

Waste Water Quality

- **What does this dashboard relate to:**

The Waste Water Quality (WWQ) dashboard provides the user with a National, Provincial presentation of Effluent and Monitoring Compliances for a 12 month period. Effluent Compliance includes the following three categories: Microbiological, Chemical & Physical. Effluent Compliance is calculated based on actual samples taken and tests conducted on Determinants within these three categories. Monitoring Compliance is calculated on number of tests done vs. number of tests required per Determinant.

- **Person(s) who championed the dashboard:**

- Mr. Solomon Makate
Water Services: Regulation

- **Enquiries:**

- For all dashboard enquiries click [HERE](#) to go to the Contact Us page.

- **What types of questions does the information product aim to answer:**

The product provides the user with a view of the quality of wastewater effluent in a given area in terms of Effluent Compliance (Microbiological, Chemical & Physical). The Monitoring Compliance will provide the user with an indication whether wastewater is being monitored according to the Sampling Programmes within the given areas. Geographical representation of the data indicates both the Effluent and Monitoring compliance down to the lower level (WSA's). The WSA view will be a rolled up view of all the WWTW (Wastewater Treatment Works) within the given WSA.

- **Data / Information discussion:**

- **Data used to generate the information**
 - **What data is used?**

Data is captured directly (by WSA's/WWTW) on the Integrated Regulatory Information System (IRIS). Calculations are automated in the IRIS Website to determine Effluent & Monitoring compliances.

- **How is it extracted and from where?**

The data is extracted via Water Service Planning Support IT processes and procedures from the IRIS database

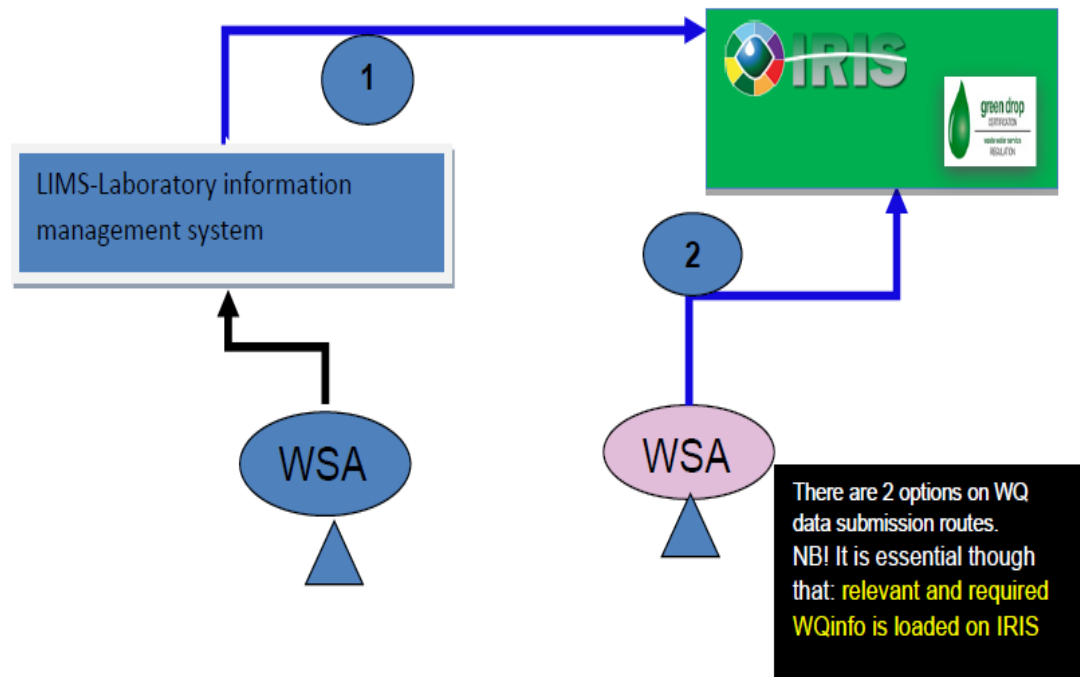
- **How often is it extracted?**

The data is captured and compliances calculated on a daily basis. Data extracts are done on a monthly basis in order to build a 12 month period view.

- **Business processes related to the data:**

There are 2 options on WQ data submission routes:

- **Data can be captured directly by the WSAs on the IRIS using their login details for their municipalities.**
- Data can be transferred by the laboratory used for analysis using the LIMS.



- **The algorithms / equations used to convert data into information:**

IRIS calculates the performance grading for presentation purposes based on the following.

Performance grading:

Compliance below 80%	
Compliance below between 80-90%	
Compliance below between 90-95%	
Compliance above 95%	

▪ **Key assumptions made:**

That the user has been provided with access to Effluent & Monitoring Compliance information for wastewater quality within a given area. Data displayed is a reflection of data as captured/uploaded by WSAs/WWTW. Any WSA/WWTW not capturing/uploading information in the IRIS will not be represented in NIWIS displayed data.

• **Links to other sources of related information**

- IRIS: <http://ws.dwa.gov.za/IRIS/mywater.aspx>
- Water Services Knowledge System (WSKS): <http://ws.dwa.gov.za/wsk/>
- Municipal Strategic Self-Assessment: <http://ws.dwa.gov.za/mussa/Default.aspx#>

• **Are there any limitations / cautions related to using this information?**

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