

# WATERVAL FORUM



**WATERVAL FORUM MINUTES (Reference: 2019/11)**

**STATUS OF MINUTES: FINAL**

**MEETING DATE: 21November 2019**

| NO.      | ITEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PERSON PROVIDING FEEDBACK |
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| 1        | <p><b>WELCOME</b><br/>Mr. Mangena welcomed all attendees to the Waterval Catchment Forum Meeting.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Chairperson               |
| 2        | <p><b>INTRODUCTION OF ATTENDEES</b><br/>All attendees introduced themselves while the attendance register was circulated.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | All                       |
| 3        | <p><b>APOLOGIES</b><br/>Refer to the attendance register.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | All                       |
| 4.       | <p><b>MINUTES OF THE PREVIOUS MEETING – CORRECTIONS</b><br/>Pg 4, Item 10.3: H. Manganye was replaced with D. Manganyi.</p> <p>Pg8, Paragraph 7: J. Linde mentioned that not all the dams are lined but most of them are clay lined but they are in the process of lining some of them.</p> <p>Pg8, item 10.7: C. Khwini was replaced with C. Khwani</p> <p>Pg11, Item 13.4, Paragraph 1: N. Ketelo mentioned that A. Mangena should clarify a clear scope of work that Sasol is going to assist them with rather than just mentioning that Sasol is going to assist with the refurbishments.</p>                                       | All                       |
| 5        | <p><b>MATTERS ARISING FROM THE PREVIOUS MINUTES</b></p> <p>Action 1: M. Chamberlain reported that Mr Mabizela was invited to a TV interview to address the issues of pollution incidents at Embalenhle. The TV interview outcomes will be reported to the forum in the next meeting.</p> <p>Action 2: T. Baloyi reported that she did extend the forum invitation to DMR but they have not attended the meetings but she will continue to extend invitations.</p> <p>Action 3: T. Baloyi reported that Brendan village has procured a Truck which they will use to transport sewage to one of the WWTW at Govan Mbeki Municipality.</p> |                           |
| 6<br>6.1 | <p><b>ADDITIONS TO THE AGENDA</b><br/>Election of a new Chairperson</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |
| 7        | <p><b>CORRESPONDENCE</b><br/>No correspondence</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | J. Linde                  |

| NO.  | ITEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PERSON PROVIDING FEEDBACK |
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| 8    | <p><b>FINANCE</b></p> <p>There was no expenditure in the past quarter.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | J. Linde                  |
| 9    | <p><b>NEWSLETTERS</b></p> <p>There is no one focusing on the newsletter at this point but the item will remain in the agenda until such time there is something to report. Newsletters will be focused on in 2020.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | J. Linde                  |
| 10   | <p><b>FEEDBACK FROM STAKEHOLDERS</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |
| 10.1 | <p><b>Rand Water</b></p> <p>Mr R. Hariram presented a brief report for Rand Water from the period July to September 2019 and highlighted the following:</p> <p>Levels of Ammonia were elevated during the last quarter at monitoring point WAW.</p> <p>Point WAR indicates that there is effluent coming from Secunda and Embalenhle WWTW as the water quality seems to be deteriorating.</p> <p>Evander WWTW is not complaint in terms of COD, Ammonia and Faecal coliform. Challenge of elevated levels of Ammonia and Nitrates is also encountered below the discharge points of the WWTW.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | R. Hariram                |
| 10.2 | <p><b>DEPARTMENT OF WATER &amp; SANITATION (DWS)</b></p> <p>Ms T. Baloyi could not present the DWS water quality results on the day because of technical problems encountered however the summarized post meeting report was as follows:</p> <p>The water quality status for the WWTW in the Waterval catchment highlight that the Embalenhle Sewage Works has non-compliance for all determinants except Nitrate &amp; Nitrite and pH however it should be noted that there has been a vast improvement on the Faecal Coliforms and E. coli counts for the past 12 months.</p> <p>The Evander Sewage Works and Evander Second Sewage Works show a similar trend to the Embalenhle Sewage Works except for the conductivity readings of the Evander Second Sewage Works. The Evander Second Sewage Works indicate great improvement for the Faecal Coliform and E. coli counts at 0 for the month of July and September; the works has improved drastically on the microbiological compliance.</p> <p>The Nthorwane Sewage Works had challenges with effectively treating the waste from faecal coliforms, Ammonia, Orthophosphates and Nitrates. The Secunda</p> | T. Baloyi                 |

| NO.  | ITEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PERSON PROVIDING FEEDBACK |
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| 10.3 | <p>Sewage Works only had challenges with the Faecal Coliforms for the month of August and performed well for all other variables.</p> <p>The RESM points monitored within the SASOL complex were all compliant except for RESM 7s' conductivity results during the month of September.</p> <p>The Evander Gold Mine monitoring sites were all compliant except at the LM2 Downstream of Leslie Gold Mine point with non-compliances for conductivity for the month of August and September.</p> <p>The points monitored along the Waterval Catchment against the In stream Water Quality guidelines namely the Waterval Balfour/Standerton Road C1H029Q01 shows challenges with conductivity and sulphates; the LM3 @ Roodebank on Waterval River (C1H035Q01) indicates that the stream has challenges with conductivity, ammonia, nitrates, orthophosphates, sulphates, COD and F. Coli. The WH5 D/S of Winkelhaak Gold Mine on Winkelhaakspruit and LM4 U/S of the Leslie Mine Complex on Waterval River water quality monitoring points show challenges of compliance for conductivity, ammonia, nitrates, orthophosphates and F. Coli.</p> <p><b>GOVAN MBEKI MUNICIPALITY (SOLID WASTE)</b></p> <p>It was reported that a contractor was appointed at Secunda landfill site and there has been an improvement after the appointment of the contractor.</p> <p>Different areas for offloading have been created and covering takes place on a daily basis.</p> <p>There is a manager on site on a daily basis to ensure that no unauthorised waste is offloaded. There is also security on the landfill site and all the reclaimers have been registered for access control. Rules and regulations have been given to reclaimers therefore it is their responsibility to ensure that they adhere to them.</p> <p>Cleaning campaign is done weekly on the road leading to the landfill site. No leachate has been detected on site and there is no bad smell emanating from the site.</p> <p>Embalenhle and Evander landfill site have been closed.</p> |                           |
| 10.4 | <p><b>GOVAN MBEKI MUNICIPALITY WATER QUALITY REPORT</b></p> <p>Mr A. Mangena presented the GMM water quality report from July 2019 to September 2019 and highlighted the following:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A. Mangena                |

| NO. | ITEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PERSON PROVIDING FEEDBACK |
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|     | <p><b>Evander WWTWs Compliance</b><br/>The design capacity for the plant is 16.5 Mega liters per day. BNR was not working at the WWTW. Ammonia was high for the month September. Orthophosphate has exceeded the limits for the month of March and September.</p> <p><b>Embalenhle WWTWs Compliance</b><br/>The design capacity for the plant is 9.6 mega liters per day. Digesters have been vandalized at the plant therefore variables such as Ammonia, COD and Orthophosphate were non-compliant but Conductivity has been the most non-compliant variable amongst the others and it has exceeded the Licence limit for almost the whole year.</p> <p><b>Pump stations</b><br/>Almost all the pump stations were operational at region 2 and 3.</p> <p>Cllr Chamberlain mentioned that they experienced three very bad sewer spillages in Secunda during the past week and the sewer is flowing straight into the water system. The spillage has not been attended to.</p> <p>There is another manhole overflowing at Leandra just next to Kliphuis pump station, the manhole is overflowing with blood and milk. There is an abattoir and dairy factory close to the sewer and it is believed that the two industries might be engaging in illegal practices.</p> <p>S. Mporetji wanted to know the effluent volume received by each WWTW on a daily basis and also wanted to know what GMM is doing to optimise the removal of determinants which are not complying.</p> <p>A. Mangena reported that maximum incoming flow at Evander WWTW is 7.59 mega liters per day and the minimum inflow 5 Mega liters. Maximum inflow at Embalenhle WWTW is 4.5 Mega liters per day and the minimum inflow is 3 mega liters per day.</p> <p>A. Mangena mentioned that there is nothing operational at Evander WWTW however it was reported in the last meeting that Sasol is in the process assisting GMM with the refurbishments and the project will start next year.</p> <p>N. Ketelo asked if there are bylaws from the municipality which can be enforced on industries like Abattoirs and dairy factory to ensure that they do not discharge effluent into a watercourse. A. Mangena mentioned that there is an industrial inspector at the Municipality who conduct inspections at such industries to ensure that there is compliance. Having said Mr Mangena added that he visited the two</p> |                           |

| NO.  | ITEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PERSON PROVIDING FEEDBACK |
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|      | <p>industries in question to conduct inspections.</p> <p>Mr Matseba mentioned that Municipalities are encouraged to have bylaws especially for industries discharging into the system in order to regulate what is being discharged into the watercourse. Mr Matseba further said that industries such as abattoirs should have their own pre-treatment plants at their facilities so that they can pre-treat whatever they are discharging before it goes into the stream.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           |
| 10.5 | <p><b>EVANDER GOLD MINE (EGM)</b><br/>Absent without apology</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                           |
| 10.6 | <p><b>SASOL SECUNDA</b></p> <p>Table 1 on page 2, RESM 1 water quality results shows that conductivity had exceeded the standard limits twice during this quarter and The exceedances occurred in September and October. Exceedances in September occurred because the blowdown from the cooling towers was stopped for a period for biocide dosing. October exceedances occurred because the Bossiespruit was overflowing and flushing out the salts.</p> <p>RESM 1 met all objectives in the licence for the previous three months. RESM 7 and RESM 10 only have objectives for Electrical conductivity and according to the results RESM 7 was not compliant throughout the quarter because there was no flow in the Klipspruit. RESM 10 managed to comply with the required standards for the quarter although the objectives for this RESM are extremely strict.</p> <p>The treated sewage effluent quality exceeded the limits for Faecal Coliforms throughout the quarter but all the other variables were compliant for the quarter. J. Linde suggested that perhaps Sasol, DWS and Rand Water should take samples simultaneously with hope that they will get the same results with regards to Ammonia because their effluent quality does not correspond.</p> <p>RESM 18 – Sasol has no limits or objectives for RESM 18 however they just monitor it to make sure catchment is okay. It has been reported in the past that aluminium was problematic in this RESM point but there hasn't been any elevations in recent reports. When comparing to the proposed RQOs it is evident that phosphate remains a challenge for the catchment.</p> | J. Linde                  |
| 10.7 | <p><b>SASOL MINING</b><br/>A. Mndawe indicated that there no reportable incidents for the quarter.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |

| NO.   | ITEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PERSON PROVIDING FEEDBACK |
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| 10.8  | <p><b>TAUNG GOLD</b><br/>Absent without apology</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |
| 10.9  | <p><b>FARMERS UNION/COMMUNITY.</b></p> <p>M. Chamberlain reported that there are number of sewer problems in Secunda and Embalenhle and there has been multiple complains regarding sewer spillages and overflowing manholes. Sewage pollution has gotten worse at areas such as Bethel and Devon wherein Community members are suffering, animals are dying and water meters are leaking on a daily basis. Leaking water meters have been reported to the municipality on numerous occasions but they said there is not enough vehicles and manpower to deal with the problems encountered.</p> <p>A. Mangena mentioned that indeed there is not enough manpower to attend to all the pollution incidents. In terms of leaking water meters, Mr Mangena also mentioned that there is still not enough manpower as well however posts for Artisans and Plumbers has been advertised to address the problem. L. Ngelenga mentioned that it was rumoured that the provincial government has allocated funds to the municipality to fix the sewer problems and He further wanted to know how much was the allocation and also the plans to utilise the funds.</p> <p>M. Chamberlain reported that the Provincial government approved around two hundred million rand to help Govan Mbeki Municipality to fix sewer problems but the money has not been received.</p> <p>N. Ketelo wanted to know if the two hundred million which is supposed to be given to the Municipality is a combined funding from both Sasol and the Provincial government and Sasol. A. Mangena mentioned that the two hundred million comes from the Provincial Government only and this money will be used to fix the sewer networks. Sasol will only focus on the refurbishment of WWTWs and pump stations. J. Linde mentioned that he will make follow up to find out what other plans Sasol has in terms of assistance to GMM.</p> |                           |
| 10.10 | <p><b>BRENDAN VILLAGE</b></p> <p>Absent without apology</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |
| 10.11 | <p><b>DWS CME</b></p> <p>L. Ngelenga reported that Compliance monitoring unit conducted an audit at Taung Gold mining on the 13<sup>th</sup> of November 2019 and the Department is still in the process of compiling the report. There was nothing to report from the Enforcement unit however L. Ngelenga indicated that Enforcement unit officials were busy</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | L. Ngelenga               |

| NO.        | ITEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PERSON PROVIDING FEEDBACK |
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|            | <p>monitoring the activities around the Lesotho Highlands maintenance program to look out for anything illegal and non-compliant.</p> <p>R. Hariram mentioned that on the 16 of October 2019 pictures were distributed to the forum group which indicated that the lower section of the Waterval river was not flowing. R. Hariram further said that although the Waterval was not flowing at that part of the catchment, there is irrigation taking around that area and he further wanted to know if any follow up was made.</p> <p>L. Nqelenga said that the CME unit is understaffed presently because officials were deployed to monitor the Lesotho highlands maintenance project but they will make a follow up.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           |
| 11         | <p><b>DWS WATER USE LICENSE STATUS</b></p> <p>J. Lekoane presented the status of the catchment WUL for the following applicants:</p> <ul style="list-style-type: none"> <li>• Sasol mining (pty) Ltd, Sasol mining Impumelelo Mine extension project Dust suppression at the Stockpile area; DWS is still waiting for technical documents from applicant.</li> <li>• Sasol SA Fad 6: the application is still awaiting for Geo comments</li> <li>• Shondoni amendment: still undergoing assessment</li> <li>• Impumelelo amendment: application is awaiting for civil comments</li> <li>• Sasol South Africa: the application is in process. DWS conducted a site inspection on the 7<sup>th</sup> of November 2019. DWS will get back to the industry to inform them about the requirements needed.</li> <li>• Sasol mining block 3: DWS had a meeting with Sasol mining on the 15<sup>th</sup> of November 2019 and there were disagreements on some of the issues. DWS is still busy with consultations and will get back to Sasol mining.</li> </ul> <p>A. Mndawe reported that with regards to Sasol mining Impumelelo Mine extension, they have submitted all the outstanding information required by the Department to Mr Mudau. B. Mndawe also mentioned that they have received the mining rights from DMR for Impumelelo amendment and at the moment they are waiting for DWS to complete their processes.</p> | J. Lekoane                |
| 12         | <p><b>CMA PROCESS</b></p> <p>M. Matseba reported that the status quo still remains the same.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | M. Matseba                |
| 13<br>13.1 | <p><b>DISCUSSION OF ADDITIONS TO THE AGENDA</b></p> <p><b>Election of a new chairperson</b></p> <ul style="list-style-type: none"> <li>• Mr A. Mangena has been re-elected as the Chairperson of the Waterval catchment forum.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |

# WATERVAL FORUM



| NO. | ITEM                                                                                                                                      | PERSON PROVIDING FEEDBACK |
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|     | <ul style="list-style-type: none"><li>Mr J. Linde has been elected as the new vice Chairperson of the Waterval catchment forum.</li></ul> |                           |
| 14  | <b>DATE of next meeting</b><br><br>20 February 2020                                                                                       |                           |
| 15. | <b>CLOSURE OF MEETING</b><br>All attendees were thanked for attending and the meeting was adjourned.                                      | A. Mangena                |



Appendix A.  
 Waterval Forum meeting Action list  
 21 November 2019

|      | Action                                                                                                                                                                | RESPONSIBLE PERSON | Action identified | DUE DATE      |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------|---------------|
| 16.1 | Mr T Mabizela to record and prepare a documentation of all the pollution incidents affecting them at Embalenhle and also provide feedback regarding his TV interview. | Tonny Mabizela     | February 2018     | February 2020 |
| 16.2 | J. Linde to make follow up and find out what other plans Sasol has put in place to assist Govan Mbeki municipality                                                    | Jaco Linde         | November 2019     | February 2020 |
| 16.3 | A. Mangena to clarify the scope of work that Sasol will be doing to assist Govan Mbeki Municipality in terms of refurbishments                                        | Alfred Mangena     | November 2019     | February 2020 |

Prepared by:  
 Date: