

APPENDIX A

Typical Over-pumping Arrangements

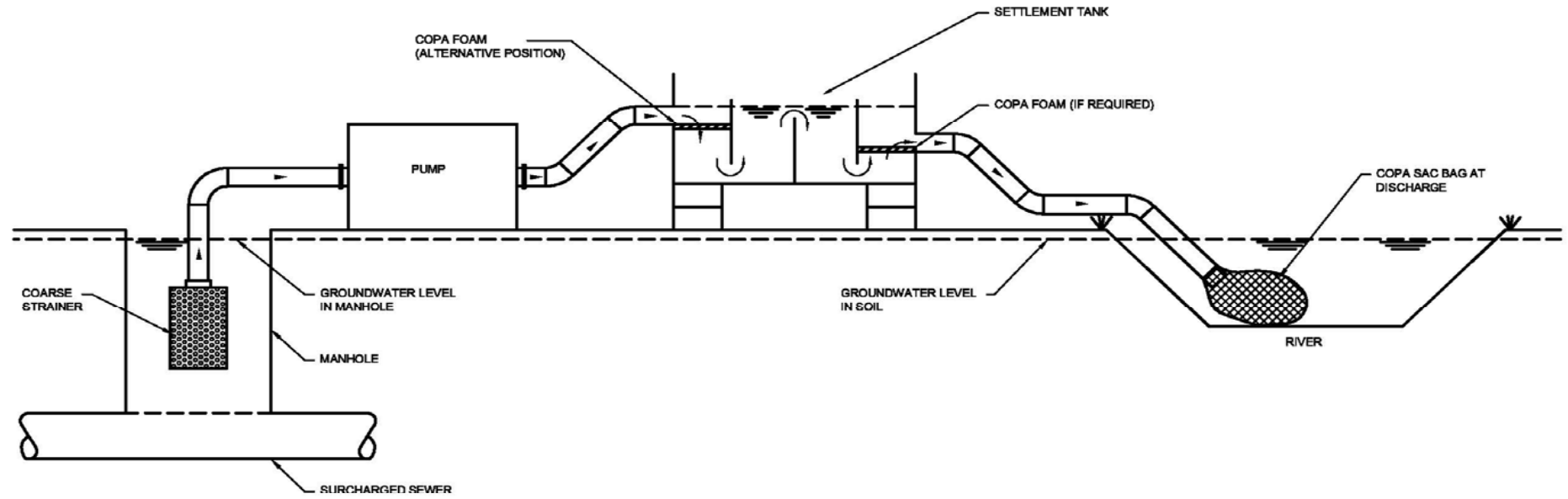


Figure A1
Schematic of Typical Over-pumping arrangement

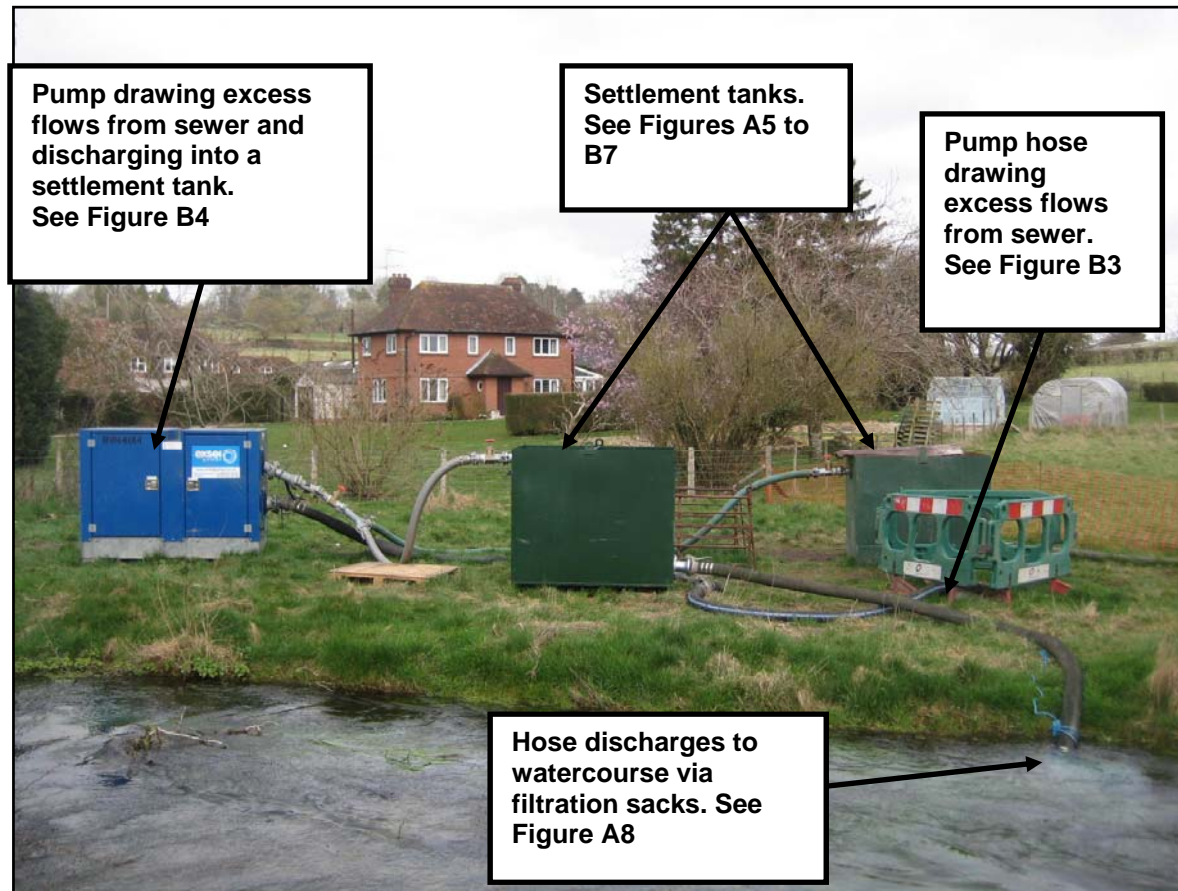


Figure A2 – Photograph of Typical Over-pumping Arrangement



Figure A3 – Pump lifts flow through a barrel filter from a level in the sewer which captures liquid flows rather than solids



Figure A4 – Pump extracts flows from the sewer and discharges to a settlement tank

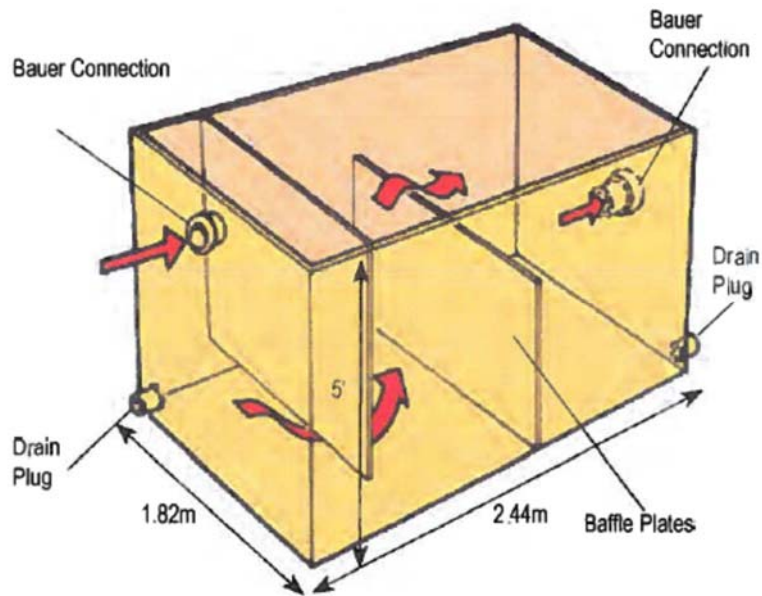


Figure A5 - Diagram of a large settlement tank showing the direction of flow beneath and above baffle plates which results in suspended fine solids dropping to the bottom of the tank. The dimensions shown (2.44m x 1.83m x 1.52m = 8ft x 6ft x 5ft) are suitable for use with 150mm (6 inch) hoses



Figure A6 - Photograph of a small settlement tank usually fed by 75mm (3 inch) or 100mm (4 inch) hoses. The dimensions of the tank are 1.0m wide x 1.5m long x 1.4m high



Figure A7 - Photograph of a typical settlement tank showing the hose at the entry point to the tank and the baffle plates. The blue foam shown can be added to the tank to capture solids at the entry point for flows. This size tank is supplied by 75mm and 100mm pumpsets only.



Figure A8 - Discharge of treated flow to the watercourse through a filtration sack which is replaced regularly.