



**SAPEC AFRICA (PTY) LTD**

Food & Beverage Plant inspection

**RE: Boiler no 1 inspected 16/11/12**

Please find below the summary report following the inspection of the Boiler number 1 on the 16<sup>th</sup> November. According to the boiler operators this boiler has run for a considerable period of time. It has been blown out with compressed air and has not used any high-pressure water or abrasive cleaning. We would appreciate it if you could clarify the length of operation as this has a huge bearing on the results.

**Boiler No 1 Front plate with Sapec treatment**



The tubes are in excellent condition, very light scale in places. Minimum reduction in Heat transfer rates

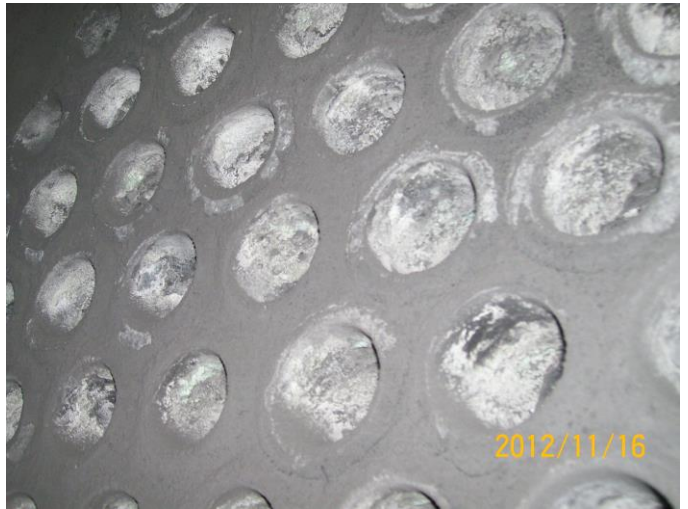


**BOILER NO 1- REVERSAL CHAMBER**

**SAPEC AFRICA (PTY) LIMITED**

PO Box 1427 Edenvale 1610

Telephone: (011) 966 8103 Fax: (086) 563 5129 Email: sales@sapac.co.za

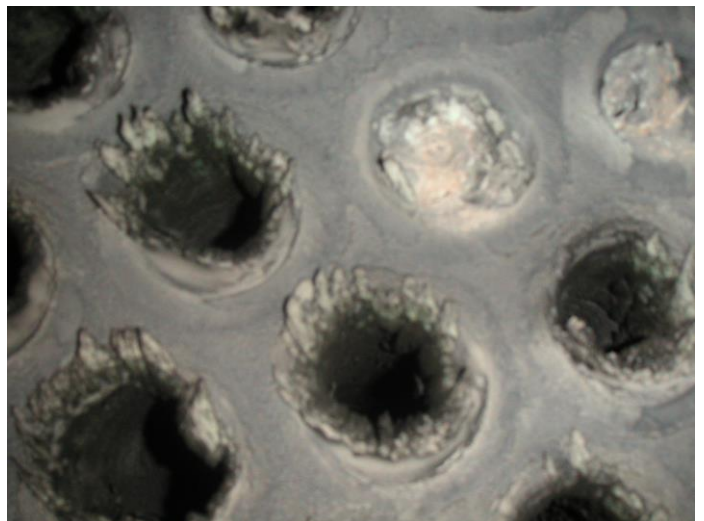


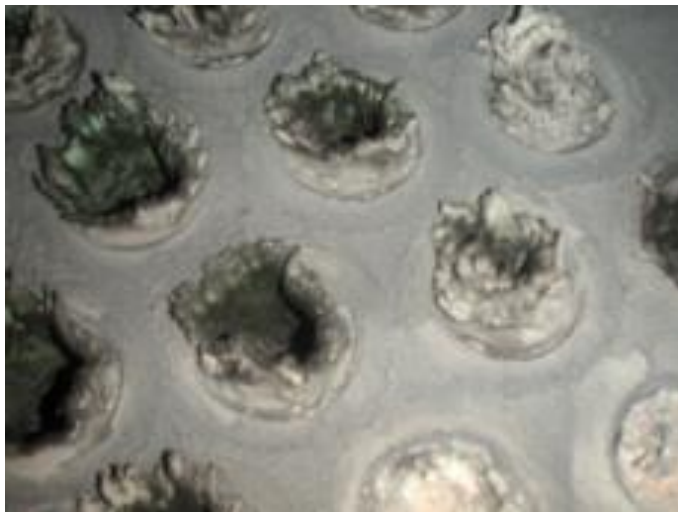
### **Summary**

There is some evidence of build up, however these are soft and easily removed through compressed air. There is no birds-nesting. It is clear that since the introduction of the SAPEC treatment the soot blowers are more effective and that the heat transfer rates are being maintained throughout the operating period. The huge difference in the condition of boiler 1 since the introduction of the SAPEC system can be seen by the next section of the report that shows Boiler 1 in 2010 without the use of SAPEC

### **Tongaat Kliprivier Boiler No 1 2010**

#### **Boiler No 1 in 2010 with no Sapec treatment after 3 months operation**





The tubes are in a really bad condition. The deposits are solid, bonded to the metal and very difficult to remove. Abrasive de-scaling had to be used to clean the tube. Their must be considerable fuel losses.

