

WASTE WATER QUALITY DASHBOARD

- **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.

- **Contacts details of person/s who championed this dashboard**

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- **What type/s 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 giving WSA.

- **Data / Information discussion:**

- **Data used to generate the information**

- **What data is used?**

Data is captured directly (by WSA's/WWTW) on the Green Drop System Website (GDS). Calculations are automated in the GDS Website to determine Effluent & Monitoring compliances.

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

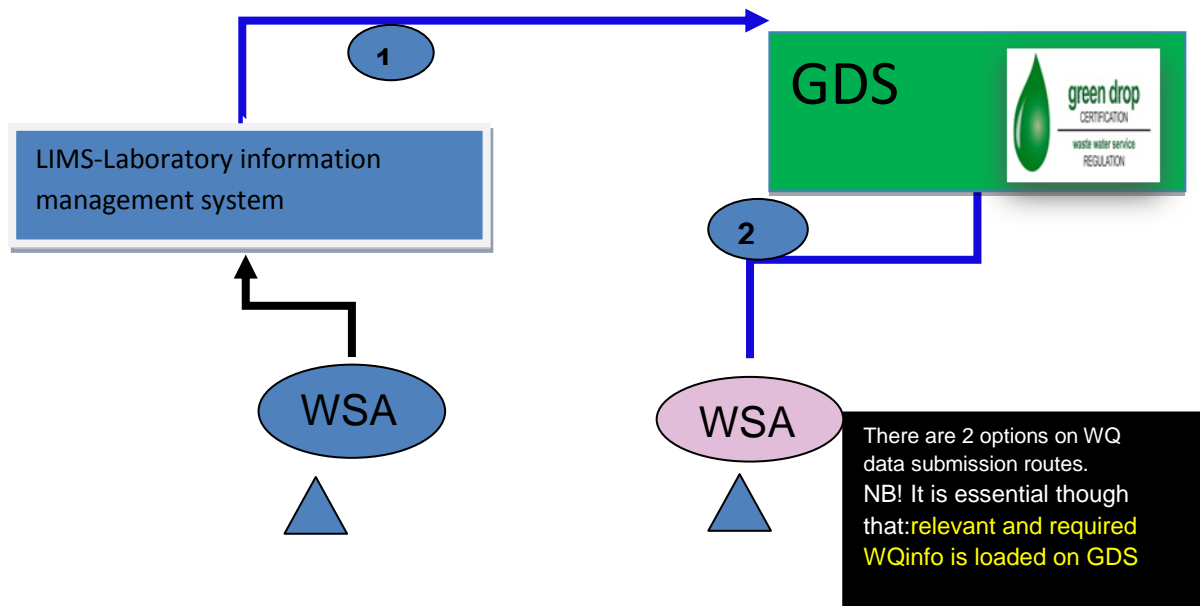
The data is extracted via Macro Planning processes and procedures from the Green Drop System (GDS) database.

- **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 GDS 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**
the GDS calculates the performance grading for presentation purposes based on the following:

Performance Grading:

Compliance below 80%	Red
Compliance between 80-90%	Yellow
Compliance between 90-95%	Green
Compliance above 95%	Blue

- **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 entered by WSAs/WWTW. Any WSA/WWTW not entering information in the GDS will not be represented in NIWIS displayed data.
- **Links to other sources of related information**
 - www.dwa.gov.za/greendrop
 - www.dwa.gov.za/wskw

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

Yes, please refer to the below:

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