

13.0	SUMMARY OF SIGNIFICANT RESIDUAL EFFECTS AND MITIGATION.....	1
13.1	Introduction.....	1
13.2	Significant Environmental Effects and Proposed Mitigation Measures	1

TABLES

Table 13.1 – Summary of Significant Residual Effects and Mitigation.....	2
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13.0 SUMMARY OF SIGNIFICANT RESIDUAL EFFECTS AND MITIGATION

13.1 Introduction

13.1.1 Chapters 6 to 12 of this Environmental Statement (ES) have considered the potential environmental impacts and effects of the Proposed Development. This chapter of the ES provides a summary of those adverse and beneficial environmental effects that are considered to be significant (i.e. moderate and major effects).

13.2 Significant Environmental Effects and Proposed Mitigation Measures

13.2.1 Table 13.1 summarises the significant environmental effects of the Proposed Development that have been identified, following implementation of the embedded mitigation or impact avoidance measures included in the design of the Proposed Development (as detailed in Chapters 6 to 12, where relevant). Table 13.1 also summarises any additional mitigation measures that have been identified in the technical assessments contained in the ES. Cumulative effects and interactions are included separately at the end of the table.

13.2.2 As outlined in Chapter 2: Assessment Methodology, for the purposes of this ES an effect is considered to be 'significant' if it is assessed to be moderate (adverse or beneficial) or major (adverse or beneficial). Minor and negligible effects are only referenced in this chapter where a 'significant' effect has been reduced to a 'not significant' effect following mitigation.

13.2.3 To provide further clarification on the nature of the effects, each has been identified as.

- short term (St) – effects occurring only over a short period of time, e.g. an effect that only lasts for the duration of the construction period, or one that lasts for a short part of the operational phase;
- medium term (Mt) – effects occurring for the duration of the development's operation, but which cease when operations cease; or
- long term (Lt) – effects occurring beyond the operation of the proposed scheme, for example the change in the landform associated with the Proposed Development;
- temporary (T) – effects that are not permanent because the effect would no longer occur if the impact was removed within the relevant timescale (for example the visual amenity impact of construction of the Whitefield Lane realignment would be described as St, T as the impact changes when the works are complete);
- permanent (P) – effects that are permanent and cannot be readily reversed within the relevant timescale (for example an environmental feature that is lost and cannot be replaced until after decommissioning would be Mt, P. In the event that it could not be replaced at all, this would be Lt, P); and
- direct (D) – effects that result from a direct impact, for example, the loss of ecological habitat; or
- indirect (In) – also known as secondary effects, these are effects that result indirectly (for example increased traffic could indirectly impact on air quality).

Table 13.1 – Summary of Significant Residual Effects and Mitigation

DEVELOPMENT STAGE	ENVIRONMENTAL IMPACT (FOLLOWING DEVELOPMENT DESIGN AND IMPACT AVOIDANCE MEASURES)	CLASSIFICATION OF EFFECT PRIOR TO MITIGATION	MITIGATION/ ENHANCEMENT (IF IDENTIFIED)	CLASSIFICATION OF RESIDUAL EFFECT AFTER MITIGATION	NATURE OF EFFECT(S) (LT/MT/ST AND P/T AND D/IN)
Chapter 6: Landscape and Visual Amenity					
Construction	Impact on visual amenity to residents at Viewpoint 13 (Whitefield Lane, Whitley) during construction of the Whitefield Lane realignment	Moderate adverse (significant)	None	Moderate adverse (significant)	St/T/D
Operation	Impact on visual amenity to footpath users at Viewpoint 2 (Gravel Hill Lane, Whitley) during operational activities	Moderate adverse (significant)	None	Moderate adverse (significant)	Lt/P/D
Operation	Impact on visual amenity to footpath and road users at Viewpoint 3 (Fulham Lane, Womersley) during operational activities	Moderate adverse (significant)	None	Moderate adverse (significant)	Lt/P/D
Operation	Impact on visual amenity to residents at Viewpoint 6 (Northfield Lane, Cridling Stubbs) during operational activities	Moderate adverse (significant)	None	Moderate adverse (significant)	Lt/P/D
Restoration	No significant effects identified				
Chapter 7: Ecology					
Construction	No significant effects identified				
Restoration	Reinstatement and establishment of habitats resulting in beneficial effects for notable and protected species, including: great crested newt, bats, badger, grass snake, breeding birds and terrestrial invertebrates.	Moderate beneficial (significant)	N/A (beneficial effect)	Moderate beneficial (significant)	Lt/P/D

DEVELOPMENT STAGE	ENVIRONMENTAL IMPACT (FOLLOWING DEVELOPMENT DESIGN AND IMPACT AVOIDANCE MEASURES)	CLASSIFICATION OF EFFECT PRIOR TO MITIGATION	MITIGATION/ ENHANCEMENT (IF IDENTIFIED)	CLASSIFICATION OF RESIDUAL EFFECT AFTER MITIGATION	NATURE OF EFFECT(S) (LT/MT/ST AND P/T AND D/IN)
Chapter 8: Traffic and Transport					
Construction	Scoped out of assessment. No significant effects identified				
Operation	No significant effects identified				
Restoration	Scoped out of assessment. No significant effects identified				
Chapter 9: Air Quality and Greenhouse Gases					
Construction	No significant effects identified				
Operation	No significant effects identified				
Restoration	No significant effects identified				
Chapter 10: Noise and Vibration					
Construction	Noise effects during construction of the Whitefield Lane Road realignment	Up to moderate adverse at nearest residential NSRs during daytime (significant).	Further detailed assessment and implementation of noise controls by contractor, including installation of hoarding.	Minor adverse or less, on the basis that BS 5228 ABC noise limits will be met (not significant).	St/T/D
Operation	Operation of the Proposed Development	Negligible to major adverse – night-time (significant).	Operating hours during excavation of Lagoons C&D Lagoon will avoid the 'night time' period between 05:00 and 07:00.	Minor adverse/negligible effects	Lt/T/D
Restoration	Scoped out of assessment. No significant effects identified				
Chapter 11: Geology, Hydrology and Contaminated Land					
Construction	No significant effects identified				
Operation	No significant effects identified				
Restoration	No significant effects identified				
Chapter 12: Cumulative Effects and Interactions					
Construction	No significant effects identified in addition to those identified for the Proposed Development in isolation				
Operation	No significant effects identified in addition to those identified for the Proposed Development in isolation				
Restoration	No significant effects identified in addition to those identified for the Proposed Development in isolation				

Note: Lt = long term, Mt = medium term, St = short term, P = permanent, T = temporary, D = direct and In = indirect.