



ENVIRONMENTAL STATEMENT – VOLUME 3 – APPENDIX 12.4

Table of Effects That Have Been Determined To Be Not Significant

Drax Bioenergy with Carbon Capture and Storage

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

Document Reference Number: 6.3.12.4

Applicant: Drax Power Limited

PINS Reference: EN010120



REVISION: 01

DATE: May 2022

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PUBLIC

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1. EFFECTS THAT HAVE BEEN DETERMINED TO BE NOT SIGNIFICANT

1.1.1. As set out in **Section 12.9** (Preliminary Assessment of Likely Impacts and Effects) of **Chapter 12 (Water Environment)** (document reference 6.1.12), receptors identified as experiencing no change, negligible or minor effects as a result of the Proposed Scheme are reported in **Table 1.1** below rather than in the ES chapter. All these features are shown on the **Water Constraints Map (Figure 12.3)** and can be located / identified by their resource number.

Table 1.1 – Effects that have been determined to be Not Significant

Resource / Receptor	Sensitivity of Receptor	Effect	Magnitude of Impact	Significance of Effect
Construction Phase				
Unnamed drain north of the northern cooling towers (reference SW02)	High	Increased Risk of Pollution from Increased Sediment Load	The watercourse is located approximately 90 m to the south – east of the proposed Carbon Dioxide Delivery Terminal Compound area. Given the intervening overland distance, it is considered that potential sediment load would not reach the pond (due to, for example, soaking into the ground and being trapped by vegetation). The magnitude of impact is therefore no change.	Neutral
North Perimeter Ditch (reference SW03)	Negligible	Increased Risk of Pollution from Increased Sediment Load	One of Drax Power Station Site Construction Laydown Areas is proposed to be located adjacent to the southern section of North Perimeter Ditch. The laydown area will be used for laydown and fabrication. The increased sediment load has potential to be conveyed to the ditch what may impact its	Slight Adverse

Resource / Receptor	Sensitivity of Receptor	Effect	Magnitude of Impact	Significance of Effect
			quality. The magnitude of the potential impact without mitigation is assessed to be moderate adverse.	
Pond 1 (reference SW32)	Negligible	Increased Risk of Pollution from Increased Sediment Load	The pond is located approximately 70 m to the north of the proposed Drax Power Station Construction Laydown Areas. Given the intervening overland distance, it is considered that potential sediment load would not reach the pond (due to, for example, soaking into the ground and being trapped by vegetation). The magnitude of impact is therefore no change.	Neutral
Unnamed Selby Area IDB drain with reference 44 (reference SW04)	High	Increased Risk of Pollution from Increased Sediment Load	The drain is located approximately 80 m to the south of East Construction Laydown Area. Given the intervening overland distance, it is considered that potential sediment load would not reach the watercourse (due to, for example, soaking into the ground and being trapped by vegetation). The magnitude of impact is therefore no change.	Neutral
Unnamed Selby Area IDB drain with reference 18/4	High	Increased Risk of Pollution from Increased Sediment Load	The drain flows approximately 120 m to the south of East Construction Laydown Area. Given the intervening overland distance, it is considered that potential sediment load would not reach the pond (due to, for example,	Neutral

Resource / Receptor	Sensitivity of Receptor	Effect	Magnitude of Impact	Significance of Effect
(reference SW07)			soaking into the ground and being trapped by vegetation). The magnitude of impact is therefore no change.	
Unnamed drain along the southern edge of Carr Lane (reference SW33)	High	Increased Risk of Pollution from Increased Sediment Load	The drain flows approximately 40 m to the south of the southern boundary of East Construction Laydown Area, along the southern edge of Carr Lane. Carr Lane is elevated above the surrounding ground which creates a barrier for potential pollutions from the laydown area. The magnitude of impact is therefore no change.	Neutral
River Ouse (reference SW09)	Very High	Increased Risk of Pollution from Increased Sediment Load	River Ouse is located approximately 1.3 km and approximately 1.8 km downstream of the proposed Carbon Dioxide Delivery Terminal Compound and the purge pump respectively. Considering the distance and the presence of the existing drainage systems, which include sediment traps (gully pots), and the drainage systems for the construction laydown areas which would include appropriate pollution prevention measures (as specified, but not limited to those in the REAC) potential increased sediment load would be sufficiently trapped before it reaches the River Ouse. The	Slight Adverse

Resource / Receptor	Sensitivity of Receptor	Effect	Magnitude of Impact	Significance of Effect
			magnitude of the potential impact is therefore negligible.	
Unnamed Drain (reference SW27)	High	Increased Risk of Pollution from Increased Sediment Load	The drain is located approximately 60 m to the west of the proposed construction works. Given the intervening overland distance, it is considered that potential sediment load would not reach the drain (due to, for example, soaking into the ground and being trapped by vegetation). The magnitude of the potential impact is therefore no change.	Neutral
Pond 5 (reference SW35)	Negligible	Loss of the feature	The pond is located in the area of the proposed Carbon Dioxide Delivery Terminal Compound so it will be removed during construction works. The project's ecologist site inspection determined that the feature is not actually a pond but an area where water would pond during or after prolonged storm events, and it has very low ecological importance. However, as the feature will be lost due to construction of the Carbon Dioxide Delivery Terminal Compound, the magnitude of the potential impact is assessed to be major adverse.	Slight Adverse
Unnamed drain north of the	High	Increased risk of pollution from	The watercourse is located approximately 90 m to the south – east of the proposed Carbon	Neutral

Resource / Receptor	Sensitivity of Receptor	Effect	Magnitude of Impact	Significance of Effect
northern cooling towers (reference SW02)		accidental spillages of oil, hydrocarbons and hazardous substances	Dioxide Delivery Terminal Compound area. Given the intervening overland distance, it is considered that potential pollution from accidental spillages would not reach the watercourse (due to, for example, soaking into the ground and being trapped by vegetation, which would be managed, for example, using spill kits and appropriate disposal). The magnitude of impact is therefore no change.	
North Perimeter Ditch (reference SW03)	Negligible	Increased risk of pollution from accidental spillages of oil, hydrocarbons and hazardous substances	One of Drax Power Station Site Construction Laydown Areas is proposed to be located adjacent to the southern section of North Perimeter Ditch, which is part of the surface water drainage system for the Drax Power Station Site. The laydown area will be used for laydown and fabrication. There is potential risk of pollution from accidental spillages / leakage. The magnitude of potential impact is major adverse.	Slight adverse
Pond 1 (reference SW32)	Negligible	Increased risk of pollution from accidental spillages of oil, hydrocarbons and hazardous substances	The laydown area proposed to be located between the cooling towers is located approximately 60 m to the south of Pond 1. There is potential risk of pollution from accidental spillages and leakage of oil, hydrocarbons and hazardous substances.	Neutral

Resource / Receptor	Sensitivity of Receptor	Effect	Magnitude of Impact	Significance of Effect
			<p>Given the intervening overland distance, it is considered that potential pollution from accidental spillages would not reach the pond (due to, for example, soaking into the ground and being trapped by vegetation, which would be managed, for example, using spill kits and appropriate disposal). The magnitude of the potential impact is assessed to be minor adverse.</p>	
<p>Unnamed Selby Area IDB drain with reference 18/4 (reference SW07)</p>	<p>High</p>	<p>Increased risk of pollution from accidental spillages of oil, hydrocarbons and hazardous substances</p>	<p>The drain is located approximately 120 m to the south of the East Construction laydown Area. There is potential risk that pollution from accidental spillages and leakage can be transported overland into this drain. Given the intervening overland distance, it is considered that pollution from accidental spillages would not reach the drain (due to, for example, soaking into the ground and being trapped by vegetation, which would be managed, for example, using spill kits and appropriate disposal). In addition, Carr Lane located between the laydown area and the drain is elevated above levels of the laydown area and in the same forms a barrier for potential pollution which may flow overland. The</p>	<p>Neutral</p>

Resource / Receptor	Sensitivity of Receptor	Effect	Magnitude of Impact	Significance of Effect
			magnitude of the impact is assessed to be no change.	
Unnamed drain along the southern edge of Carr Lane (reference SW33)	High	Increased risk of pollution from accidental spillages of oil, hydrocarbons and hazardous substances	The drain is located approximately 40 m to the south of the southern boundary of East Construction Laydown Area. There is potential risk that pollution from accidental spillages and leakage can be transported overland into this drain. Given the intervening overland distance, it is considered that pollution from accidental spillages would not reach the drain (due to, for example, soaking into the ground and being trapped by vegetation, which would using, for example, using spill kits and appropriate disposal). In addition, Carr Lane located between the laydown area and the drain is elevated above levels of the laydown area and in the same forms a barrier for potential pollution which may flow overland. The magnitude of the impact is assessed to be no change.	Neutral

Resource / Receptor	Sensitivity of Receptor	Effect	Magnitude of Impact	Significance of Effect
Operational Phase				
Sherwood Sandstone Principal Aquifer	High	Increased risk of pollution from accidental spillages of oil, hydrocarbons and hazardous substances and change to groundwater flow paths.	Design mitigation from the Surface Water Drainage Strategy proposes no infiltration to groundwater. No changes to the groundwater abstraction licences are proposed. This would result in a negligible magnitude of impact	Slight Adverse
Secondary A Aquifers	Medium	Increased risk of pollution from accidental spillages of oil, hydrocarbons and hazardous substances and change to groundwater flow paths.	Design mitigation from the Surface Water Drainage Strategy proposes no infiltration to groundwater. No changes to the groundwater abstraction licences are proposed, This would result in a negligible magnitude of impact.	Neutral
Industrial Boreholes	Medium	Increased risk of pollution from accidental spillages of oil, hydrocarbons and hazardous substances	Design mitigation from the Surface Water Drainage Strategy proposes no infiltration to groundwater and no change to groundwater abstraction licences are proposed, which would result in a negligible magnitude of impact.	Neutral

Resource / Receptor	Sensitivity of Receptor	Effect	Magnitude of Impact	Significance of Effect
Yorkshire Water abstraction boreholes	Very High	Increased risk of pollution from accidental spillages of oil, hydrocarbons and hazardous substances	Design mitigation from the Surface Water Drainage Strategy proposes no infiltration to groundwater and no changes to groundwater abstraction licences are proposed, which would result in a negligible magnitude of impact.	Slight Adverse