

## Guidance notes and procedure

These guidance notes will assist you in completing a new sewer adoption application. You should read the notes in conjunction with the Water Industry Act 1991. The relevant section is Section 104 – agreement to adopt sewers, drain or sewage disposal works at a future date.

General guidance notes about sewer adoption are on our website.

### Is there any specific guidance about pumping stations?

The current version of the Design and Construction Guide has technical design and specifications for adoptable pumping stations. However, we have specific additional requirements for pumping stations, as do some other water companies. You can find a copy of the Wessex Water pumping station addendum on our Developer Services web page.

### What extra information is needed for pumping station technical approval?

Here is a checklist of specific items we expect to see included in your submission:

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- Adoptable drainage layout drawing and rising main long section must show your normal sewers, and also:
  - pumped rising main route and pumping station compound location
  - pumped rising main material, diameter and gradient
  - break chamber (normally 3-6m upstream of the effective discharge point, depending on flow rate)
  - any washouts or air valves (if appropriate).
- Pumping station general arrangement drawing needs to be to scale or dimensioned and must show full details to allow construction of the compound (because mechanical and electrical plans from pump suppliers may not):
  - site setting out levels and cross falls
  - compound drainage - connected to wet well or inlet chamber
  - kerbs (we require a back edged kerb around the outside edge of the fence to delineate the compound boundary)
  - surface materials and specifications, cross sections of the parking hard standing area and access road
  - fencing and gates, including type, style and height proposed
  - the minimum distance of the wet well from nearby habitable buildings.
- Structural or Civil construction drawing must show:
  - inlet chamber, wet well, valve chamber and flow meter chamber (if appropriate)
  - additional emergency storage structures (if appropriate)
  - foundation design to suit site-specific ground conditions
  - any other additional structural elements.
- Flotation calculations.
- A mechanical and electrical pack is normally provided by your pump supplier, and must include:
  - electrical wiring diagrams
  - panel and kiosk layout drawings
  - specification and accessories summary, control equipment, lifting equipment
  - drainage strategy and pumping station design philosophy summary
  - break down of emergency storage calculations showing location and volumes.
- Pump supplier's mechanical and electrical drawings need to be to scale or dimensioned, and must show:
  - plan, section and layout drawings detailing interaction with civil components
  - duct layout and power supply route
  - air vent and light column position
  - pipe routes and dimensions
  - covers, including their specification.
- Pumping station compliance acknowledgment. Please complete WWDS-S104/S185-6 form, which is available on our web site and include in your submission.

- Pump data sheets must include:
  - pump type/manufacturer
  - pump starts per hour
  - flow rates, discharge rates and head calculations
  - technical data sheets
  - emergency storage calculations.
- Hazardous Area (DSEAR/Zoning) drawing.
- Site survey results for mobile phone signal strength 4G/LTE, 3G/UMTS, 2G/GSM, centred on the kiosk co-ordinates. Signal data in HTML format can be presented as screen shots of display in a web browser.
- Vehicle Access Swept Path drawing for a 4,000 gallon tanker.
- Land transfer drawing at scale 1:200 must show:
  - the compound area to be transferred to us, the pumping station site boundary edged red
  - access rights over third party land, any large length of third party land between the compound and the nearest public highway edged brown.
 (additional plans and information will be required post agreement)
- Planting and landscaping drawing to show proposed adjacent land use.
- Risk of septicity needs checking for all rising mains longer than 50m. Our pumping station septicity guidance notes and application form WWDS-023A are on our website. Please include in your submission (if appropriate).
- Surge analysis is needed for any rising main greater than 500m in length. Please include in your submission (if appropriate).

### What extra information is needed during construction?

Once the pumping station is nearing commissioning stage, you will need to contact the regional office dealing with your development, to arrange installation and commissioning of our telemetry system. There are some relevant items that are unknown during your initial application (eg, Operation and Maintenance manuals, as built drawings, new street name were the pumping station is located, which we will use as our asset reference), so we will advise you when this information needs submitting.

