

Technical Inspection of**Forehill WTW****Date of Inspection****Date** **31/03/2015****DWQR Staff Present**

Bill Byers

Scottish Water Staff Present (& Titles)Jim Young, Craig Christie, Colin Napier, David MacLeod,
Paul Hastie, John Ritchie, John Wigham, Jackie Foster**Summary of Inspection**

Forehill water treatment works is rated at 27 MLD but currently is running at 14-16 MLD. It was stated to be able to increase the output to 20 MLD but the ability to utilise this output is restricted by the water mains infrastructure. The works supplies Peterhead and the surrounding rural area. Treatment at the works consists of coagulation, direct Filtration, GAC Contactors, Disinfection through the addition of sodium hypochlorite, pH and final chlorine adjustment. Inter-stage pH adjustment is made to facilitate Manganese reduction and Orthophosphate is dosed to address plumbosolvency issues with domestic lead plumbing in the supply area. There is no sludge treatment on site as all goes to sewer.

The works was producing a high quality water and the site was found to be in a reasonable state of tidiness, given ongoing contractor activity. The introduction of the GAC stage to the process in October 2014, for removal of pesticides has been a successful development and provided an all-round higher quality water for consumers.

Water quality checks and instrument calibrations were being carried out regularly, as required and the level of record keeping was found to be of a high standard. There were no major concerns identified from this audit. Some minor points are noted for attention.