

11. WATER RESOURCES

11.1 Introduction

11.1.1 The assessment of surface water resources adjacent to the site area utilised available information from the Environment Agency relating to the surface water courses.

11.1.2 The potential effects upon groundwater from contamination are addressed in detail in the ground conditions section of the ES.

11.1.3 The schemes submitted to discharge planning conditions have been taken into account.

11.2 Methodology

11.2.1 The effect on surface water has been assessed following desk study and site investigation carried out by Dunelm Environmental.

11.3 Baseline conditions

11.3.1 The nearest surface water to the site is the Herrington Burn which runs approximately 650m to the west of the site, there is also the Moor Burn over 700m southwest of the site boundary in Sedgelych. These two burns combine into the Lumley Park Burn and flow west to meet the River Wear 4.5km west of the site boundary.

11.3.2 All surface flows from the development would be controlled by piped drainage and would not discharge direct into the water courses.

11.3.3 A Geo-environmental Appraisal for the site has been undertaken by Dunelm Geotechnical and Environmental in July 2006 (Appendix 12). The appraisal indicated that no significant inflows of groundwater were encountered during the investigation, although a slight seepage was recorded in one area.

11.3.4 The Environmental Agency website indicates that the site is not located within an indicative floodplain and therefore a flood risk assessment is not required because it is not an issue.

11.4 Potential impacts

11.4.1 Condition 12 required a scheme of measures to protect local amenity during the construction phase to be submitted for approval of the Planning Authority. This has now been discharged.

11.4.2 Conditions B20 and B21 required the submission of schemes for surface water and foul drainage and drainage of the pitches. These conditions have also been discharged to the satisfaction of the Planning Authority.

11.4.3 Condition 29 requires the use of trapped gullies to protect water quality. This condition has been discharged.

11.4.4 Because there would be only a small increase in hard surfacing compared to the existing site uses (it will be mostly grass pitches), the rate of rainwater runoff from the site would remain broadly similar. Therefore, the development of the site would not increase downstream flooding.

11.4.5 Therefore, measures have been incorporated into the site design to safeguard surface water during the construction and operational phases of the development.

11.5 Mitigation measures

11.5.1 Mitigation measures have been incorporated in the schemes approved by the Planning Authority. No further mitigation is required.

11.6 Residual impacts

11.6.1 There would be no residual impacts.

11.7 Conclusions

11.7.1 The scheme would not increase the risk of flooding and neither is the site itself in a flood risk zone.

11.7.2 There would be no adverse impacts upon surface water.