

User guide for City Analysts *Cryptosporidium* Rig

1. Initial Rig Set Up

- Connect the Rig to the sample tap making sure that there is no filter in the filter housing unit
- Verify that the filter housing unit is installed correctly, ensuring the filter housing unit lid is at the inlet end.
- Slowly turn on the water at the tap and adjust so that the flow rate is 2-3 L per min. Allow approx 20 L of water to flow through the rig. This ensures that debris that may have built up in the sample line and the rig is flushed away. A build up of debris or turbidity may affect sample results.
- Check the rig for any major leaks
- Turn off the tap and allow the pressure to drop

2. Sample Filtration

- Unscrew the lid of the filter housing unit using the green tools provided
- Install the filter into the housing ensuring that the filter is in the correct way. The holes in the black plastic filter mould are at the outlet end of the filter housing unit (Fig. 1)
- Hand tighten the lid back in place of the filter housing unit and apply gentle pressure to create a seal between the filter housing unit and the filter inside.
- Slowly turn on the tap and adjust the flow rate to 2-3 L per min.

- Once the desired volume has passed through the filter, turn off tap and remove entire filter housing unit from the rig using the quick release swagelocks.
- Tip the filter into sealable plastic bag along with any water that is remaining in housing unit. If no water is left add approx 50mls of source water to the plastic bag to stop the filter from drying out.
- Place the bagged filter in a second plastic bag and seal
- Fill all the information out in the Cryptosporidium Sample submission form and dispatch filters to the laboratory for analysis
- **Sample should be sent to the laboratory within 24 hrs of filtration**

Fig 1. Correct orientation of Filtamax filter in housing unit

