**Water quality surveillance plan in Al-Swelih CWTP rehabilitation**

The proposed water quality plan will be used for indicating how water quality (especially free residual chlorine) will be monitored at all critical control points in the safe water chain – down to and including household level. This form will be presented with training for the 3 operators in the WTP.

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| **Intervention** | **Critical Control Point** | **Water Quality Parameter** | **Target** | **Testing Frequency** | **Responsible** | **Reporting Protocol** | **Remedial actions** |
| Al-Swelih CWTP rehabilitation | Drinking filtered water | Fecal coliforms | 0.0/100ml  CFUso | Before and after rehabilitation | WASH staff  Operator | DoW verification | Sanitary survey, shock chlorination and DoW to survey illegal disposing of chemicals from factories |
| Drinking filtered water | E-coli | 0.0/100ml CFUs | Monthly basis | WTP Operators collecting sample | DoW lab testing and documenting | Media filters inspection of levels, leakages, backwashing and DoW to survey illegal disposing of chemicals from factories |
| Filtered water and raw water | turbidity | Below 5 NTU | Daily before chlorination | WTP operators | To DoW with MC training on retain daily record | Add coagulant/flocculant; adjust chlorine dosage. And survey of illegal disposing of construction water in river |
| Filtered water | Free residual chlorine | 1-3 mg/l | Daily | Operators | DoW | Check chlorine doser and piping, adjust chlorine dosage |
| Household | Free residual chlorine | 0.2-0.5 mg/l | Based on DoW rota (weekly or monthly) based on resources and sample size. | DoW roving team | DoW recording | adjust chlorine dosage; inspection of leakages and maintenance |
| |  | | --- | | Household | | Free residual chlorine | chlorine  0.2-0.5 mg/l | 1st 3months of rehabilitation and random spot checks in the area | MC WASH team | DoW recording | adjust chlorine dosage; container cleaning campaign; hygiene promotion |