

Water, Sewage & Industrial Effluent Testing Laboratory

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Director: Engineering Services
Ilembe District Municipality
P.O. Box 1788
KwaDukuza
4450
Attention: Mr. H.N. Maphumulo

E-mail: Group 2 Details

Dear Sir,

**SANCOUSI WATER TREATMENT WORKS:
ANALYTICAL REPORT FOR MARCH 2014**

Four routine inspection visits at Sancousi water treatment works was conducted on 06th, 12th, 18th and 27th March 2014 when samples were collected for analysis in accordance with the yearly visit schedule. Our report is submitted hereunder and results of analysis of the samples are appended on the attached Certificate of Analysis.

1. TREATED WATER - CHEMICAL QUALITY

The physical and chemical quality of the final treated water was satisfactory for one week and poor for three weeks as selected by the high colour ,turbidity,iron and aluminium detected in the treated water.

2. BACTERIOLOGICAL QUALITY AND DISINFECTION

Bacteriological quality of the treated water was good only for two weeks and complied with the SANS 241- specifications in all respects. Disinfection was being practiced using sodium hypochlorite and the free and total chlorine residuals were deemed adequate for two weeks and low for the other two weeks and must be maintained to the recommended limit.

3. RECOMMENDATIONS AND OBSERVATION

The filters must be backwashed more regularly as turbidity is remaining high.The chemical flocculant dose must be checked as this also when overdosed or undosed would contribute to high turbidities. Daily on-site tests must be performed to monitor and maintain the turbidity concentration. General housekeeping was neat.

Yours faithfully

B N KIRK (NATAL) CC



**V. DHEVNANAN
PROCESS TECHNICIAN**