

File Note

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Project title	WAST - ARC	Job number
		213833
cc	Arup, NIA, BAM	File reference
		4-50
Prepared by	Poorav Chheda	Date
		12 July 2012
Subject	Planning Design and Access Statement - Drainage	

1 Foul Drainage

The foul sewage from the development is proposed to be discharged to the existing public sewer located along the northern boundary of the site. Dwr Cymru Welsh Water (DCWW) have confirmed that this sewer has capacity to accommodate foul sewage from the proposed development. The point of connection to this sewer is subject to detailed design and agreement with DCWW.

An application under Section 106 of the Water Industry Act 1991 will be required to obtain consent from DCWW for connecting to the public sewer.

The proposed development will consist of two vehicle wash down facilities. The wash down facility servicing the fire appliances will be located along the front apron in the western part of the site, and the wash down facility servicing the ambulances will be located within the eastern part of the site, adjacent to the refuelling facility. Although these systems are proposed to be fully self contained re-circulating systems, a connection to the foul drainage network will be required to accommodate any overflow from these systems. The overflow discharge will be classified as trade effluent, and will therefore require a Trade Effluent Discharge Consent.

2 Surface Water Drainage

The surface water drainage from the development is proposed to be discharged to the River Gwenfro. Where appropriate, the surface water will be treated via a Class C1 by-pass separator prior to discharging to the River Gwenfro. The discharge will be restricted to the Greenfield Runoff Rates (GRR) corresponding to the following storm events.

- 1 in 1 year return period
- 1 in 30 year return period; and
- 1 in 100 year return period.

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The GRR for the above storm events have been estimated at 5 l/s/ha, 9.6 l/s/ha and 11.9 l/s/ha respectively. On-site attenuation will be provided for up to and including the 1 in 100 year return period storm including 20% allowance for climate change.

The strategy for discharging the surface water drainage to the River Gwenfro, and the estimated GRRs have been discussed with the Environment Agency Wales (EAW). The EAW have confirmed that the strategy is acceptable in principle, and have offered no adverse comments on the estimated GRRs. A flood defence consent will be required from the EAW to allow discharge of surface water drainage to the River Gwenfro.

DOCUMENT CHECKING (not mandatory for File Note)

	Prepared by	Checked by	Approved by
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Signature			