Scottish Water

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Submersible 2 Pump Wastewater Pumping Stations

Standard Product Data Sheet

Document Title:	**Section 900 – Standard Products Waste Water Pumping Stations - Datasheet**		
Document Reference:	**SSP-SP-DSH-09002001**		
Version:	**2.0**	**Date:**	**Sept-15**

Record of Changes and Amendments

Amendment Number	Amendment Date	Document Section/Clause Reference Number	Document Section/Clause Header	Brief Summary of Change	Document Version Number
001	July 15	N/A	N/A	First Issue	1.0
002	Sept-15	N/A	N/A	Various minor amendments	1.1
003	Sept 15	N/A	N/A	Upversion for Implementation	2.0

STANDARD PRODUCT DATASHEET
WASTEWATER PUMPING STATION

Project Title		Document Reference (Proj ID & Data Sht No)	
Site Name		Revision	
Site Location		Date	

* - indicates baseline requirement.

Purpose of Enquiry (✓)	
Query / Quote	
Order	

Full Catalogue Part Numbers
Pumping Station
Example: PS02-VC02-'Pump Model No.'
MCC and Kiosk
Example: GA02-MIGI-WP01-VSD02-FSW01-KS03

Sub Assemblies Required (Y/N)	
Wet Well	
Valve Chamber	
Control Panel (Baseline)	
Control Panel (MCC Catalogue)	
Kiosk	

Wet Well (✓)	
PS01a	
PS01b	
PS02	
PS03	

Valve Chamber (✓)	
VC01	
VC02	
VC03	

Pumps	
Wet Well Flushing Valve	
Required (Y/N)	N*
Number Required	
Pump Throughlet	
Diameter of Solid Sphere Required to be Passed by the pump (mm)	

Pump Selection	
Pump Supplier	
Pump Model No.	
Curve No.	
Pump Discharge Taper	
Required (Y/N)	
Type	Eccentric*
Size (inlet & outlet dia.)	

Pumping Station Duty Requirements	
Maximum Total Flow rate (l/sec)	
Minimum Flow rate (l/sec)	
Static Head (m)	
Maximum	
Minimum	
Dynamic Head (m)	
At Maximum Duty Flow rate	
At Minimum Duty Flow rate	
Total Pump Head (m)	
At Max Duty / Maximum Static Head	
At Minimum Duty / Minimum Static Head – if required	

Sewage Properties	
Solids content (%wt)	
Rag content (high/low)	
Abrasive solids content (high/low)	
pH	
Salinity (peak/average) (mg Cl/l)	
Temperature (inlet) (min/max) (^{o}C)	

Wet Well	
Shuttering required (Y/N)	Y*
Shuttering gap required (mm) – 50mm increments from 150-300mm	
Split Wet Well Required (option for wet wells deeper than 4 metres) (Y/N)	

Valve Chamber	
Shuttering required (Y/N)	Y*
Space between well and shuttering required (mm)	

Pressure Testing (WIMES 8.03) (wet well and valve chamber modules)	
Test Pressure (bar g)	
Test Duration (hrs)	
Witness Testing (Y/N)	

DSEAR	
Wet Well (and valve chamber) DSEAR Rating (✓)	
Non-Hazardous	
Zone 1	
Zone 2	

Sub Assembly Relationship	
Distance (m) between sub assemblies to determine length of cable runs and pipe connections	
Wet Well to Valve Chamber	
Valve Chamber to MCC	

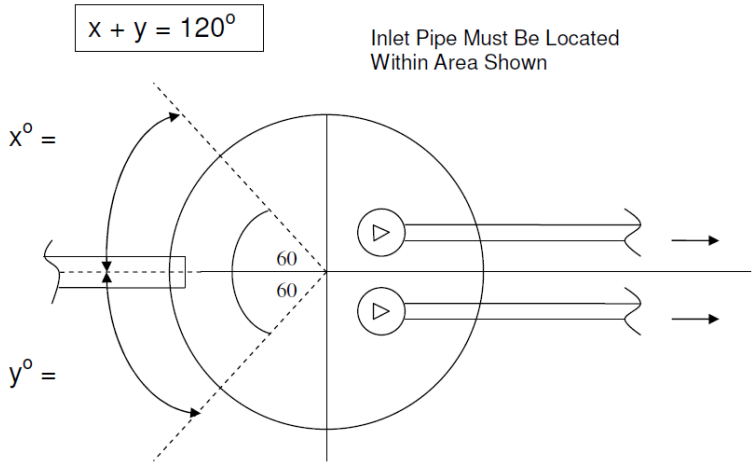
Telemetry Design	
Telemetry Design Complete (Y/N)	
Details Attached (Y/N)	

Control Set points (Automatic Control)	
Ultrasonic Levels **(C)**	
Pump Stop / Dry Running Protection Level (m)	
Pump Start Level (m)	
High Level Alarm (m)	
Overflow Operating Level Alarm (m)	
Float Switch (Wet Well High Level) **(D)**	
Required (Y/N)	Y*
Float Switch Level (m)	
Pump Float Control Run On Timer (seconds)	
Wet Well Scavenge **(E)**	
Required (Y/N)	Y*
Wet Well Scavenge Frequency (hours)	24*
Wet Well Scavenge Duration (seconds)	
Pump Running Low Flow **(F)**	
Required (Y/N)	Y*
Pump Running Low Flow Set point (l/s)	
Pump Running Low Flow Mask (seconds)	30*
Pump Running High Flow **(G)**	
Required (Y/N)	Y*
Pump Running High Flow Set point (l/s)	
Pump Running High Flow Mask (seconds)	30*
Pump Reversal Routine **(H)**	
Required (Y/N)	Y*
Percentage over current to trigger routine (%)	
Pump Reverse Running Speed (%)	
Pump Reverse Running Duration (seconds)	
Reverse Running Pause Duration (seconds)	
Pump Forward Running Speed (%)	
Pump Forward Running Duration (seconds)	
No. of Reverse Cycles per hour prior to failure.	
Maximum Pump Off Timer **(I)**	
Required (Y/N)	Y*
Maximum pump off time (hours)	
Maximum Duty Pump Run Timer **(J)**	
Required (Y/N)	Y*
Maximum duty pump run time (hours)	
Pump Start Level Randomiser **(K)**	
Required (Y/N)	Y*
Maximum allowable random delay time (seconds)	
Float Switch (EO/CSO Operating Level)	
Required (Y/N)	Y*
Float Switch Level (m)	

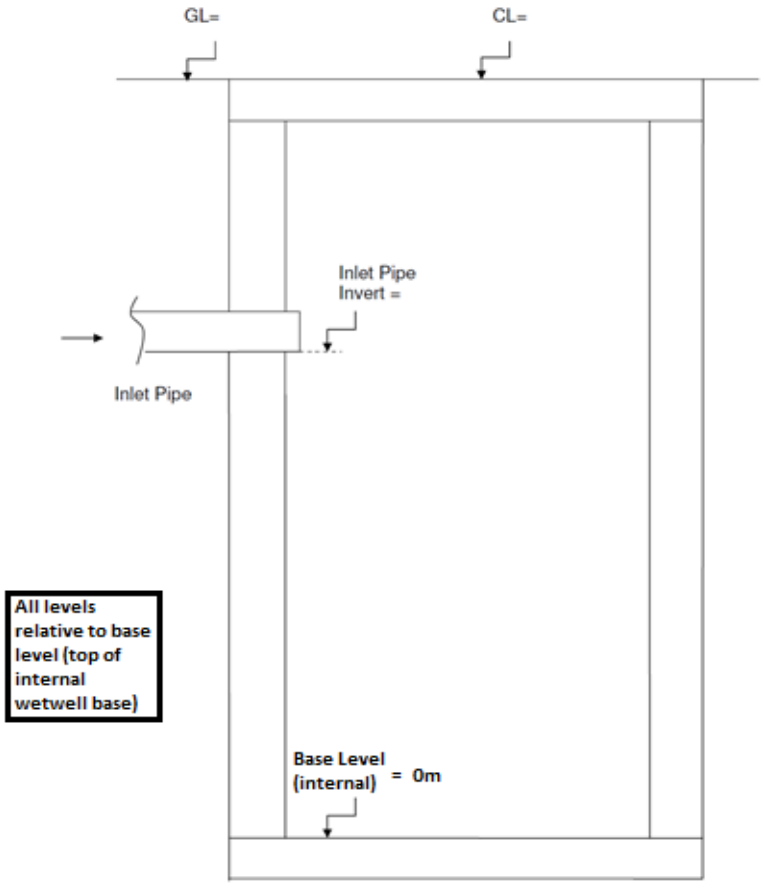
Site Access Restrictions
Details Of Site Specific Risks / Issues.

Wet Well Connection Positions and Levels Sketch

Wet Well Orientation (Plan)



Wet Well Orientation (Section)



System Curves and Envelope of Operation