Infrastructure Design Branch
Advice to Users of DS 30 Series Design Standards

DS 32-01 Pump Stations – Borehole - Mechanical

DS 32-01 has been developed as a separate standard in order to specify the mechanical engineering requirements for borehole pumping systems including down-hole and aboveground pipework. DS 32-01 supersedes Clause 4.7 “Submersible Electric Borehole Pumps” which is contained in DS 32 Pump Stations Mechanical.

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| General comment         | This is a new standard that has been developed in order to:  
                         • Specify the mechanical technical requirements for submersible electric and lineshaft turbine borehole pumps, and associated headworks pipework.  
                         • Address pumps utilising flexible column, rigid column and casing column (columnless).  
                         • Address non flood-prone and flood-prone bore sites. Flood-prone bore sites are further split into flood-plane and riverbed types.  
                         • Address sealing of headworks in order to prevent floodwaters and other contaminants from entering the bore.  
                         • Align with regulatory requirements.  
                         Drawings are being prepared to complement the Standard but will not be available until after July 2011. |

Section details:
Section 1 Scope and General
Section 2 General Design Criteria
Section 3 Production Bore Sites
Section 4 Submersible Electric Borehole Pumps
Section 5 Lineshaft Borehole Pumps
Section 6 Bore Head Casing Cover
Section 7 Pipework and Ancillaries

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25th March 2011