



|                     |               |                    |
|---------------------|---------------|--------------------|
| Client:             | Project Name: | Project No:        |
| Area:               | Drawing No's: | Date:              |
| Check Conducted By: | Signature:    | Check Approved By: |
|                     |               | Signature:         |

**INSPECTION CHECKLIST FOR: PIPEWORK**

The below checks are to be completed by the Mechanical Contractor prior to start-up of associated pumps

| NO:                           | DESCRIPTION:  | INSPECTION: |    | INSPECTION HISTORY |       |           |  |
|-------------------------------|---|-------------|----|--------------------|-------|-----------|--|
|                               |   |             |    | ACCEPTABLE:        | DATE: | COMMENTS: |  |
| <b><u>Quality Control</u></b> |   |             |    |                    |       |           |  |
| 1                             | Pipe material approved for use  | Yes         | No | Yes                | No    |           |  |
| 2                             | Poly block approved for use   | Yes         | No | Yes                | No    |           |  |
| 3                             | Fixing methods approved for installation  | Yes         | No | Yes                | No    |           |  |
| 4                             | Existing system to be worked on have been isolated prior to commencing work and university notified of isolation                        | Yes         | No | Yes                | No    |           |  |
| 5                             | During Installation, open ends of pipe are to be sealed off with plastic and taped  | Yes         | No | Yes                | No    |           |  |
| 6                             | All materials not being used are correctly stored   | Yes         | No | Yes                | No    |           |  |
| <b><u>Installation</u></b>    |   |             |    |                    |       |           |  |
| 7                             | Drawings on site are the latest issue   | Yes         | No | Yes                | No    |           |  |
| 8                             | Pipework is free of damage  | Yes         | No | Yes                | No    |           |  |
| 9                             | Confirm correct spacing of supports as specified  | Yes         | No | Yes                | No    |           |  |
| 10                            | Confirm pipework runs are correctly located and have adequate clearance from other services   | Yes         | No | Yes                | No    |           |  |
| 11                            | Confirm pipework is installed with bends and offsets allowing for flexibility to absorb movement and vibration from connected equipment | Yes         | No | Yes                | No    |           |  |
| 12                            | Confirm couplings, unions and flanges securely fixed to the pipework  | Yes         | No | Yes                | No    |           |  |

|    |   |     |    |     |    |  |  |
|----|---|-----|----|-----|----|--|--|
| 13 | Confirm all sensing devices have been installed, with binder test points adjacent to each sensor connection   | Yes | No | Yes | No |  |  |
| 14 | Confirm all sleeves have been installed in penetrations through solid walls, rooves   | Yes | No | Yes | No |  |  |
| 15 | Confirm air bleeds have been installed at the highest point (manual or automatic as documented) and drains at the lowest points   | Yes | No | Yes | No |  |  |
| 16 | Confirm pipe work is supported separately to pump   | Yes | No | Yes | No |  |  |
| 17 | Confirm valves, strainers and major line fittings correctly installed as documented   | Yes | No | Yes | No |  |  |
| 18 | Confirm vertical pipework is provided with anchors and guides to keep long pipes in position and support weight of water and pipework   | Yes | No | Yes | No |  |  |
| 19 | Confirm anchors and guides are set at equal distances on each side of expansion devices   | Yes | No | Yes | No |  |  |
| 20 | Confirm spacers provided with a thickness in accordance with the specification, for pipes that will be insulated  | Yes | No | Yes | No |  |  |
| 21 | All valves that are installed are at a reachable height from the floor or platform  | Yes | No | Yes | No |  |  |
| 22 | Confirm connections to plant permit dismantling without disturbing other pipes  | Yes | No | Yes | No |  |  |
|    | <b>Commissioning</b>  |     |    |     |    |  |  |
| 23 | All pipes have been pressurised to the test pressure nominated in the specification to ensure no leakages   | Yes | No | Yes | No |  |  |
| 24 | All pipes have been power flushed with clean water until no debris present in the water sample using a pump to achieve >110% of the maximum design flow rate in that pipework | Yes | No | Yes | No |  |  |
| 25 | Chemical treatment of water provided by approved water treatment company  | Yes | No | Yes | No |  |  |
| 26 | Rust, grease and other dirt removed from external surface of pipe prior to painting and/or insulation installed   | Yes | No | Yes | No |  |  |

|    |   |     |    |     |    |  |  |
|----|---|-----|----|-----|----|--|--|
| 27 | Mark alterations, sizes and location on As Built drawings for record purposes | Yes | No | Yes | No |  |  |
|----|---|-----|----|-----|----|--|--|

**ADDITIONAL COMMENTS:**

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