

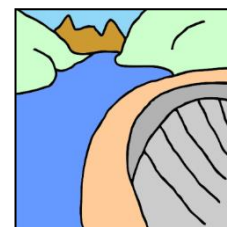
MINUTES

GROOTDRAAI DAM FORUM

22 November 2016

Tutukani Hall, Standerton

10:00 – 13:00



No	Item	Action																																			
1.	Welcome <ul style="list-style-type: none"> <i>M Gangazhe</i> (Chairperson) welcomed everyone present at the forum meeting 	<i>Chairperson</i>																																			
2.	Introduction <ul style="list-style-type: none"> All the attendees introduced themselves. 	<i>All</i>																																			
3.	Apologies <table border="1"> <thead> <tr> <th>No</th> <th>Name</th> <th>Organization</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Karlien De Villiers</td> <td>DWS Head Office</td> </tr> <tr> <td>2</td> <td>Luvuyo Nqelenga</td> <td>DWS Gauteng Provincial Office</td> </tr> <tr> <td>3</td> <td>Moropana</td> <td>Govan Mbeki Local Municipality</td> </tr> <tr> <td>4.</td> <td>Reveck Harrarim</td> <td>Rand Water</td> </tr> <tr> <td>5.</td> <td>Nicolene van der Walt</td> <td>Rand Water</td> </tr> <tr> <td>6.</td> <td>Ephraim Matseba</td> <td>DWS Gauteng Provincial Office</td> </tr> <tr> <td>7.</td> <td>Sihle Mdluli</td> <td>Msukaligwa Local Municipality</td> </tr> <tr> <td>8.</td> <td>Kgadi Moremi</td> <td>New Denmark Colliery</td> </tr> </tbody> </table>	No	Name	Organization	1	Karlien De Villiers	DWS Head Office	2	Luvuyo Nqelenga	DWS Gauteng Provincial Office	3	Moropana	Govan Mbeki Local Municipality	4.	Reveck Harrarim	Rand Water	5.	Nicolene van der Walt	Rand Water	6.	Ephraim Matseba	DWS Gauteng Provincial Office	7.	Sihle Mdluli	Msukaligwa Local Municipality	8.	Kgadi Moremi	New Denmark Colliery	<i>All</i>								
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4.	Minutes of the Previous Meeting Corrections <table border="1"> <thead> <tr> <th>Page</th> <th>Item</th> <th>Statement/word</th> <th>Corrections</th> <th>Reason</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.</td> <td>Ganghazhe</td> <td><i>Gangazhe</i></td> <td><i>spelling</i></td> </tr> <tr> <td>2</td> <td>8.4</td> <td>Witpuntspruit</td> <td><i>Witbankspruit</i></td> <td><i>incorrect</i></td> </tr> <tr> <td></td> <td>8.5</td> <td>200 km</td> <td><i>200 m</i></td> <td><i>incorrect</i></td> </tr> <tr> <td>3</td> <td>8.19</td> <td>There is an illegal dam in Morgenzon and the directive was served.</td> <td>There is an illegal dam close to Bethal and the directive was served.</td> <td><i>incorrect</i></td> </tr> <tr> <td>3</td> <td>9</td> <td>Water use license</td> <td>Water use license application status</td> <td><i>addition</i></td> </tr> <tr> <td>4</td> <td>11</td> <td>Morgenzon</td> <td>Morgenzon</td> <td><i>incorrect</i></td> </tr> </tbody> </table>	Page	Item	Statement/word	Corrections	Reason	1	3.	Ganghazhe	<i>Gangazhe</i>	<i>spelling</i>	2	8.4	Witpuntspruit	<i>Witbankspruit</i>	<i>incorrect</i>		8.5	200 km	<i>200 m</i>	<i>incorrect</i>	3	8.19	There is an illegal dam in Morgenzon and the directive was served.	There is an illegal dam close to Bethal and the directive was served.	<i>incorrect</i>	3	9	Water use license	Water use license application status	<i>addition</i>	4	11	Morgenzon	Morgenzon	<i>incorrect</i>	<i>All</i>
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5	Matters Arising from the Previous Minutes <ul style="list-style-type: none"> Item 11, DWS National Office has not communicated with DWS Regions with regard to challenges of waste water treatment works by Local Government. Item 9, Bishop W Malatsi to email instream water quality objectives to Eskom Majuba Power Station. <i>Bishop W Malatsi to email Ninnete Barnard a monitoring map</i> 	<i>DWS/Chairperson to report back on the next meeting.</i> <i>Bishop W Malatsi</i> <i>Bishop W Malatsi</i>																																			

<p>6. 6.1</p>	<p>Additions to the Agenda</p> <ul style="list-style-type: none"> • WRC. • Chairperson 	
<p>7. 7.1</p>	<p>Items for discussions Rand Water</p> <ul style="list-style-type: none"> • <i>The representative</i> gave a presentation on water monitoring results. He further indicated that the previous sampling was hindered because most points were not having water, but in November 2016, sampling improved because it's started raining. • Witpuntspruit is one of the problematic areas with elevated concentration of sulphates and low pH, due to historical mining activities. • Brummespruit, downstream of the Ermelo Wastewater Treatment work (WWTWs), raw sewage oftenly flowing into the river due to open man holes and Ermelo Wastewater Treatment work is generally not compliant except for chlorides and pH. • Blesbokspruit, below Bethal WWTWs, has shown an elevation in NH₃, nitrate, EC, COD, alkanity, and <i>E.coli</i>. • Rietspruit downstream of Amersfoort WWTW shown an elevation of NH₃ and nitrate. • Ermelo, Tutukani, and Bethal WWTWs, NH₃, COD, nitrate, <i>Ecoli</i>, are high. • Generally WWTWs complies with General Standards in terms of GN 1191 of Oct 1999, except for variables such as Ammonia, COD and <i>E.coli</i>. 	
<p>7.2</p>	<p>DWS Water Quality Management</p> <ul style="list-style-type: none"> • The representative gave a presentation on water monitoring results. • There is high concentration of NH₃, nitrate, Ecoli at Bethal, Ermelo, Amersfoort and Breyten WWTW. • There is also high concentration of SO₄, Ec, and low pH at Humanspruit downstream of Delta mine and Witpuntspruit at Usutu mine. This is due to historical mining. • High level of SO₄ and Ec at Spruit at Spitzkop. 	
<p>7.3</p>	<p>DWS Solid Waste Management</p> <ul style="list-style-type: none"> • Absent with apology 	
<p>7.4</p>	<p>DWS Compliance Monitoring and Enforcement</p> <p>Regulation: Enforcement</p> <p>The representative gave a feedback on the following:</p> <ul style="list-style-type: none"> • Investigation into five (5) farms on abstraction from various tributaries of the Vaal River, to determine compliance to the NWA section 21 (a) and (b) with regard to quantities of water abstraction and storage. Compliance to NWA in terms of Section 34, Validation and Verification of water rights in the terms of the old National Water Act of 1956 order right. • Joint inspection and investigation with DARDLA in Ermelo and Davel WWTW regarding poor discharge of treated waste water from these facilities. • Criminal case was opened with the SAPS in relation to the 	

	<p>aforementioned facilities. The case is under investigation by Green and Blue Scorpions, SAPS and EMI where the case will be heard in Magistrate Court in 2017.</p> <p>Regulation: Compliance Monitoring</p> <p>The representative indicated that the following were audited:</p> <ul style="list-style-type: none"> • Penumbra Coal Mine on the 13 July 2016. • Pederkop WWTW on the 27 July 2016, • Camden Power Station on the 04 to 05 August 2016, • Vunene Coal Mine on the 10 to 11 October 2016. 	
8.	Catchment Activities (5 Minutes Report Back by Stakeholders)	
8.1	<p>TUTUKA POWER STATION</p> <ul style="list-style-type: none"> • No presentation done, only the pollution incident occurred. 	
8.2	<p>CAMDEN POWER STATION</p> <ul style="list-style-type: none"> • No representative, no apology 	
8.3	<p>MAJUBA POWER STATION</p> <ul style="list-style-type: none"> • J Makhanya gave a presentation indicating that the Station used to discharge sewage effluent into Geelklip Spruit and now the effluent is pumped back to the Station and used in the cooling towers as part of water recovery. • Sampling was done in the past quarter as the stream was not flowing and sampling has now resumed in November 2016. • In Palmiet Spruit, there was high elevation of EC, SO₄, pH, Cl, and Total hardness. • It was indicated that water quality status will be presented in the next forum meeting. 	<p><i>Majuba Power Station to present monitoring points in future</i></p>
8.4	<p>MAJUBA RAILWAY LINE PROJECT</p> <ul style="list-style-type: none"> • Annual WUL audits completed and there was no major finding. • Earth works 100 % complete and remedial works under way • 80% of rail has been installed and 88 kv Power line 90% complete • Signalling and substations contract in place and will commence shortly. • There was high elevation in Turbidity, pH and Alkalinity. • High turbidity levels can be attributed to rain. • Low pH reading in most of the water courses (both upstream and downstream) • An improvement in alkalinity levels was noted at Witbankspruit. • The project had 32 borrow pits, but used only 4 and must be closed and rehabilitated. • Application for closure has been lodged with DMR and will arrange for a site visit with DWS. 	
8.5	<p>NEW DENMARK COLLIERY</p> <ul style="list-style-type: none"> • DWS undertook a compliance audit on the 9-10 December 2015. • Follow-up inspection to audit compliance to representations made 15th January 2016 • DWS undertook a follow-up inspection on the 08th September 2016 : • Actions plans as submitted to DWS via representations closed out • DWS wrote a close-out letter to the GM on the 10th October 2016 	

	<ul style="list-style-type: none"> No Pre-Directive issued - only Representations made to the Department. Official letter from DWS indicating the exclusions of section 21(b) water uses applied was issued on 15 November 2016. In terms of water quality report, it was indicated that the mine had an elevation in SO₄, NH₃ and SS at Okhozini Shaft. 	
8.6	GOLFVIEW & LELIEFONTEIN <ul style="list-style-type: none"> Absent without apology 	
8.7	MSOBO COAL (SPITZKOP AND TSELENTIS) <ul style="list-style-type: none"> <i>M Gangazhe</i> gave a presentation for both operations. He indicated that Spitzkop is situated in quaternary catchment C11F, whereas a portion of Tselentis is situated in C11A. The mine has closed two (2) shafts due to economic melt down. The mine had an elevation of SO₄, EC, TDS due to historical mining activities. It was reported that there no pollution incidence occurred during the past quarter. In terms of WULAs, Spitzkop and Discard dump Extension submitted with DWS in 2011 and 2014 respectively, they are waiting for the date to meet with DWS Engineering Services to discuss the lining matters. For Mooiplaats WULA, they are still waiting for further correspondences. 	
8.8	MASHALA RESOURCES <ul style="list-style-type: none"> <i>No representation</i> 	
8.9	MOOIPLAATS COLLIERY <ul style="list-style-type: none"> <i>D J. van der Merwe</i> gave a presentation for both Mooiplaats and Umlabu Mooiplaats is still under care and maintenance, but water monitoring is still continuing as per authorisations. In terms of water quality, far upstream monitoring point shows low level of pH. The quality of the stream from the mine side is not as poor compared to upstream. Care and maintenance entails maintain the entire infrastructure on site and monitoring pollution that might emanate from the site. He further indicated that he is not sure if the mine will be restarted or sold in future. 	
8.10	UMLABU COAL MINE <ul style="list-style-type: none"> <i>D J. van der Merwe</i> indicated that the mine is still under care and maintenance. The analysis of water is done on a quarterly basis. High sulphates are as a result of rock dump and other waste facilities, because currently there is no clean and dirty water separation system in place. The mine is looking at putting a proper infrastructure in place to mitigate pollution of the water resources. The mine was advised in the mean time to put temporary mitigating measures in place, while still looking at the proper infrastructure. 	
8.11	VUNENE COAL MINE <ul style="list-style-type: none"> The representative indicated that the mine is approximately 15km from the Ermelo town on the N2 towards Piet Retief. It consists of the underground and open cast operations. The underground operation is under Care and Maintenance, but in the process to resume mining operation. 	

	<ul style="list-style-type: none"> Monitoring points of concern shown elevation in pH, EC and SO4. 	
8.12	PENUMBRA COAL MINING <ul style="list-style-type: none"> The representative indicated that the mine is approximately 5km from the Ermelo town on N11 towards Amersfoort The mine was under Care and Maintenance from February 2015 The mine commenced operation in November 2016 It consists of box cut , offices, workshop and transport routes towards Delta Area It's situated within Quaternary catchments C11B, which the Upper Vaal Water Management Area. 	
8.13	THUTSI COLLIERY <ul style="list-style-type: none"> Absent without apology 	
8.14	IMBABALA COAL MINE <ul style="list-style-type: none"> Absent without apology. 	
8.15	Govan Mbeki Municipality <ul style="list-style-type: none"> A Mangena gave a presentation, indicating that the plant is using two systems which are BNI and Biological processes. He indicated that there was an elevation of Ecoli, COD and faecal coliforms. The plant complied 100% in chemical compliance, but had a challenge in microbiological compliance. It was further highlighted that there is 10 (ten) pump stations in Bethal, where three (3) are having challenges which are Cow Village, Ext 5 and Bethal Rand due to trapping and Eskom power failures. 	
8.16	GERT SIBANDE MUNICIPALITY <ul style="list-style-type: none"> <i>Absent without apology</i> 	
8.16	MSUKALIGWA MUNICIPALITY <ul style="list-style-type: none"> Came, completed attendance register and left. 	
8.17	PIXLEY KA SEME MUNICIPALITY <ul style="list-style-type: none"> Absent without apology. 	
8.18	LEKWA MUNICIPALITY <ul style="list-style-type: none"> Absent without apology 	
8.19	Department of Mineral Resources <ul style="list-style-type: none"> Absent without apology. 	
8.19	DARDLEA Pollution and Waste Management <ul style="list-style-type: none"> It was reported that illegal dumping activities in the Gert Sibande District Municipality (GSDM) must be reported DARDLEA Compliance, Monitoring and Enforcement. Licensed 4 landfill sites for closure which are Kinross, Leandra, Embalenhle and Morgenzon. Kinross landfill site is used as a recycling facility. 	

	<p>Compliance, Monitoring and Enforcement</p> <ul style="list-style-type: none"> • 	
9	<p>Water Use License See Appendix I</p>	
10	<p><u>Pollution incidents</u> Addressed per agenda.</p>	
11	<p>WASTE WATER TREATMENT WORKS (WWTW) TASK TEAM</p> <ul style="list-style-type: none"> • <i>P Sibambo</i> gave an update of the WWTWs project for the WWTWs falling within Grootdraai Catchment. He indicated that for Morgenson Oxidation ponds only the chlorination system is still need to be installed, whereas for Ermelo WWTWs, the contractor is currently repairing the mechanical problems. A meeting will be held with the affected Municipalities on 07 June 2016 • Furthermore, he indicated that there is an interdepartmental (DWS and Department of Environmental Affairs) project coming, where they will be conducting compliance monitoring and enforcement on all WWTWs in the country. The project currently at initial stage (planning). • <i>H Chetty</i> added that Amersfoort is also currently under refurbishment. Gert Sibande District Municipality will be appointing a service provider for the upgrade of the plant. 	
12	<p>Catchment Management Agency Process</p> <ul style="list-style-type: none"> • <i>L Mabona</i> indicated that as previously mentioned the Vaal CMA has been Gazetted, currently the DWS is consulting with the affected employees. 	
13	<p>Additions to the agenda</p> <p>Water Research Commission</p> <ul style="list-style-type: none"> • Ms Unathi Jack gave a presentation on WRC mine water management tool. • The tool aim to determine areas of vulnerability and adherence to water use licence requirements. • It also aims to check implementation or progress with required actions. • The tool will involve the following stages Planning, policies or regulations, mining processes, water monitoring, wastewater management, human Resources, infrastructure asset management, water conservation and demand management, finances, mine closure and rehabilitation • The user must refine the tools with the inputs from the workshops. • The user must also develop a guideline document that describes how to use the tool. <p>General</p> <p>Finances</p>	<p><i>DWS (A Mabasa) /Eskom to have a meeting to discuss Eskom request. DWS to have further engagement with Eskom</i></p> <p><i>Distribution of presentations to be</i></p>

	<ul style="list-style-type: none"> The chairperson (Mashudu Gangazhe) indicated that the forum is facing challenges with regard to finances when it comes to the venue, catering and other logistics attached to the forum. He outlined that the venue which was used at Nooitgedacht must be paid. He suggested that Stakeholders must look at the matter and devise a way forward to solve the matter. Suggestions are that, stakeholders must volunteer to host where catering must also be covered by the host. Mr Surgeon Marebane did volunteer to host the forum in February 2017. 	<i>discussed further.</i>
14	Next Meeting 21 February 2017, DARDLEA Ermelo.	<i>All</i>
15	Closure M Gangazhe thanked everyone for participating, also thanked New Denmark Colliery for hosting and for providing catering and adjourned the meeting at 13H30	<i>Chairperson</i>

Appendix I

Water Use Licence Status

No	Name	Status	Comments
1	Msobo Coal Mine	File closed* due to insufficient information	Meeting to be held with DWS Engineering Services. The application to be reopened if outstanding information is provided
2	Optimum Coal Mine (Glencor)		The application to be reopened if outstanding information is
3	Umlabu Coal mine		provided
4	New Denmark Colliery	Submitted for delegated authority decision	
5	Bethal WWTWs		
6	Vunene Coal Mining		
7	Eskom Camden Power Station Ash dump	Issued*	
8	Eskom Majuba Power Station Ash Dump		
9	Douglas Dam Desilting Project	In process	Specialist Input
10	Eskom Mashala Power line	In process	Ready for presentation to the committee
11	Transnet Swazilink Rail project	In process	Outstanding information submitted by the applicant
12	Eskom Lambda substation & power line	In process	Outstanding information submitted by the applicant
13	Amersfoort Abattoir	In process	Outstanding information submitted by the applicant

* Status of the applications will be longer be part of the update **unless** if the file is reopened (w.r.t. closed files)

Appendix II

Acronyms

EC	Electrical conductivity
NH3	Ammonia
pH	Percentage of Hydrogen
SS	Suspended Solid
WWTWs	Waste Water Treatment Works
DWS	Department of Water and Sanitation
DMR	Department of Mineral Resources
DARDLEA	Department of Agriculture, Rural Development, Land and Environmental Affairs
CMA	Catchment Management Agency
BNI	
WRC	Water Research Commission