of the proposed DCO Order Limits associated with an access track.

Designated conservation site	Description and water dependency	Potential connection to the proposed DCO Order Limits
Climping Sand Dune System	One of the few good sand dune systems preserved in Sussex.	Screened out: the dune system is adjacent to the proposed DCO Order Limits along its southern boundary and respectively 320m and 400m from the proposed trenchless landfall Transition Joint Bay (TJB) sites.
Washington Chalk Pit, Horsham	Spans the Cenomanian/Turonian (CT) Junction.	Screened out: the site is 580m to the south and upgradient of the proposed DCO Order Limits, therefore unlikely to be hydrologically linked.
Rock Common Sand Quarry, Washington	This large quarry is of importance for paleoenvironmental studies.	Screened in: the southern boundary of the quarry boundary is directly adjacent to the proposed DCO Order Limits near Washington, West Sussex.
Combe Croft Quarry, Henfield	Disused sandstone quarry in Hythe Beds, Lower Greensand.	Screened out: the site is 1.2km to the south-west and upgradient of the proposed DCO Order Limits near Bines Green so unlikely to be hydrologically linked.
Chalk Streams		
Chalk stream headwaters of the black ditch south of the A27	Chalk stream identified in South Downs National Park Authority (SDNPA) 2010 survey.	Screened in: the Chalk stream headwaters are crossed by a section of the proposed DCO Order Limits at (NGR: TQ050053) where an open cut cable crossing is proposed. The Chalk stream is also in close proximity to the proposed DCO Order Limits (NGR: TQ056055, TQ062055, TQ066058 and TQ071059).
Chalk stream south of Warningcamp.	Chalk stream identified in South Downs National Park Authority (SDNPA) 2010 survey.	Screened out: the Chalk stream is not crossed or within close proximity of the proposed DCO Order Limits.

Designated conservation site	Description and water dependency	Potential connection to the proposed DCO Order Limits
Chalk streams near Buncton.	Chalk stream identified in South Downs National Park Authority (SDNPA) 2010 survey.	Screened in: Chalk streams are crossed by the proposed DCO Order Limits at TQ139134 (open cut crossing) and TQ140134 (trenchless crossing). The Chalk streams are also in close proximity at TQ142133, TQ144136 and TQ122129.
SDNPA Ponds		
A Garden Pond at Angmering Park Stud Farm (NGR: TQ067073) (DP1)	Identified by SDNPA as a pond in good condition (SDNPA, 2010).	Screened in: pond is approximately 300m north-west and downgradient of the proposed DCO Order Limits.
A farmyard pond at Lower Barpham (NGR: TQ071091) (DP2).	Identified by SDNPA as a pond of unknown status and condition (SDNPA, 2020).	Screened out: pond is approximately west and 340m upgradient of the proposed DCO Order Limits.
A dew pond north-east of Michelgrove Park (NGR: TQ082082) (DP3).	Identified by SDNPA as a pond of unknown status and condition (SDNPA, 2020).	Screened in: pond is located 50m south and down gradient of an access track associated with the proposed DCO Order Limits.
A dew pond to the south of Long Furlong Farm (NGR: TQ095081) (DP4).	Identified by SDNPA as a pond of unknown status and condition (SDNPA, 2010).	Screened in: pond located approximately 260m south-east and downgradient of the proposed DCO Order Limits.
Dew pond east of Harrow Hill (NGR TQ086097) (DP5).	Identified by SDNPA as a pond of unknown status and condition (SDNPA, 2010).	Screened in: pond located approximately 340m north-west and downgradient of the proposed DCO Order Limits.

Designated conservation site	Description and water dependency	Potential connection to the proposed DCO Order Limits
Dew pond located between Harrow Hill and Myrtle Grove Farm (NGR TQ087092) (DP6).	Identified by SDNPA as a pond of unknown status and condition (SDNPA, 2010).	Screened in: pond located approximately 15m to the west and downgradient of the proposed DCO Order Limits. Screened in for further assessment.
A farmyard pond east of Lee Farm (NGR: TQ077104) (DP7)	Identified by SDNPA as a pond in poor condition (v).	Screened out: pond located approximately 1.3km west and on the opposite side of Harrow Hill to the proposed DCO Order Limits.
A dew pond at Upper Barpham (NGR: TQ067087) (DP8).	Identified by SDNPA as a pond in poor condition (v).	Screened out: pond approximately 580m west and upgradient from the proposed DCO Order Limits.
Dew pond at Hill Barn, Warningcamp (NGR: TQ048075) (DP9).	Identified by SDNPA as a pond of unknown status and condition (SDNPA, 2010).	Screened in: pond approximately 20m south from an access road associated with the proposed DCO Order Limits.
Dew pond at The Huntsman's Cottage, west of Findon (NGR: TQ113090) (DP10).	Identified by SDNPA as a pond in unknown condition (SDNPA, 2020).	Screened in: pond located 430m east and downgradient of the proposed DCO Order Limits.
Dew pond at Coventry plantation, north-west of Findon (NGR: TQ112095) (DP11).	Identified by SDNPA as pond in unknown condition (SDNPA, 2020).	Screened out: pond approximately 400m from an access track associated with the proposed DCO Order Limits and located on the opposite side of a topographic high.
Dew pond between Muntham Farm and North	Identified by SDNPA as a pond in unknown condition (SDNPA, 2020).	Screened out: pond approximately 70m north and upgradient from an access track associated with the proposed DCO Order Limits.

Designated conservation site	Description and water dependency	Potential connection to the proposed DCO Order Limits
End (NGR: TQ112100) (DP12).		
Dew pond at Blackpatch Hill (NGR: TQ096095) (DP13).	Identified by SDNPA as a pond in poor condition (SDNPA, 2020).	Screened out: pond located 45m up gradient of an access track associated with the proposed DCO Order Limits.
Garden pond at Myrtle Grove Farm (NGR: TQ090084) (DP14).	Identified by SDNPA as a pond in good condition (SDNPA, 2020).	Screened in: pond approximately 280m west and downgradient of an access track associated with the proposed DCO Order Limits.
Two dew ponds located to the south of Tolmare Farm (NGR: TQ109088 & TQ108087) (DP15 & DP16).	Identified by SDNPA as a pond in unknown condition (SDNPA, 2020).	Screened in: ponds are respectively located within 30m and 220m west and down gradient of the proposed DCO Order Limits. Screened in for further assessment.
Dew pond located between Blackpatch Covert and Coventry Plantation (NGR: TQ107095) (DP17).	Identified by SDNPA as a pond in unknown condition (SDNPA, 2020).	Screened in: pond located approximately 35m to the west and downgradient of an access track associated with the proposed DCO Order Limits.
A farmyard pond south of Cobden Farm (NGR: TV100108) (DP18).	Identified by SDNPA as a pond in unknown condition (SDNPA, 2020).	Screened in: pond located 380m to the west and downgradient of an access track associated with the proposed DCO Order Limits.
A dew pond north of Cobden Farm (NGR: TQ100109) (DP19).	Identified by SDNPA as a pond in unknown condition (SDNPA, 2020).	Screened in: pond located 240m to the west and downgradient of the proposed DCO Order Limits.

Designated conservation site	Description and water dependency	Potential connection to the proposed DCO Order Limits
A dew pond to the north of Cobden Farm (NGR: TQ101112) (DP20).	Identified by SDNPA as a pond in unknown condition (SDNPA, 2020).	Screened in: pond located within part of an access track associated with the proposed DCO Order Limits near Cobden Farm.
A dew pond south of Lee Farm (NGR: TQ070099) (DP21).	Identified by SDNPA as a pond in unknown condition (SDNPA, 2020).	Screened out: pond located over 950m from the proposed DCO Order Limits.
A dew pond north of Perry Hill (TQ055094) (DP22).	Identified by SDNPA as a pond in unknown condition (SDNPA, 2020).	Screened out: pond located over 1.4km north and upgradient of an access track associated with the proposed DCO Order Limits.
A dew pond east of Home Farm (NGR: TQ055085) (DP23).	Identified by SDNPA as a pond in unknown condition (SDNPA, 2010).	Screened out: pond located over 580m north and upgradient of an access track associated with the proposed DCO Order Limits.
A dew pond west of Warningcamp hill (NGR: TQ040074) (DP24).	Identified by SDNPA as a pond in unknown condition (SDNPA, 2020).	Screened out: pond located 570m west and upgradient from an access track associated with the proposed DCO Order Limits. Screened out of further assessment.

Page intentionally blank

WFD classifications

- 2.1.4 The current (2016) status of all WFD water bodies within the Water Environment Study Area are presented in **Table 2-2**, together with an indication of which water bodies relate to which parts of the proposed DCO Order Limits. **Table 2-2** also identifies which WFD water bodies are not considered to have a potential hydrogeological or hydrogeological connection with the Proposed Development and have been screened out from further assessment within **Chapter 26: Water environment, Volume 2** of the ES (Document Reference 6.2.26) on the basis that it is unlikely that they will be affected. Those which are identified as having a potential connection to the Proposed Development have been considered together with offshore aspects within a standalone WFD Assessment in **Appendix 26.3: Water Framework Directive compliance assessment, Volume 4** of the ES (Document Reference 6.4.26.3). **Figures 26-1, 26-2** and **26-5, Volume 3** of the ES (Application Document Reference: 6.3.26) show each of the water bodies in relation to the proposed DCO Order Limits.

Page intentionally blank

Table 2-2 WFD water bodies across the Water Environment Study Area

Water body ID/ management catchment	Water body type	Status	Supporting elements, less than Good Status / Potential	Issues preventing the attainment of Good Status	Potential connection to the Proposed DCO Order Limits
Ryebank Rife GB107041006620 Arun and Western Streams	River	Moderate Ecological Potential (2019), Chemical Status Fail (2019)	Dissolved oxygen Priority hazardous substances (Mercury and its Compounds and Polybrominated diphenyl ethers (PBDE) – Fail	Drought PDBE and Mercury conditions will take time to achieve chemical recovery	Screened in: river is intersected by the proposed DCO Order Limits within the southern coastal area of the proposed onshore temporary construction corridor.
Black Ditch (West Sussex) GB107041012890 Arun and Western Streams	River	Poor Ecological Potential (2019), Chemical Status Fail (2019)	Macrophytes and Phytobenthos Combined - Moderate Fish – Poor Priority hazardous substances (Mercury and its Compounds and PBDE – Fail	Natural conditions - sediment and morphology Land drainage – operational management PDBE and Mercury conditions will take time to achieve chemical recovery	Screened in: the Black Ditch is intersected by the proposed DCO Order Limits within the southern area of the onshore temporary construction corridor.
Burpham Tributary (River Arun) GB107041011990	River	Moderate Ecological Status (2019), Chemical Status Fail (2019)	Hydrological regime Dissolved oxygen – Poor	Unknown (pending Environment Agency investigation) Drought	Screened out: tributary is approximately 1.3km north-west of the proposed DCO Order Limits. Given the

Water body ID/ management catchment	Water body type	Status	Supporting elements, less than Good Status / Potential	Issues preventing the attainment of Good Status	Potential connection to the Proposed DCO Order Limits
Arun and Western Streams			Priority hazardous substances (Mercury and its Compounds, PBDE and Perfluorooctane sulphonate (PFOS)) – Fail	PDBE, PFOS, and Mercury conditions will take time to achieve chemical recovery	topography and distance between source and receptor there is unlikely to be any potential for a hydrological connection.
Littlehampton Anticline East GB40701G503400	Groundwater	Poor status (2019): Poor Quantitative Status, Good Chemical Status	Quantitative Dependent Surface Water Body Status	No data available	Screened in: waterbody is intersected by the proposed DCO Order Limits within the southern coastal area of the landfall and onshore temporary construction corridor near Lyminster.
Littlehampton Anticline West GB40701G504900	Groundwater	Good status (2019): Good Quantitative Status, Good Chemical Status	N/A	N/A	Screened in: waterbody is intersected by the proposed DCO Order Limits within the southern coastal area of the onshore temporary construction corridor area near Wick.

Water body ID/ management catchment	Water body type	Status	Supporting elements, less than Good Status / Potential	Issues preventing the attainment of Good Status	Potential connection to the Proposed DCO Order Limits
Sussex Lambeth Group GB40701G505100	Groundwater	Good status (2019): Good Quantitative Status, Good Chemical Status	N/A	N/A	Screened in: waterbody is intersected by the proposed DCO Order Limits within the southern area of the onshore temporary construction corridor area around Crossbush and Hammerpot.
Worthing Chalk GB40701G505300	Groundwater	Poor Status (2019): Poor Quantitative Status, Poor Chemical Status	Quantitative Water Balance, Quantitative Dependent Surface Water Body Status Chemical Drinking Water Protected – fail, General Chemical Test – fail	Pollution from rural areas	Screened in: waterbody is intersected by the proposed DCO Order Limits within the southern and central section of the onshore temporary construction corridor between Hammerpot and Washington.
Stor Arun and Western Streams GB107041012100	River	Moderate Ecological Status (2019), Chemical Status Fail (2019)	Phosphate Priority hazardous substances (Mercury)	Water industry - sewage discharge (continuous)	Screened out: although a small part of the upper catchment boundary is crossed by the proposed DCO Order

Water body ID/ management catchment	Water body type	Status	Supporting elements, less than Good Status / Potential	Issues preventing the attainment of Good Status	Potential connection to the Proposed DCO Order Limits
Honeybridge Stream GB107041012120 Adur and Ouse	River	Poor Ecological Status (2019), Chemical Status Fail (2019)	Macrophytes and Phytobenthos Combined – Moderate Fish – Poor Phosphate – Moderate Priority hazardous substances (Mercury and its Compounds and PBDE) – Fail	Pollution from rural areas Pollution from waste water Physical modifications PDBE and Mercury conditions will take time to achieve chemical recovery	Screened in: stream has several tributaries which are intersected by the proposed DCO Order Limits, within the central section of the onshore temporary construction corridor between Washington, and Wiston.

Water body ID/ management catchment	Water body type	Status	Supporting elements, less than Good Status / Potential	Issues preventing the attainment of Good Status	Potential connection to the Proposed DCO Order Limits
Adur (Lockbridge) GB107041012200 Adur and Ouse	River	Poor Ecological Status (2019), Chemical Status Fail (2019)	Macrophytes and Phytobenthos Combined - Moderate Fish – Poor Priority hazardous substances (Mercury and its Compounds, PFOS and PBDE) – Fail	Pollution from rural areas Pollution from waste water Physical modifications PDBE, PFOS, and Mercury conditions will take time to achieve chemical recovery	Screened in: river is intersected by the proposed DCO Order Limits within the north- eastern section of the onshore temporary construction corridor near Bines Green.
Adur East (Sakeham) GB107041012900 Adur and Ouse	River	Poor Ecological Status (2019), Chemical Status Fail (2019)	Macrophytes and Phytobenthos Combined – Moderate Phosphate – Moderate Priority hazardous substances (Mercury and its Compounds, PBDE and Benzo(g-h- i)perylene) – Fail	Pollution from waste water Physical modifications PDBE, and Mercury conditions will take time to achieve chemical recovery	Screened in: river has several tributaries which are intersected by the Proposed DCO Order Limits within the north- eastern section of the onshore temporary construction corridor between Partridge Green and Wineham. Screened in.
Adur East, GB107041012180	River	Poor Ecological Status (2019),	Macrophytes and Phytobenthos Combined – Moderate	Pollution from waste water	Screened in: river has several tributaries which are intersected by the

Water body ID/ management catchment	Water body type	Status	Supporting elements, less than Good Status / Potential	Issues preventing the attainment of Good Status	Potential connection to the Proposed DCO Order Limits
Adur and Ouse		Chemical Status Fail (2019)	Dissolved Oxygen – Moderate Phosphate – Bad Priority hazardous substances (Mercury and its Compounds, PBDE)– Fail	PDBE, and Mercury conditions will take time to achieve chemical recovery.	proposed DCO Order Limits within the north- eastern section of the onshore temporary construction corridor between Wineham and Twineham Green. The existing National Grid Bolney substation extension is intersected.
Chess Stream GB107041012110 Adur and Ouse	River	Moderate Ecological Status (2019), Chemical Status Fail (2019)	Macrophytes and Phytobenthos Combined – Moderate Fish – Moderate Priority hazardous substances (Mercury and its Compounds, PBDE)– Fail	Pollution from waste water PDBE, and Mercury conditions will take time to achieve chemical recovery	Screened out: no potential for pathways to reach the stream from the proposed DCO Order Limits which are approximately 350m and upstream on the other side of a valley.
Cowfold Stream GB107041012260 Adur and Ouse	River	Poor Ecological Status (2019), Chemical Status Fail (2019)	Ecological: Macrophytes and Phytobenthos Combined -Poor	Pollution from rural areas Pollution from waste water	Screened in: stream is intersected by the proposed DCO Order Limits within the north- eastern section of the

Water body ID/ management catchment	Water body type	Status	Supporting elements, less than Good Status / Potential	Issues preventing the attainment of Good Status	Potential connection to the Proposed DCO Order Limits
			Phosphate – Moderate Priority hazardous substances (Mercury and its Compounds, and PBDE)– Fail	PDBE, and Mercury conditions will take time to achieve chemical recovery	onshore temporary construction corridor near Cowfold.
Herrings Stream GB107041012150 Adur and Ouse	River	Poor Ecological Status (2019), Chemical Status Fail (2019)	Macrophytes and Phytobenthos Combined – Poor Phosphate – Moderate Priority hazardous substances (Mercury and its Compounds, and PBDE)– Fail	Pollution from waste water Physical modifications PDBE, and Mercury conditions will take time to achieve chemical recovery	Screened out: no potential for pathways to reach the stream from the proposed DCO Order Limits as it is approximately 850m and upgradient of onshore temporary construction corridor.
Black Sewer GB107041012110 Adur and Ouse	River	Moderate Ecological Status (2019), Chemical Status Fail (2019)	Macrophytes and Phytobenthos Combined – Moderate	Pollution from rural areas	Screened out: no potential for pathways to reach the feature from the proposed DCO Order Limits as its nearest tributary stream is approximately 450m from the onshore

Water body ID/ management catchment	Water body type	Status	Supporting elements, less than Good Status / Potential	Issues preventing the attainment of Good Status	Potential connection to the Proposed DCO Order Limits
					temporary construction corridor.
Bolney Sewer GB107041012250 Adur and Ouse	River	Moderate Ecological Status (2019), Good Chemical Status	Macrophytes and Phytobenthos Combined – Moderate Priority hazardous substances (Mercury and its Compounds, PFOS and PBDE)– Fail Priority substances (Cypermethrin (Priority))- Fail	Pollution from waste water PDBE, PFOS and Mercury conditions will take time to achieve chemical recovery	Screened out: although the Bolney substation extension is situated on the catchment boundary there is no pathway between Bolney Sewer and the proposed DCO Order Limits. Note the ditch that drains the substation discharges into Adur (East) and not Bolney Sewer.
Lower Greensand GB40701G502400 Adur and Ouse	Groundwater	Good Status (2019): Good Quantitative Status, Good Chemical Status	N/A	N/A	Screened in: intersected by the proposed DCO Order Limits within the central section of the onshore temporary construction corridor near Buncton and Ashurst.

Water body ID/ management catchment	Water body type	Status	Supporting elements, less than Good Status / Potential	Issues preventing the attainment of Good Status	Potential connection to the Proposed DCO Order Limits
Adur & Ouse Hastings Beds GB40702G502000	Groundwater	Good Status (2019): Good Quantitative Status, Good Chemical Status	N/A	N/A	Screened in: although it is not intersected by the proposed DCO Order Limits it is approximately 30m to the east from the outer limit of a short section of the onshore temporary construction corridor.
Teville Stream GB107041011940 Teville	River (Heavily Modified Water Body (HMWB) - Urbanisation)	Bad Ecological Status (2019), Chemical Status Fail (2019)	Mitigation measures assessment - Moderate or less Fish – Bad Ammonia (physical- chemical) – Moderate Dissolved oxygen – Bad Priority hazardous substances (Mercury and its Compounds, and PBDE) – Fail	Physical modifications Pollution from towns, cities and transport Non-native invasive species PDBE, and Mercury conditions will take time to achieve chemical recovery	Screened out: no potential for pathways to reach the stream and tributaries which are approximately 9km east of the proposed DCO Order Limits.

Water body ID/ management catchment	Water body type	Status	Supporting elements, less than Good Status / Potential	Issues preventing the attainment of Good Status	Potential connection to the Proposed DCO Order Limits
Arun Lower GB540704105000 South-East Transitional (TraC)	Transitional (HMWB – Flood Protection)	Moderate Ecological Potential (2019), Chemical Status Fail (2019)	Mitigation measures assessment - Moderate or less Priority hazardous substances (Mercury and its Compounds, and PBDE) – Fail	Physical modifications Non-native invasive species PDBE, and Mercury conditions will take time to achieve chemical recovery	Screened in: transitional watercourse intersected by the proposed DCO Order Limits and the southern section of the onshore temporary construction corridor near Littlehampton Industrial Estate.
Adur GB540704116000 South-East TraC	Transitional (HMWB – Flood Protection)	Moderate Ecological Potential (2019), Fail Chemical Status (2019)	Mitigation measures assessment – Moderate or less Angiosperms – Moderate Fish – Moderate Tributyltin compounds – Fail Priority hazardous substances (Mercury and its Compounds, and PBDE)– Fail	Physical modifications PDBE, and Mercury conditions will take time to achieve chemical recovery	Screened in: several tributaries are intersected by the proposed DCO Order Limits and the central to north-eastern section of the onshore temporary construction corridor near Ashurst.

Water body ID/ management catchment	Water body type	Status	Supporting elements, less than Good Status / Potential	Issues preventing the attainment of Good Status	Potential connection to the Proposed DCO Order Limits
Sussex GB640704540003 South-East TraC	Coastal (HMWB – Coastal Protection)	Moderate Ecological Potential (2019), Fail Chemical Status (2019)	Mitigation measures assessment – Moderate or less Priority hazardous substances (Mercury and its Compounds, and PBDE)– Fail	Physical modifications PDBE, and Mercury conditions will take time to achieve chemical recovery	Screened in: the coastal water body lies adjacent to the proposed DCO Order Limits for the onshore landfall. Note that whilst there is some potential for the trenchless landfall to affect the coastal water body there has also been an assessment carried out for potential on marine water quality effects within Chapter 6: Coastal processes, Volume 2 of the ES (Document Reference 6.2.6) and Chapter 8: Fish and shellfish ecology, Volume 2 of the ES (Document Reference 6.2.8) and Chapter 9: Benthic, subtidal and intertidal ecology, Volume 2 of the ES (Document Reference 6.2.9). A

Water body ID/ management catchment	Water body type	Status	Supporting elements, less than Good Status / Potential	Issues preventing the attainment of Good Status	Potential connection to the Proposed DCO Order Limits
					WFD Assessment is also presented in Appendix 26.3: Water Framework Directive compliance assessment, Volume 4 of the ES (Document Reference 6.4.26.3).

2.2 Water resources

Private water supplies

- 2.2.1 A total of 24 private water supplies (PWSs) have been identified within the Water Environment Study Area, comprising 15 within Arun District Council (ADC), five in Horsham District Council (HDC), three within Adur and Worthing District Council (AWDC) and one within Mid Sussex District Council (MSDC) (**Table 2-3**). There are 23 groundwater supplies and one surface water supply as shown along with **Chapter 26: Water environment, Volume 2** of the ES (Document Reference 6.2.26) and in **Figure 26-6, Volume 3** of the ES (Document Reference: 6.3.26).
- 2.2.2 The level of information available regarding these supplies varies in terms of its level of detail, and where its purpose is unknown a PWS has been assumed as potable as part of the precautionary approach adopted within the assessment of effects in **Chapter 26: Water environment, Volume 2** of the ES (Document Reference 6.2.26). From the 24 PWSs identified, 14 are assessed as having a potential connection to the proposed DCO Order Limits. The other ten are assessed as not being connected and therefore have been screened out of the assessment.

Page intentionally blank

Table 2-3 Registered PWSs within the Water Environment Study Area

ID	Supply name	NGR	LPA	Source	Use and property type	Estimated volume (m³/ day) and population served	Potential connection to proposed DCO Order Limits
P1	The Old Rectory	TQ 026012	ADC	Groundwater (borehole)	Domestic	Single domestic - exempt	Screened in: groundwater abstraction, approximately 1.1km to the east of the landfall proposed DCO Order Limits and within the same geology (Chalk). Also within the same surface water catchment (Arun).
P2	Brookbarn House	TQ 015039	ADC	Groundwater (borehole)	Unknown	2.3 m ³ / day	Screened in: groundwater abstraction, within very close proximity of the proposed DCO Order Limits (approximately 53m) near Littlehampton Junction, with the same geology (Chalk).
P3	Pauls House	TQ 023047	ADC	Groundwater (borehole)	Domestic	2.8m ³ / day	Screened in: groundwater abstraction, within very close proximity of the proposed DCO Order Limits (< 0.2km) near Lyminster, and with the same geology (Chalk). Although the PWS is situated at a similar elevation the groundwater flow is likely to predominately flow to the south and

ID	Supply name	NGR	LPA	Source	Use and property type	Estimated volume (m ³ / day) and population served	Potential connection to proposed DCO Order Limits
							south-west away from the PWS and into the black ditch and River Arun tributaries.
P4	The Decoy	TQ 058053	ADC	Groundwater (borehole)	Single domestic	Unknown	Screened in: groundwater abstraction 150m south-west from the proposed DCO Order Limits. The borehole infrastructure is located on the Lambeth Group geology and abstracts from the underlying Chalk. It is also down hydraulic gradient from proposed trenchless crossings.
P5	Suzy Smith Racing / Angmering Park Estate	TQ 066074	ADC	Groundwater (borehole)	Supplies approximately 50 residential properties on the Angmering/North Park Estate and other properties in Arundel.	Unknown	Screened In: groundwater abstraction 500m west of the proposed DCO Order Limits and within the same band of geology (Chalk). Although greater than 250m buffer from the proposed DCO Order Limits it is down hydraulic gradient and within a valley, of the Buckmans where there is clay with flints superficial deposits.

ID	Supply name	NGR	LPA	Source	Use and property type	Estimated volume (m ³ / day) and population served	Potential connection to proposed DCO Order Limits
P6	Lample House	TQ 044085	ADC	Groundwater (borehole)	Large supplies and those used as part of a commercial or public activity (including some supplies to tenanted single dwellings)	1m ³ / day	Screened out: groundwater abstraction near Wepham 1km north-west of the proposed DCO Order Limits and on the opposite side of Warningcamp Hill from a proposed light construction access road which will utilise existing farm tracks.
P7	Upper Barpham	TQ 067089	ADC	Groundwater (borehole)	Small supplies, including small shared supplies and those to single dwellings only	Unknown	Screened out: abstraction 600m west and hydraulically upgradient of the proposed DCO Order Limits.
P8	Turners Dairies	TQ 090084	ADC	Groundwater (public supply)	Where a public supply is onwardly distributed to non-water company consumers on	Unknown	Screened out: groundwater abstraction within the Chalk but approximately 970m south-east of the proposed DCO Order Limits. It is only approximately 275m north-east of the access road upon which upgrading works are planned on

ID	Supply name	NGR	LPA	Source	Use and property type	Estimated volume (m ³ / day) and population served	Potential connection to proposed DCO Order Limits
					a secondary premises		Michelgrove Lane (A-26). However, these works are minor and the PWS is up hydraulic gradient of the access road. It is approximately 970m away from a section of open cut associated with the temporary construction corridor.
P9	Long Furlong Barn	TQ 095075	ADC	Groundwater (borehole)	Large supplies and those used as part of a commercial or public activity (including some supplies to tenanted single dwellings)	Unknown	Screened out: groundwater abstraction approximately 410m to the west and hydraulically upgradient of an access road and the nearest proposed DCO Limits.
P10	The Chantry Mere	TQ 092128	HDC	Groundwater	Domestic - potable	8m ³ / day	Screened in: groundwater abstraction within 50m of a site access on an existing road (Chantry Lane). Although, it is within the Upper Greensand Formation and up hydraulic gradient and 800m north of

ID	Supply name	NGR	LPA	Source	Use and property type	Estimated volume (m ³ / day) and population served	Potential connection to proposed DCO Order Limits
							the proposed DCO Order Limits and trenchless crossing.
P11	Wappingthor n Farm	TQ 165135	HDC	Groundwater	Domestic - potable	16m ³ / day	Screened in: groundwater abstraction near Steyning, within 960m south of the proposed DCO Order Limits, within same geology (Lower Greensand comprising of sandstone and mudstone).
P12	Huddlestone farm	TQ 180135	HDC	Groundwater	Domestic - potable	3 m ³ / day	Screened in: groundwater abstraction, approximately 1.3km to the south of the proposed DCO Order Limits and with same geology (Lower Greensand comprising sandstone and mudstone).
P13	Truleigh Hill Youth Hostel Assoc	TQ 220107	HDC	Groundwater	Domestic - potable	22m ³ / day	Screened out: groundwater abstraction 5.8km to the south of the proposed DCO Order Limits. There are several bands of different geology forming a 'barrier' between the proposed DCO Order Limits that overlies mudstone and the supply which abstracts from White Chalk on

ID	Supply name	NGR	LPA	Source	Use and property type	Estimated volume (m ³ / day) and population served	Potential connection to proposed DCO Order Limits
							the opposite side of the tidal Arun and Woodsmill Stream.
P14	10 Properties Truleigh Hill	TQ 220107	HDC	Groundwater	Domestic - potable	25m ³ / day	Screened out: groundwater abstraction 6.2km to the south-east of the proposed DCO Order Limits. There are several bands of different geology forming a barrier between the proposed DCO Order Limits that overlies mudstone and the supply which abstracts from White Chalk on the opposite side of the tidal Arun and Woodsmill Stream.
P15	Church Farm	TQ 190082	AWD C	Groundwater	Large supplies and those used as part of a commercial or public activity (including some supplies to tenanted single dwellings)	Estimated residential population is ten; estimated temporary population is 400	Screened out: groundwater abstraction 6.4km to the south-east of the proposed DCO Order Limits and within the adjacent tidal Arun catchment. Works within the proposed DCO Order Limits are located in different, less permeable strata (including the Wealden Group comprising mudstone, siltstone and sandstone) than the abstraction (White Chalk). Therefore, due to the

ID	Supply name	NGR	LPA	Source	Use and property type	Estimated volume (m ³ / day) and population served	Potential connection to proposed DCO Order Limits
							distance and differences in geology there is no potential for connection.
P16	The Old Rectory	TQ 191081	AWD C	Groundwater	Small supplies, including small shared supplies and those to single dwellings only	Estimated residential population is four	Screened out: groundwater abstraction 6.7km to the south-east of the proposed DCO Order Limits and within adjacent tidal Arun catchment. Works within the proposed DCO Order Limits are located in different, less permeable strata (of the Wealden Group comprising mudstone, siltstone and sandstone) than abstraction (White Chalk). Therefore, due to the distance and differences in geology there is no potential for connection.
P17	Applesham Farm	TQ 193068	AWD C	Groundwater	Small supplies, including small shared supplies and those to single dwellings only	Estimated residential population is 30	Screened out: groundwater abstraction 7.9km to the south-east of proposed DCO Order Limits and within adjacent tidal Arun catchment. Works within the proposed DCO Order Limits are located in different, less permeable strata (of the Wealden Group comprising mudstone, siltstone and sandstone)

ID	Supply name	NGR	LPA	Source	Use and property type	Estimated volume (m ³ / day) and population served	Potential connection to proposed DCO Order Limits
							than abstraction (White Chalk). Therefore, due to the distance and differences in geology there is no potential for connection.
P18	Unknown	TQ 238196	MSD C	Surface water - Herring Stream, tributary of the River Adur	Unknown	Unknown	Screened in: surface water abstraction situated approximately 1.2km to the south of the proposed DCO Order Limits, within the same surface water catchment, and downgradient of the existing National Grid Bolney Substation extension works. There are surface water flow pathways in-between these locations and the supply, and therefore there is a potential connection.
P19	East Cottage	TQ 090086	ADC	Groundwater	Regulation 8 Supplies	Unknown	Screened in: groundwater supply at Myrtle Grove Farm, just over 300m to the south-east of the proposed DCO Order Limits and with same geology (Chalk).
P20	Green Pastures	TQ 091083	ADC	Groundwater	Regulation 8 supplies	Unknown	Screened in: groundwater supply approximately 135m to the east of an access route along Longfurlong Lane

ID	Supply name	NGR	LPA	Source	Use and property type	Estimated volume (m ³ / day) and population served	Potential connection to proposed DCO Order Limits
							and the proposed DCO Order Limits. Located within the same geology (Chalk).
P21	Myrtlegrove Cottage Stables	TQ 089089	ADC	Groundwater	Regulation 8 supplies	Unknown	Screened in: groundwater supply at Myrtlegrove Farm, 0.3km from the proposed DCO Order Limits and with same geology (Chalk).
P22	The Martins	TQ 090084	ADC	Groundwater	Regulation 8 supplies	Unknown	Screened in: groundwater supply 365m from the proposed DCO Order Limits and a 342m from an access route along Long Furlong Lane.
P23	Myrtlegrove Cottage	TQ 081100	ADC	Groundwater	Regulation 8 supplies	Unknown	Screened out: groundwater supply located 900m and hydraulically upgradient of the proposed DCO Order Limits.
P24	Michelgrove	TQ 081083	ADC	Groundwater	Unknown	Unknown	Screened in: groundwater supply within 250m of minor road upgrade works along Michelgrove Lane and within 340m downgradient of a trenchless crossing.

Page intentionally blank

Licensed abstractions

- 2.2.3 The Environment Agency (2020) has provided information for licensed abstractions. Within the Water Environment Study Area 74 licensed abstractions have been identified as indicated in **Table 2-4**. 31 are assessed as having a potential connection to the proposed DCO Order Limits and have been considered for further assessment within **Chapter 26: Water environment, Volume 2** of the ES (Document Reference 6.2.26). The other 43 are assessed as not being connected and therefore have been screened out of the assessment. **Figure 26-6, Volume 3** (Document Reference: 6.3.26) shows the locations of each of the licensed abstractions. The majority of the licensed abstractions that have been screened in are to the south of the central section of the Onshore Construction Corridor across the South Downs between Hammerpot and Sullington Hill, where there are seven Source Protection Zones (SPZs) with the same permeable geology (White Chalk) type as the proposed DCO Order Limits. Although many of these SPZs are distant (>3km from the proposed DCO Order Limits) they have been screened in as part of a precautionary approach on account of the importance of the abstractions as public water supplies operated by Southern Water.
- 2.2.4 The nearest SPZs identified are for Angmering Point 2 (10/41/310210, NGR TQ064065) and Patching (10/41/310210, NGR TQ091074) situated approximately 500m and 700m from the temporary construction corridor respectively. The corridor has been sited outside of the edge of their SPZ1s, but situated within areas of the SPZ2s and SPZ3s. The cable route has been selected to avoid SPZ1s, whilst taking into account other environmental constraints including biodiversity LWSs. There is a proposed construction and operational route along Michelgrove Lane within SPZ1 which will require minor road upgrades at several locations. There is also another light construction access route within Warningcamp SPZ1, which will entirely make use of existing farm tracks and will not require any upgrades. Appropriate environmental measures have been embedded within **Section 26.7 of Chapter 26: Water environment, Volume 2** of the ES (Document Reference 6.2.26) to ensure the protection of these public water supplies (along with other licensed abstractions and PWSs) during proposed works.

Page intentionally blank

Table 2-4 Licences abstractions within the Water Environment Study Area

ID	Licence no. and name	Operator	NGR	Source	Use	Potential connection to the proposed DCO Order Limits
A1	10/41/542009 Point A At New Barn, Climping	Baird	SU 992012	Groundwater	Agriculture - general farming and domestic	Screened in: groundwater abstraction approximately 1.2km to the west of the proposed DCO Order Limits landfall, and in the same geology type (Chalk).
A2	10/41/411016 Elmer Rife	James D Baird (Home Farm) Ltd	SU 992011	Surface water	Agriculture - spray irrigation - direct	Screened out: abstraction from Ryebank Rife approximately 1.2km upstream and to the west of the proposed DCO Order Limits.
A3	27/209/R01 Ryebank Rife, Point A, Bilsham	Langmead Farms Ltd	SU 963018	Surface water	Agriculture - spray irrigation - storage	Screened out: abstraction from Ryebank Rife approximately 3.9km upstream and to the west of the proposed DCO Order Limits.
A4	SO/041/0024/ 005 Ryebank Rife – Stakers Farm, Yapton	Langmead Farms Ltd	SU 958022	Surface water	Agriculture - spray irrigation - storage	Screened out: abstraction from Ryebank Rife approximately 4.4km upstream and to the west of the proposed DCO Order Limits.
A5	23/059 Point A St Alders Fish Farm	Thomas	TQ 169127	Surface water	Agriculture - fish farm/cress pond throughflow	Screened in: surface water abstraction situated approximately 360m downstream of the onshore temporary construction corridor crossing of the Ryebank Rife watercourse.

ID	Licence no. and name	Operator	NGR	Source	Use	Potential connection to the proposed DCO Order Limits
A6	10/41/411021 River Arun – Estuary Tidal	ARC Ltd (Solent Aggregates Ltd)	TQ 019023	Tidal	Industrial, commercial and public services - general washing / process washing	Screened in: surface water abstraction situated on the River Arun tidal estuary at a confluence which is approximately 560m downstream of the onshore temporary construction corridor crossing of the Ryebank Rife watercourse.
A7	24/065 Torri House	Molica Esq	TQ 023040	Groundwater	Agriculture - horticultural watering	Screened out: groundwater abstraction in Littlehampton, situated 420m to the south of the proposed DCO Order Limits. Although the abstraction is in the same Chalk geology, the agricultural supply is situated upgradient of the proposed DCO Order Limits and therefore unlikely to be connected.
A8	24/064 Marina House	Molica Esq	TQ 023040	Groundwater	Agriculture - horticultural watering	Screened out: groundwater abstraction in Littlehampton, situated 380m to the south of the proposed DCO Order Limits. Although the abstraction is in the same Chalk geology, the agricultural supply is situated upgradient of the proposed DCO Order Limits and therefore unlikely to be connected.
A9	24/060 Knucker Hole Fish Farm	Biddlecomb e	TQ 022050	Groundwater	Agriculture - fish farm/cress pond throughflow	Screened in: groundwater abstraction used for aquaculture situated approximately 400m from the proposed DCO Order Limits and in the same geology (Chalk).

ID	Licence no. and name	Operator	NGR	Source	Use	Potential connection to the proposed DCO Order Limits
A10	10/41/411020 Internal Ditches at Tortington	Luckin & Son	TQ 004048	Surface water	Agriculture - spray irrigation - direct	Screened out: surface water abstraction approximately 1.1km to the west of the proposed DCO Order Limits and situated on the opposite side of the River Arun, therefore it has no potential connection.
A11	10/41/411010 Church Farm, Lyminster	Longhurst Esq	TQ 012056	Surface water	Agriculture - spray irrigation - direct	Screened out: abstraction located 1.4km north-west and upstream of the proposed DCO Order Limits.
A12	10/41/411102 Broomhurst Farm	A M Harriot & Son	TQ 015056	Surface water	Agriculture - spray irrigation - direct	Screened out: abstraction located 1.2km north-west and upstream of the proposed DCO Order Limits.
A13	10/41/310210 Arundel Pumping Station (PS)	Southern Water Services Ltd	TQ 017077	Groundwater	Water supply - public water supply, potable	Screened out: groundwater abstraction situated approximately 3km to the north-west of the proposed DCO Order Limits and situated on the opposite side of the River Arun, and takes from a different part of the catchment (as indicated by its SPZ mapping), therefore there is no connection.
A14	10/41/413003 Arundel Wildfowl Reserve	Wildfowl & Wetlands Trust	TQ 018079	Groundwater	Environmental - lake and pond throughflow	Screened out: groundwater abstraction situated approximately 3km to the north-west of the proposed DCO Order Limits and situated on the opposite side of the River Arun, and takes from a different part of the catchment (as indicated by its SPZ mapping),

ID	Licence no. and name	Operator	NGR	Source	Use	Potential connection to the proposed DCO Order Limits
A15	24/063 Warningcamp Borehole	Southern Water Services Ltd	TQ 045072	Groundwater	Water supply - public water supply, potable	Screened in: due to its proximity of the groundwater abstraction which is approximately 60m south of an existing access track associated with the proposed DCO Order Limits. Note: that 4 x 4 vehicles will be used along this section of existing track (A-25) and no excavation is proposed. The abstraction is also 2.3km from the Proposed DCO Order Limits and assessed to be hydrologically disconnected.
A16	10/41/310210 Burpham PS Borehole 1	Southern Water Services Ltd	TQ 050094	Groundwater	Water supply - public water supply, potable	Screened out: the abstraction is 1.5km north an access track associated with the proposed DCO Order Limits. However, the access track is to be used by 4 x 4 vehicles and no excavation is planned. There is also a valley and ridge between the abstraction and proposed DCO Order Limits, as such the abstraction is considered to be hydrologically disconnected.
A17	10/41/310210 Burpham PS Borehole 2	Southern Water Services Ltd	TQ 049093	Groundwater	Water supply - public water supply, potable	Screened out: the abstraction is 1.5km north an access track associated with the proposed DCO Order Limits. However, the access track is to be used by 4 x 4 vehicles and no excavation is planned. There is also a valley and ridge between the abstraction and proposed DCO Order Limits, as such the abstraction is considered to be hydrologically disconnected.

ID	Licence no. and name	Operator	NGR	Source	Use	Potential connection to the proposed DCO Order Limits
A18	10/41/310210 Burpham PS Boreholes 3 & 4	Southern Water Services Ltd	TQ 048092	Groundwater	Water supply - public water supply, potable	Screened out: the abstraction is 1.5km north an access track associated with the proposed DCO Order Limits. However, the access track is to be used by 4 x 4 vehicles and no excavation is planned. There is also a valley and ridge between the abstraction and proposed DCO Order Limits, as such the abstraction is considered to be hydrologically disconnected.
A19	10/41/414101 Lee Farm, Patching	Angmering Park Farms LLP	TQ 067089	Groundwater	Agriculture - general farming and domestic	Screened in: groundwater abstraction approximately 600m west of the proposed DCO Order Limits and within the same geology (Chalk).
A20	10/41/310210 Angmering PS Point 2	Southern Water Services Ltd	TQ 064065	Groundwater	Water supply - public water supply, potable	Screened in: groundwater abstraction approximately 500m west of the proposed DCO Order Limits. The proposed DCO Order Limits are also within SPZ2 of the abstraction.
A21	10/41/310210 Angmering PS Point 1	Southern Water Services Ltd	TQ 058069	Groundwater	Water supply - public water supply, potable	Screened in: groundwater abstraction approximately 1.1km west of the proposed DCO Order Limits. The proposed DCO Order Limits are also within SPZ2 of the abstraction.
A22	10/41/414009 Black Ditch At Ham	Ham Manor Golf Club Ltd	TQ 058038	Groundwater	Industrial, commercial and public services -	Screened out: groundwater abstraction approximately 1.6km from the DCO Order Limits and overlying the same geology (Chalk).

ID	Licence no. and name	Operator	NGR	Source	Use	Potential connection to the proposed DCO Order Limits
	Manor Golf Club				spray irrigation - direct	However, given that the abstraction is upgradient from the proposals, within the upper reaches of another Black Ditch tributary catchment, there is no potential for connection.
A23	24/066 Old Place Farm	F W Longhurst & Son Ltd	TQ 053045	Groundwater	Agriculture - spray irrigation - direct	Screened in: groundwater abstraction used for irrigation approximately 750m from the DCO Order Limits and downstream of the Black Ditch catchment intersected by the boundary.
A24	24/066 Old Place Farm	F W Longhurst & Son Ltd	TQ 053045	Groundwater	Agriculture - general farming and domestic	Screened in: groundwater abstraction used for irrigation approximately 750m from the DCO Order Limits and downstream of the Black Ditch catchment intersected by the boundary.
A25	10/41/414021 Black Ditch at Ham Manor Farm, Rustington	Rustington Golf Centre Ltd	TQ 056041	Surface water	Industrial, commercial and public services - spray irrigation - storage	Screened out: surface water abstraction approximately 4km upstream of the Black Ditch crossing of the proposed DCO Order Limits and 750m south of the proposed DCO Order Limits on a separate tributary of the Black Ditch which is not intersected by the temporary construction corridor, hence there is no potential connection.
A26	10/41/414021 Black Ditch at Ham Manor Farm, Rustington	Rustington Golf Centre Ltd	TQ 056041	Surface water	Industrial, commercial and public services - spray irrigation - direct	Screened out: surface water abstraction approximately 4km upstream of the Black Ditch crossing of the proposed DCO Order Limits and 750m south of the proposed DCO Order Limits on a separate tributary of the Black Ditch which is not intersected by the temporary construction

ID	Licence no. and name	Operator	NGR	Source	Use	Potential connection to the proposed DCO Order Limits
						corridor, hence there is no potential connection, hence there is no potential connection.
A27	24/068/R01 Side Channel Of The Black Ditch at Manor Farm, Poling	Langmead	TQ 051045	Surface water	Agriculture - spray irrigation - storage	Screened in: groundwater abstraction used for irrigation approximately 750m from the proposed DCO Order Limits and downstream of the Black Ditch catchment intersected by the boundary.
A28	10/41/310210 Patching PS	Southern Water Services Ltd	TQ 091074	Groundwater	Water supply - public water supply, potable	Screened in: groundwater abstraction located approximately 70m from Michelgrove Lane and 790m from Long Furlong Lane which are access routes within the proposed DCO Order Limits. Access tracks cross SPZ1 of the supply and in the same geology (Chalk).
A29	10/41/310112 Roundstone Farm Ferring	Langmead	TQ 085041	Groundwater	Agriculture - spray irrigation - direct	Screened out: groundwater abstraction approximately 2.5km to the south-east of the proposed DCO Order Limits. Although it is in the same geology (Chalk) the abstraction is situated upgradient of the Proposed Development, and within a different catchment (Ferring Rife), therefore there is no connection.
A30	10/41/310106 Roundstone Nursery	Roundstone Garden Centre Ltd	TQ 076032	Groundwater	Agriculture - spray irrigation - direct	Screened out: groundwater abstraction approximately 2.7km to the south-east of the proposed DCO Order Limits. Although it overlies the same geology (Chalk), the abstraction is

ID	Licence no. and name	Operator	NGR	Source	Use	Potential connection to the proposed DCO Order Limits
						situated upgradient of the Proposed Development, and within a different (Ferring Rife) catchment, therefore there is no connection.
A31	10/41/310210 Stanhope Lodge PS	Southern Water Services Ltd	TQ 111058	Groundwater	Water supply - public water supply, potable	Screened in: groundwater abstraction is approximately 2.4km south-east of an access route (that crosses SPZ3 of the supply) for the proposed DCO Order Limits.
A32	SO/041/0024/012 Borehole at Romany Road Worthing	David Lloyd Leisure Ltd	TQ 107041	Groundwater	Industrial, commercial and public services - drinking, cooking, sanitary, washing, Small Garden - commercial/ industrial/public services	Screened out: groundwater abstraction approximately 4km to the south-east of the proposed DCO Order Limits. It is in the same geology (Lambeth Group comprising clay, silt sand and gravel), which is low in permeability, and it is situated upgradient of proposals, and within a different (Ferring Rife) catchment, and therefore there is no connection.
A33	10/41/310210 Findon PS	Southern Water Services Ltd	TQ 125075	Groundwater	Water supply - public water supply, potable	Screened in: groundwater abstraction approximately 2km to the south-east of the proposed DCO Order Limits. It is in the same geology (Chalk) and lies to the south and downgradient of the onshore temporary construction corridor, which overlaps with parts

ID	Licence no. and name	Operator	NGR	Source	Use	Potential connection to the proposed DCO Order Limits
						of the abstraction's SPZ3. An associated access route also intersects the SPZ2 of the abstraction.
A34	10/41/310213 Links Road Links Road Golf Club	Links Road Golf Club Ltd	TQ 134062	Groundwater	Industrial, commercial and public services - spray irrigation - direct	Screened out: groundwater abstraction 3.6km south-east of the proposed DCO Order Limits, and in the same geology (Chalk). It is, however, in a different surface water catchment (Teville Stream) and given the distance and the type of abstraction (irrigation), there is limited potential for any connection.
A35	10/41/310210 Sompting PS	Southern Water Services Ltd	TQ 167063	Groundwater	Water supply - public water supply, potable	Screened in: groundwater abstraction approximately 4.8km to the south east of the proposed DCO Order Limits. It is in the same geology (Chalk) and lies to the south and downgradient of the onshore temporary construction corridor, which overlaps with parts of the abstraction's SPZ3.
A36	10/41/310210 Broadwater PS Borehole 1	Southern Water Services Ltd	TQ 143054	Groundwater	Water supply - public water supply, potable	Screened in: groundwater abstraction approximately 4.8km to the south-east of the proposed DCO Order Limits. It is in the same geology (Chalk) and lies to the south and downgradient of the onshore temporary construction corridor which overlaps with parts of the abstraction's SPZ3.

ID	Licence no. and name	Operator	NGR	Source	Use	Potential connection to the proposed DCO Order Limits
A37	10/41/310210 Broadwater PS Borehole 2	Southern Water Services Ltd	TQ 143054	Groundwater	Water supply - public water supply, potable	Screened in: groundwater abstraction approximately 4.8km to the south-east of the proposed DCO Order Limits. It is in the same geology (Chalk) and lies to the south and downgradient of the onshore temporary construction corridor which overlaps with parts of the abstraction's SPZ3.
A38	10/41/310210 Broadwater PS Borehole 3	Southern Water Services Ltd	TQ 143054	Groundwater	Water supply - public water supply, potable	Screened in: groundwater abstraction approximately 4.8km to the south-east of the proposed DCO Order Limits. It is in the same geology (Chalk) and lies to the south and downgradient of the onshore temporary construction corridor which overlaps with parts of the abstraction's SPZ3.
A39	10/41/310210 Broadwater PS Well	Southern Water Services Ltd	TQ 143054	Groundwater	Water supply - public water supply, potable	Screened in: groundwater abstraction approximately 4.8km to the south-east of the proposed DCO Order Limits. It is in the same geology (Chalk) and lies to the south and downgradient of the onshore temporary construction corridor which overlaps with parts of the abstraction's SPZ3.
A40	10/41/310210 Northbrook PS Point 2 (Sussex)	Southern Water Services Ltd	TQ 150046	Groundwater	Water supply - public water supply, potable	Screened in: groundwater abstraction approximately 6.1km to the south-east of the proposed DCO Order Limits. It is in the same geology (Chalk) and lies to the south and downgradient of the onshore temporary

ID	Licence no. and name	Operator	NGR	Source	Use	Potential connection to the proposed DCO Order Limits
						construction corridor, which overlaps with parts of the abstraction's SPZ3.
A41	10/41/310210 Northbrook PS Point 1 (Sussex)	Southern Water Services Ltd	TQ 150040	Groundwater	Water supply - public water supply, potable	Screened in: groundwater abstraction approximately 6.1km to the south-east of the proposed DCO Order Limits. It is in the same geology (Chalk) and lies to the south and downgradient of the onshore temporary construction corridor, which overlaps with parts of the abstraction's SPZ3.
A42	25/084 Point A, Sandgate Pit, Storrington	Cemex UK Materials Ltd	TQ 102143	Groundwater	Industrial, commercial and public services - mineral washing	Screened in: groundwater abstraction approximately 600m to the north-west of the proposed DCO Order Limits access route and overlying the same geology (Lower Greensand comprising mudstone and sandstone).
A43	25/084 Point B, Sandgate Pit, Storrington	Cemex UK Materials Ltd	TQ 105141	Groundwater	Industrial, commercial and public services - mineral washing	Screened in: groundwater abstraction approximately 350m north of the proposed DCO Order Limits access point and overlying the same geology (Lower Greensand comprising mudstone and sandstone).
A44	23/073 Washington Garden Centre	D J Squire & Company Ltd	TQ 122142	Groundwater	Agriculture - spray irrigation - direct	Screened in: groundwater abstraction approximately 1km north and downgradient of the proposed DCO Order Limits in similar geology (Sandstone).

ID	Licence no. and name	Operator	NGR	Source	Use	Potential connection to the proposed DCO Order Limits
A45	23/051 Daylands Farm	Crush	TQ 160169	Surface water	Agriculture - General	Screened in: surface water abstraction of Honeybridge stream (Adur tributary) located 3.8km downstream of a crossing associated with the proposed DCO Order Limits.
A46	10/41/312103 Wappingthor n Farm, Steyning Borehole A	Y de Boer & Partners	TQ 165135	Groundwater	Agriculture - general farming and domestic	Screened in: groundwater abstraction situated approximately 920m south of the proposed DCO Order Limits and in the same geology (Lower Greensand comprising mudstone and sandstone).
A47	10/41/312010 Huddleston Farm, Steyning	Huddleston e Farmers Ltd	TQ 179133	Groundwater	Agriculture - general farming and domestic	Screened in: groundwater abstraction situated approximately 1.4km to the south-west of the proposed DCO Order Limits and within same type of geology (Lower Greensand comprising mudstone and sandstone).
A48	10/41/312010 Huddleston Farm, Steyning	Huddleston e Farmers Ltd	TQ 179133	Groundwater	Water supply - drinking, cooking, sanitary, washing, Small Garden - household	Screened in: groundwater abstraction situated approximately 1.5km to the south-west of the proposed DCO Order Limits and within same type of geology (Lower Greensand comprising mudstone and sandstone).
A49	23/059 Point A at Alders Fish Farm	Thomas	TQ 169127	Surface water	Agriculture - fish farm/ress pond throughflow	Screened out: surface water abstraction situated 1.7km to the south-east of the proposed DCO Order Limits and within a different surface water

ID	Licence no. and name	Operator	NGR	Source	Use	Potential connection to the proposed DCO Order Limits
						catchment, and therefore is considered to be hydrologically disconnected.
A50	23/068 Point A at Alderwood Pond, Horsham Road, Steyning	Alderwood Pond	TQ 170129	Surface water	Agriculture - fish farm/cress pond throughflow	Screened out: surface water abstraction situated 1.7km to the south-east of the proposed DCO Order Limits and within a different surface water catchment, and therefore is considered to be hydrologically disconnected.
A51	10/41/311008 Steyning PS Well (with Boreholes)	Southern Water Services Ltd	TQ 205102	Groundwater	Water supply - public water supply, potable	Screened out: groundwater abstraction situated approximately 5.4km to the south-east of the nearest section of the onshore temporary construction corridor near Ashurst. There is different bedrock geology beneath the proposed DCO Order Limits (of the Wealden Group comprising mudstone, siltstone and sandstone) compared to that at the abstraction (Grey Chalk), and therefore they are hydrogeologically disconnected. The supply has a separate groundwater catchment on the western slopes of Truleigh Hill, as indicated by its SPZ.
A52	10/41/311008 Steyning PS Well 1	Southern Water Services Ltd	TQ 205102	Groundwater	Water supply - public water supply, potable	Screened out: groundwater abstraction situated approximately 5.4km to the south-east of the nearest section of the onshore temporary construction corridor near Ashurst. There is different bedrock geology beneath the proposed

ID	Licence no. and name	Operator	NGR	Source	Use	Potential connection to the proposed DCO Order Limits
						DCO Order Limits (of the Wealden Group comprising mudstone, siltstone and sandstone) compared to that at the abstraction (Grey Chalk), and therefore they are hydrogeologically disconnected. The supply has a separate groundwater catchment on the western slopes of Truleigh Hill, as indicated by its SPZ.
A53	10/41/311008 Steyning PS Well 2	Southern Water Services Ltd	TQ 205102	Groundwater	Water supply - public water supply, potable	Screened out: groundwater abstraction situated approximately 5.4km to the south-east of the nearest section of the onshore temporary construction corridor near Ashurst. There is different bedrock geology beneath the proposed DCO Order Limits (of the Wealden Group comprising mudstone, siltstone and sandstone) compared to that at the abstraction (Grey Chalk), and therefore they are hydrogeologically disconnected. The supply has a separate groundwater catchment on the western slopes of Truleigh Hill, as indicated by its SPZ.
A54	10/41/311002 Shoreham Cement Works Point 2	Dudman Aggregates Ltd	TQ 201086	Groundwater	Industrial, commercial and public services - effluent/slurry dilution	Screened out: groundwater abstraction situated 6.7km to the south-east and within differing geology from the proposed DCO Order Limits near Ashurst. Much of the strata to the north is less permeable than the Chalk, resulting in a hydrogeological disconnection between the proposed DCO Order Limits and this abstraction.

ID	Licence no. and name	Operator	NGR	Source	Use	Potential connection to the proposed DCO Order Limits
A55	10/41/311002 Shoreham Cement Works Point 1	Dudman Aggregates Ltd	TQ 199085	Groundwater	Industrial, commercial and public services - effluent/slurry dilution	Screened out: groundwater abstraction situated 6.7km to the south-east and within differing geology from the proposed DCO Order Limits near Ashurst. Much of the strata to the north is less permeable than the Chalk, resulting in a hydrogeological disconnection between the proposed DCO Order Limits and this abstraction.
A56	10/41/311006 Church Farm Coombes	Passmore Coombes	TQ 190082	Groundwater	Agriculture - general farming and domestic	Screened out: groundwater abstraction situated 6.5km to the south-east and within differing geology from the proposed DCO Order Limits near Buncton. Much of the strata to the north is less permeable than the Chalk, resulting in a hydrogeological disconnection between the proposed DCO Order Limits and this abstraction.
A57	10/41/311004 Applesham Farm	W D Passmore & Sons	TQ 193068	Groundwater	Agriculture - general farming and domestic	Screened out: groundwater abstraction situated 7.7km to the south-east and within differing geology from the proposed DCO Order Limits near Buncton. Much of the strata to the north is less permeable than the Chalk, resulting in a hydrogeological disconnection between the proposed DCO Order Limits and this abstraction.

ID	Licence no. and name	Operator	NGR	Source	Use	Potential connection to the proposed DCO Order Limits
A58	10/41/260103 Mossy Bottom PS Borehole 1	Southern Water Services Ltd	TQ 220077	Groundwater	Water supply - public water supply, potable	Screened out: groundwater abstraction situated approximately 8.8km to the south-east of the nearest section of the onshore temporary construction corridor near Ashurst. There is different bedrock geology beneath the proposed DCO Order Limits (of the Wealden Group comprising mudstone, siltstone and sandstone) compared to that at the abstraction (Grey Chalk), and therefore they are hydrogeologically disconnected. The supply has a separate groundwater catchment on the western slopes of Thundersbarrow Hill as indicated by its SPZ.
A59	10/41/260103 Shoreham PS Borehole 1	Southern Water Services Ltd	TQ 210068	Groundwater	Water supply - public water supply, potable	Screened out: groundwater abstraction situated approximately 8.7km to the south-east of the nearest section of the onshore temporary construction corridor near Ashurst. There is different bedrock geology beneath the proposed DCO Order Limits (of the Wealden Group comprising mudstone, siltstone and sandstone) compared to that at the abstraction (Grey Chalk), and therefore they are hydrogeologically disconnected. The supply has a separate groundwater catchment on the western slopes of Slonk Hill and Thundersbarrow Hill as indicated by its SPZ.

ID	Licence no. and name	Operator	NGR	Source	Use	Potential connection to the proposed DCO Order Limits
A60	10/41/260103 Shoreham PS Borehole 2	Southern Water Services Ltd	TQ 210068	Groundwater	Water supply - public water supply, potable	Screened out: groundwater abstraction situated approximately 8.7km to the south-east of the nearest section of the onshore temporary construction corridor near Ashurst. There is different bedrock geology beneath the proposed DCO Order Limits (of the Wealden Group comprising mudstone, siltstone and sandstone) compared to that at the abstraction (Grey Chalk), and therefore they are hydrogeologically disconnected. The supply has a separate groundwater catchment on the western slopes of Slonk Hill and Thundersbarrow Hill as indicated by its SPZ.
A61	10/41/260103 Shoreham PS Springs	Southern Water Services Ltd	TQ 210068	Groundwater	Water supply - public water supply, potable	Screened out: groundwater abstraction situated approximately 8.7km to the south-east of the nearest section of the onshore temporary construction corridor near Ashurst. There is different bedrock geology beneath the proposed DCO Order Limits (of the Wealden Group comprising mudstone, siltstone and sandstone) compared to that at the abstraction (Grey Chalk), and therefore they are hydrogeologically disconnected. The supply has a separate groundwater catchment on the western slopes of Slonk Hill and Thundersbarrow Hill as indicated by its SPZ.

ID	Licence no. and name	Operator	NGR	Source	Use	Potential connection to the proposed DCO Order Limits
A62	SO/041/0022/016 Relief Channel at River Adur Estuary, New Monks Farm	J.T.Mackley & Co. Ltd	TQ 204059	Surface water	Agriculture - dewatering	Screened out: surface water abstraction from the tidal River Arun situated approximately 9.1km and indirectly downstream of where an unnamed tributary headwater intersects the proposed DCO Order Limits near Ashurst. It is highly unlikely that there is any potential for hydrological connection given the distance and dilution along the tidal stretch of the River Arun between the proposed DCO Order Limits and the abstraction.
A63	SO/041/0022/019 Pump Station Cofferdam Area at New Monks Farm	J.T.Mackley & Co. Ltd	TQ 205058	Groundwater	Agriculture - dewatering	Screened out: groundwater abstraction situated 9.2km to the south-east and within differing geology from the proposed DCO Order Limits near Buncton. Much of the strata to the north is less permeable than the Chalk, resulting in a hydrogeological disconnection between the proposed DCO Order Limits and this abstraction.
A64	SO/041/0022/015 Underground strata at Free Wharf Shoreham-By-Sea	Wates Construction Ltd	TQ 221051	Groundwater	Industrial, commercial and public services - transfer between sources (post Water Act 2003)	Screened out: groundwater abstraction situated 10.8km to the south-east and within differing geology from the proposed DCO Order Limits near Ashurst. Much of the strata to the north is less permeable than the Chalk, resulting in a hydrogeological disconnection between the proposed DCO Order Limits and this abstraction.

ID	Licence no. and name	Operator	NGR	Source	Use	Potential connection to the proposed DCO Order Limits
A65	10/41/321102 Mill Field, The Common, Henfield	White Esq	TQ 219154	Groundwater	Agriculture - spray irrigation - direct	Screened out: groundwater abstraction situated approximately 3.3km to the south-east of the proposed DCO Order Limits near Ashurst. The supply is within the same geology (Lower Greensand group comprising sandstone and mudstone) as the proposed DCO Order Limits. However, the supply is positioned upgradient of the onshore temporary construction corridor, on the opposite side of the Tidal Arun within a different surface water catchment (Chess Stream). Hence there is no potential for a hydrogeological connection.
A66	10/41/321101 Tributary of Chess Stream at Swains Farm, Woodmancot e	Hills Esq	TQ 224156	Surface water	Agriculture - spray irrigation - direct	Screened out: surface water abstraction from a tributary of the Chess Stream which is in a different surface water catchment and approximately 3.8km upstream of the proposed DCO Order Limits, such that it is hydrologically disconnected.
A67	10/41/322202 Herrings Stream at Hickstead Place	Hickstead Ltd	TQ 265197	Surface water	Agriculture - spray irrigation - direct	Screened out: surface water abstraction from tributary of the Herrings Stream which is in a different surface water catchment and approximately 2.4km upstream of the proposed DCO Order Limits, such that it is hydrologically disconnected.

ID	Licence no. and name	Operator	NGR	Source	Use	Potential connection to the proposed DCO Order Limits
A68	10/41/323103 Tributary of Adur East at Bookers Farm	Hutchings	TQ 253229	Surface water	Agriculture - spray irrigation - direct	Screened out: surface water abstraction from a tributary of the Bolney Sewer 1.7km to the north-east and upgradient of the proposed DCO Order Limits (existing National Grid Bolney substation extension works), such that it is hydrologically disconnected.
A69	10/41/323101 Tributary of Cowfold Stream (B)	Lee	TQ 247242	Surface water	Agriculture - spray irrigation - direct	Screened out: surface water abstraction from tributary of the Bolney Sewer, 2.1km to the north-east and upgradient of the proposed DCO Order Limits (Oakendene substation), such that it is hydrologically disconnected.
A70	22/042 Shoreham Power Station	Drax Generation Enterprise Ltd	TQ 241047	Tidal	Industrial, commercial and public services - non-evaporative cooling	Screened out: surface water abstraction from tributary of the Bolney Sewer, 1.9km to the north-east and upgradient of the proposed DCO Order Limits (Oakendene substation), such that it is hydrologically disconnected.
A71	10/41/323101 Tributary of Cowfold Stream (C)	Lee	TQ 245241	Surface water	Agriculture - spray irrigation - direct	Screened out: surface water abstraction from tributary of the Bolney Sewer, 1.8km to the north-east and upgradient of the proposed DCO Order Limits (Oakendene substation), such that it is hydrologically disconnected.
A72	10/41/323101 Tributary of Cowfold Stream (A)	Lee	TQ 243243	Surface water	Agriculture - spray irrigation - direct	Screened out: surface water abstraction from tributary of the Bolney Sewer, 1.8km to the north-east and upgradient of the proposed DCO

ID	Licence no. and name	Operator	NGR	Source	Use	Potential connection to the proposed DCO Order Limits
						Order Limits (Oakendene substation), such that it is hydrologically disconnected.
A73	Clapham Point 2 PS Point 2	Southern Water Services	TQ 090060	Southern Region Groundwater	Potable Water Supply - Direct	Screened in: Groundwater abstraction located 900m south of Michelgrove Lane access route and 2.3km south of the temporary construction corridor. Michelgrove Lane passes through SPZ1 of the abstraction and the temporary construction corridor is within SPZ2 of the abstraction.
A74	Clapham Point 1	Southern Water Services	TQ 090060	Southern Region Groundwater	Potable Water Supply - Direct	Screened in: Groundwater abstraction located 900m south of Michelgrove Lane access route and 2.3km south of the temporary construction corridor. Michelgrove Lane passes through SPZ1 of the abstraction and the temporary construction corridor is within SPZ2 of the abstraction.

Page intentionally blank

Consented discharges

- 2.2.5 The Environment Agency (2018) has provided information on consented discharges. Within the proposed DCO Order Limits, four consented discharges have been identified as shown in **Table 2-5** and **Figure 26-6, Volume 3** (Application Document Reference: 6.3.26) presented within **Chapter 26: Water environment, Volume 2** of the ES (Document Reference 6.2.26). Each of these consented discharges are situated within the within the proposed DCO Order Limits, are considered as having a potential connection to the Proposed Development, and therefore have been taken screened in for further assessment within **Chapter 26: Water environment, Volume 2** of the ES (Document Reference 6.2.26).



Page intentionally blank

Table 2-5 Consented discharges within the proposed DCO Order Limits

ID	Permit no. and site name	Operator	Discharge outlet NGR	Receiving environment	Discharge category	Potential connection to the proposed DCO Order Limits
D1	D01396 Four discharges at New Inn Farm, Bread Lane, West Sussex Operated by Mr and Mrs F E Warneford.	Mr and Mrs F E Warneford	TQ 004017	Freshwater river	Undefined or other: Sewage Discharges – Final/Treated Effluent.	Screened in: discharge locations within the proposed DCO Order Limits, north of the Lower Arun.
D2	S01525 Bolney substation, Wineham Lane, Twineham, West Sussex. Operated by National Grid PLC	The National Grid Trans Co. PLC	TQ 242211	Freshwater river	Water collection/ treatment/ supply Miscellaneous discharges – surface water	Screened in: discharge within the proposed DCO Order Limits and to a tributary ditch of the River Adur East (Sakeham).
D3	N02790 Old Doctors Cottage.	Domestic Property (single)	TQ 238212	Not stated	Domestic Property	Screened in: discharge within the proposed DCO Order Limits.
D4	S01446 Sub-station at Wineham Lane.	-	TQ 239209	Not stated	Undefined	Screened in: discharge within the proposed DCO Order Limits.

Page intentionally blank

3. Glossary of terms and abbreviations

Table 3-1 Glossary of terms and abbreviations

Term (acronym)	Definition
ADC	Arun District Council
AWDC	Adur and Worthing District Council
ES	Environmental Statement
HDC	Horsham District Council
HMWB	Heavily Modified Water Body
LGS	Local Geological Sites
LNR	Local Nature Reserve
LWS	Local Wildlife Site
PBDE	Polybrominated diphenyl ethers
PFOS	Perfluorooctane sulphonate
PS	Pumping station
PWS	Private water supplies
SPZ	Source protection zones
SSSI	Site of Special Scientific Interest
STP	Sewage Treatment Plant
WFD	Water Framework Directive
WSDC	West Sussex District Council
WwTW	Wastewater Treatment Works



Page intentionally blank

4. References

Department for Environment, Food and Rural Affairs (Defra), (2021). *MAGIC Map*. [Online] Available at <http://magic.defra.gov.uk/MagicMap.aspx> [Accessed 02 June 2023]

Environment Agency, (2020). *Catchment Data Explorer* [online] Available at: <https://environment.data.gov.uk/catchment-planning/RiverBasinDistrict/7> [Accessed 02 June 2023]

Environment Agency, (2018). *River Basin Management Plan, South East River Basin District, February 2016*. Last updated June 2018. [online] Available at: [South East RBD Part 1 river basin management plan.pdf \(publishing.service.gov.uk\)](https://publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/684843/South_East_RBD_Part_1_river_basin_management_plan.pdf) [Accessed 02 June 2023]

Natural England, (2018). *Designated Sites* [online] Available at: <https://designatedsites.naturalengland.org.uk/> [Accessed 02 June 2023]

South Downs National Park Authority (SDNPA), (2010). *An Investigation of the Watercourses in Sussex Arising from the Chalk Aquifers of the South Downs Summary Report*. March 2020.

South Downs National Park Authority (SDNPA), (2020). *Condition of ponds within and nearby the Norfolk Estate (2020)*. South Downs National Park.

