

**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.

<b>Document title</b>	Pump Stations – Borehole - Mechanical
<b>Document reference</b>	DS 32-01
<b>Issue date</b>	May 2011
<b>General comment</b>	<p>This is a new standard that has been developed in order to:</p> <ul style="list-style-type: none"> <li>• Specify the mechanical technical requirements for submersible electric and lineshaft turbine borehole pumps, and associated headworks pipework.</li> <li>• Address pumps utilising flexible column, rigid column and casing column (columnless).</li> <li>• Address non flood-prone and flood-prone bore sites. Flood-prone bore sites are further split into flood-plane and riverbed types.</li> <li>• Address sealing of headworks in order to prevent floodwaters and other contaminants from entering the bore.</li> <li>• Align with regulatory requirements.</li> </ul> <p>Drawings are being prepared to complement the Standard but will not be available until after July 2011.</p>
<b>Section details:</b>	
<b>Section 1</b>	Scope and General
<b>Section 2</b>	General Design Criteria
<b>Section 3</b>	Production Bore Sites
<b>Section 4</b>	Submersible Electric Borehole Pumps
<b>Section 5</b>	Lineshaft Borehole Pumps
<b>Section 6</b>	Bore Head Casing Cover
<b>Section 7</b>	Pipework and Ancillaries

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