

## APPENDIX E

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### PUBLIC PARTICIPATION – ANNOUNCEMENT PHASE

**APPENDIX E1: PROOF OF ONSITE NOTICES**

**APPENDIX E2: PROOF OF WRITTEN NOTIFICATION**

**APPENDIX E3: PROOF OF NEWSPAPER ADVERTS**

**APPENDIX E4: COMMENTS AND REPLY FORMS RECEIVED**

**APPENDIX E5: MINUTES OF PUBLIC MEETINGS**

# APPENDIX E1

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## PROOF OF ONSITE NOTICES

## UPGRADE OF THE VAAL GAMAGARA REGIONAL WATER SUPPLY SCHEME PHASE 2

### ANNOUNCEMENT PHASE: PROOF OF SITE NOTCES

Site Notice	Coordinates	Location Description	Photo Reference Numbers
1.	28°24'21.64"S; 24°15'47.64"E	Delpportshoop WTW	1A & 1B
2.	28°24'17.04"S; 24°15'40.99"E	Gravel Road (opposite Delpportshoop WTW) (servitude gate)	2A & 2B
3.	28°23'33.98"S; 24°16'14.14"E	Gravel roads intersection	3A & 3B
4.	28°19'22.17"S; 24°14'1.24"E	Intersection – R31 & gravel road (servitude gate)	4A & 4B
5.	28°18'23.32"S; 24°12'10.88"E	Intersection – R31 & gravel road (servitude gate)	5A & 5B
6.	28°18'14.92"S; 24° 8'46.31"E	Kneukel PS	6A & 6B
7.	28°17'21.72"S; 24° 6'36.59"E	Intersection – R31 & gravel road at access to farm (servitude gate)	7A & 7B
8.	28°14'44.47"S; 24° 1'45.37"E	Koopmansfontein Store	8A & 8B
9.	28°16'48.81"S; 23°46'3.69"E	D3393 – gravel road - Store	9A & 9B
10.	28°16'53.86"S; 23°46'15.35"E	D3393 – gravel road crossing	10A & 10B
11.	28°15'44.62"S; 23°33'34.89"E	R31 & R385 intersection	11A & 11B
12.	28°12'1.38"S; 23°32'55.03"E	Idwala Lime access	12A & 12B
13.	28°21'31.46"S; 23°32'7.70"E	R385 crossing	13A & 13B
14.	28°22'7.80"S; 23°28'0.87"E	Road crossing (Lime Acres)	14A & 14B
15.	28°19'47.42"S; 23°23'1.71"E	T-junction of two gravel roads	15A & 15B
16.	28°17'28.79"S; 23°20'15.55"E	T-junction – R385 and gravel road	16A & 16B
17.	28°17'46.21"S; 23°18'54.86"E	Access to Metsimatala	17A & 17B
18.	28°20'5.18"S; 23°11'15.60"E	T-junction – R385 and gravel road	18A & 18B
19.	28°19'49.24"S; 23° 5'21.73"E	T-junction – R385 and gravel road to Jenn-Haven	19A & 19B
20.	28°19'23.00"S; 23° 4'25.45"E	Nicholson St, Postmasburg	20A & 20B
21.	28°19'16.71"S; 23° 4'20.49"E	C/O Brown St, Postmasburg	21A & 21B
22.	28°19'6.54"S; 23° 4'10.69"E	CAM St	22A & 22B
23.	28°19'3.79"S; 23° 4'2.87"E	C/O R385 & R325	23A & 23B
24.	28°18'35.09"S; 23° 4'8.32"E	Intersection of R325 and Plein St	24A & 24B
25.	28°17'1.89"S; 23° 4'25.95"E	Along R325 - access to farm (servitude gate)	25A & 25B
26.	28°14'51.02"S; 23° 4'50.52"E	Along R325 - access to mine	26A & 26B
27.	28°12'42.16"S; 23° 4'52.70"E	Along R325 - access to farm	27A & 27B
28.	28°10'11.14"S; 23° 4'52.68"E	Along R325 - access to farm	28A & 28B

29.	28° 8'49.80"S; 23° 4'51.60"E	Along R325 - access to farm	29A & 29B
30.	28° 8'19.15"S; 23° 4'45.80"E	Along R325 - access to farm	30A & 30B
31.	28° 6'25.53"S; 23° 4'24.07"E	Gloucester Reservoir	31A & 31B
32.	28° 5'21.24"S; 23° 4'11.52"E	Along R325 - access to farm	32A & 32B
33.	28° 4'9.39"S; 23° 3'57.70"E	Along R325 – T-junction with gravel road	33A & 33B
34.	28° 2'53.49"S; 23° 3'43.33"E	Along R325 – T-junction with gravel road	34A & 34B
35.	28° 1'46.81"S; 23° 3'14.52"E	Along R325 – T-junction with gravel road (D3409)	35A & 35B
36.	28° 0'31.77"S; 23° 2'50.49"E	Along R325 - access to mine	36A & 36B
37.	27°59'46.51"S; 23° 2'36.96"E	Along R325 - access to mine	37A & 37B
38.	27°58'23.44"S; 23° 2'11.52"E	Along R325 - access to mine	38A & 38B
39.	27°57'8.69"S; 23° 1'16.56"E	Along R325 - access to farm	39A & 39B
40.	27°56'32.76"S; 23° 0'24.24"E	Along R325 - access to farm	40A & 40B
41.	27°56'21.83"S; 23° 0'7.36"E	Along R325 - access to farm	41A & 41B
42.	27°56'16.10"S; 22°59'59.35"E	Along R325 - access to farm	42A & 42B
43.	27°54'32.59"S; 22°57'39.45"E	Along R325 - access to farm	43A & 43B
44.	27°54'7.19"S; 22°56'1.29"E	Along N14 – T-junction with gravel road	44A & 44B
45.	27°54'25.52"S; 22°53'52.55"E	Along N14 – access to farm	45A & 45B
46.	27°55'8.97"S; 22°48'43.27"E	Along N14 – access to Langeberg Stene	46A & 46B
47.	27°55'42.01"S; 22°45'19.07"E	Along N14 – access	47A & 47B
48.	27°55'58.09"S; 22°44'15.76"E	Gravel road, Olifantshoek	48A & 48B
49.	27°56'1.73"S; 22°44'10.84"E	Tarred road, Olifantshoek	49A & 49B
50.	27°56'9.28"S; 22°44'8.70"E	Tarred road, Olifantshoek	50A & 50B
51.	27°56'23.73"S; 22°44'4.30"E	Tarred road, Olifantshoek	51A & 51B

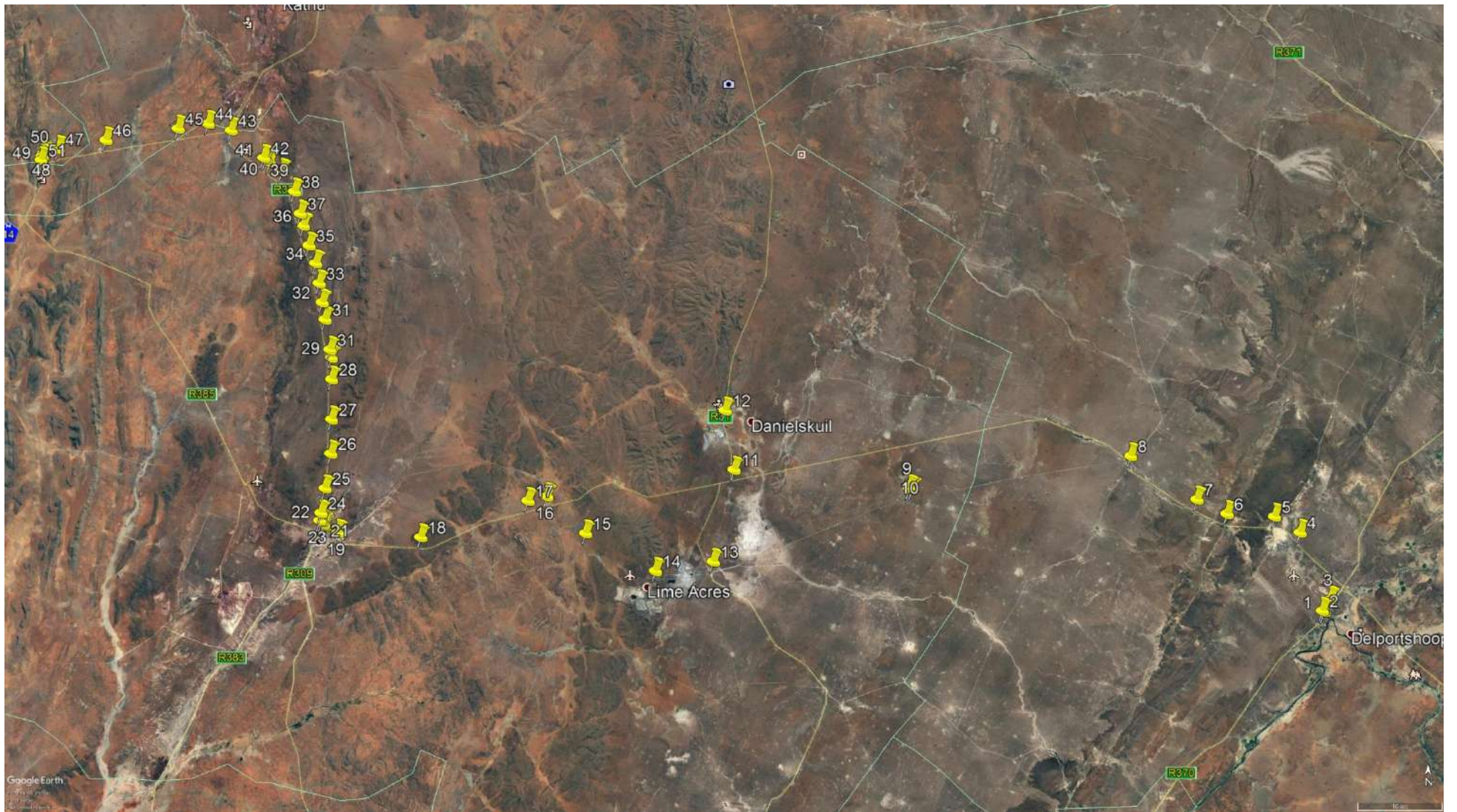


Figure 1: Google Earth map of Site Notices



Photo Ref. No.

1A



1B



Photo Ref. No.

2A



2B



Photo Ref. No.

3A



3B



Photo Ref. No.

4A



4B



Photo Ref. No.

5A



5B



Photo Ref. No.

6A



6B



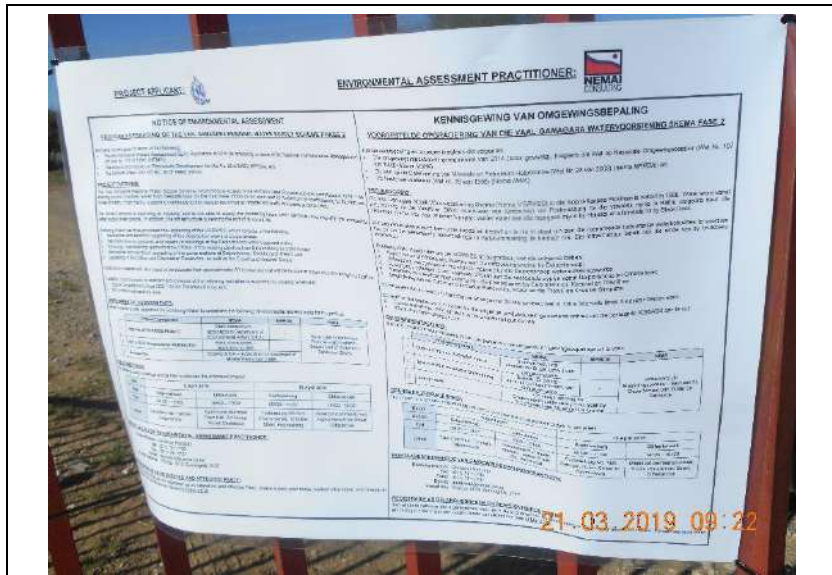


Photo Ref. No.

7A



7B

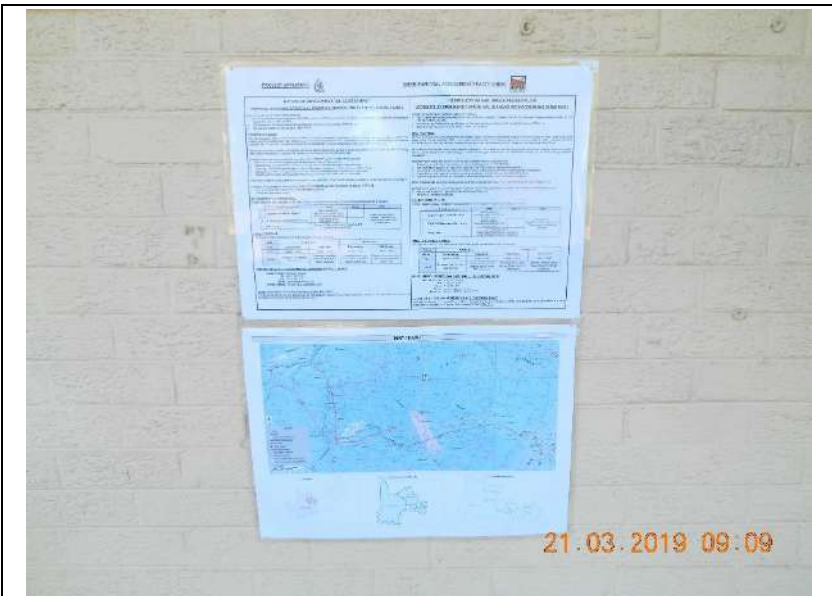


Photo Ref. No.

8A



8B



Photo Ref. No.

9A



Photo Ref. No.

9B



Photo Ref. No.

10A



Photo Ref. No.

10B



Photo Ref. No.

11A



11B



Photo Ref. No.

12A



12B



Photo Ref. No.

13A



13B

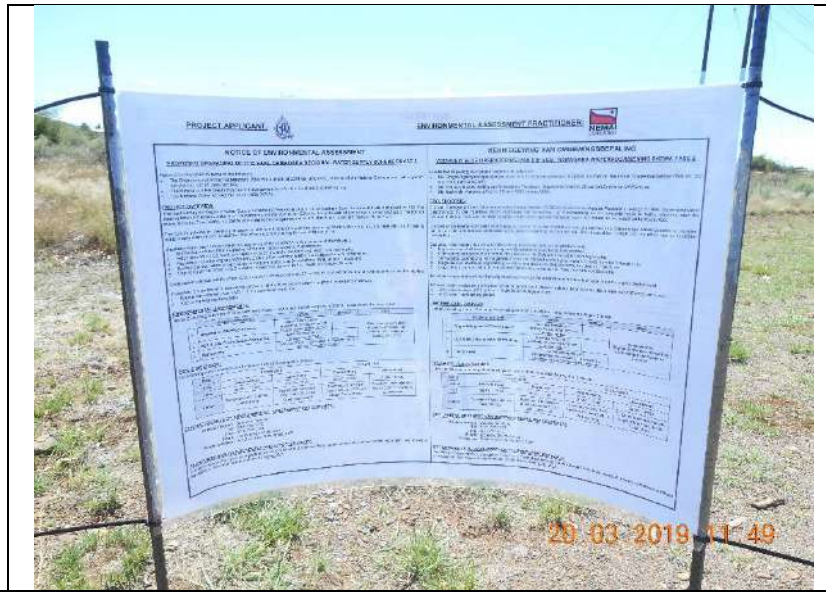


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14A



14B

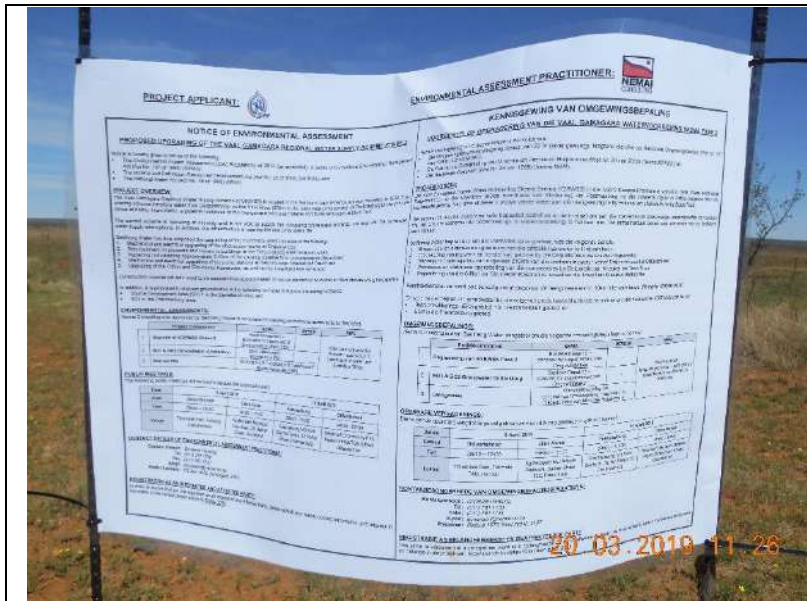


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15A



15B



Photo Ref. No.

16A



16B

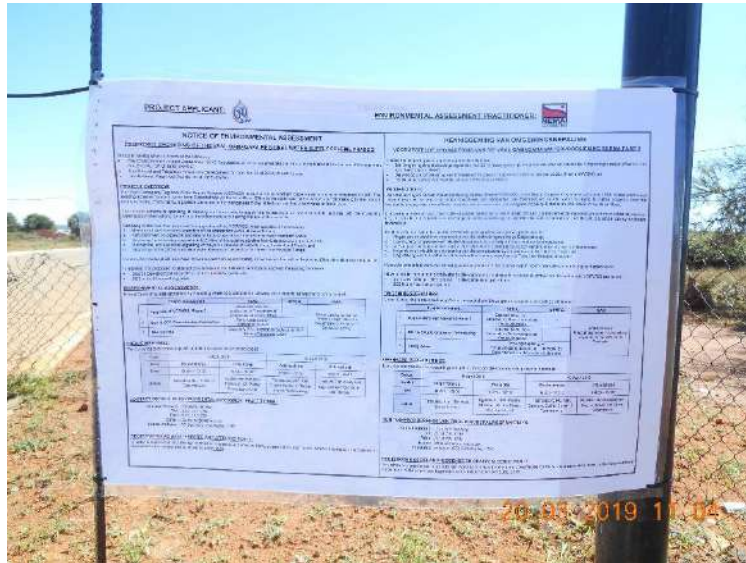


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17B

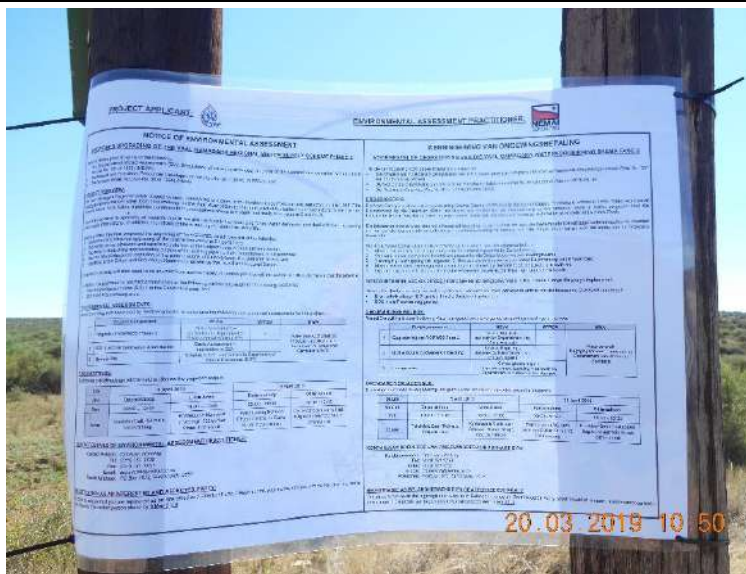


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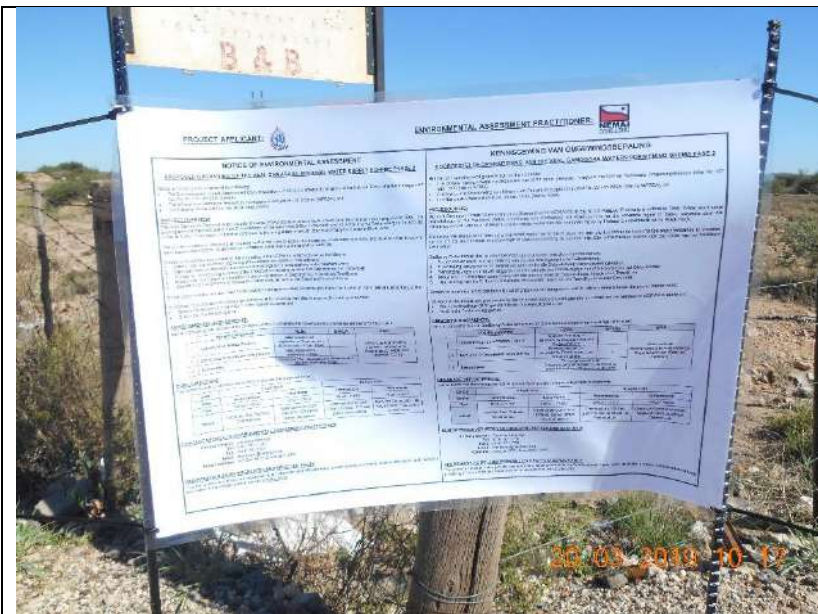


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19A



19B

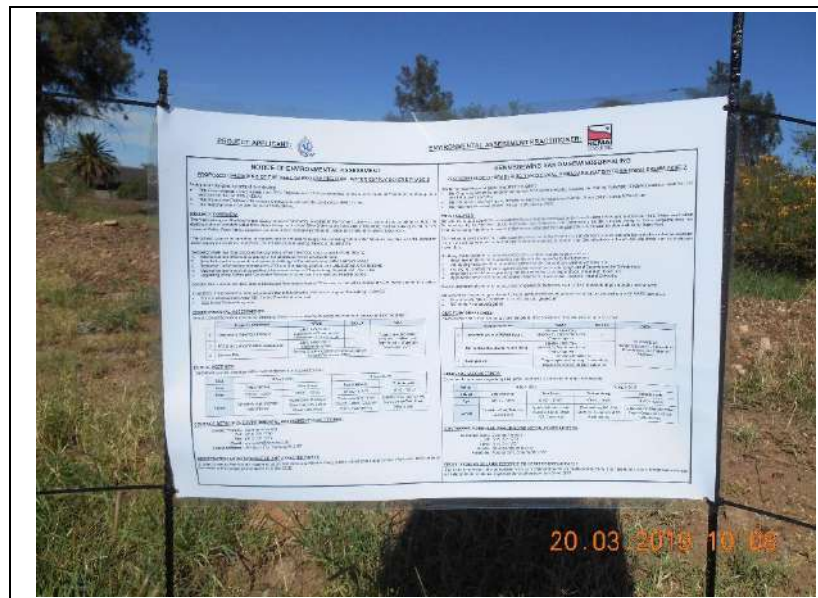


Photo Ref. No.

20A



20B



Photo Ref. No.

21A



Photo Ref. No.

21B

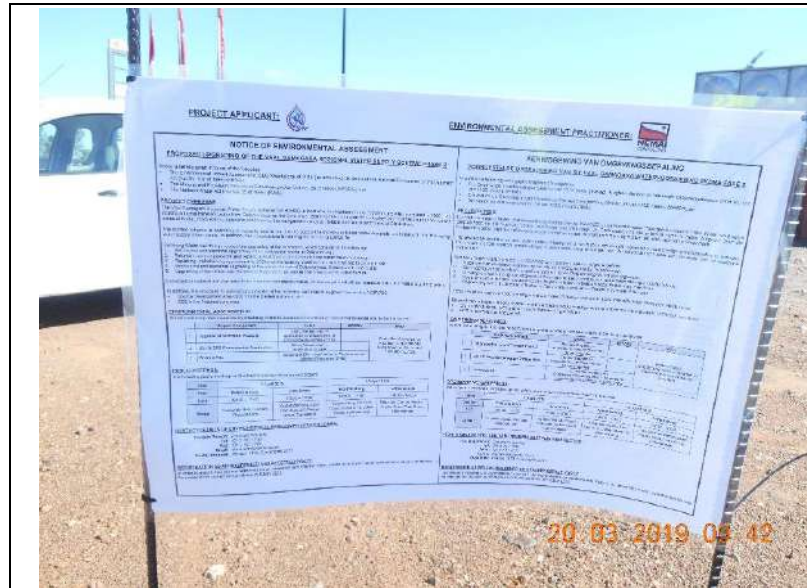


Photo Ref. No.

22A



Photo Ref. No.

22B





Photo Ref. No.

23A



23B



Photo Ref. No.

24A



24B

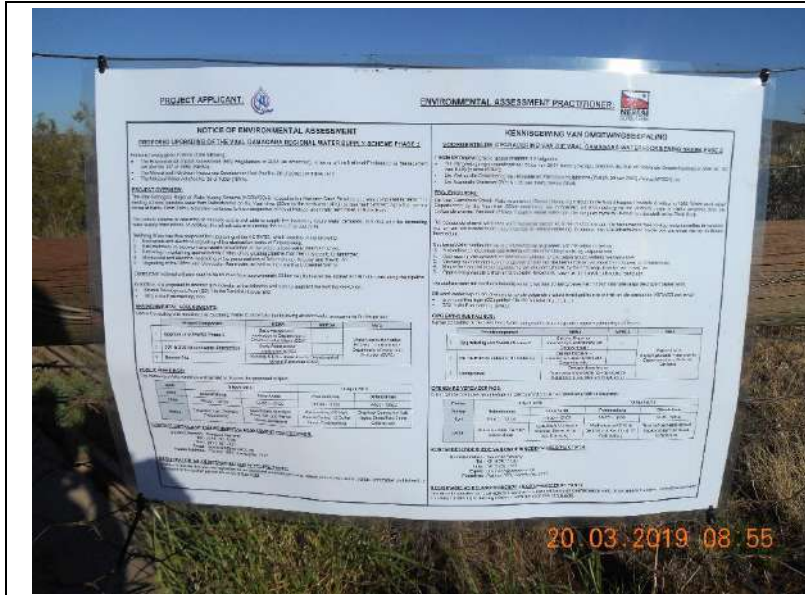


Photo Ref. No.

25A



25B



Photo Ref. No.

26A



26B

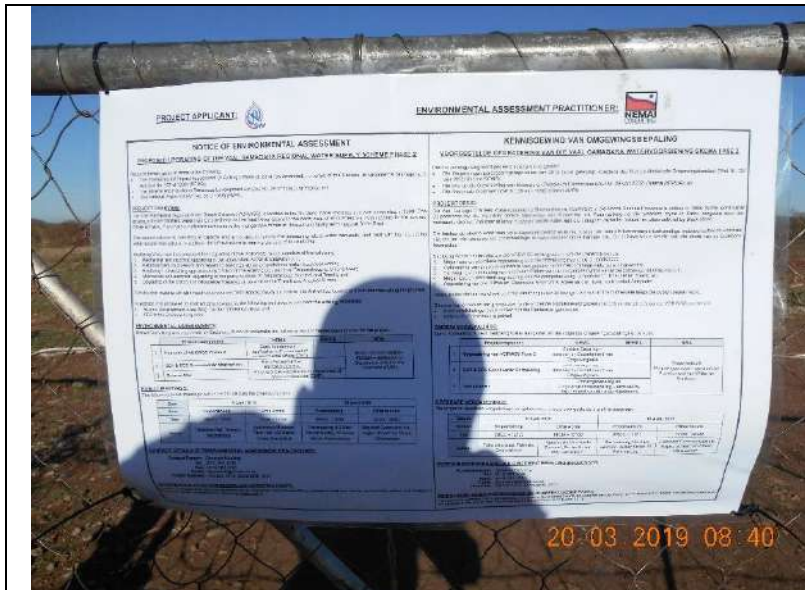


Photo Ref. No.

27A



27B



Photo Ref. No.

28A



28B



Photo Ref. No.

29A



29B



Photo Ref. No.

30A



30B

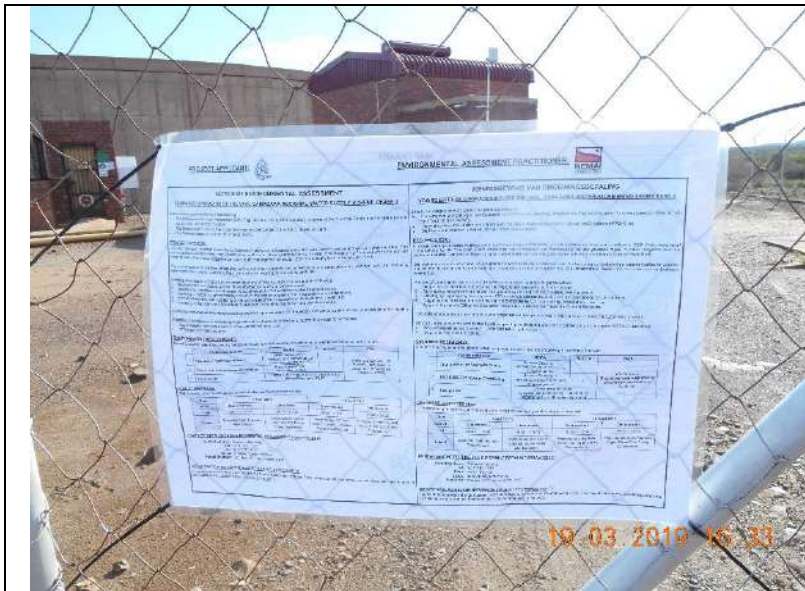


Photo Ref. No.

31A



31B



Photo Ref. No.

32A



32B

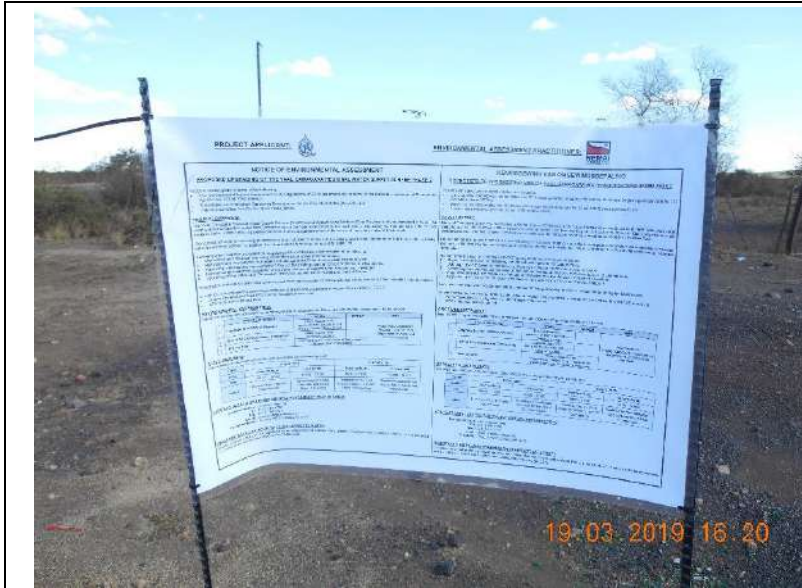


Photo Ref. No.

33A



33B



Photo Ref. No.

34A



34B



Photo Ref. No.

35A



35B

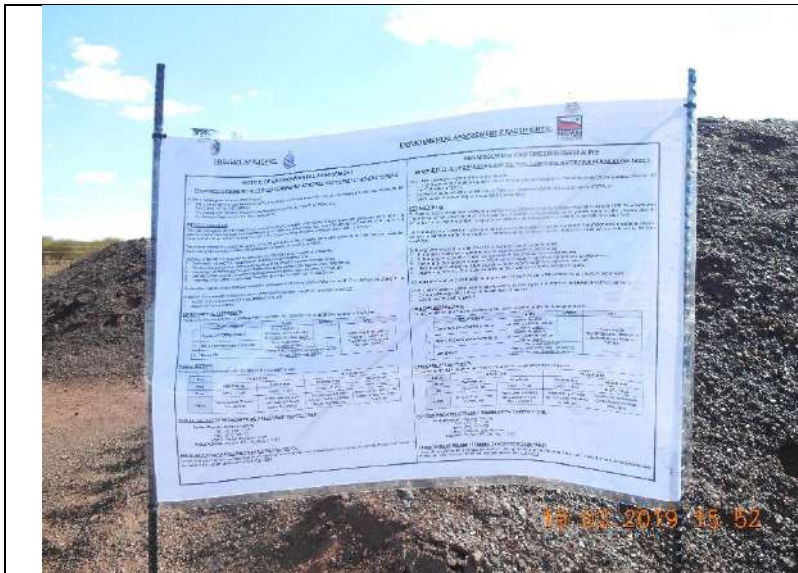


Photo Ref. No.

36A



36B



Photo Ref. No.

37A



37B



Photo Ref. No.

38A



38B





Photo Ref. No.

39A



39B

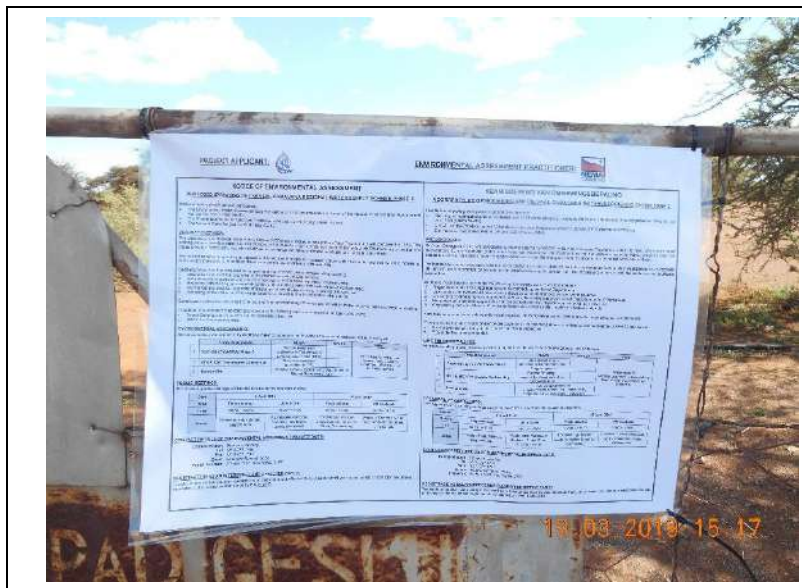


Photo Ref. No.

40A



40B



Photo Ref. No.

41A



41B



Photo Ref. No.

42A



42B



Photo Ref. No.

43A



43B

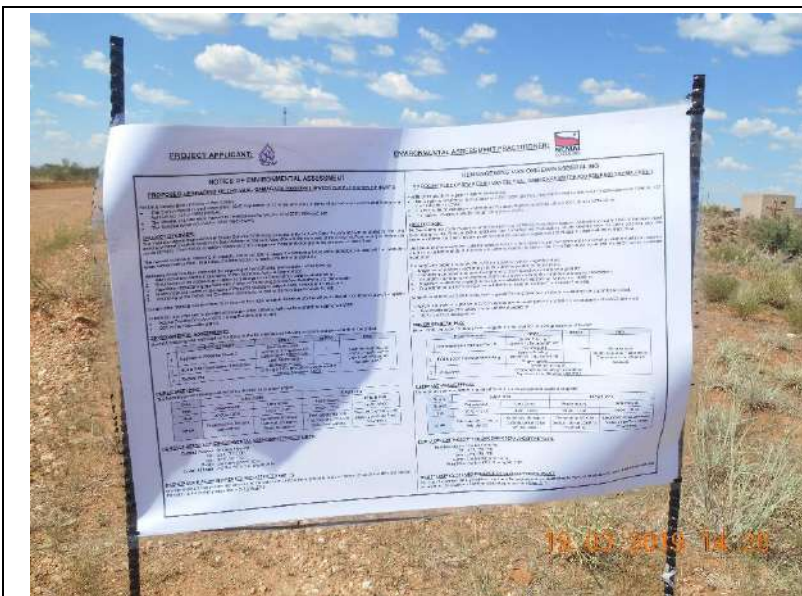


Photo Ref. No.

44A



44B

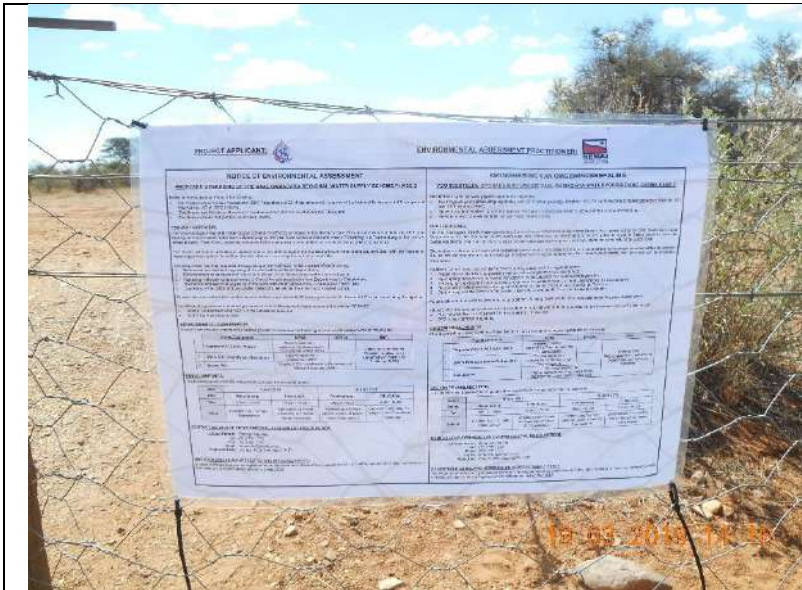


Photo Ref. No.

45A



45B



Photo Ref. No.

46A



46B

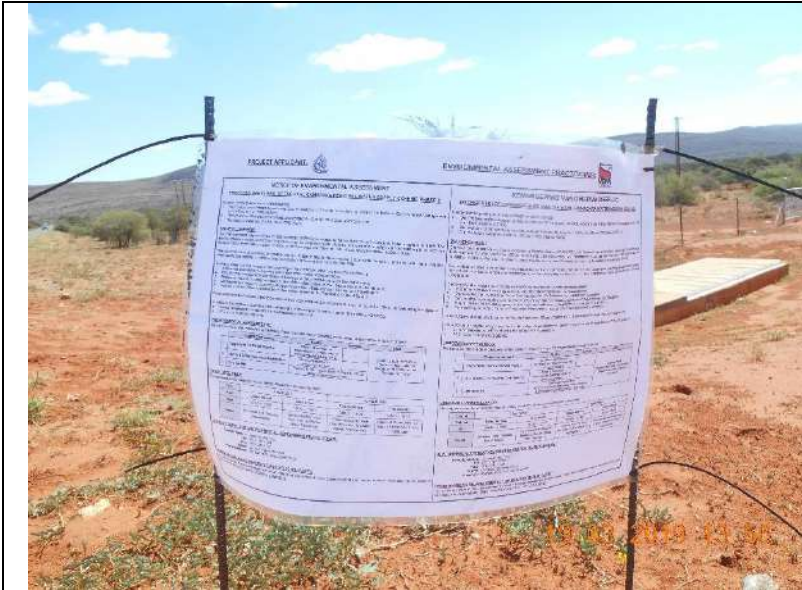


Photo Ref. No.

47A



47B

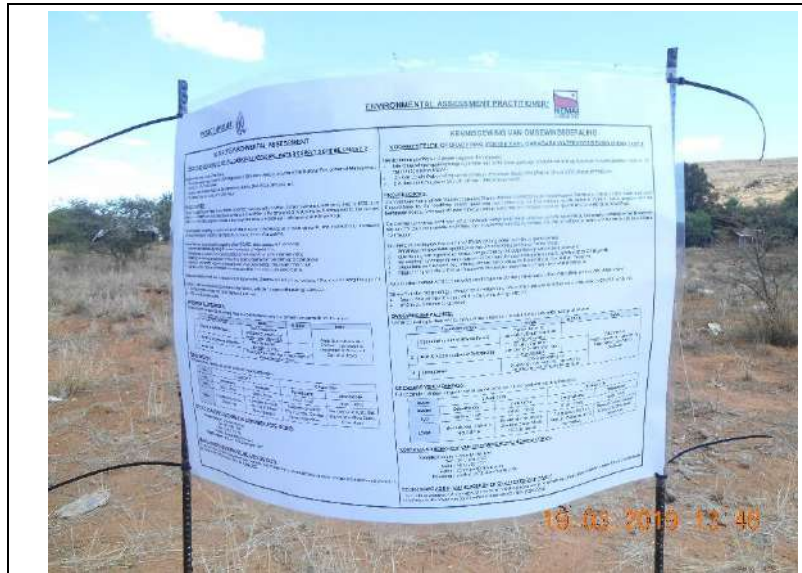


Photo Ref. No.

48A



48B



Photo Ref. No.

49A



49B

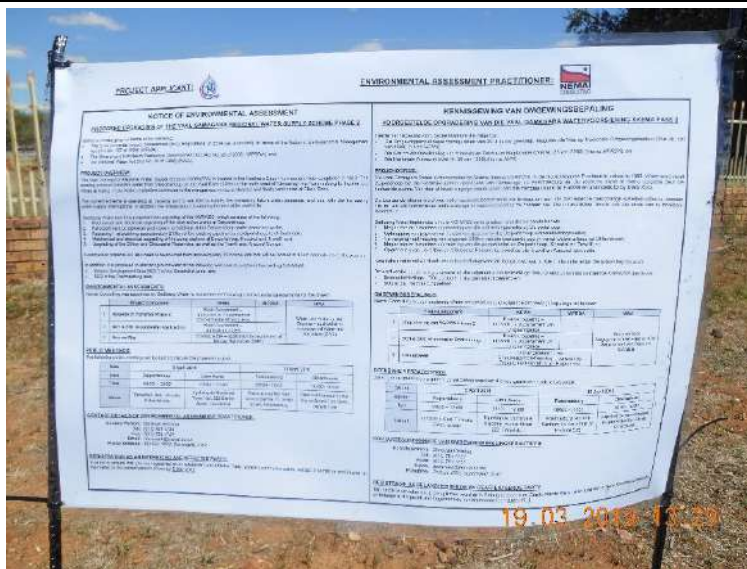


Photo Ref. No.

50A



50B

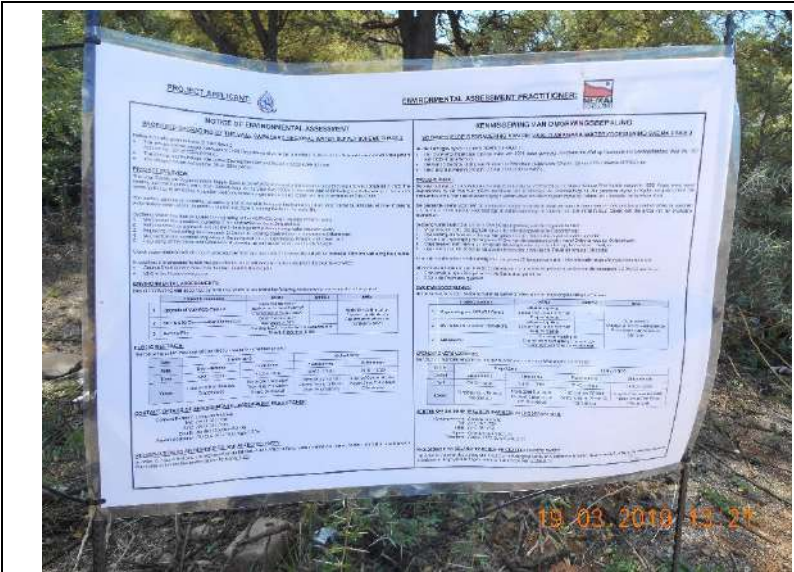


Photo Ref. No.

51A



51B

## APPENDIX E2

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PROOF OF WRITTEN NOTIFICATION



From: Donovan Henning

Sent: Fri 29/03/2019 03:20 PM

To:

Cc:

Bcc: msolomons@environment.gov.za; sdomo@environment.gov.za; fgrimett@environment.gov.za; StanleyT@environment.gov.za; slekota@environment.gov.za; MLitsoane@environment.gov.za; BNgcolso@environment.gov.za; AckermanP@dwa.gov.za; svandamme@sahra.org.za; mleslie@sahra.org.za; phine@sahra.org.za; nhiggitt@sahra.org.za; AbrahamsN@nra.co.za; Dyeress@nra.co.za; Dekockr@nra.co.za; runkelc@nra.co.za; malcolm.pautz@treasury.gov.za; pkadi@tourism.gov.za; klmakhubela@tourism.gov.za; caroline.richardson@dpe.gov.za; chambers@sacci.org.za; page.boikanyo@labour.gov.za; gay.khale@labour.gov.za; wisa@wisa.org.za; ERMohobei@dla.gov.za; elroy@cogta.gov.za; SOgunronbi@ruraldevelopment.gov.za; dini@sanbi.org; U.Bahadur@sanbi.org.za; pauld@sanparks.org; sebotsem@samef.org.za; nlesufi@bullion.org.za; wmoraka@salga.org.za; Christian Van Der Hoven

Subject: 10689 - Proposed Vaal Gamagara Regional Water Supply Scheme Phase 2 - Notification

Message 10689-20190314-Upgrading of VGRWSS-II BID (English) incl Reply Form.pdf (783 KB)

10689-20190315-Opgadering van VGRWSS-II AID (Afrikaans) en Terugvoeringsvorm.pdf (846 KB)

### NOTICE OF ENVIRONMENTAL ASSESSMENT

#### PROPOSED UPGRADING OF THE VAAL GAMAGARA REGIONAL WATER SUPPLY SCHEME PHASE 2

Notice is hereby given in terms of the following:

- The Environmental Impact Assessment (EIA) Regulations of 2014 (as amended), in terms of the National Environmental Management Act (Act No. 107 of 1998) (NEMA);
- The Mineral and Petroleum Resources Development Act (Act No. 28 of 2002) (MPRDA); and
- The National Water Act (Act No. 36 of 1998) (NWA).

#### PROJECT OVERVIEW:

The Vaal Gamagara Regional Water Supply Scheme (VGRWSS) is located in the Northern Cape Province and was completed in 1968. The existing scheme transfers water from Delpportshoop on the Vaal River (60km to the north west of Kimberley) via Postmasburg to the iron ore mines at Kathu. From Kathu, a pipeline continues to the manganese mines at Hotazel and finally terminates at Black Rock.

The current scheme is operating at capacity and is not able to supply the increasing future water demands, and deal with the increasing water supply interruptions. In addition, the infrastructure is nearing the end of its useful life.

Sedibeng Water has thus proposed the upgrading of the VGRWSS, which consists of the following:

- Mechanical and electrical upgrading of the abstraction works at Delpportshoop;
- Refurbishment on pipework and repairs to buildings at the Delpportshoop water treatment works;
- Replacing / refurbishing approximately 210km of the existing pipeline from Delpportshoop to Olifantshoek;
- Mechanical and electrical upgrading of the pump stations at Delpportshoop, Kneukel and Trewill; and
- Upgrading of the Clifton and Gloucester Reservoirs, as well as the Trewill and Kneukel Sumps.

Construction material will also need to be sourced from approximately 20 borrow pits that will be located at 10km intervals along the pipeline.

In addition, it is proposed to abstract groundwater at the following well sites to augment the existing VGRWSS:

- Source Development Area (SD) 1 in the Danielskuil area; and
- SD2 in the Postmasburg area.

Refer to the attached Background Information Document (BID) for further information pertaining to the project.

#### ENVIRONMENTAL ASSESSMENTS:

Nemai Consulting was appointed by Sedibeng Water to undertake the following environmental assessments for the project:

Project Component	NEMA	MPRDA	NWA
1 Upgrade of VGRWSS Phase 2	Basic Assessment – application to Department of	-	...

### KENNISGEWING VAN OMGEWINGSBEPALING

#### VOORGESTELDE OPGRADERING VAN DIE VAAL GAMAGARA WATERVOORSIENING SKEMA FASE 2

Hierdie kennisgewing word gegee kragtens die volgende:

- Die Omgewingsimpakbepalingsregulasies van 2014 (soos gewysig), kragtens die Wet op Nasionale Omgewingsbestuur (Wet Nr. 107 van 1998) (hierna NEMA);
- Die Wet op die Ontwikkeling van Minerale en Petroleum Hulpbronne (Wet Nr. 28 van 2002) (hierna MPRDA); en
- Die Nasionale Waterwet (Wet Nr. 36 van 1998) (hierna NWA).

#### PROJEKOORSIG:

Die Vaal Gamagara Streek Watervoorsiening Skema (hierna VGRWSS) in die Noord-Kaapse Provinsie is voltooi in 1968. Water word vanaf Delpportshoop by die Vaalrivier (60km noord-wes van Kimberley) via Postmasburg na die ystererts myne in Kathu oorgegedra deur die bestaande skema. Van daar af lewer h pyplyn verder water aan die mangaan myne by Hotazel en uiteindelik tot by Black Rock.

Die bestaande skema word teen volle kapasiteit bedryf en is nie in staat om aan die toenemende toekomstige waterbehoefes te voorsien nie, en om die toenemende onderbrekings in watervoorsiening te hanteer nie. Die infrastruktuur bereik ook die einde van sy bruikbare lewensduur.

Sedibeng Water beplan dus om die VGRWSS op te gradeer, wat die volgende behels:

- Meganiese en elektriese opgradering van die onttrekkingswerke by Delpportshoop;
- Opknapping van pypwerk en herstel van geboue by die Delpportshoop watersuiweringswerke;
- Vervanging / opknapping van ongeveer 210km van die bestaande pyplyn vanaf Delpportshoop tot Olifantshoek;
- Meganiese en elektriese opgradering van die pompstasies by Delpportshoop, Kneukel en Trewill; en
- Opgradering van die Clifton en Gloucester Reservoirs, sowel as die Trewill en Kneukel Sinkputte.

Konstruksiemateriaal word ook benodig vanaf ongeveer 20 leengroeue wat in 10km intervalle langs die pyplyn beplan word.

Dit word verder beplan om grondwater by die volgende produksieveld gebiede te onttrek om die bestaande VGRWSS aan te vul:

- Bron-ontwikkelings- (BO) gebied 1 in die Danielskuil gebied; en
- BO2 in die Postmasburg gebied.

Verwys na die aangehegte Agtergrondinligtingsdokument (AID) vir verdere inligting aangaande die projek.

#### OMGEWINGSBEPALINGS:

Nemai Consulting is deur Sedibeng Water aangestel om die volgende omgewingsbepalings uit te voer:

Projekkomponent	NEMA	MPRDA	NWA
1 Opgradering van VGRWSS Fase 2	Basiese Bepaling – aansoek by Departement van	-	...

From: Donovan Henning  
 To:  
 Cc:  
 Bcc: Donovan Henning; 'Tmthombeni@ncpg.gov.za'; 'ORiba@ncpg.gov.za'; 'oriba.denc@gmail.com'; 'lgwija@ncpg.gov.za'; 'mr.gwija@gmail.com'; 'hmokonopi@ncpg.gov.za'; 'mokonopin@gmail.com'

Sent: Mon 01/04/2019 06:59 AM

Subject: FW: 10689 - Proposed Vaal Gamagara Regional Water Supply Scheme Phase 2 - Notification

Message 10689-20190314-Upgrading of VGRWSS-II BID (English) incl Reply Form.pdf (783 KB) 10689-20190315-Opgradering van VGRWSS-II AID (Afrikaans) en Terugvoeringsvorm.pdf (846 KB)

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1	Upgrade of VGRWSS Phase 2	Basic Assessment – application to Department of Environmental Affairs (DEA)	-	Water Use Authorisation Process – application to

## KENNISGEWING VAN OMGEWINGSBEPALING

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Sedibeng Water beplan dus om die VGRWSS op te gradeer, wat die volgende behels:

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Verwys na die aangehegte Agergrondinligtingsdokument (AID) vir verdere inligting aangaande die projek.

#### OMGEWINGSBEPALINGS:

Nemai Consulting is deur Sedibeng Water aangestel om die volgende omgewingsbepalings uit te voer:

	Projekkomponent	NEMA	MPRDA	NWA
1	Opgradering van VGRWSS Fase 2	Basiese Bepaling – aansoek by Departement van Omgewingsake	-	Waterverbruik

From: Donovan Henning

Sent: Fri 29/03/2019 03:21 PM

To:

Cc:

Bcc: ichauke@salga.org.za; bfisher@ncpg.gov.za; Twessels@ncpg.gov.za; dmoleko@ncpg.gov.za; kgosimoleko@gmail.com; AbrahamsA@dws.gov.za; VanDykG@dws.gov.za; MsimangoP@dws.gov.za; Baloyil2@dws.gov.za; KgaraneK@dws.gov.za; pieter.swart@dmr.gov.za; Johannes.Nematatani@dmr.gov.za; Ntsundeni.Ravhugoni@dmr.gov.za; Johannes.Nematatani@dmr.gov.za; Takalani.Khorombi@dmr.gov.za; Patricia.Makhuvele@dmr.gov.za; Vincent.mulla@dmr.gov.za; cfortune@agri.ncape.gov.za; jacolinema@daff.gov.za; mashuduma@daff.gov.za; jabu.smit@gmail.com; Kgotsa.Moeketsi@drdlr.gov.za; pkegakiwe@ncpg.gov.za; ntoerien1@gmail.com; ngoltz@ncpg.gov.za; rtimothy@nbkb.org.za; cfortune@museumsnc.co.za; dmorris@museumsnc.co.za; katte@museumsnc.co.za; Itshilale@ncpg.gov.za; mbooyesen@ncpg.gov.za; msithole@ncpg.gov.za; KNogwili@ncpg.gov.za; Jeanne@joatutillies.co.za; gkeyser@vodamail.co.za; dstander@ncpg.gov.za; ZLangeveldt@ncpg.gov.za; cynthiajoseph@ncpg.gov.za; Mbulelo.duba@fbdm.co.za; masego.mosala@fbdm.co.za; fatma.ruiters@fbdm.co.za; lesego.ngwira@fbdm.co.za; karin.rheeder@fbdm.co.za; Christian Van Der Hoven

Subject: 10689 - Proposed Vaal Gamagara Regional Water Supply Scheme Phase 2 - Notification

Message 10689-20190314-Upgrading of VGRWSS-II BID (English) incl Reply Form.pdf (783 KB)

10689-20190315-Opgradering van VGRWSS-II AID (Afrikaans) en Terugvoeringsvorm.pdf (846 KB)

## NOTICE OF ENVIRONMENTAL ASSESSMENT

### PROPOSED UPGRADING OF THE VAAL GAMAGARA REGIONAL WATER SUPPLY SCHEME PHASE 2

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## KENNISGEWING VAN OMGEWINGSBEPALING

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	Basiese Bepaling –		

From: Donavan Henning

Sent: Fri 29/03/2019 03:21 PM

To:

Cc:

Bcc: thapeloo.plaatjie@fbdm.co.za; bulelwa.skwet@fbdm.co.za; freddy.netshivhodza@fbdm.co.za; mayor.secretary@dikgatlong.co.za; ctswats71@gmail.com; jsroos05@gmail.com; psdimphocombrink@gmail.com; gil@zfm-dm.gov.za; gil@vodamail.co.za; admin@zfm-dm.gov.za; anp@zfm-dm.gov.za; mm@kgatelopele.gov.za; techman@kgatelopele.gov.za; mayorsec@kgatelopele.gov.za; snr.cd@kgatelopele.gov.za; ngesigeorge7@gmail.com; kmward2clr@kgatelopele.gov.za; ladyosper@kgatelopele.gov.za; IW2939029@gmail.com; mm@tsantsabane.gov.za; bothabik@gmail.com; rodneycasper7@gmail.com; tntshalo.mabobo@gmail.com; Majiedtj@gmail.com; estellepoto@gmail.com; lebopira734@gmail.com; mphomashila80@gmail.com; tebogosalus3@gmail.com; dmolaole@gmail.com; mmsec@taologatsewe.gov.za; mmolusi@taologatsewe.gov.za; protea@gamagara.co.za; ositangk@gamagara.co.za; hendryh@gamagara.co.za; felciag@gamagara.co.za; oilfantg@gamagara.co.za; Kannemeyerg@gamagara.co.za; orpenm@gamagara.co.za; orpenmonica@gmail.com; lekgadib@gamagara.co.za; magaganen@gamagara.co.za; Christian Van Der Hoven

Subject: 10689 - Proposed Vaal Gamagara Regional Water Supply Scheme Phase 2 - Notification

Message 10689-20190314-Upgrading of VGRWSS-II BID (English) incl Reply Form.pdf (783 KB) 10689-20190315-Opgradering van VGRWSS-II AID (Afrikaans) en Terugvoeringsvorm.pdf (846 KB)

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Projekkomponent	NEMA	MPRDA	NWA
	Basiese Bepaling –		

From: Donovan Henning

Sent: Fri 29/03/2019 03:26 PM

To:

Cc:

Bcc: john.geeringh@eskom.co.za; geerinjh@eskom.co.za; wyngaajo@eskom.co.za; joubermo@eskom.co.za; NongauN@eskom.co.za; Mzoxolo.Nzoku@Transnet.net; Francis.Rahlapane@transnet.net; asavela.zenani@transnet.net; zenani.asavela@transnet.net; riaan.karien@transnet.net; wayleacr@telkom.co.za; agrisa@agrisa.co.za; henning@agrlink.co.za; rpo@agrlink.co.za; wiaanv1@gmail.com; jim@jimboos.co.za; agripostmasburg@gmail.com; info@tshping.co.za; sare@wsinet.co.za; tersias@petradiamonds.com; danielskuil@kik.co.za; admin@kik.co.za; postmasburg@kik.co.za; lampies55@gmail.com; janman@mjvln.co.za; Terence.Govender@solarreserve.com; constanth@ewt.org.za; Lani@ewt.org.za; delana@wessa.co.za; morgan.griffiths@wessa.co.za; wessanc@yahoo.com; info@wessa.co.za; info@birdlife.org.za; conservation@birdlife.org.za; daniel.marnewick@birdlife.org.za; advocacy@birdlife.org.za; J.Dini@sanbi.org.za; K.Maze@sanbi.org.za; Lucas.Tloubatla@assmang.co.za; monica.fick@angloamerican.com; anton.bezuidenhout@petradiamonds.com; emank@wrc.org.za; wandlien@wrc.org.za; bonanim@wrc.org.za; ebraune@uwv.ac.za; sharon@nocco.co.za; info@nocco.co.za; Christian Van Der Hoven

Subject: 10689 - Proposed Vaal Gamagara Regional Water Supply Scheme Phase 2 - Notification

Message 10689-20190314-Upgradeing of VGRWSS-II BID (English) incl Reply Form.pdf (783 KB)

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Projekkomponent	NEMA	MPRDA	NWA
	Basiese Bepalino –		

From: Donovan Henning

Sent: Fri 29/03/2019 03:28 PM

To:

Cc:

Bcc: gert@glenross.co.za; gweir@mweb.co.za; francoisdej@outlook.com; hencoerberdery@gmail.com; swartpit@telkomsa.net; bertievh@gmail.com; middelposgustfarm@gmail.com; electrocool@telkomsa.net; fourie.mg@gmail.com; fourie.mg@gmail.com; johannaduplessis@yahoo.com; tcbvermeulen@yahoo.com; fahsti@gmail.com; con.schoombie@ppc.co.za; mashudu.dzivhani@ppc.co.za; oscar.bowers@ppc.co.za; bdooling@debeers.co.za; maxwell.morapeli@debeersgroup.com; tsebusi@kelesedi.co.za; allanscholtz@gmail.com; kgoronyane@gmail.com; jhgous2@gmail.com; lorry@rufco.co.za; osvaldo@rufco.co.za; orfeo@rufco.co.za; labuschw@hotmail.com; venter.sarel@gmail.com; topsvdl@lantic.net; ebb@hotmail.co.za; francois@langebergstene.co.za; coetzeenel5@gmail.com; elektra.elektries@gmail.com; vhs@idwala.co.za; nul@idwala.co.za; martinpool@vodamail.co.za; dwstevan1@gmail.com; len@jempmg.co.za; doete71@gmail.com; len@jempmg.co.za

Subject: 10689 - Proposed Vaal Gamagara Regional Water Supply Scheme Phase 2 - Notification

Message 10689-20190314-Upgrading of VGRWSS-II BID (English) incl Reply Form.pdf (783 KB) 10689-20190315-Oppgradering van VGRWSS-II AID (Afrikaans) en Terugvoeringsvorm.pdf (846 KB)

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- Upgrading of the Clifton and Gloucester Reservoirs, as well as the Trewill and Kneukel Sumps.

Construction material will also need to be sourced from approximately 20 borrow pits that will be located at 10km intervals along the pipeline.

In addition, it is proposed to abstract groundwater at the following well sites to augment the existing VGRWSS:

- Source Development Area (SD) 1 in the Danielskuil area; and
- SD2 in the Postmasburg area.

Refer to the attached Background Information Document (BID) for further information pertaining to the project.

#### ENVIRONMENTAL ASSESSMENTS:

Nemai Consulting was appointed by Sedibeng Water to undertake the following environmental assessments for the project.

Project Component	NEMA	MPRDA	NWA
	Basie Assessment –		

### KENNISGEWING VAN OMGEWINGSBEPALING

#### VOORGESTELDE OPGRADERING VAN DIE VAAL GAMAGARA WATERVOORSIENING SKEMA FASE 2

Hierdie kennisgewing word gegee kragtens die volgende:

- Die Omgewingsimpakbepalingsregulasies van 2014 (soos gewysig), kragtens die Wet op Nasionale Omgewingsbestuur (Wet Nr. 107 van 1998) (hierna *NEMA*);
- Die Wet op die Ontwikkeling van Minerale en Petroleum Hulpbronne (Wet Nr. 28 van 2002) (hierna *MPRDA*); en
- Die Nasionale Waterwet (Wet Nr. 36 van 1998) (hierna *NWA*).

#### PROJEKOORSIG:

Die Vaal Gamagara Streek Watervoorsiening Skema (hierna *VGRWSS*) in die Noord-Kaapse Provinsie is voltooi in 1968. Water word vanaf Delpportshoop by die Vaalrivier (60km noord-wes van Kimberley) via Postmasburg na die ystererts myne in Kathu oorgedra deur die bestaande skema. Van daar af lewer h pyplyn verder water aan die mangaan myne by Hotazel en uiteindelek tot by Black Rock.

Die bestaande skema word teen volle kapasiteit bedryf en is nie in staat om aan die toenemende toekomstige waterbehoefes te voorsien nie, en om die toenemende onderbrekings in watervoorsiening te hanteer nie. Die infrastruktuur bereik ook die einde van sy bruikbare lewensduur.

Sedibeng Water beplan dus om die VGRWSS op te gradeer, wat die volgende behels:

- Meganiese en elektriese opgradering van die onttrekkingswerke by Delpportshoop;
- Opknapping van pypwerk en herstel van geboue by die Delpportshoop watersuiweringswerke;
- Vervanging / opknapping van ongeveer 210km van die bestaande pyplyn vanaf Delpportshoop tot Olifantshoek;
- Meganiese en elektriese opgradering van die pompstasies by Delpportshoop, Kneukel en Trewill; en
- Opgradering van die Clifton en Gloucester Reservoirs, sowel as die Trewill en Kneukel Sinkputte.

Konstruksiemateriaal word ook benodig vanaf ongeveer 20 leengroewe wat in 10km intervalle langs die pyplyn beplan word.

Dit word verder beplan om grondwater by die volgende produksieveld gebiede te onttrek om die bestaande VGRWSS aan te vul:

- Bron-ontwikkelings-(BO) gebied 1 in die Danielskuil gebied; en
- BO2 in die Postmasburg gebied.

Verwys na die aangehegte Agtergrondinligtingsdokument (AID) vir verdere inligting aangaande die projek.

#### OMGEWINGSBEPALINGS:

Nemai Consulting is deur Sedibeng Water aangestel om die volgende omgewingsbepalings uit te voer.

Projekkomponent	NEMA	MPRDA	NWA
	Basiese Bevalino –		

From: Donovan Henning

Sent: Fri 29/03/2019 03:30 PM

To:

Cc:

Bcc: ihasenjager@sedibengwater.co.za; pchiteku@ingerop.co.za; wvdwesthuizen@proplansa.co.za; jbotha@proplansa.co.za; elmar.d@ixengineers.co.za; joanne@savannahsa.com; Christian Van Der Hoven

Subject: 10689 - Proposed Vaal Gamagara Regional Water Supply Scheme Phase 2 - Notification

Message 10689-20190314-Upgrading of VGRWSS-II BID (English) incl Reply Form.pdf (783 KB) 10689-20190315-Oprgradering van VGRWSS-II AID (Afrikaans) en Terugvoeringsvorm.pdf (846 KB)

**NOTICE OF ENVIRONMENTAL ASSESSMENT**

**PROPOSED UPGRADING OF THE VAAL GAMAGARA REGIONAL WATER SUPPLY SCHEME PHASE 2**

Notice is hereby given in terms of the following:

- The Environmental Impact Assessment (EIA) Regulations of 2014 (as amended), in terms of the National Environmental Management Act (Act No. 107 of 1998) (NEMA);
- The Mineral and Petroleum Resources Development Act (Act No. 28 of 2002) (MPRDA); and
- The National Water Act (Act No. 36 of 1998) (NWA).

**PROJECT OVERVIEW:**

The Vaal Gamagara Regional Water Supply Scheme (VGRWSS) is located in the Northern Cape Province and was completed in 1968. The existing scheme transfers water from Delpoortshoop on the Vaal River (60km to the north west of Kimberley) via Postmasburg to the iron ore mines at Kathu. From Kathu, a pipeline continues to the manganese mines at Hotazel and finally terminates at Black Rock.

The current scheme is operating at capacity and is not able to supply the increasing future water demands, and deal with the increasing water supply interruptions. In addition, the infrastructure is nearing the end of its useful life.

Sedibeng Water has thus proposed the upgrading of the VGRWSS, which consists of the following:

1. Mechanical and electrical upgrading of the abstraction works at Delpoortshoop;
2. Refurbishment on pipework and repairs to buildings at the Delpoortshoop water treatment works;
3. Replacing / refurbishing approximately 210km of the existing pipeline from Delpoortshoop to Olifantshoek;
4. Mechanical and electrical upgrading of the pump stations at Delpoortshoop, Kneukel and Trewill; and
5. Upgrading of the Clifton and Gloucester Reservoirs, as well as the Trewill and Kneukel Sumps.

Construction material will also need to be sourced from approximately 20 borrow pits that will be located at 10km intervals along the pipeline.

In addition, it is proposed to abstract groundwater at the following well sites to augment the existing VGRWSS:

- Source Development Area (SD) 1 in the Danielskuil area; and
- SD2 in the Postmasburg area.

Refer to the attached Background Information Document (BID) for further information pertaining to the project.

**ENVIRONMENTAL ASSESSMENTS:**

Nemal Consulting was appointed by Sedibeng Water to undertake the following environmental assessments for the project:

	Project Component	NEMA	MPRDA	NWA
1	Upgrade of VGRWSS Phase 2	Basic Assessment – application to Department of Environmental Affairs (DEA)	-	Water Use Authorisation Process – application to

**KENNISGEWING VAN OMGEWINGSBEPALING**

**VOORGESTELDE OPGRADERING VAN DIE VAAL GAMAGARA WATERVOORSIENING SKEMA FASE 2**

Hierdie kennisgewing word gegee kragtens die volgende:

- Die Omgewingsimpakbepalingsregulasies van 2014 (soos gewysig), kragtens die Wet op Nasionale Omgewingsbestuur (Wet Nr. 107 van 1998) (hierna *NEMA*);
- Die Wet op die Ontwikkeling van Minerale en Petroleum Hulpbronne (Wet Nr. 28 van 2002) (hierna *MPRDA*); en
- Die Nasionale Waterwet (Wet Nr. 36 van 1998) (hierna *NWA*).

**PROJEKTOORSIG:**

Die Vaal Gamagara Streek Watervoorsiening Skema (hierna VGRWSS) in die Noord-Kaapse Provinsie is voltooi in 1968. Water word vanaf Delpoortshoop by die Vaalrivier (60km noord-wes van Kimberley) via Postmasburg na die ystererts myne in Kathu oorgedra deur die bestaande skema. Van daar af lewer h pyllyn verder water aan die mangaan myne by Hotazel en uiteindelik tot by Black Rock.

Die bestaande skema word teen volle kapasiteit bedryf en is nie in staat om aan die toenemende toekomstige waterbehoefes te voorsien nie, en om die toenemende onderbrekings in watervoorsiening te hanteer nie. Die infrastruktuur bereik ook die einde van sy bruikbare lewensduur.

Sedibeng Water beplan dus om die VGRWSS op te gradeer, wat die volgende behels:

1. Meganiese en elektriese opgradering van die onttrekkingswerke by Delpoortshoop;
2. Opknapping van pypwerk en herstel van geboue by die Delpoortshoop watersuiweringswerke;
3. Vervanging / opknapping van ongeveer 210km van die bestaande pyllyn vanaf Delpoortshoop tot Olifantshoek;
4. Meganiese en elektriese opgradering van die pompstasies by Delpoortshoop, Kneukel en Trewill; en
5. Opgradering van die Clifton en Gloucester Reservoirs, sowel as die Trewill en Kneukel Sinkputte.

Konstruksiemateriaal word ook benodig vanaf ongeveer 20 leengroewe wat in 10km intervalle langs die pyllyn beplan word.

Dit word verder beplan om grondwater by die volgende produksieveld gebiede te onttrek om die bestaande VGRWSS aan te vul:

- Bron-ontwikkelings- (BO) gebied 1 in die Danielskuil gebied; en
- BO2 in die Postmasburg gebied.

Verwys na die aangehegte Agtergrondinligtingsdokument (AID) vir verdere inligting aangaande die projek.

**OMGEWINGSBEPALINGS:**

Nemal Consulting is deur Sedibeng Water aangestel om die volgende omgewingsbepalings uit te voer:

	Projekkomponent	NEMA	MPRDA	NWA
1	Opgradering van VGRWSS Fase 2	Basiese Bepaling – aansoek by Departement van Omgewingsake	-	Waterverbruik























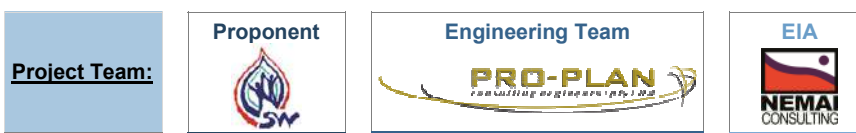
# BACKGROUND INFORMATION DOCUMENT



March 2019

## PROPOSED UPGRADE OF THE VAAL GAMAGARA REGIONAL WATER SUPPLY SCHEME PHASE 2

### PROJECT ANNOUNCEMENT



#### CONTENT

1. Purpose of this document
2. Background & Introduction
3. Project Description
4. Environmental Assessments
5. Contact Details

## 1. PURPOSE OF THIS DOCUMENT

The purpose of this **Background Information Document (BID)** is as follows:

1. It serves to provide an overview of the proposed Project, which entails the upgrade of the Vaal Gamagara Regional Water Supply Scheme (VGRWSS) Phase 2 and groundwater abstraction;
2. It provides an outline of the environmental assessments that will be undertaken for the Project; and
3. It grants the opportunity to be registered as an Interested and Affected Party (I&AP) and allows for comments to be made on the proposed Project (refer to the attached Reply Form).

## 2. BACKGROUND & INTRODUCTION

The VGRWSS is located in the Northern Cape Province and was completed in 1968 by the Department of Water Affairs, now Department of Water and Sanitation (DWS), and transferred to Sedibeng Water in 2007. The existing scheme transfers water from Delportshoop on the Vaal River (60km to the north west of Kimberley) via Postmasburg to the iron ore mines at Kathu. From Kathu, a pipeline continues to the manganese mines at Hotazel and finally terminates at Black Rock.

The scheme consists of a water treatment works (WTW) that can treat 13.27 million m<sup>3</sup>/a water, pumps, 11 reservoirs and 370km of pipes that deliver potable water to users. The pipeline has the capacity to convey approximately 15 million m<sup>3</sup>/a into the D41J and D41K catchments. The water is augmented to 28 million m<sup>3</sup>/annum by dewatering activities of the Kolomela, Beeshoek and Sishen mines to lower the groundwater table to ensure safe mining conditions.

The current scheme is operating at capacity and is not able to supply the increasing future water demands, and deal with the increasing water supply interruptions. The major driving force of the increased water demand is the iron ore and manganese mining operations. These mines of the Northern Cape produce 84% of South Africa's iron ore and 92% of the world's high-grade manganese deposits are in the Kalahari basin. Diamond and lime mining operations also contribute to the water demand, but to a lesser degree.

Secondary to the expected increased water demand are water supply interruptions that are amplified due to the aging infrastructure. The infrastructure, being 50 years old, is nearing the end of its useful life.

### 3. PROJECT DESCRIPTION

A Feasibility Study for the refurbishment/upgrading of the VGRWSS was completed in August 2011, which was based on the water demand to 2030. Phase 1 of the project is currently under construction. As part of Phase 2, a recalculation was undertaken of the water need and infrastructure options to meet the water demand to 2043. Phase 2, which is the focus of this BID, is described further below.

#### 3.1 PROJECT LOCATION

The VGRWSS Phase 2 starts at the Delportshoop WTW and runs past the towns of Ulco, Lime Acres and Postmasburg before ending at Olifantshoek, in the Northern Cape (refer to **Figure 3**).

The project area is situated in the municipalities tabulated below.

*Table 1: Municipalities*

District Municipality (DM)	Local Municipality (LM)
Frances Baard DM	Dikgatlong LM
ZF Mgcawu DM	Kgatelopele LM & Tsantsabane LM
John Taolo Gaetsewe DM	Gamagara LM

#### 3.2 PROJECT INFRASTRUCTURE

An overview of the project components associated with the proposed Phase 2 of the upgrading of the VGRWSS, as well as the groundwater abstraction, follows.

##### 3.2.1 Water Abstraction Works

The abstraction works at Delportshoop (shown in **Figure 1**) will require mechanical and electrical upgrading.



*Figure 1: Delportshoop Abstraction works on the Vaal River*

##### 3.2.2 Water Treatment Works

The Delportshoop WTW (shown in **Figure 2**) has the capacity to treat 36.37 ML/day (13.27 million m<sup>3</sup>/a). It is currently envisaged that the WTW will not undergo any major upgrades to the infrastructure. Provision was made to undertake refurbishment on pipework and repairs to buildings. The footprint of the WTW will remain the same.



*Figure 2: Delportshoop WTW*

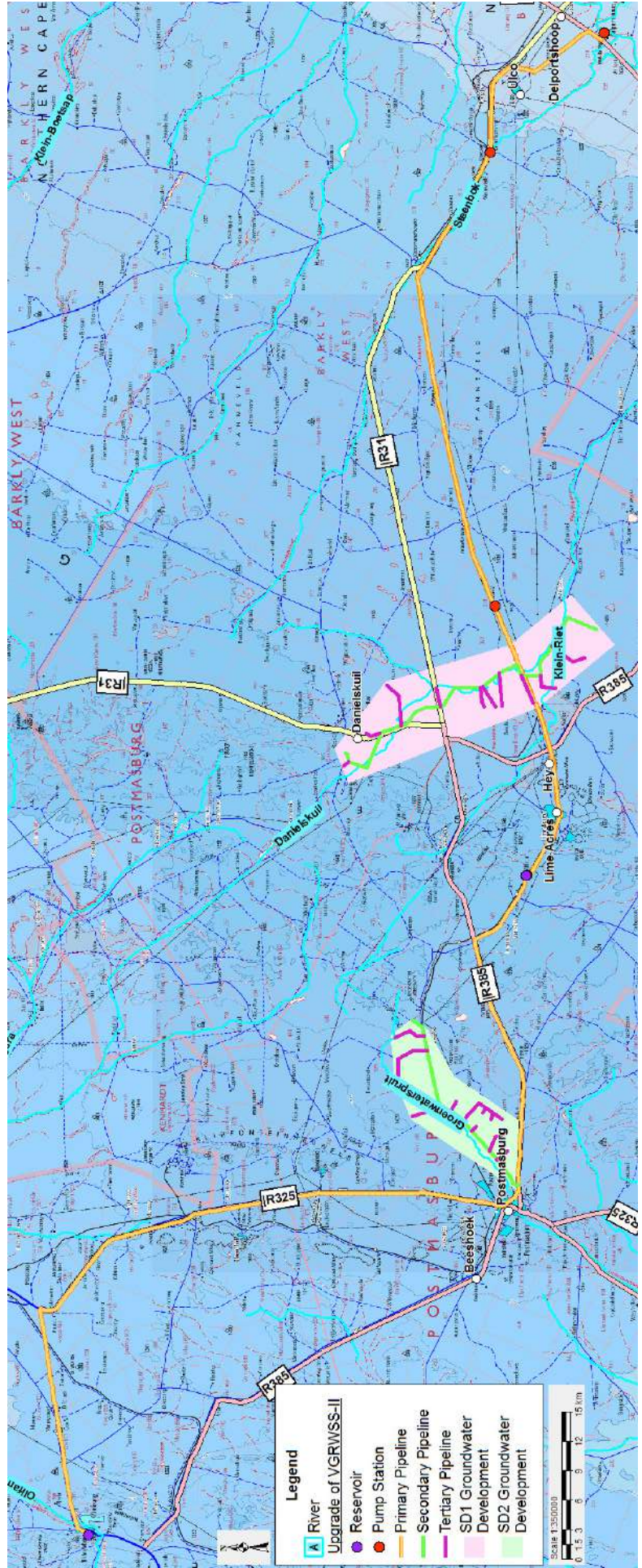
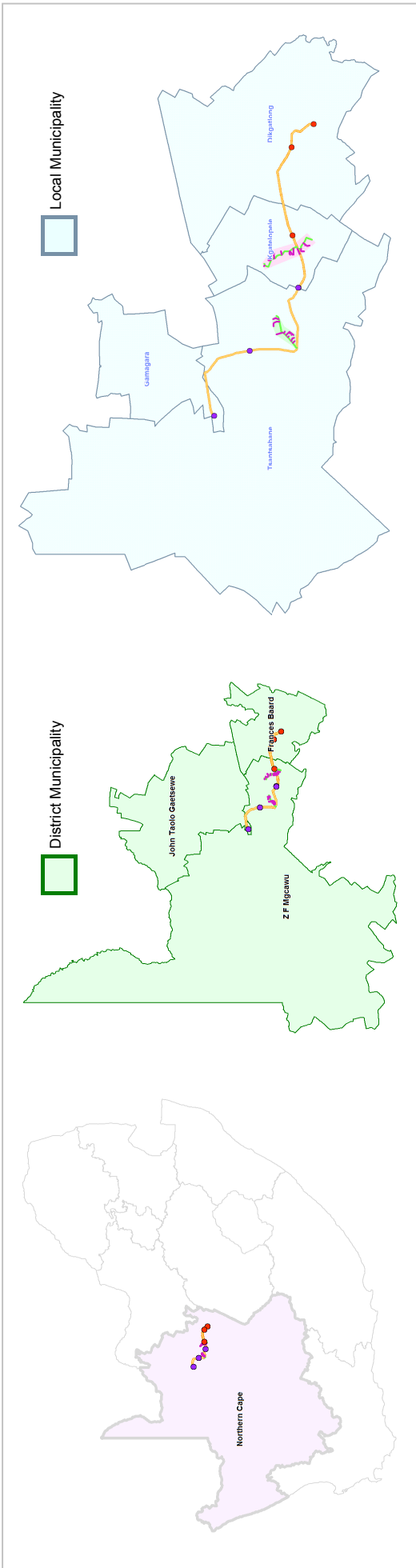


Figure 3: Locality map of project area

**Note:** Detailed maps with cadastral boundaries are available on request.

### 3.2.3 Pipelines

Water is pumped from the Delportshoop WTW via a 20km long 687mm diameter pipeline to the Kneukel sump and pump station, where it is then pumped via a 48km long 687mm diameter pipeline to the Trewill sump and pump station. From the Trewill pump station, water is pumped via a 29km long 508mm diameter pipeline to the Clifton reservoirs. Water is then conveyed from the Clifton reservoirs in a 36.6km long 762mm diameter and 23.5km long 660mm diameter pipeline to the Gloucester reservoir under gravity. The Gloucester reservoir serves as a pressure break tank. From Gloucester, water is conveyed under gravity to the rest of the system, initially through a 27.1km long 900mm pipeline up to the Olifantshoek branch and then a 23.5km long 254mm diameter pipeline towards Olifantshoek.

Various options for the refurbishment/replacement of the pipelines for Phase 2 were investigated as part of the Feasibility Study Report (2011) and the Addendum to the Feasibility Report (2014). Based on recommendations from these reports, the proposed scope of work with regards to the abovementioned pipelines includes the following:

- ◆ Replacing of Pipeline from Beeshoek Connection to Roscoe;
- ◆ Replacing of Pipeline between Clifton and Beeshoek Connection;
- ◆ Replacing of the Rising Main from Delportshoop to Kneukel;
- ◆ Replacing of the Rising Main from Kneukel to Trewill;
- ◆ Replacing of the Rising Main from Trewill to Clifton; and
- ◆ Refurbishment of Gravity Main from Roscoe to Olifantshoek.

Note that the replacement of the above sections of pipelines will take place within the exiting servitude, and the existing pipelines will be decommissioned. It is anticipated that the construction servitude (temporary) will be 40m wide. Various views along the existing pipeline servitude are provided in **Figure 4**.



**Figure 4:** Views along the existing pipeline servitude

### 3.2.4 Pump Stations

The pump stations at Delportshoop, Kneukel (shown in **Figure 5**) and Trewill have capacity to upgrade mechanical and electrical components without major upgrades to the civil works. The footprint of the pump stations will remain the same.



**Figure 5:** Kneukel Pump Station and Sump

### 3.2.5 Reservoirs

A 10Mℓ reservoir serves as a sump for the Delportshoop pump station and is located on the WTW site. Two identical 0.9Mℓ sumps are located at Kneukel and at Trewill pump stations. The main reservoir cluster is at Clifton (shown in **Figure 6**), located 98km from Delportshoop along the pipeline, where four identical structures provide a total storage of 27Mℓ. The Gloucester reservoir with a capacity of 6.75Mℓ is located 60km from the Clifton reservoirs. Olifantshoek reservoir is located 23km from Roscoe and has a capacity of 3Mℓ. The footprint of the reservoirs may be enlarged.

The Project proposes the upgrading of the following:

- ◆ Clifton, Gloucester Reservoirs and Trewill Sump; and
- ◆ Kneukel Sump.



**Figure 6:** Clifton Reservoirs

### 3.2.6 Groundwater Abstraction

The Reconciliation Strategy and Water Master Plan Study for the VGRWSS highlighted the potential for available groundwater resources in the general area proposed to be served by the pipeline to augment the bulk water supply. Areas that were identified as possessing enhanced groundwater development potential were designated Source Development Areas (SD's).

Based on the resource potential of resource groupings and shortfalls in the scheme three large scale groundwater SD target areas were identified, namely SD1, SD2 and SD4. This BID only considers SD1 and SD2 (shown in **Figure 3**). **Table 2** shows the groundwater yield for these two respective areas.

**Table 2:** Groundwater yield for SD1 & SD2

Groundwater Source	Long term yield		Long & short-term yield	
	m <sup>3</sup> /annum	ℓ/s	m <sup>3</sup> /annum	ℓ/s
<b>SD1 (Danielskuil area)</b>	5 329 584	169	6 643 584	210
<b>SD2 (Postmasburg area)</b>	3 689 712	117	5 497 776	174
<b>Total</b>	9 019 296	286	12 141 360	384

### 3.2.7 Borrow Areas

Borrow pits will be required to source construction material for Phase 2. The proposed borrow pits will be situated at approximately 10km intervals along the pipeline route to limit the hauling distances, with a total of 20 borrow pits required. It is estimated that each borrow pits will be approximately 600 000 m<sup>3</sup> in size. The locations of the borrow areas will only be determined once the geotechnical investigations have been completed.

## 4. ENVIRONMENTAL ASSESSMENTS

### 4.1 ENVIRONMENTAL LEGAL FRAMEWORK

The key pieces of legislation and the associated environmental assessments for the proposed Project are listed in **Table 3**. The competent authorities for the processes are also shown.

**Table 3: Environmental legislation and associated assessments**

	Project Component	NEMA <sup>1</sup>	MPRDA <sup>2</sup>	NWA <sup>3</sup>
1	Upgrade of VGRWSS Phase 2	Basic Assessment (DEA <sup>4</sup> )	-	Water Use Authorisation Process
2	SD1 & SD2 Groundwater Abstraction	Basic Assessment (DEA)	-	
3	Borrow Pits	Individual Applications - Basic Assessment/ Combined Application - Scoping & EIA (DMR <sup>5</sup> )		

1 - NEMA = National Environmental Management Act (No. 107 of 1998)

2 - MPRDA = Mineral and Petroleum Resources Development Act (Act No. 28 of 2002)

3 - NWA = National Water Act (No. 36 of 1998)

4 - DEA = Department of Environmental Affairs

5 - DMR = Department of Mineral Resources

Note that there are also other pieces of legislation and mandated authorities governing specific environmental management topics (e.g. waste, air quality, etc.) and features (e.g. heritage and cultural resources, biodiversity, etc.), which will be considered further as the environmental assessments unfold.

Nemai Consulting was appointed to act as the Environmental Assessment Practitioner (EAP) to undertake the requisite environmental assessments for the proposed Project.

### 4.2 Environmental Impact Assessment (EIA) Regulations of 2014 (as amended)

Based on the listed activities triggered by the proposed upgrade of VGRWSS Phase 2 as well as the SD1 and SD2 Groundwater Abstraction, separate Basic Assessments (outlined in **Figure 7**) need to be undertaken to seek Environmental Authorisation for these project components.

The approach to seeking Environmental Authorisation for the proposed borrow pits may entail separate applications for Basic Assessments (outlined in **Figure 7**) for individual sites, or a combined application for a Scoping and EIA process (outlined in **Figure 8**) for all the borrow pits. The approach will be confirmed in consultation with DMR once the geotechnical investigations have been completed.

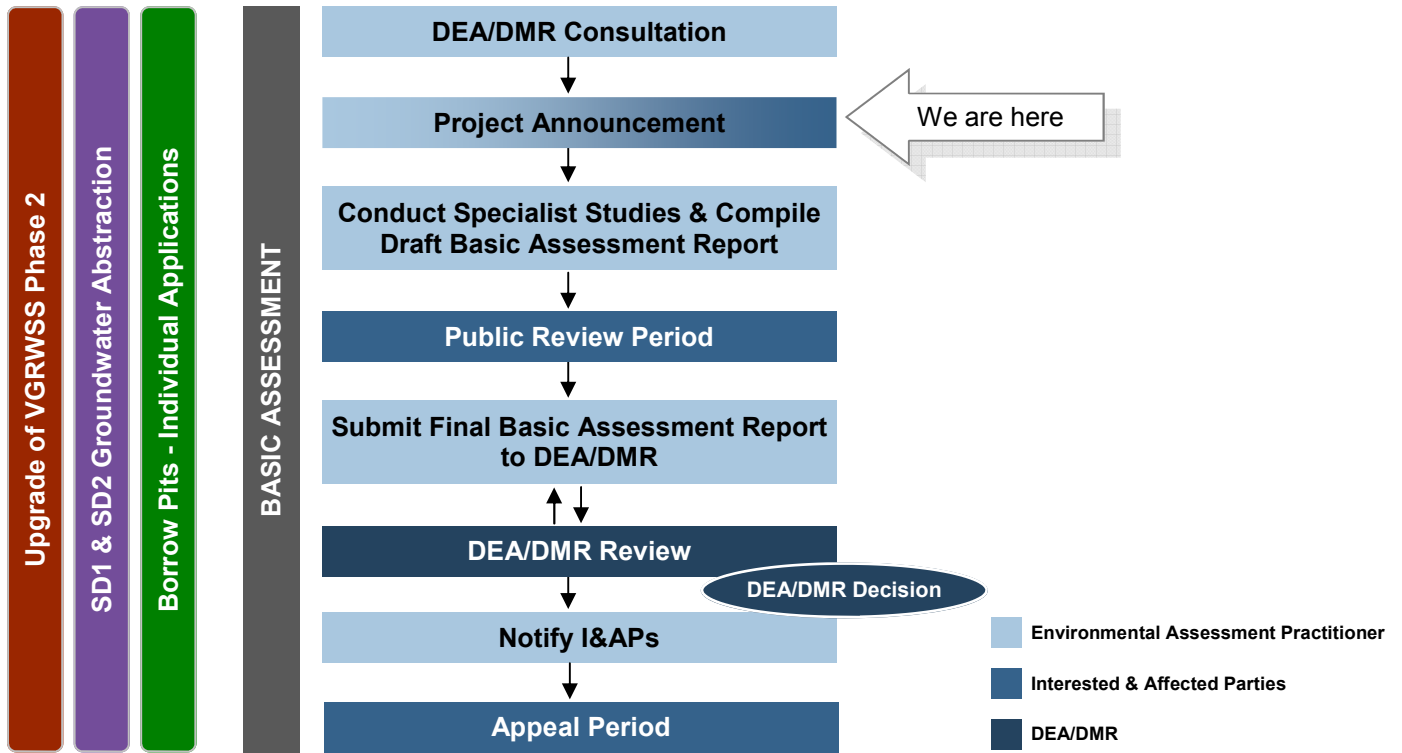
The abovementioned processes will be undertaken in accordance with GN No. R. 982 of 4 December 2014 (as amended).

### 4.3 Water Use Authorisation

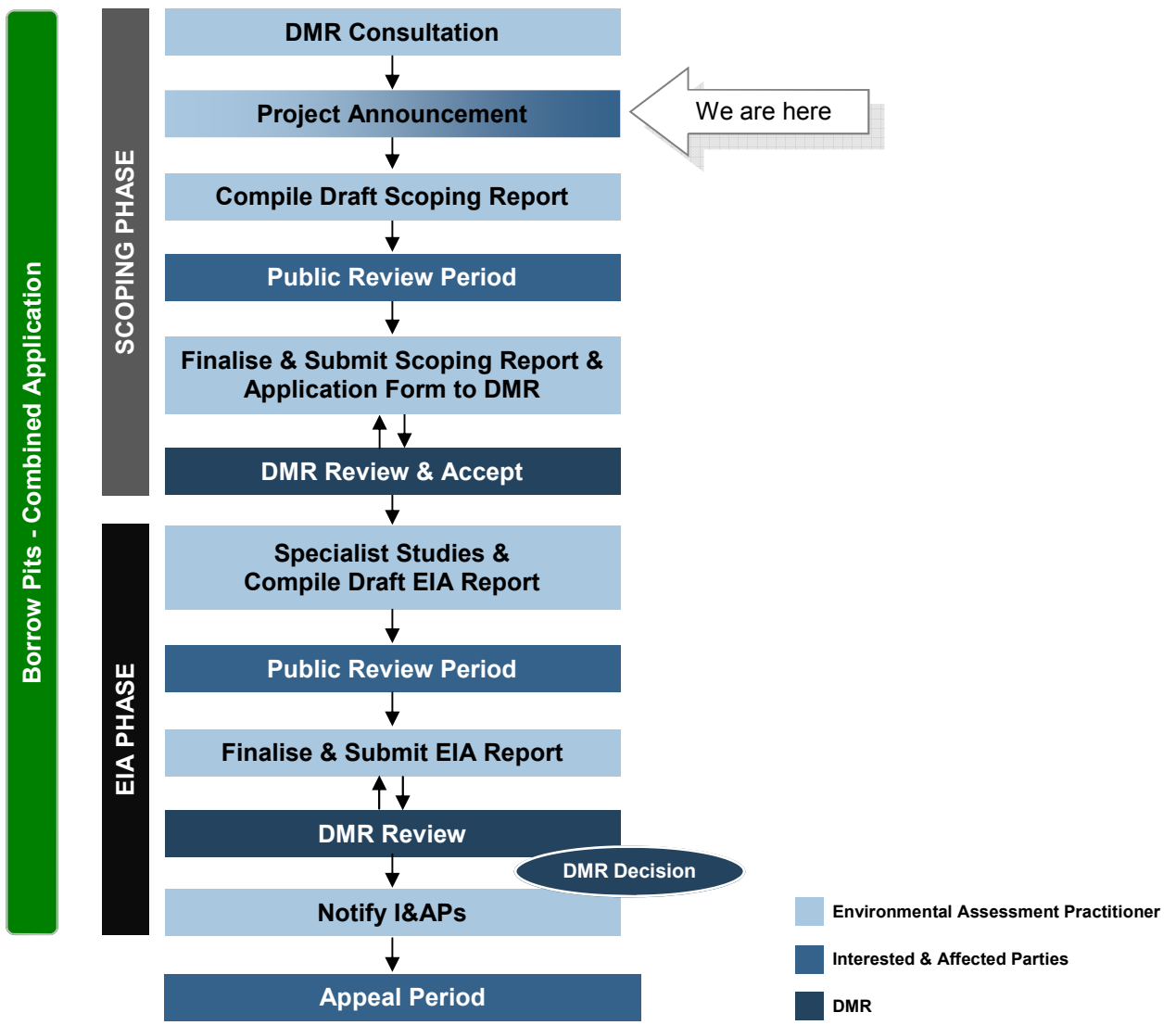
The following water uses, in terms of Section 21 of the NWA, are associated with the proposed Project:

- Section 21(a) (*taking water from a water resource*) – SD1 and SD2 Groundwater Abstraction;
- Section 21(b) (*storing water*) – new reservoirs associated with SD1 and SD2 groundwater abstraction; and
- Section 21(c) (*impeding or diverting the flow of water in a watercourse*) and Section 21(i) (*altering the bed, banks, course or characteristics of a watercourse*) – instream works for all project components.

Authorisation of these water uses will be applied for from DWS.



**Figure 7: Outline of Basic Assessment Process**



**Figure 8: Outline of Scoping and EIA Process**

## 4.4 SPECIALIST STUDIES

Specialist input is ordinarily required to assess potentially significant impacts to particular features of the receiving environment. At this stage, the following environmental specialist studies are earmarked to be undertaken for the proposed Project:

- Terrestrial Ecological Impact Assessment;
- Heritage Impact Assessment;
- Surface Water Impact Assessment and Delineation;
- Groundwater Assessment;
- Agricultural Impact Assessment; and
- Socio-Economic Impact Assessment.

Additional studies may be identified as the environmental assessment processes unfold. Technical studies that formed part of the Feasibility Study will also be considered.

## 4.5 PUBLIC PARTICIPATION

### 4.5.1 Overview of Public Participation Process

Public Participation will be undertaken in accordance with Chapter 6 of the EIA Regulations of 2014 (as amended). Some of the key tasks that will form part of the Public Participation Process include the following (amongst others):

- Compile a database of authorities and I&APs;
- Announce the Project to I&APs;
- Provide notification to authorities and I&APs;
- Grant authorities and registered I&APs a period of 30 days to review and submit comments on the draft EIA documents; and
- Provide notification of the decision and explain the appeal process.

### 4.5.2 Registration as an I&AP

To register as an I&AP and to raise any comments or concerns, please complete the attached Reply Form and return to Nemaï Consulting by **6 May 2019**.

### 4.5.3 Public Meetings

The public meetings listed in **Table 4** have been scheduled, where the aims of these meetings include the following:

- To explain the Project;
- To provide an overview of the environmental assessment processes;
- To provide a platform for project-related discussions; and
- To obtain input from I&APs.

**Table 4: Details of public meetings - Announcement Phase**

Date	9 April 2019		10 April 2019	
Area	Delportshoop	Lime Acres	Postmasburg	Olifantshoek
Time	09h30 – 12h00	14h30 – 17h00	09h00 - 11h30	14h00 - 16h30
Venue	Tsholofelo Hall, Tidimalo, Delportshoop	Kgatelopele Municipal Town Hall, 222 Barker Street, Danielskuil	Postmasburg NG Kerk Church Centre, 12 Duiker Street, Postmasburg	Diepkloof Community Hall, Kagiso Street/Toto Street, Olifantshoek

Targeted meetings may also be held with landowners, authorities, stakeholders and I&APs during the course of the environmental assessments (as required), which will be arranged separately.

## 5. CONTACT DETAILS

For any queries pertaining to the Project, please contact the Environmental Assessment Practitioner below:



**Contact Person:** Donavan Henning  
**Tel:** (011) 781 1730  
**Fax:** (011) 781 1731  
**Email:** donavanh@nemaï.co.za



# AGTERGRONDINLICHTINGSDOKUMENT



Maart 2019

## VOORGESTELDE OPGRADERING VAN DIE VAAL GAMAGARA WATERVOORSIENING SKEMA FASE 2

### PROJEK AANKONDIGING

**Projekspan:**

Projekvoorsteller



Tegniese Span



Omgewingsbepaling



#### INHOUD

1. Doel van hierdie dokument
2. Agtergrond en inleiding
3. Projekbeskrywing
4. Omgewingsbepalings
5. Kontakbesonderhede

## 1. DOEL VAN HIERDIE DOKUMENT

Die doel van hierdie **Agtergrondinligtingsdokument** (AID) is as volg:

1. Dit dien as 'n oorsig van die voorgenome opgradering van die Vaal Gamagara Streek Watervoorsiening Skema (hierna VGRWSS) Fase 2 en die ontwikkeling van grondwaterbronne;
2. Dit bied 'n uiteensetting van die omgewingsbepalings wat vir die projek onderneem sal word; en
3. Dit bied die geleentheid om as 'n Belanghebbende en Geaffekteerde Party (B&GP) te registreer en maak voorsiening om kommentaar oor die voorgenome projek te lewer (verwys na die aangehegte Terugvoeringsvorm).

## 2. AGTERGROND EN INLEIDING

Die VGRWSS in die Noord-Kaapse Provinsie is deur die Departement van Water en Sanitasie, wat vroeër bekend gestaan het as die Departement van Waterwese, in 1968 voltooi. Die skema is deur Sedibeng Water in 2007 oorgee. Water word vanaf Delporthoop by die Vaalrivier (60km noord-wes van Kimberley) via Postmasburg na die ystererts myne in Kathu oorgedra deur die bestaande skema. Van daar af lewer 'n pyplyn verder water aan die mangaan myne by Hotazel en uiteindelik tot by Black Rock.

Die skema bestaan uit 'n watersuiweringswerke wat 13.27 miljoen m<sup>3</sup>/jaar water kan suiwer, pompe, 11 reservoirs en 370km pypleiding wat drinkbare water aan verbruikers lewer. Die pypleiding, met 'n kapasiteit van ongeveer 15 miljoen m<sup>3</sup>/jaar, dra water oor na die D41J en D41K opvangsgebiede. Die water word tot 28 miljoen m<sup>3</sup>/jaar aangevul deur ontwatering aktiwiteite by die Kolomela, Beeshoek en Sishen myne om die grondwater-vlakke te verminder vir die veilige voortsetting van die mynbedrywighede.

Die bestaande skema word teen volle kapasiteit bedryf en is nie in staat om aan die toenemende toekomstige waterbehoefte te voorsien nie, en om die toenemende onderbrekings in watervoorsiening te hanteer nie. Die ystererts en mangaan mynbedrywighede dien as die hoof dryfkrag vir die toenemende wateraanvraag. Dié myne van die Noord-Kaap produseer 84% van Suid Afrika se ystererts en 92% van die wêreld se hoë graad mangaan afsettings is geleë in die Kalahari-kom. Diamant- en kalkmyne dra tot 'n mindere mate by tot die wateraanvraag.

Onderbrekings in watervoorsiening weens verouderde infrastruktuur dien as 'n sekondêre faktor tot die opgradering van die skema. Die infrastruktuur is 50 jaar oud en bereik die einde van die bruikbare lewensduur.

## 3. PROJEKBESKRYWING

'n Uitvoerbaarheidstudie vir die opknapping/opgradering van die VGRWSS, gebaseer op die wateraanvraag tot 2030, was in Augustus 2011 voltooi. Konstruksie vind tans op Fase 1 van die projek plaas. 'n Herberekening van die wateraanvraag en infrastruktuur-opsies, gebaseer op die wateraanvraag tot 2043, was as deel van Fase 2 onderneem. Die AID fokus verder slegs op Fase 2.

### 3.1 PROJEKLIIGING

Die VGRWSS Fase 2 begin by die Delportshoop watersuiweringswerke van waar die roete verby Ulco, Lime Acres en Postmasburg loop voordat dit in Olifantshoek eindig (sien **Figuur 3**).

**Tabel 1** dui die munisipaliteite aan waarin die projek geleë is.

**Tabel 1: Munisipaliteite**

Distrik Munisipaliteit (DM)	Plaaslike Munisipaliteit (PM)
Frances Baard DM	Dikgatlong PM
ZF Mgcawu DM	Kgatelopele PM & Tsantsabane PM
John Taolo Gaetsewe DM	Gamagara PM

### 3.2 PROJEKINFRASTRUKTUUR

Hieronder volg 'n oorsig van die projek-komponente wat met VGRWSS Fase 2 verband hou, sowel as die beplande ontwikkeling van grondwaterbronne.

#### 3.2.1 Wateronttrekkingswerke

Meganiese en elektriese opgradering van die onttrekkingswerke by Delportshoop (sien **Figuur 1**) word benodig.



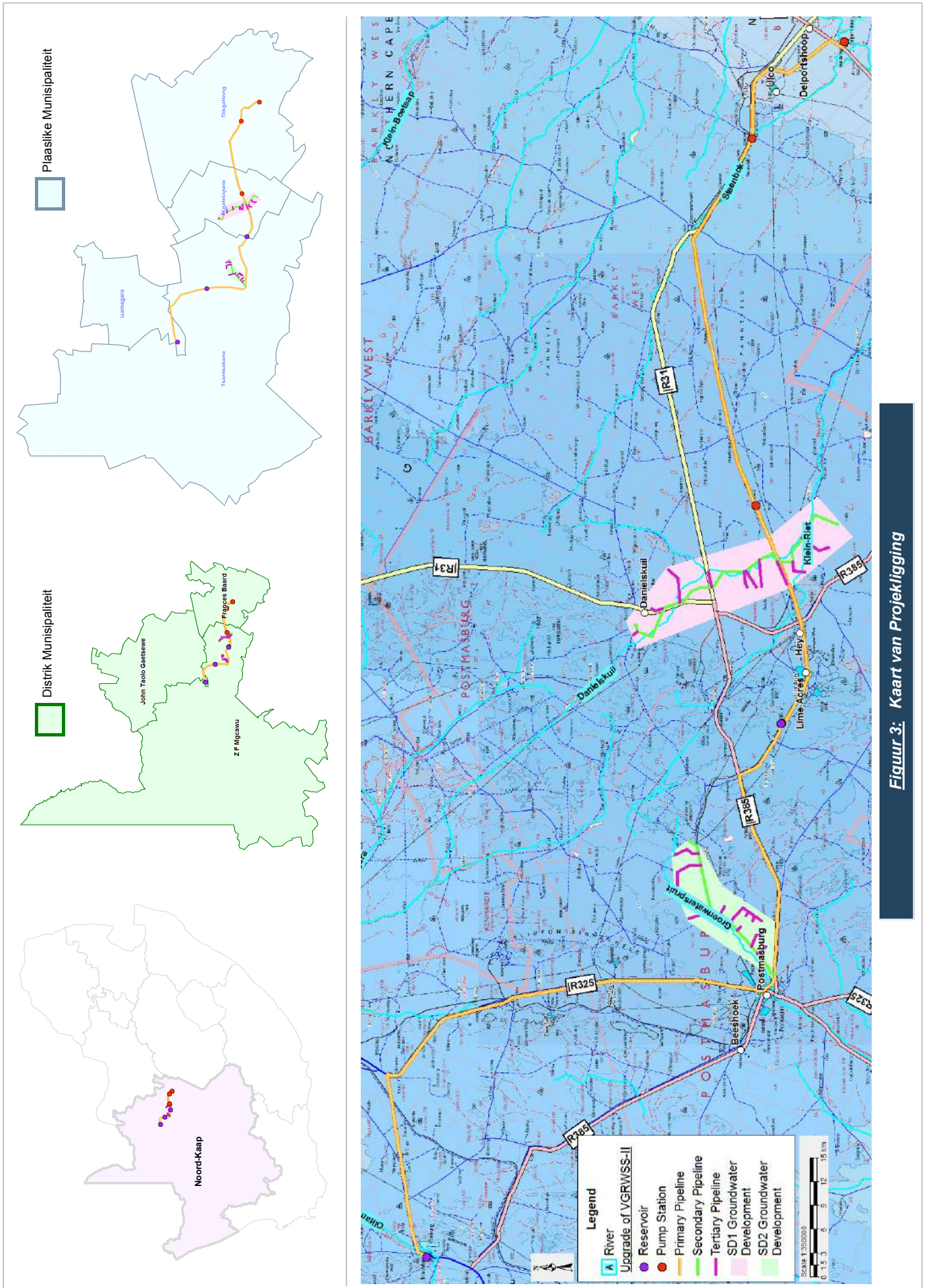
**Figuur 1: Delportshoop onttrekkingswerke op die Vaalrivier**

#### 3.2.2 Watersuiweringswerke

Die kapasiteit van die watersuiweringswerke by Delportshoop (sien **Figuur 2**) kan 36.37 ML/dag (13.27 miljoen m<sup>3</sup>/jaar) suiwer. Dit word nie huidiglik beplan om die infrastruktuur by die suiweringswerke op te gradeer nie. Voorsiening is gemaak vir die opknapping van pypwerk en herstel van geboue. Die omvang van die suiweringswerke sal dieselfde bly.



**Figuur 2: Delportshoop suiweringswerke**



**Figuur 3: Kaart van Projekligging**

**LW:** Gedetailleerde kaarte is beskikbaar met versoek.

### 3.2.3 Pyplyn

Water word vanaf die Delportshoop watersuiweringswerke via 'n 20km lang pyplyn (met 687mm deursnee) tot by die Kneukel sinkput en pompstasie gepomp. Die water word dan via 'n 48km lang pyplyn (met 687mm deursnee) tot by die Trewill sinkput en pompstasie gepomp. Hiervandaan word die water via 'n 29km lang pyplyn (met 508mm deursnee) tot by die Clifton reservoirs gepomp. Water word dan in 'n 36.6km lang pyplyn (met 762mm deursnee) en 'n 23.5km lang pyplyn (met 660mm deursnee) tot by die Gloucester reservoir onder gravitasie gevoer. Die Gloucester reservoir dien as 'n drukbreekreservoir. Vanaf Gloucester word water onder gravitasie na die res van die skema oordra, wat uit 'n 27.1km lang pyplyn (met 900mm deursnee) na die Olifantshoek vertakking en daarna 'n 23.5km lang pyplyn (met 254mm deursnee) na Olifantshoek bestaan.

Die uitvoerbaarheidstudie (2011) en die addendum tot die uitvoerbaarheidstudie (2014) het verskeie opsies vir die opknapping/vervanging van die pypleidings vir Fase 2 ondersoek. Die beplande omvang met betrekking tot die pypleidings, gebaseer op die aanbevelings vervat in die voorafgenoemde verslae, is as volg:

- ◆ Vervanging van die pyplyn vanaf die Beeshoek aansluiting tot Roscoe;
- ◆ Vervanging van die pyplyn tussen Clifton en Beeshoek aansluiting;
- ◆ Vervanging van die styghoofleiding vanaf Delportshoop tot Kneukel;
- ◆ Vervanging van die styghoofleiding vanaf Kneukel tot Trewill;
- ◆ Vervanging van die styghoofleiding vanaf Trewill tot Clifton; en
- ◆ Opknapping van die gravitasiepyplyn vanaf Roscoe tot Olifantshoek.

Die opknapping/vervanging van die bogemelde pypleidings sal binne die bestaande serwituut plaas vind en die bestaande pyplyne sal buite diens gestel word. Dit word verwag dat die konstruksie-serwituut (tydelik) 40m wyd sal wees. **Figuur 4** bevat verskeie uitsigte van die bestaande pyplynserwituut.



***Figuur 4: Uitsigte van die bestaande pyplynserwituut***

### 3.2.4 Pompstasies

Meganiese en elektriese opgradering van die pompstasies by Delportshoop, Kneukel (sien **Figuur 5**) en Trewill word benodig. Die omvang van die pompstasies sal dieselfde bly.



**Figuur 5:** Kneukel Pompstasie en sinkput

### 3.2.5 Reservoirs

'n 10Ml reservoir wat geleë is by die watersuiweringswerke se terrein dien as 'n sinkput vir die Delportshoop Pompstasie. Twee identiese 0.9Ml sinkputte is geleë by die Kneukel en Trewill Pompstasies. Die Clifton Reservoirs (sien **Figuur 6**) is 98km vanaf Delportshoop, langs die pypleiding, geleë en bestaan uit vier identiese strukture met 'n totale stoorvolume van 27Ml. Die Gloucester Reservoir, met 'n kapasiteit van 6.75Ml, is 60km vanaf die Clifton Reservoirs geleë. Die Olifantshoek Reservoir, met 'n kapasiteit van 3Ml, is 23km vanaf Roscoe geleë.

Die opgradering van die Clifton en Gloucester Reservoirs, sowel as die Trewill en Kneukel Sinkputte, word deur die projek beplan. Die omvang van die reservoirs mag ook vergroot word.



**Figuur 6:** Clifton Reservoirs

### 3.2.6 Ontwikkeling van grondwaterbronne

Die Rekonsiliasie-strategie en Watermeesterplanstudie vir die VGRWSS het die moontlikheid van die aanvulling van die watervoorrade deur beskikbare grondwaterbronne uitgelig. Die areas met ontginbare grondwaterpotensiaal staan bekend as Bron-ontwikkelings- (BO) gebiede.

Volgens die potensiaal van die grondwaterbronne asook die watertekort van die skema was daar drie grondwater BO gebiede geïdentifiseer, naamlik BO1, BO2 en BO4. Hierdie AID fokus verder slegs op BO1 en BO2 (sien **Figuur 3**). **Tabel 2** wys die grondwater opbrengste vir dié twee onderskeie gebiede.

**Tabel 2:** Grondwater opbrengste vir BO1 en BO2

Grondwaterbron	Langtermyn opbrengste		Lang- en korttermyn opbrengste	
	m <sup>3</sup> /jaar	ℓ/s	m <sup>3</sup> /jaar	ℓ/s
BO1 (Danielskuil gebied)	5 329 584	169	6 643 584	210
BO2 (Postmasburg gebied)	3 689 712	117	5 497 776	174
Totaal	9 019 296	286	12 141 360	384

### 3.2.7 Leengroewe

Konstruksiemateriaal word vanaf ongeveer 20 leengroewe benodig wat in 10km intervalle langs die pyplyn beplan word om vervoer afstande te beperk. Volgens beraming sal elke leengroef omtrent 600 000 m<sup>3</sup> groot wees. Die ligging van elke leengroef sal eers bepaal word nadat die geotegniese ondersoek voltooi is.

## 4. OMGEWINGSBEPALINGS

### 4.1 Omgewingsregsraamwerk

Die vernaamste wetgewing en verbandhoudende omgewingsbepalings vir die voorgestelde projek word in **Tabel 3** gelys. Die bevoegde owerhede vir die onderskeie prosesse word ook aangedui.

**Tabel 3: Omgewingswetgewing en verbandhoudende assesserings**

	Projek-komponent	NWOB <sup>1</sup>	WMPHO <sup>2</sup>	NWW <sup>3</sup>
1	Opgradering van VGRWSS Fase 2	Basiese Bepaling – aansoek by Departement van Omgewingsake (DOS)	-	Waterverbruik Magtigingsproses – aansoek by Departement van Water en Sanitasie (DWS)
2	BO1 & BO2 Grondwater Onttrekking	Basiese Bepaling – aansoek by DOS	-	
3	Leengroewe	Omvangsbepaling en Omgewingsimpakbepaling (OIB) – aansoek by Departement van Minerale Hulpbronne (DMH)		

1 - Nasionale Wet op Omgewingsbestuur (Wet Nr. 107 van 1998)

2 - Wet op Minerale- en Petroleumhulpbronontwikkeling (Wet Nr. 28 van 2002)

3 - Nasionale Waterwet (Wet Nr. 36 van 1998)

Daar is verskeie ander wetgewing en gemagtigde owerhede wat beheer uitoefen oor spesifieke temas wat met omgewingsbestuur (bv. afval, lugkwaliteit, ens.) en omgewingskenmerke (bv. erfenis, biodiversiteit, ens.) verband hou. Dié wetgewing sal tydens die omgewingsbepalings verder in ag geneem word.

Nemai Consulting is as die omgewingsbepalingspraktisyn aangestel om die nodige omgewingsbepalings vir die projek te onderneem.

### 4.2 Omgewingsimpakbepaling Regulasies van 2014 (soos gewysig)

Op grond van die gelyste aktiwiteite wat deur die opgradering van VGRWSS Fase 2 sowel as die BO1 en BO2 Grondwater Onttrekking genoodsaak word, sal aparte Basiese Bepalings (sien **Figuur 7**) uitgevoer word.

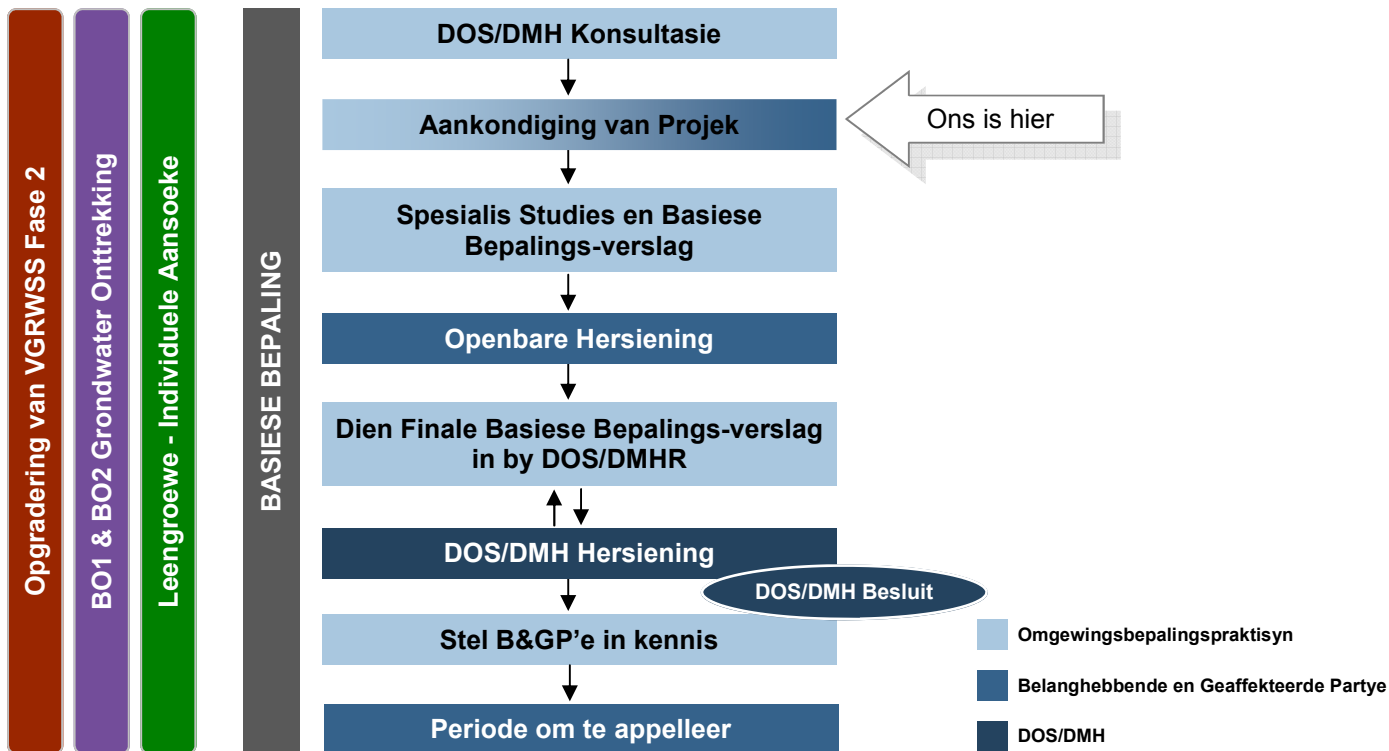
Die benadering tot die aansoek vir Omgewingsmagtiging vir die voorgestelde leengroewe mag aparte aansoeke vir Basiese Bepalings (sien **Figuur 7**) vir individuele terreine behels, of 'n gekombineerde aansoek vir 'n Omvangsbepaling en OIB-proses (sien **Figuur 8**) vir al die leengroewe behels. Die benadering sal nog met die DMH bevestig word sodra die geotegniese ondersoek voltooi is.

The bogemelde prosesse sal ingevolge Staatskennisgewing nr. R. 982 van 4 Desember 2014 (soos gewysig) uitgevoer word.

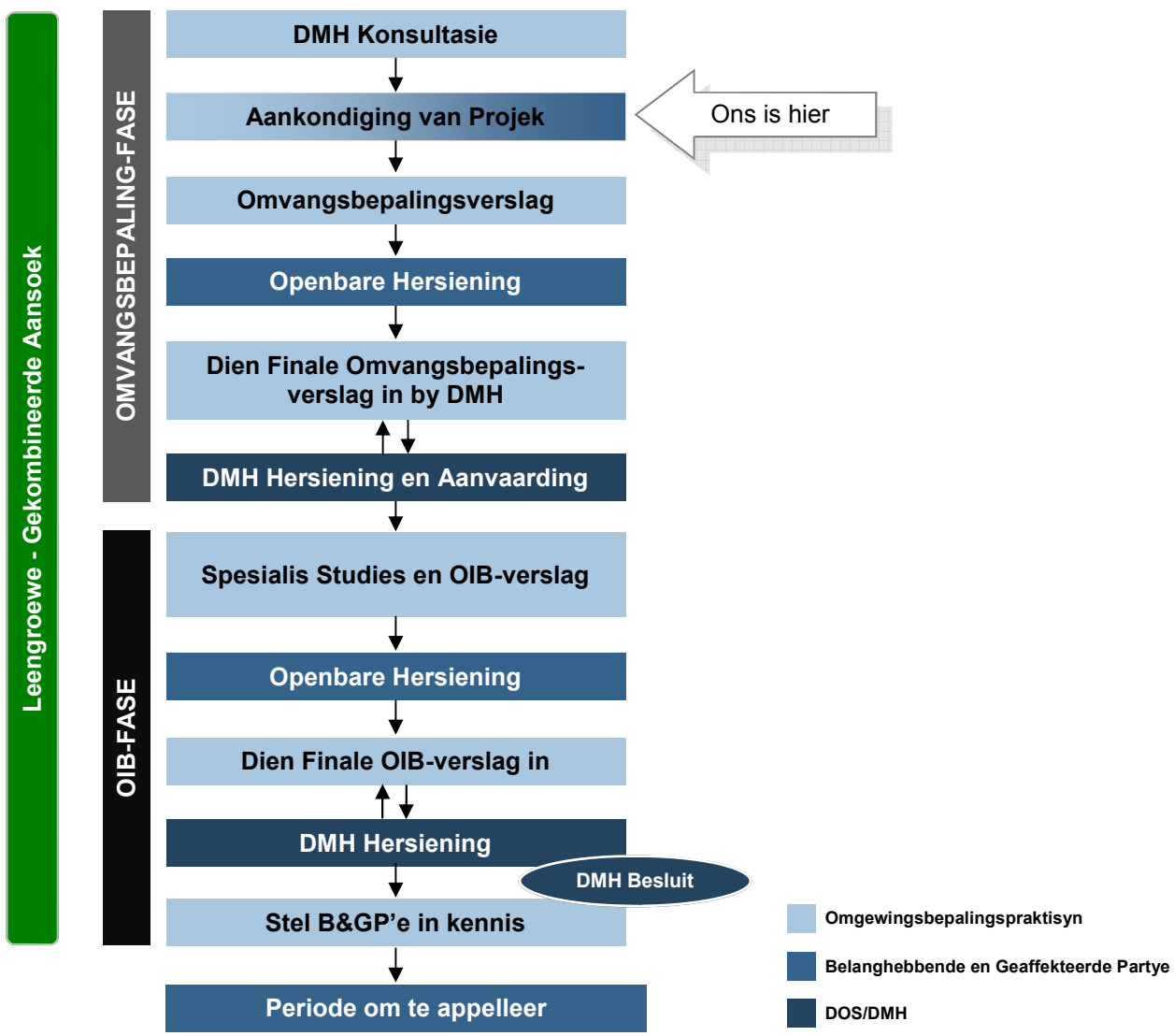
### 4.3 Waterverbruik Magtigingsproses

Magtiging word vanaf DWS vir die volgende waterverbruike benodig, ingevolge Artikel 21 van die NWW:

- Artikel 21(a) (die neem van water vanuit 'n waterhulpbron) - BO1 en BO2 grondwater onttrekking;
- Artikel 21(b) (die opgaan van water) - nuwe reservoirs geassosieer met BO1 en BO2 grondwater onttrekking; en
- Artikel 21(c) (die belemmering of die wegkeer van die vloei van water in 'n waterloop) en Artikel 21(i) (die verandering van die bedding, walle, loop of kenmerke van 'n waterloop) - konstruksiewerk vir alle projek-komponente binne die gereguleerde area van waterlope.



**Figuur 7: Oorsig van Basiëse Bepalings-proses**



**Figuur 8: Oorsig van Omvangsbepaling en OIB-proses**

## 4.4 SPESIALISSTUDIES

Insae vanaf spesialiste word gewoonlik benodig om moontlike noemenswaardige impakte op spesifieke omgewings-kenmerke te assesser. Op hierdie stadium is die volgende omgewingspesialisstudies geïdentifiseer:

- Aard- ekologiese impakassessering;
- Erfenisimpakassessering;
- Rivierimpakassessering en afbeelding;
- Grondwater assessering;
- Landbou-impakassessering; en
- Sosio-ekonomiese impakassessering.

Addisionele studies mag nog met die verloop van die omgewingsbepalings geïdentifiseer word. Tegnieiese studies wat as deel van die uitvoerbaarheidstudie onderneem was sal ook in ag geneem word.

## 4.5 OPENBARE DEELNAME

### 4.5.1 Oorsig van Openbare Deelname-proses

Openbare deelname sal ingevolge Hoofstuk 6 van die OIB-regulasies van 2014 (soos gewysig) onderneem word. Sommige van die sleutelaksies wat as deel van die openbare deelname-proses uitgevoer dal word sluit die volgende in:

- Stel saam 'n databasis van owerhede en B&GP'e;
- Kondig die projek aan;
- Voorsien kennisgewing aan owerhede en B&GP'e;
- Voorsien geleentheid om kommentaar te lewer op die omgewingsbepalings-verslae oor 'n periode van 30 dae; en
- Stel owerhede en B&GP'e in kennis van die besluit en verduidelik die proses om te appelleer.

### 4.5.2 Registrasie as 'n B&GP

Voltooi asseblief die meegaande Terugvoeringsvorm en stuur dit teen **6 Mei 2019** terug na Nemaï Consulting om as 'n B&GP te registreer en om enige kommentaar of bekommernisse te opper.

### 4.5.3 Openbare Vergaderings

Die openbare vergaderings wat in **Tabel 4** gelys is, is geskeduleer, en die doelwitte van hierdie vergaderings sluit die volgende in:

- Om die projek te verduidelik;
- Om 'n oorsig van die omgewingsbepalings-prosesse te gee;
- Om 'n platform vir projekverwante besprekings te bied; en
- Om insette van B&GP'e te verkry.

**Tabel 4: Besonderhede van openbare vergaderings - Aankondigings-fase**

Datum	9 April 2019		10 April 2019	
Area	Delportshoop	Lime Acres	Postmasburg	Olifantshoek
Tyd	09h30 – 12h00	14h30 – 17h00	09h00 - 11h30	14h00 - 16h30
Lokaal	Tsholofelo Saal, Tidimalo, Delportshoop	Kgatelopele Munisipale Stadsaal, Barker Straat 222, Danielskuil	Postmasburg NG Kerk Sentrum, Duiker Straat 12, Postmasburg	Diepkloof Gemeenskap-saal, Kagiso Straat/Toto Straat, Olifantshoek

Toegespitste vergaderings kan ook met grondeienaars, owerhede en B&GP'e met verloop van die omgewingsbepalings gehou word (soos nodig), wat afsonderlik gereël sal word.

## 5. KONTAKBESONDERHEDE

Vir enige navrae betreffende die projek, kontak asseblief die onderstaande omgewingsbepalingspraktisyn:



**Kontakpersoon:** Donavan Henning  
**Tel:** (011) 781 1730  
**Faks:** (011) 781 1731  
**E-pos:** donavanh@nemaï.co.za  
**Posadres:** PO Box 1673, Sunninghill, 2157



## APPENDIX E3

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PROOF OF NEWSPAPER ADVERTS

KIMBERLEY

# T&S Klub atlete presteer

Op Donderdag 21 Februarie 2019 het van Kathu T&S (tweekamp & swem) klub se tweekamp atlete gaan deelneem aan die Griekwaland-Wes kampioenskappe in Kimberley.

Na afloop van die byeenkoms is die Griekwaland-Wes span wat die provinsie by die SA kampioenskappe gaan verteenwoordig aangekondig. 'n Totaal van 17 atlete het gekwalifiseer vir die SA kampioenskappe wat plaasvind op 29 en 30 Maart 2019 in Port Elizabeth.

Die volgende atlete het medaljes gewen: Mieke Theron 0/9 trofee wenner, LicheMarie Burger 0/11 silwer medalje, Divan Theron 0/13 silwer medalje, SP Griessel 0/17 silwer medalje, Sharike Rossouw 0/13 silwer medalje, Thys Rossouw veterane brons medalje. SP Griessel is ook as die kaptein van die Griekwaland-Wes span gekies.

Baie geluk aan al hierdie atlete en sterkte vir die SA byeenkoms.



Tweekamp atlete van die Kathu T&S klub wat deelgeneem het aan die Griekwaland-Wes kampioenskappe in Kimberley.



KATHU

# Bedanking seremonie

Die Kwaggas rugbyspan van Laerskool Kathu het 'n amptelike klere oorhandiging seremonie gehad.

Dit was 'n pragtige aand aangebied deur die afrigters Mnr Bennie en Mnr JP.

Baie dankie vir die "awesome" trui, broeke, sakke en opwarmings hemde wat vir Laerskool Kathu geborg is deur Mnr Cloete van DKA Enterprises.

Dankie aan Tannie Annerie van den Berg wat die rugby seuns bederf het met heerlike snoepakkies en vetkoeke vir almal.



Die sport klere wat deur Mnr Cloete van DKA Enterprises geborg is.

Die kreatiewe tafel en vetkoeke wat Tannie Annerie van den Berg voorberei het.

## NOTICE OF ENVIRONMENTAL ASSESSMENT

### PROPOSED UPGRADING OF THE VAAL GAMAGARA REGIONAL WATER SUPPLY SCHEME PHASE 2

Notice is hereby given in terms of the following:

- The Environmental Impact Assessment (EIA) Regulations of 2014 (as amended), in terms of the National Environmental Management Act (Act No. 107 of 1998) (NEMA);
- The Mineral and Petroleum Resources Development Act (Act No. 28 of 2002) (MPRDA); and
- The National Water Act (Act No. 36 of 1998) (NWA).

#### PROJECT OVERVIEW:

The Vaal Gamagara Regional Water Supply Scheme (VGRWSS) is located in the Northern Cape Province and was completed in 1968. The existing scheme transfers water from Delpportshoop on the Vaal River (60km to the north west of Kimberley) via Postmasburg to the iron ore mines at Kathu. From Kathu, a pipeline continues to the manganese mines at Hotazel and finally terminates at Black Rock.

The current scheme is operating at capacity and is not able to supply the increasing future water demands, and deal with the increasing water supply interruptions. In addition, the infrastructure is nearing the end of its useful life.

Sedibeng Water has thus proposed the upgrading of the VGRWSS, which consists of the following:

- Mechanical and electrical upgrading of the abstraction works at Delpportshoop;
- Refurbishment on pipework and repairs to buildings at the Delpportshoop water treatment works;
- Replacing / refurbishing approximately 210km of the existing pipeline from Delpportshoop to Olifantshoek;
- Mechanical and electrical upgrading of the pump stations at Delpportshoop, Kneukel and Trewill; and
- Upgrading of the Clifton and Gloucester Reservoirs, as well as the Trewill and Kneukel Sumps.

Construction material will also need to be sourced from approximately 20 borrow pits that will be located at 10km intervals along the pipeline.

In addition, it is proposed to abstract groundwater at the following well sites to augment the existing VGRWSS:

- Source Development Area (SD) 1 in the Danielskuil area; and
- SD2 in the Postmasburg area.

#### ENVIRONMENTAL ASSESSMENTS:

Nemai Consulting was appointed by Sedibeng Water to undertake the following environmental assessments for the project:

Project Component	NEMA	MPRDA	NWA
1 Upgrade of VGRWSS Phase 2	Basic Assessment – application to Department of Environmental Affairs (DEA)	-	Water Use Authorisation Process – application to Department of Water and Sanitation (DWS)
2 SD1 & SD2 Groundwater Abstraction	Basic Assessment – application to DEA	-	
3 Borrow Pits	Scoping & EIA – application to Department of Mineral Resources (DMR)	-	

#### PUBLIC MEETINGS:

The following public meetings will be held to discuss the proposed project:

Date	9 April 2019		10 April 2019	
	Delpportshoop	Lime Acres	Postmasburg	Olifantshoek
Time	09:30 – 12:00	14:30 – 17:00	09:00 – 11:30	14:00 – 16:30
Venue	Tsholofelo Hall, Tidimalo, Delpportshoop	Kgatelopele Municipal Town Hall, 222 Barker Street, Danielskuil	Postmasburg NG Kerk Church Centre, 12 Duiker Street, Postmasburg	Diepkloof Community Hall, Kagiso Street/Toto Street, Olifantshoek

#### CONTACT DETAILS OF ENVIRONMENTAL ASSESSMENT PRACTITIONER:

Contact Person: Donovan Henning  
 Tel: (011) 781 1730  
 Fax: (011) 781 1731  
 Email: donavanh@nemai.co.za  
 Postal Address: PO Box 1673, Sunninghill, 2157

#### REGISTRATION AS AN INTERESTED AND AFFECTED PARTY:

In order to ensure that you are registered as an Interested and Affected Party, please submit your name, contact information and interest in the matter to the contact person above by 6 May 2019.



KUMBA IRON ORE

### REQUEST FOR INFORMATION (RFI)

Existing Northern Cape based **MEDICAL, EMERGENCY, FIRE AND RESCUE, HEALTH PROFESSION SERVICE PROVIDERS** are hereby requested to submit their company details for **Sishen Mine and Kolomela Mine**.

The service provider/s should have the ability, equipment and be qualified in the following fields to be able to perform the following:

- Kolomela Mine** - Occupational health medical surveillance examinations in compliance to MHSA, OHSA, COIDA, ODMWA and all other relevant legislation & guidelines, injury on duty (IOD) management, Primary Health Care (including Casualty), Emergency fire and rescue, Chronic disease & Wellness screening and management (including HIV & TB), Rehabilitation and functional assessment (RFA).
- Sishen Mine** - Ambulance & paramedic services.

Please submit the following documents:

- Company profile
- Proof of bank account
- BBBEE certificate/ sworn affidavit for EME/ QSE confirming annual turnover and level of black ownership
- Tax clearance certificate
- Letter of good standing
- Company registration form (CIPRO)
- VAT Registration (if applicable)
- Proof of registration at HPCSA

It is compulsory to register by sending your company profile and relevant documents as listed above to [knoeth@bwlog.com](mailto:knoeth@bwlog.com) by no later than **12 April 2019 at 12h00**. Please indicate "MEDICAL, EMERGENCY FIRE AND RESCUE, HEALTH PROFESSION SERVICE PROVIDERS" in the subject field of the submission.

Profiles and supporting documentation will be reviewed in line with Kumba's Preferential Procurement Standard procedures and preference will be given to **local and small qualifying businesses with 51% or more black ownership** residing and operating their business under the following local municipalities in the Northern Cape:

- Gamagara,
- Ga-Segonyane,
- Joe Morolong,
- Tsantsabane,
- Kgatelopele and
- Griekwastad

#### KUMBA SUPPLY CHAIN

**Legals**

**702 Creditors/Debtors**

In die Boedel van wyle YVONNE RUTH MUCKLE, identiteitsnommer 500826 0078 082, weduwe, woonagtig te Leanderstraat 18, Herlear, Kimberley, 8301, wie oorlede is op 7 Augustus 2018.  
**Boedelnr 2946/2018**  
 Alle debiteure en krediteure in die bogenoemde Boedel word hiermee opge-roep om binne 'n tydperk van 30 dae na publikasie van hierdie advertensie hulle eise in te dien en hulle skulde te betaal by die onderstaande adres van die adverteerder.  
**FABER PROKUREURS,** Andries Pretorius-straat 3, Posbus 46, Jacobsdal, 8710.

**703 First/Final Notices**

In the Estate of the late CLARA LEKONE, identity number 630629 0230 080, major female, married in community of property to Siphos Paulus Lekone, identity number 621104 5733 083, who died on 29 August 2009, of 14 Garrick Street, Homelite, Kimberley.  
**Estate No 210/2018**  
 The First and Final Liquidation and Distribution Account in the above Estate will lie for inspection at the offices of the Master of the High Court, Sol Plaatje Avenue, Kimberley, for a period of 21 (twenty one) days from the date of publication hereof. Dated at Kimberley on 15 March 2019.  
**ENGELSMAN, MAGABANE INC,** Attorneys for Executor, PO Box 609, Kimberley, 8300.

**703 First/Final Notices**

In the Estate of the late BAREND JACOBUS BRITS, identity number 611005 5043 088, major male, married in community of property to Magaretha Sussanna Brits, identity number 610811 0022 089, who died on 27 July 2018, of 7 Jeremy Street, Hadison Park, Kimberley.  
**Estate No 2963/2018**  
 The First and Final Liquidation and Distribution Account in the above Estate will lie for inspection at the offices of the Master of the High Court, Sol Plaatje Avenue, Kimberley, for a period of 21 (twenty one) days from the date of publication hereof. Dated at Kimberley on 15 March 2019.  
**ENGELSMAN, MAGABANE INC,** Attorneys for Executor, PO Box 609, Kimberley, 8300.

**703 First/Final Notices**

In the Estate of the late WILLEM ABRAHAM VAN ZYL, identity number 340118 5005 086, married in community of property to Heila Johanna van Zyl, identity number 370712 0008 088, whom resided at 13 Karee Street, Barkly West and died on 29 January 2017.  
**Estate No 001610/2017**  
 The First and Final Liquidation and Distribution Account in the above Estate will lie for inspection at the Master Office, of the High Court, Kimberley, Northern Cape, and the Magistrate's Court, 9 Transvaal Road, Barkly West, Northern Cape, for a period of 21 (twenty one) days from the date of publication hereof, namely 29 March 2019.  
 Dated at Barkly West on this 29th day of March 2019.  
**J A VAN NIEKERK ATTORNEYS,** Agent for Executrix, Heila Johanna van Zyl, 7 Campbell Street, PO Box 100, Barkly West, 8375. Tel (053) 531-0678/9, Fax (053) 531-0679.  
 Ref: JAV/VH/216/061

**703 First/Final Notices**

In the Estate of the late JACOBUS CHRISTOFFEL SWANEPOEL, identity number 430421 5081 086, married in community of property to Elizabeth Magrietha Swanepoel, identity number 560325 0054 083, residing at 64 Innes Street, De Beers, Kimberley. Date of death 21 June 2018.  
**Estate No 002559/2018**  
 The First and Final Liquidation and Distribution Account in the above Estate will lie for inspection for a period of 21 (twenty one) days at the office of the Master of the High Court, Kimberley from date of publication thereof. Dated at Kimberley on 19th day of March 2019.  
**AM KAZIE,** Executor Testamentary, PO Box 1684, Kimberley. Tel (053) 831-2870 fax (053) 831-5280.

**703 First/Final Notices**

In the Estate of the late CORNELIA EDNA MANUEL, identity number 460630 0150 083, major female, married in community of property to Wilfred Dennis Easton, identity number 440409 5138 087, who died on 5 December 2017, of 30 Karee Street, Floors, Kimberley.  
**Estate No 1048/2018**  
 The First and Final Liquidation and Distribution Account in the above Estate will lie for inspection at the offices of the Master of the High Court, Sol Plaatje Avenue, Kimberley, for a period of 21 (twenty one) days from the date of publication hereof. Dated at Kimberley on 11 March 2019.  
**ENGELSMAN, MAGABANE INC,** Attorneys for Executor, PO Box 609, Kimberley, 8300.

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**EPILEPSY SOUTH AFRICA**

If you believe in me, I can realise my full potential.

Sarah has epilepsy, but she also has BIG dreams! She can reach her full potential if everyone in her direct environment understands her epilepsy. If they understand her epilepsy, Sarah will be able to flourish in a loving, discrimination-free environment. Go to [www.epilepsy.org.za](http://www.epilepsy.org.za) to understand more about epilepsy, and to help children with epilepsy reach their full potential.

**DFA Auctions**

**780 Auctions**

**AP van der Walt Afslaaers VEILING IN OPDRAG VAN DIE ONTVANGER VAN DIE GEMEENSKAPLIKE BOEDEL, WORD DIE VOLGENDE OPENBARE VEILING AANGEBIED:**

**Onroerende eiendom:**  
 • Jabulastraat 22147, Galeshewe (Erf 22147, Galeshewe)

**Datum van Veiling: Vrydag, 5 April 2019**  
**Plek: Jabulastraat 22147, Galeshewe**  
**Tyd: 10:00**

**VOORWAARDES:**  
 1. 8% Afslaaerskommissie onmiddellik na afloop van veiling;  
 2. 10% deposito op koopsom onmiddellik na afloop van veiling;  
 3. Verkoper verder voetstoots; en  
 4. Verkoper verantwoordelik vir uitstaande munisipale kostes plus elektrisiteitsertifikaat.

**KONTAK PERSOON:**  
 • AP van der Walt  
 Tel nr: 082-788-0410

**711 Public Notices**

**Notice of Environmental Assessment Proposed Upgrading of the Vaal Gamagara Regional Water Supply Scheme Phase 2**

Notice is hereby given in terms of the following:

- The Environmental Impact Assessment (EIA) Regulations of 2014 (as amended), in terms of the National Environmental Management Act (Act No 107 of 1998) (NEMA);
- The Mineral and Petroleum Resources Development Act (Act No 28 of 2002) (MPRDA); and
- The National Water Act (Act No 36 of 1998) (NWA).

**Project Overview:**  
 The Vaal Gamagara Regional Water Supply Scheme (VGRWSS) is located in the Northern Cape Province and was completed in 1968. The existing scheme transfers water from Delpportshoop on the Vaal River (60 km to the north-west of Kimberley) via Postmasburg to the iron ore mines at Kathu. From Kathu, a pipeline continues to the manganese mines at Hotazel and finally terminates at Black Rock.  
 The current scheme is operating at capacity and is not able to supply the increasing future water demands, and deal with the increasing water supply interruptions. In addition, the infrastructure is nearing the end of its useful life. Sedibeng Water has thus proposed the upgrading of the VGRWSS, which consists of the following:

- Mechanical and electrical upgrading of the abstraction works at Delpportshoop;
- Refurbishment on pipework and repairs to buildings at the Delpportshoop water treatment works;
- Replacing / refurbishing approximately 210 km of the existing pipeline from Delpportshoop to Olifantshoek;
- Mechanical and electrical upgrading of the pump stations at Delpportshoop, Kneukel and Trewill; and
- Upgrading of the Clifton and Gloucester Reservoirs, as well as the Trewill and Kneukel Sumps.

Construction material will also need to be sourced from approximately 20 borrow pits that will be located at 10 km intervals along the pipeline.  
 In addition, it is proposed to abstract groundwater at the following well sites to augment the existing VGRWSS:

- Source Development Area (SD) 1 in the Danielskuil area; and
- SD2 in the Postmasburg area.

**Environmental Assessments:**  
 Nemai Consulting was appointed by Sedibeng Water to undertake the following environmental assessments for the project:

Project Component	NEMA	MPRDA	NWA
1 Upgrade of VGRWSS Phase 2	Basic Assessment – application to Department of Environmental Affairs (DEA)	–	Water Use Authorisation Process – application to Department of Water and Sanitation (DWS)
2 SD1 & SD2 Groundwater Abstraction	Basic Assessment – application to DEA	–	
3 Borrow Pits	Scoping & EIA – application to Department of Mineral Resources (DMR)		

**Public Meetings:**  
 The following public meetings will be held to discuss the proposed project:

Date	9 April 2019		10 April 2019	
Area	Delpportshoop	Lime Acres	Postmasburg	Olifantshoek
Time	09:30 - 12:00	14:30 - 17:00	09:00 - 11:30	14:00 - 16:30
Venue	Tsholofelo Hall, Tidimalo, Delpportshoop	Kgatelopele Municipal Town Hall, 222 Barker Street, Danielskuil	Postmasburg NG Kerk Church Centre, 12 Duiker Street, Postmasburg	Diepkloof Community Hall, Kagiso Street/Toto Street, Olifantshoek

**Contact Details of Environmental Assessment Practitioner:**  
**Contact Person:** Donavan Henning  
**Tel:** (011) 781 1730 • **Fax:** (011) 781 1731 • **E-mail:** donavanh@nemai.co.za  
**Postal Address:** PO Box 1673, Sunninghill, 2157  
**Registration as an interested and affected party:**  
 In order to ensure that you are registered as an Interested and Affected Party, please submit your name, contact information and interest in the matter to the contact person above by **6 May 2019**.

**VENTER**

Die verassingsdiens van Hester Maria (Hettie) vind plaas uit die Ou Apostoliese Kerk Brandweg, Melvillerylaan, Bloemfontein-Wes, op Vrydag 5 April 2019 om 11:00.

In liefdevolle herinnering sal sy in ons harte bly voortleef. Liefde: Jan, kinders en kleinkinders.

Gebore: 28/05/1952  
Oorlede: 30/03/2019

**EIENDOMME**

**ERWE/STANDPLASE**

**SIYANCUMA MUNICIPALITY / MUNISIPALITEIT**

**VOORGESTELDE ONDERVERDELING EN HERSONERING VAN ERF 2052, BREIPAAL, DOUGLAS.**

KENNIS geskied hiermee dat die Siyancuma Munisipaliteit 'n aansoek ontvang het ooreenstemmend met artikel 3 (2)(i) & (x), saamgelees met artikel 5 en 8 van die munisipale verordeninge, 2015, saamgelees met die Ruimtelike Beplanning en Grondgebruikbestuurswet 16 van 2013.

•Die doel van hierdie aansoek is om die goedkeuring van die Siyancuma Munisipaliteit te verkry vir die sluiting van die publieke oop ruimte, hersonering en onderverdeling van erf 2052 om 51 residensiële erwe, 1 institusionele erf en toegangs- paai te verskaf.

Besonderhede aangaande hierdie aansoek is gedurende kantoorure verkrygbaar by die beplanningsafdeling, mnr. Koos du Plessis, Siyancuma Munisipale Kantoor, Douglas. Besware, indien enige, teen die voorstel, moet skriftelik tesame met redes daarvoor by die bogenoemde ingedien word voor of op Woensdag 24 April 2019.

**PROPOSED SUBDIVISION AND REZONING OF ERF 2052, BREIPAAL, DOUGLAS.**

NOTICE is hereby given that the Siyancuma Municipality has received an application in accordance with Section 3 (2)(i) & (x), read together with section 5 and 8 of the Municipality Land Use Management By-Laws, 2015 read together with the Spatial Planning and Land Use Management Act 16 of 2013.

•The purpose of this application is to obtain the approval of the Siyancuma Municipality for the closure of the public open space, rezoning and subdivision of erf 2052 to provide 51 residential erven, 1 institutional erf and access roads.

Particulars regarding this application can be obtained during office hours from the Planning Section, Mr Koos du Plessis, Siyancuma Municipal Offices, Douglas. Objections, if any, against this application must be lodged in writing with full reasons therefore, to reach the above on or before Wednesday, 24 April 2019.

**Siyancuma Local Municipality  
Charl Cilliers Street  
Civic Centre  
Douglas**

**BETREKKINGS**

**FINANSIEEL**

**BRIDGING CASH** while waiting for pension/package/property sale. Pay-out (Lump sum only). 086 110 1388/084 754 3063.

**REGSKENNISGEWINGS & TENDERS**

**ALGEMENE KENNISGEWINGS**

**Dear member,**  
We notify you that all funeral policies for **Mapoho Cash Funerals and Sebomai Cash Funeral Policies** have been cancelled with Liberty Group Ltd from 1 March 2019. Your policies are now insured with Avbob Insurance. Contact Mapoho or Sebomai to enquire about your new policy terms and conditions. Regards, EUM 012 546 9977 (auth FSP).

**KENNISGEWING VAN OMGEWINGSBEPALING**

**VOORGESTELDE OPGRADERING VAN DIE VAAL GAMAGARA WATERVOORSIENING SKEMA FASE 2**

Hierdie kennisgewing word gegee kragtens die volgende:

•Die Omgewingsimpakbeplanningsregulasies van 2014 (soos gewysig), kragtens die Wet op Nasionale Omgewingsbestuur (Wet Nr. 107 van 1998) (hierna NEMA);  
•Die Wet op die Ontwikkeling van Minerale en Petroleum Hulpbronne (Wet Nr. 28 van 2002) (hierna MPRDA); en  
•Die Nasionale Waterwet (Wet Nr. 36 van 1998) (hierna NWA).

**PROJEKOORSIG:**

Die Vaal Gamagara Streek Watervoorsiening Skema (hierna VGRWSS) in die Noord-Kaap-provinsie is voltooi in 1968. Water word vanaf Delportshoop by die Vaalrivier (60 km noordwes van Kimberley) via Postmasburg na die ysterertsmyne in Kathu oorgedra deur die bestaande skema. Van daar af lewer 'n pyplyn verder water aan die manganmyne by Hotazel en uiteindelik tot by Black Rock.

Die bestaande skema word teen volle kapasiteit bedryf en is nie in staat om aan die toenemende toekomstige waterbehoefte te voorsien nie, en om die toenemende onderbrekings in watervoorsiening te hanteer nie. Die infrastruktuur bereik ook die einde van sy bruikbare lewensduur.

Sedibeng Water beplan dus om die VGRWSS op te gradeer, wat die volgende behels:

1. Meganiese en elektriese opgradering van die ont-trekkingswerke by Delportshoop;
2. Opknapping van pypwerk en herstel van geboue by die Delportshoop-watersuiweringwerke;
3. Vervanging/opknapping van ongeveer 210 km van die bestaande pyplyn vanaf Delportshoop tot Olifantshoek;
4. Meganiese en elektriese opgradering van die pompstasies by Delportshoop, Kneukel en Trewill; en
5. Opgradering van die Clifton en Gloucester Reservoirs, sowel as die Trewill- en Kneukel-sinkputte.

Konstruksiemateriaal word ook benodig vanaf ongeveer 20 leengroewe wat in 10 km intervalle langs die pyplyn beplan word.

Dit word verder beplan om grondwater by die volgende produksieveldgebiede te onttrek om die bestaande VGRWSS aan te vul:

- Bron Ontwikkelings-(BO) gebied 1 in die Daniëlskuil-gebied; en
- BO2 in die Postmasburg-gebied.

**OMGEWINGSBEPALINGS:**

Nemai Consulting is deur Sedibeng Water aangestel om die volgende omgewingsbepalings uit te voer:

1. Opgradering van VGRWSS Fase 2: Basiese Bepaling – aansoek by Departement van Omgewingsake
2. BO1 en BO2 Grondwater Onttrekking: Basiese Bepaling – aansoek by Departement van Omgewingsake
3. Leengroewe: Omvangsbepaling en Omgewingsimpakbeplanning – aansoek by Departement van Minerale Hulpbronne

Waterverbruikmagtigingsproses – aansoek by Departement van Water en Sanitasie -

**OPENBARE VERGADERINGS:**

Die volgende openbare vergaderings sal gehou word om die voorgestelde projek te bespreek:

**Datum:** 9 April 2019  
**Tyd:** 09:30 - 12:00  
**Gebied:** Delportshoop  
**Lokaal:** Tsholofelo Saal, Tidimalo, Delportshoop

**Datum:** 9 April 2019  
**Tyd:** 14:30 - 17:00  
**Gebied:** Lime Acres  
**Lokaal:** Kgatelopele Munisipale Stadsaal, Barkerstraat 222 Daniëlskuil

**Datum:** 10 April 2019  
**Tyd:** 09:00 - 11:30  
**Gebied:** Postmasburg  
**Lokaal:** Postmasburg NG Kerk Sentrum, Duikerstraat 12 Postmasburg

**Datum:** 10 April 2019  
**Tyd:** 09:00 - 11:30  
**Gebied:** Olifantshoek  
**Lokaal:** Diepkloof Gemeenskapsaal, Kagisostraat/Totostraat, Olifantshoek

**KONTAKBESONDERHEDE VAN OMGEWINGSBEPALINGS-PRAKTISYN:**

**Kontakpersoon:** Donavan Henning

**Tel.** 011 781 1730  
**Faks:** 011 781 1731  
**E-pos:** donavanh@nemai.co.za  
**Posadres:** Posbus 1673, Sunninghill 2157

**REGISTRASIE AS BELANGHEBBENDE EN GEAFFEKTEERDE PARTY**

Ten einde te verseker dat u geregistreer word as 'n belanghebbende en geaffekteerde party, stuur asseblief u naam, kontakbesonderhede en belange in die projek aan bogenoemde kontakpersoon teen 6 Mei 2019.



**ASSMANG**  
MANGANESE  
BLACK ROCK MINE OPERATIONS

**ASSMANG Pty Ltd – Manganese Division** requires the services of the following individuals at their Black Rock Mine Operations situated 80km northwest of Kuruman in the Northern Cape.



## TRAINING FACILITATOR (MINING) (5 VACANCIES) (C1 Paterson Grading)

Preference will be given to applicants from previously disadvantaged groups to support the company's employment equity plan.

**Main tasks and responsibilities:** • Facilitate learning and development and conduct assessments for critical tasks according to mining • Conduct facilitation according to operational and legislative requirements • Evaluate the learner satisfaction forms and the quality of learning in order to determine the quality of training • Conduct outcomes-based assessments as per the operational and legislative requirements • Ensure that assessment documents is completed accordingly • Compile daily training reports on progress and challenges • Control the attendance of learners and self to schedule learning events • Ensure equipment for training is maintained, clean and in a safe working condition at all times • Check the PPE of learners and ensure it is fit for purpose • Ensure compliance with standard operating procedures and codes of practice • Comply with work rules, standards and methods • Take care to minimise waste • Provide feedback on optimisation opportunities • Control resources within span to minimise waste • Maintain active and informative relations with all team members and colleagues take remedial actions where necessary • Participate in change initiatives and provide feedback on resistance • Obtain information, check for accuracy and capture data • File documents per procedure • Propose ideas or practical improvements relevant to tasks • Participate in improvement initiatives and lead group discussions to solve problems • Participate in planning process for section • Execute plans within standard • Comply with disciplinary and behavioural rules and procedures • Lead team to sustainable, high performance levels through planning, scheduling, supervision of process/system activities to achieve goals.

**Minimum requirements (essential unless otherwise indicated):** • Grade 12 • National Certificate Occupationally Directed Education Training and Development Practices (Level 4) • Conduct Outcome-based Assessment Certificate (Level 5) • Competent A and B • Certificate: Blasting Assistant • Skills programme Surface or Underground TMM • 3 years' experience in Mechanised Mining • 2 years' training and assessment experience • Valid Code B/EB driver's licence • Must achieve an "A" symbol on the Dover Assessment • System skills- Microsoft Office and Learning Management System.

Interested applicants are requested to submit their CVs with certified copies of qualifications to fax: 086 572 7977, e-mail: recruitment6@brmo.co.za OR at the Main Guardhouse

## TRAINING OFFICER MINING (MODERATOR) (1 VACANCY) (C4 Paterson Grading)

Preference will be given to applicants from previously disadvantaged groups to support the company's employment equity plan.

**Main tasks and responsibilities:** • Moderate and evaluate the complete training cycle and provide support and coaching to the assessors • Submit moderation reports with recommendations as per legal requirements and log non-conformances • Plan and prepare for moderation in accordance with moderation business process • Apply varied methods of moderation • Plan, organise and conduct moderations and ensure a fair and valid assessment process • Conduct regular evaluations on instructors/assessors and coaches to identify developmental areas and understanding of business and legislative requirements • Maintain and manage moderation documentation in accordance with business process and legislative requirements • Report moderation and appeals findings to designated role-players within agreed timeframes and according to the quality assurance body's requirements • Conduct moderation support meetings and follow up on issues raised • Ensure all assessors are registered with the MQA • Monitor and manage assessor performance • Coach, counsel or discipline assessors where appropriate • Apply continuous improvement • Review training material to ensure it reaches operational and legislative requirements • Gather, evaluate, judge, identify trends and record evidence of the assessment process • Liaise and follow up with responsible stakeholders to ensure corrective actions take place • Advise on quality management systems (including planning, staffing, resourcing, training and recording systems and the improvement thereof) in line with the operational and legislative requirements • Review business processes to ensure legislative alignment • Manage and implement a monitoring and evaluation process aligned to the quality management system • Control and assess Quality Management within scope of work to ensure standard adherences • Implement compliance requirements • Communicate compliance changes • Interpret the approved operational plans • Determine how resources and processes must be utilised/applied to achieve the objectives • Mobilise resources to ensure achievement of production targets and objectives • Resolve problems as they are encountered to ensure achievement against plan • Ensure operational plan is implemented • Plan, manage and conduct appeals as per business and legislative requirements • Collect, analyse and evaluate appeal findings and make recommendations to management regarding corrective actions to prevent recurrence • Identify and analyse gaps within the training cycle • Perform trend analysis • Submit monthly reports to management • Liaise with relevant department and standard generating bodies to understand technology developments and its impact on training needs • Ensure compliance with ISO requirements regarding the date and usage of material • Provide relevant support to applicable stakeholders to ensure achievement of objectives • Provide input into budget planning process where required • Monitor and allocate expenses • Motivate team to minimise waste • Assess team expenditure and resolve gaps • Support identification, implementation and development of cost-effective processes • Lead the team to sustainable and high levels of performance through planning, scheduling and supervision of activities within a process or service • Assure stable employee relations by managing conflict and creating a positive working environment.

**Minimum requirements (essential unless otherwise indicated):** • Grade 12 • National Certificate Occupationally Directed Education Training and Development Practices (Level 5) • Certificate: Shift Supervisor • Blasting Certificate for Scheduled Mines • 3 years' post-blasting experience in a mechanised mine • 2 years' training and assessment experience • MQA Moderator/Assessor • Valid Code B/EB driver's licence • Must achieve an "A" symbol on the Dover Assessment.

Interested applicants are requested to submit their CVs with certified copies of qualifications to fax: 086 572 7977, e-mail: recruitment7@brmo.co.za OR at the Main Guardhouse.

## TRAINING OFFICER MINING (1 VACANCY) (C4 Paterson Grading)

Preference will be given to applicants from previously disadvantaged groups to support the company's employment equity plan.

**Main tasks and responsibilities:** • Provide planning, develop and deliver training interventions • Determine training needs and standards in accordance with legislative requirements, national and industry standards • Liaise with Line Management within a Section and arrange to align training material with operational requirements • Maintain training matrix – needs and competencies on mining and TMMs • Monitor training material to ensure alignment with legislative standards and industry best practice • Ensure compliance with ISO 9001/2008 certification standards • Conduct on-site and off-site moderation on registered assessors • Ensure the correct material (PPE, stationary, learning material) are ordered to prohibit shortfalls • Comply with training budget to prevent over-expenditure for training department • Control facilitators' and coaches' daily activities on site • Arrange and monitor OEM training of new equipment on shafts • Ensure attendance at incidents and accidents investigations at loco inspections • Ensure quality of learning takes place and is monitored at all times • Ensure material developer is informed of any changes to learning material and procedures • Ensure compliance in terms of and attendance requirements at BRMO • Control the attendance of learners to schedule learning events and training requests • Ensure equipment for training is maintained, clean and in safe working order at all times • Check the use of the appropriate PPE of learners • Ensure monthly training reports are submitted on time • Report any SHERQ deviations to line management • Comply in terms with training to all SHERQ requirements in line with the Mine Health and Safety Act • Ensure compliance with all HIRA requirements in line with training • Obtain information, check for accuracy and capture data • File documents per procedure • Ensure line management is informed at all times regarding shortfalls on legal and competency training • Represent the Operational Standards Committee and implement training and safety decisions • Check and follow up on training interventions • Perform trend analysis • Comply with disciplinary and behavioural rules and procedures • Develop and maintain productive relations with internal and external customers • Maintain active and informative relations with all team members and colleagues take remedial actions where necessary.

**Minimum requirements (essential unless otherwise indicated):** • Grade 12 • National Certificate Occupationally Directed Education Training and Development Practices (Level 5) • Blasting Certificate for Scheduled Mines • 3 years' experience as Training Officer in Board and Pillar at trackless mines • 3 years' training and assessment experience • MQA Moderator/Assessor • Valid Code B/EB driver's licence • Must achieve an "A" symbol on the Dover Assessment.

Interested applicants are requested to submit their CVs with certified copies of qualifications to fax: 086 572 7977, e-mail: recruitment5@brmo.co.za OR at the Main Guardhouse.

The candidates will be appointed on the condition of being certified medically fit as per Mine Health and Safety Act, 29/1996.

**Remuneration:** Remuneration will be based on a competitive all-inclusive flexible package. The successful candidates that conform to all said requirements and experience will be appointed on this grading. Candidates that do not conform to all set requirements and experience will be considered only if suitable candidates that do comply cannot be selected and only if the requirements of the positions support a developmental appointment according to policy.

Please be advised that short-listed candidates will be required to authenticate information provided in CVs.

**Applications close on:** 11 April 2019

Late applications will not be entertained.

If you have not been contacted within 21 days after the closing date, please consider your application to be unsuccessful. Correspondence will only be limited to short-listed candidates.

Assmang Limited reserves the right not to appoint.

**Fraud alert:** Blackrock Mining Operations subscribes to ethical recruitment processes and therefore: • Will not ask for money in exchange of an application, medical assessment, and interview or to be appointed • Will not put any personal contact details of individual recruiters on the advert as a form of communication or job application • Please use the allocated fax numbers, e-mail address or designated hand delivery boxes at the mine to apply.

## APPENDIX E4

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### COMMENTS AND REPLY FORMS RECEIVED

**PLEASE NOTE:**

***THIS APPENDIX ONLY INCLUDES COMMENTS AND REPLY FORMS RECEIVED PERTAINING TO THE  
VGRWSS-II: UPGRADING OF THE EXISTING SCHEME COMPONENT***

***COMMENTS AND REPLY FORMS RECEIVED PERTAINING TO THE SD1 AND SD2 GROUNDWATER  
ABSTRACTION COMPONENT WILL BE INCLUDED IN A SEPARATE BASIC ASSESSMENT REPORT***

## Christian Van Der Hoven

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**From:** Wayleave Management Section CR <WayleaCR@telkom.co.za>  
**Sent:** 08 April 2019 02:06 PM  
**To:** Donovan Henning  
**Subject:** RE: 10689 - Proposed Vaal Gamagara Regional Water Supply Scheme Phase 2 - Notification

Good day

Thanks very much for the sketches, we will start the application.

Kind regards

Chris Schutte  
Mvelaphande Trading  
[SchutCE5@telkom.co.za](mailto:SchutCE5@telkom.co.za)  
051 401 6701 / 081 045 5686

---

**From:** Donovan Henning [mailto:DonavanH@nemai.co.za]  
**Sent:** Monday, April 08, 2019 1:57 PM  
**To:** Wayleave Management Section CR <WayleaCR@telkom.co.za>  
**Subject:** RE: 10689 - Proposed Vaal Gamagara Regional Water Supply Scheme Phase 2 - Notification

Hi Chris

I'm sending you maps indicating the project location. Please see attached for the first batch.

I can also send you shape files for GIS. Are you able to read such files.

Regards  
Donovan Henning

**Nemai Consulting**  
*Tel : (011) 781 1730*  
*Fax : (011) 781 1731*  
*Mobile : 082 891 0604*  
*Email : [donavanh@nemai.co.za](mailto:donavanh@nemai.co.za)*  
*Address : 147 Bram Fischer Drive Ferndale, 2194*  
*Postal Address : PO Box 1673, Sunninghill, 2157*



---

**From:** Wayleave Management Section CR [mailto:WayleaCR@telkom.co.za]  
**Sent:** 05 April 2019 07:44 AM

**To:** Donovan Henning

**Subject:** RE: 10689 - Proposed Vaal Gamagara Regional Water Supply Scheme Phase 2 - Notification

Good day

The kml file is not working and we need more detailed sketches where the proposed work are going to be near or close to the different towns.

Kind regards

Chris Schutte

Mvelaphande Trading

[SchutCE5@telkom.co.za](mailto:SchutCE5@telkom.co.za)

051 401 6701 / 081 045 5686

---

**From:** Donovan Henning [<mailto:DonavanH@nema.co.za>]

**Sent:** Friday, April 05, 2019 7:09 AM

**To:** Wayleave Management Section CR <[WayleaCR@telkom.co.za](mailto:WayleaCR@telkom.co.za)>

**Subject:** RE: 10689 - Proposed Vaal Gamagara Regional Water Supply Scheme Phase 2 - Notification

Dear Chris

Please see attached.

Regards

Donovan Henning

**Nemai Consulting**

*Tel : (011) 781 1730*

*Fax : (011) 781 1731*

*Mobile : 082 891 0604*

*Email : [donavanh@nema.co.za](mailto:donavanh@nema.co.za)*

*Address : 147 Bram Fischer Drive Ferndale, 2194*

*Postal Address : PO Box 1673, Sunninghill, 2157*



---

**From:** Wayleave Management Section CR [<mailto:WayleaCR@telkom.co.za>]

**Sent:** 31 March 2019 09:29 AM

**To:** Donovan Henning

**Subject:** RE: 10689 - Proposed Vaal Gamagara Regional Water Supply Scheme Phase 2 - Notification

Good day

Please provide us with more detailed sketches in order to indicate our services on.

Kind regards



P.O. BOX 1673  
SUNNINGHILL  
2157

147 Bram Fischer Drive  
Ferndale  
2194

Phone: (011) 781 1730  
Fax: (011) 781 1731  
Email: donavanh@nemai.co.za

## PROPOSED UPGRADING OF THE VAAL GAMAGARA REGIONAL WATER SUPPLY SCHEME PHASE 2

### REPLY FORM

<b>Official use</b>	<b>Date received</b>	<b>Our reference</b>	<b>Status</b>

**Note:** The purpose of the Reply Form includes the following:

1. Registration of Interested and Affected Parties;
2. Obtain contact details to include in the project database; and
3. Allow for comments and concerns to be raised regarding the proposed project.

**Please tick the relevant project component that you are affected by / interested in:**

Upgrade of  
VGRWSS Phase 2

SD1 & SD2  
Groundwater  
Abstraction

#### 1) GENERAL INFORMATION

<b>Name of organisation (if applicable)</b>	Papkuil Boerevereniging
<b>Name &amp; Surname</b>	C. (Kokkie) York
<b>Postal Address</b>	P.O. Box 35 Lime Acres, 8410.
<b>Physical Address (please provide full farm description, if applicable)</b>	Olienspruit (507 portion 1) (Roospan)
<b>Telephone No.</b>	072 306 9992
<b>Fax No.</b>	
<b>Email Address</b>	ck.york@vodamail.co.za

**Registration as an Interested & Affected Party:**

**YES**

**NO**





P.O. BOX 1673  
SUNNINGHILL  
2157

147 Bram Fischer Drive  
Ferndale  
2194

Phone: (011) 781 1730  
Fax: (011) 781 1731  
Email: donavanh@nema.co.za

## PROPOSED UPGRADING OF THE VAAL GAMAGARA REGIONAL WATER SUPPLY SCHEME PHASE 2

### REPLY FORM

Official use	Date received	Our reference	Status

**Note:** The purpose of the Reply Form includes the following:

1. Registration of Interested and Affected Parties;
2. Obtain contact details to include in the project database; and
3. Allow for comments and concerns to be raised regarding the proposed project.

Please tick the relevant project component that you are affected by / interested in:

Upgrade of  
VGRWS Phase 2

SD1 & SD2  
Groundwater  
Abstraction

#### 1) GENERAL INFORMATION

Name of organisation (if applicable)	ASSMANG PROPRIETARY LIMITED
Name & Surname	DIRK COETZEE
Postal Address	PRIVATE BAG X503 KATHU; 8446
Physical Address (please provide full farm description, if applicable)	544 PARSON; DINGLETON ROAD KATHU; 8446
Telephone No.	(053) 723 8090
Fax No.	N/A
Email Address	Dirk.Coetzee@assmang.co.za

Registration as an  
Interested & Affected Party:

YES

NO

2) **COMMENTS**

2.1) Potential issues or concerns associated with the project?

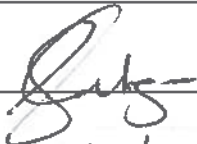
IMPACT ZONE OF ABSTRACTION OF WATER, TO BE DETERMINED.

2.2) Specific requirements in terms of the environmental assessments?

2.3) Key stakeholders to be engaged with (provide contact details, if possible)?

2.4) General Comments

Signature \_\_\_\_\_



Date \_\_\_\_\_

11/4/19

— Thank you for your participation —

## Christian Van Der Hoven

---

**From:** Khululwa Gaongalelwe <Stuurmkv@eskom.co.za>  
**Sent:** 14 May 2019 02:02 PM  
**To:** Donovan Henning  
**Cc:** Khululwa Gaongalelwe  
**Subject:** FW: 10689 - Proposed Vaal Gamagara Regional Water Supply Scheme Phase 2 - Notification  
**Attachments:** Beta-Boundary\_EIA\_Approved\_Corridor.kmz; Boundary-Ulco\_EIA\_Approved\_Corridor.kmz; Manganore-Ferrum\_EIA\_Approved\_Corridor.kmz; Olien-Manganore\_EIA\_Approved\_Corridor.kmz; Ulco-Olien\_EIA\_Approved\_Corridor.kmz; Authorized\_Ferrum\_-\_Upington\_Corridor.kmz

Dear Donovan

I have managed to get kmz files showing where Eskom corridors are along your Area of interest .

Thanking you.

Warm regards

Khululwa Gaongalelwe  
Senior Environmental Advisor  
Land Development & Management  
Group Capital Division  
Megawatt Park D1X37 Maxwell Drive Sunninghill Sandton Tel +27 (0)11 800 3446 Cell +27 (0)72 444 3513  
Email [stuurmkv@eskom.co.za](mailto:stuurmkv@eskom.co.za)

---

**From:** Donovan Henning [<mailto:DonavanH@nemai.co.za>]  
**Sent:** 17 April 2019 08:28 AM  
**To:** Khululwa Gaongalelwe  
**Subject:** RE: 10689 - Proposed Vaal Gamagara Regional Water Supply Scheme Phase 2 - Notification

Dear Khululwa

Please see attached, as requested.

Regards  
Donovan Henning

**Nemai Consulting**  
*Tel : (011) 781 1730*  
*Fax : (011) 781 1731*  
*Mobile : 082 891 0604*  
*Email : [donavanh@nemai.co.za](mailto:donavanh@nemai.co.za)*  
*Address : 147 Bram Fischer Drive Ferndale, 2194*  
*Postal Address : PO Box 1673, Sunninghill, 2157*



---

**From:** Khululwa Gaongalelwe <StuurmKV@eskom.co.za>  
**Sent:** Tuesday, April 16, 2019 10:15 AM  
**To:** Donovan Henning <DonavanH@nemai.co.za>  
**Subject:** RE: 10689 - Proposed Vaal Gamagara Regional Water Supply Scheme Phase 2 - Notification

Dear Donovan

May you please send me **kmz** files so that I may plot against our Eskom projects.

Thanking you in advance.

Warm regards

Khululwa Gaongalelwe  
Senior Environmental Advisor  
Land Development & Management  
Group Capital Division  
Megawatt Park D1X37 Maxwell Drive Sunninghill Sandton Tel +27 (0)11 800 3446 Cell +27 (0)72 444 3513  
Email [stuurmkv@eskom.co.za](mailto:stuurmkv@eskom.co.za)

---

**From:** John Geeringh  
**Sent:** 09 April 2019 03:55 PM  
**To:** Lungile Motsisi; Khululwa Gaongalelwe  
**Subject:** FW: 10689 - Proposed Vaal Gamagara Regional Water Supply Scheme Phase 2 - Notification

FYI and checking against Eskom assets and projects.

Regards  
JOhn



---

**From:** Donovan Henning [<mailto:DonavanH@nemai.co.za>]  
**Sent:** 29 March 2019 03:26 PM  
**Subject:** 10689 - Proposed Vaal Gamagara Regional Water Supply Scheme Phase 2 - Notification



Posbus 1673  
SUNNINGHILL  
2157

147 Bram Fischer Rylaan  
Ferndale  
2194

Tel: (011) 781 1730  
Faks: (011) 781 1731  
Epos: donavanh@nema.co.za

## VOORGESTELDE OPGRADERING VAN DIE VAAL GAMAGARA WATERVOORSIENING SKEMA FASE 2

### TERUGVOERINGSVORM

**Amptelike  
Gebruik**

Datum ontvang:

Ons verwysing:

Status:

*Note:* Die doel van die Terugvoeringsvorm sluit die volgende in:

1. Registrasie as 'n Belanghebbende en Geaffekteerde Party;
2. Bevestig kontakbesonderhede vir die databasis van Belanghebbende en Geaffekteerde Partye; en
3. Maak voorsiening vir kommentaar oor die voorgenome projek.

Dui asseblief die relevante projek-komponent wat u affekteer / waarin u belangstel aan:

Opgradering van  
VGRWSS Fase 2

BO1 & BO2  
Grondwater  
Onttrekking

#### 1) ALGEMENE INLIGTING

Organisasie se  
Naam:  
(indien toepaslik)

Agri Postmasburg

Naam en Van:

Jim Bredenkamp

Posadres:

Posbus 780  
Postmasburg 8420

Fisiese Adres:

(dui asb. volle  
plaasnaam aan, indien  
toepaslik)

Kroonmeelaan 2  
Postmasburg

Telefoon-nommer:

053 313 7808

Selfoon-nommer:

083 679 7333

Faks-nommer:

e-posadres:

jim@jimpos.co.za

Registrasie as 'n  
Belanghebbende en  
Geaffekteerde Party:

JA

NEE

2) KOMMENTAAR

2.1) Moontlike kwessies of besware aangaande die projek:

- a) Ons het beswaar aangeteken in die openbare vergadering rakende Fase 1. Geen reaksie.
- b) Groot beswaar rakende volhoubare voorsiening van die boorgatte.

2.2) Spesifieke vereistes van die Omgewingsbepalings:

2.3) Kontakbesonderhede van enige ander moontlike Belanghebbende en Geaffekteerde Partye waarvan u dalk bewus is:

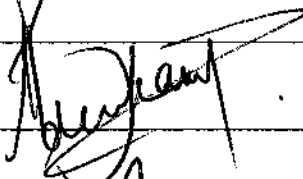
Willie Uys      willie.uys66@gmail.com      084 517 4913

Johan Gous      jhgous2@gmail.com      082 461 7968

2.4) Algemene kommentaar: (LW bykomende bladsye mag ingesluit word indien die ruimte wat voorsien word, te min is)

Hierdie projek is in bedreiging vir die langtermyn volhoubare voortbestaan van die natuurlike omgewing soos ons dit ken.

Handtekening



Datum

29 Maart 2019

— U deelname word opreg waardeer —

# Proposed upgrading of Vaal Gamagarra Regional water supply scheme Phase 2

## Comments and concerns

### Pypontwerp

- 1) Die pyplyn moet beplan word om die volle lewering van Delportshoop af te bring en hanteer.
- 2) Wanneer en solank daar water van die myne af beskikbaar is (SLEGS sodat hulle veilig kan myn) en solank die SD terreine (wanneer magtiging toegestaan is om hulle te ontwikkel) in die toekoms nog nie die vasgestelde aftrek vlakke bereik het nie (ook sonder dat daar enige ongewenste reaksies op die groundwater opgemerk word nie), kan die water op bepaalde plekke ingepomp word in die pyplyn.
- 3) Sodra dit nie meer nodig is water te pomp vir veilig myn, word die benodigde water van die Vaal rivier af ingepomp.
- 4) Sodra die SD terreine negatief geaffekteer word met die pomp van die water (dinge wat nie voorsien was met die ontwerp van die stelsel nie), moet die hoeveelheid water ook van die Vaalrivier af voorsien word.
- 5) Indien Sedibeng water kontrakte gesluit het om meer water te voorsien in die pyplyn (ingesluit basiese menslike gebruik) as wat beskikbaar is van die Vaalrivier af, moet die kontrakte sodanig verminder word.
- 6) Kontrakte aan myne en ander gebruikers moet ook lees dat water slegs kan voorsien word solank die Vaalrivier dit kan voorsien (die myne en SD terreine se water kan nie gekontrakteur word nie)
- 7) Hoe word plaaslike besighede betrek en bevoordeel uit die projek? Ek praat van alle besighede, nie net swart besighede nie.

### Beheer van die SD terreine se onttrekking

- 1) Wat gebeur wanneer ons by voorgestelde dalings kom soos voorspel vir 2031? (al gebeur dit ook in 2021)
- 2) Hoe gaan monitering van grondwater uit die SD terreine "gekoppel" wees met die beheer van die ontrekkings pompe uit die boorgate. [As die monitering op die vasgestelde vlak is, of onvoorsiene effekte op die groundwater word waargeneem, wie sit die pompe af?]
- 3) Daar moet ook 'n reeval stasie by elke Logger installer word, vir moniterings doeleindes.
- 4) Wie gaan die 4 maande per jaar se pomp bestuur hanteer?
- 5) Sluit asb 'n publieke webtuiste in die projek in waarop ons die intydse watervlakke van al die boorgate, pompvloei en pomp statuses kan monitor.
- 6) Die jaarlikse audit model se uitslae moet ook op die webtuiste beskikbaar wees om te sien.

- 7) Isoleer/Seel boorgat konstruksie tot by dolmiet.
- 8) Die “damspasie” wat nou ondergronds geskep word met die onttrekking van die SD terreine, verhoog die risiko van grondwater dalings (risikos dat aanvullings stroomaf nie meer so spontaan gaan plaasvind soos toe die “dam” vol was nie)
- 9) My voorstel is dat ‘n onafhanklike ligaaam, soos die Landbou unie, die fondse van Sedibeng water kry om die SD ontrekkings te monitor EN te Beheer. Wanneer die pompe afgesit moet word (by die vasgestelde vlakke is, of nadelige uitwerking op die omgewing het), so ook wanneer Sedibeng nie die bestuursfondse oorbetaal nie, word die pompe afgesit totdat alles weer in plek is.
- 10) Op watter reenal syfers is gewerk om die spitverbruik (onttrekking) te bepaal?
- 11) Hoe vergelyk die 16 jaar gemiddelde reenal wat gebruik is met die 70 jaar gemiddelde reenal?
- 12)

#### Algemeen

- 1) In die inligtings dag te Postmasburg is daar genoem Sishen ook nie meer die aanvanklike beheer oor die ontwatering het nie, beheer waterwese dan nou die onttrekking vir “veilig myn”?  
[Volgens my wete ontwater Sishen myn tot by Lohatla]





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SUNNINGHILL  
2157

147 Bram Fischer Drive  
Ferndale  
2194

Phone: (011) 781 1730  
Fax: (011) 781 1731  
Email: donavanh@nema.co.za

## PROPOSED UPGRADING OF THE VAAL GAMAGARA REGIONAL WATER SUPPLY SCHEME PHASE 2

### REPLY FORM

<b>Official use</b>	<b>Date received</b>	<b>Our reference</b>	<b>Status</b>

**Note:** The purpose of the Reply Form includes the following:

1. Registration of Interested and Affected Parties;
2. Obtain contact details to include in the project database; and
3. Allow for comments and concerns to be raised regarding the proposed project.

Please tick the relevant project component that you are affected by / interested in:

Upgrade of  
VGRWSS Phase 2

SD1 & SD2  
Groundwater  
Abstraction

#### 1) GENERAL INFORMATION

<b>Name of organisation</b> <small>(if applicable)</small>	Floradale bordery
<b>Name &amp; Surname</b>	Johan Kotze
<b>Postal Address</b>	20 Steembok street Postmasburg, 8420
<b>Physical Address</b> <small>(please provide full farm description, if applicable)</small>	Floradale plass Postmasburg
<b>Telephone No.</b>	0829256032
<b>Fax No.</b>	
<b>Email Address</b>	johan.kotze@floradalebordery.co.za

Registration as an Interested & Affected Party:

YES

NO

**2) COMMENTS**

2.1) Potential issues or concerns associated with the project?

Please attached word document

2.2) Specific requirements in terms of the environmental assessments?

2.3) Key stakeholders to be engaged with (provide contact details, if possible)?

2.4) General Comments

Signature



Date

26/4/2019

— Thank you for your participation —



## agriculture, forestry & fisheries

Department:  
Agriculture, Forestry and Fisheries  
REPUBLIC OF SOUTH AFRICA

Directorate: Forestry Management (Other Regions)  
P.O. Box 2782, Uptington, 8800, Tel 054 338 5909, Fax 054 334 0030

Enquiries: J Mans  
E-mail: [JacolineMa@daff.gov.za](mailto:JacolineMa@daff.gov.za)  
Date: 05 April 2019  
Ref: 40.8.14.2/NC/145

P.O. Box 1673  
Sunninghill  
2157

ATTENTION: Donovan Henning ([donavanh@nema.co.za](mailto:donavanh@nema.co.za))

### RE: COMMENTS ON BACKGROUND INFORMATION DOCUMENT (BID) OF THE PROPOSED UPGRADE OF THE VAAL GAMAGARA REGIONAL WATER SUPPLY SCHEME PHASE 2

The Directorate: Forestry Management (Other Regions) in the Department of Agriculture, Forestry and Fisheries (DAFF) is responsible for administration of the **National Forests Act, Act 84 of 1998 (NFA)** and the **National Veld and Forest Fires Act, Act 101 of 1998** as amended. The developer must take note of the following sections of the NFA:

- 1.1 Section 12(1): "The Minister may declare-
  - (a) a particular tree,
  - (b) a particular group of trees,
  - (c) a particular woodland; or
  - (d) trees belonging to a particular species, to be a protected tree, group of trees, woodland or species.
  
- 1.2 Section 15(1): "No person may-
  - (a) Cut, disturb, damage or destroy any protected tree; or
  - (b) Possess, collect, remove, transport, export, purchase, sell, donate or in any other manner acquire or dispose of any protected tree, or any forest product derived from a protected tree, except-
    - (i) under a license granted by the Minister; or
    - (ii) in terms of an exemption from the provision of this subsection published by the Minister in the Gazette on the advice of the Council."
  
- 1.3 "Any person who contravenes the prohibition on-
  - (i) The cutting, disturbance, damage or destruction of temporarily protected trees or groups of trees referred to in section 14(2) or protected trees referred to in section 15(1)(a); or
  - (ii) The possession, collection, removal, transport, export, purchase or sale of temporarily protected trees or groups of trees referred to in section 14(2) or

protected trees referred to in section 15(1)(b), or any forest product derived from a temporarily protected tree, group of trees or protected tree, is guilty of a first category offence.

- 1.4 Section 58 (1): “Any person who is guilty of a first category offence referred to in sections 62 and 63 may be sentenced to a fine or imprisonment for a period of up to three years, or to both a fine and such imprisonment.”
- 1.5 The list of protected tree species under section 12(1) (d) of the National Forests Act, 1998 (Act No. 84 of 1998) is published annually; the most recent publication was in GN536 of 7 September 2018.

## 2. COMMENTS ON BACKGROUND INFORMATION DOCUMENT

- 2.1 The developer must overlay the 210km pipeline route and water abstraction points on the Northern Cape Critical Biodiversity Area (CBA) map. Protected trees such as *Acacia erioloba*; *Acacia haematoxylon* and *Boscia albitrunca* can be encountered, as well as the provincially protected Wild Olive (*Olea europaea* subsp. *africana*). CBA’s and Ecological Support Areas (ESA) must be avoided. Riparian vegetation is sensitive and should be avoided as far as possible.
- 2.2 An accurate estimation is required of the number and species of protected trees to be destroyed per activity. For removal of protected trees in the borrow pits, the DAFF would require the DMR approvals per borrow pit.
- 2.3 Although sections of the pipeline will be replaced in the existing servitude the whole servitude width of 40m may not be cleared of protected trees. For linear infrastructure, the Department normally permits clearing the footprint plus a buffer area of 4m on either side from the centreline. Clearance of 40m can result in unwanted negative impacts such as wind and soil erosion.
- 2.4 After construction of the pipeline (if authorised), the pipeline servitude must be rehabilitated, with the same species of indigenous plants and trees destroyed and in the same densities to resemble pre-constructions conditions. Efforts must be made to avoid protected trees.
- 2.5 Trees with bird nests may not be disturbed without a valid Fauna Permit from Nature Conservation under the Northern Cape Nature Conservation Act, Act9 of 2009 (NCNCA), if affected.
- 2.6 Getting a Forest Act License can take up to 30 days. License application forms are available on the Departmental website or at the Forestry Office in Upington. The Department may ask supporting documentation when assessing a license application. For construction activities of this nature, the following supporting documents are normally requested:
  - Completed License Application Form
  - Accurate estimation of the number of trees to be felled per species
  - Copy of the I.D. of the applicant (developer’s representative)

- Copy of the Environmental Authorisation
- Copy of approved layout plans
- Flora Permit Reference Number
- Copy of Fauna Permit (if applicable)

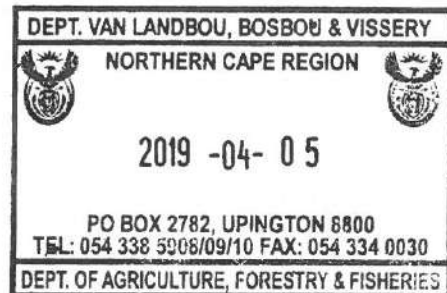
Thank you for notifying the Department of the proposed development.

Kind Regards,



Jacoline Mans (Chief Forester: NFA Regulation)

DATE: 05/04/2019





P.O. BOX 1673  
SUNNINGHILL  
2157

147 Bram Fischer Drive  
Ferndale  
2194

Phone: (011) 781 1730  
Fax: (011) 781 1731  
Email: donavanh@nema.co.za

## PROPOSED UPGRADING OF THE VAAL GAMAGARA REGIONAL WATER SUPPLY SCHEME PHASE 2

### REPLY FORM

Official use	Date received	Our reference	Status

**Note:** The purpose of the Reply Form includes the following:

1. Registration of Interested and Affected Parties;
2. Obtain contact details to include in the project database; and
3. Allow for comments and concerns to be raised regarding the proposed project.

Please tick the relevant project component that you are affected by / interested in:

Upgrade of  
VGRWSS Phase 2

SD1 & SD2  
Groundwater  
Abstraction

#### 1) GENERAL INFORMATION

Name of organisation (if applicable)	OCO Properties
Name & Surname	Lorry Ruffini
Postal Address	P.O. Box 50 Postmasburg, 8420
Physical Address (please provide full farm description, if applicable)	FARM Tafelkop
Telephone No.	053 313 1651
Fax No.	053 313 2081
Email Address	lorry@rufco.co.za

Registration as an  
Interested & Affected Party:

YES

NO

2) COMMENTS

2.1) Potential issues or concerns associated with the project?

Denaturing of area SD1@SD2

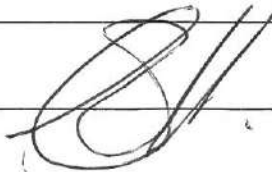
2.2) Specific requirements in terms of the environmental assessments?

2.3) Key stakeholders to be engaged with (provide contact details, if possible)?

2.4) General Comments

Upgrade passes in farm.  
Good work relation AND communication for the project between  
farmer AND contractor

Signature



Date

03-04-2019

— Thank you for your participation —

## Christian Van Der Hoven

---

**From:** Mothobi Martins (MC) <MartiMC2@telkom.co.za>  
**Sent:** 23 April 2019 09:36 AM  
**To:** Donovan Henning  
**Cc:** Vivian Groenewald (VR)  
**Subject:** CPSB0163\_19 - PROPOSED UPGRADING OF THE VAAL GAMAGARA REGIONAL WATER SUPPLY  
**Attachments:** CPSB0163-19 COVER LETTER.pdf; CPSB0163-19 UPDATED SKETCH.pdf

DGood Day

Attached find updated sketch and the cover letter Please contact Mr **Vivian Groenewald** at 054 338 6501/081 362 6738, Two weeks before commencement of work.

With reference to your above-mentioned application, I hereby inform you that our Client (OPENSERVE) approves the proposed work indicated on your drawings in terms Section 22 of the Electronic Communications Act 36 of 2005 as amended.

Any changes/deviations from the original planning during or prior to construction must immediately be communicated to this office.

**Mr. Vivian Groenewald must be contacted at telephone number 054 338 6501/081 362 6738,(Two) 2 weeks prior to commencement of proposed work from our Client (OPENSERVE)'s Network Field Services.**

Regards

Mothobi Martins  
[MartiMC2@telkom.co.za](mailto:MartiMC2@telkom.co.za)  
051 401 6320





**Mvelaphande Trading**

c/o M Martins  
**P.O Box 12534**  
**Brandhof**  
**9324**

**Enquiries:** Mothobi Martins  
**Telephone:** 051 - 401 6320/ 0827376286  
**E-mail:** MartiMC2@telkom.co.za

Our Ref no: CPSB0163-19

Your Ref: 10689

23 April 2019

NEMAI CONSULTING  
147 Bram Fischer Drive  
Ferndale  
2194

**FOR ATTENTION: Mr Donovan Henning**

**WAYLEAVE APPLICATION: PROPOSED UPGRADING OF THE VAAL GAMAGARA REGIONAL WATER SUPPLY.**

With reference to your above- mentioned application, I hereby confirm that the proposed work installation is approved by our Client (Openserve) in terms of Section 29 of the Electronic Communications Act No. 36 of 2005 as amended.

Our Client (Openserve)'s infrastructure is affected by this proposal and the route is marked in **BLACK and HIGHLIGHTED in PINK** on attached sketch as accurately as possible. **We did our utmost to ensure that we indicate our route as accurate as possible and should you discover any of our cables that is not on the sketch please stop and contact us immediately to arrange a site meeting. In the event that our cables are exposed and damaged/stolen by a third party the damages will be repaired at the customer's account. Please make use of pilot holes in order not too damage our infrastructure.** Therefore, any damages occurred during construction of work will be repaired at the customer's account.

On completion of this project, please certify that all requirements as stipulated in this letter have been met. Please note that should any of our Client (Openserve) infrastructure has to be relocated or altered as a result of your activities the cost for such alterations or relocation will be for your account in terms of section 25 of the Electronic Communications Act.

**Mr Vivian Groenewald must be contacted at telephone number 054 338 6501/081 362 6738, 2 (Two) weeks prior to commencement of proposed work. It's important that all services are shown on site before construction starts.**

Approval of the proposed route is valid for six months. If construction has not yet commenced within this period, then the file must be resubmitted for approval. Any changes / deviations from the original planning during or prior to construction must immediately be communicated to this office.

Please notify this office and forward an as built plan, within 30 days of completion of construction.

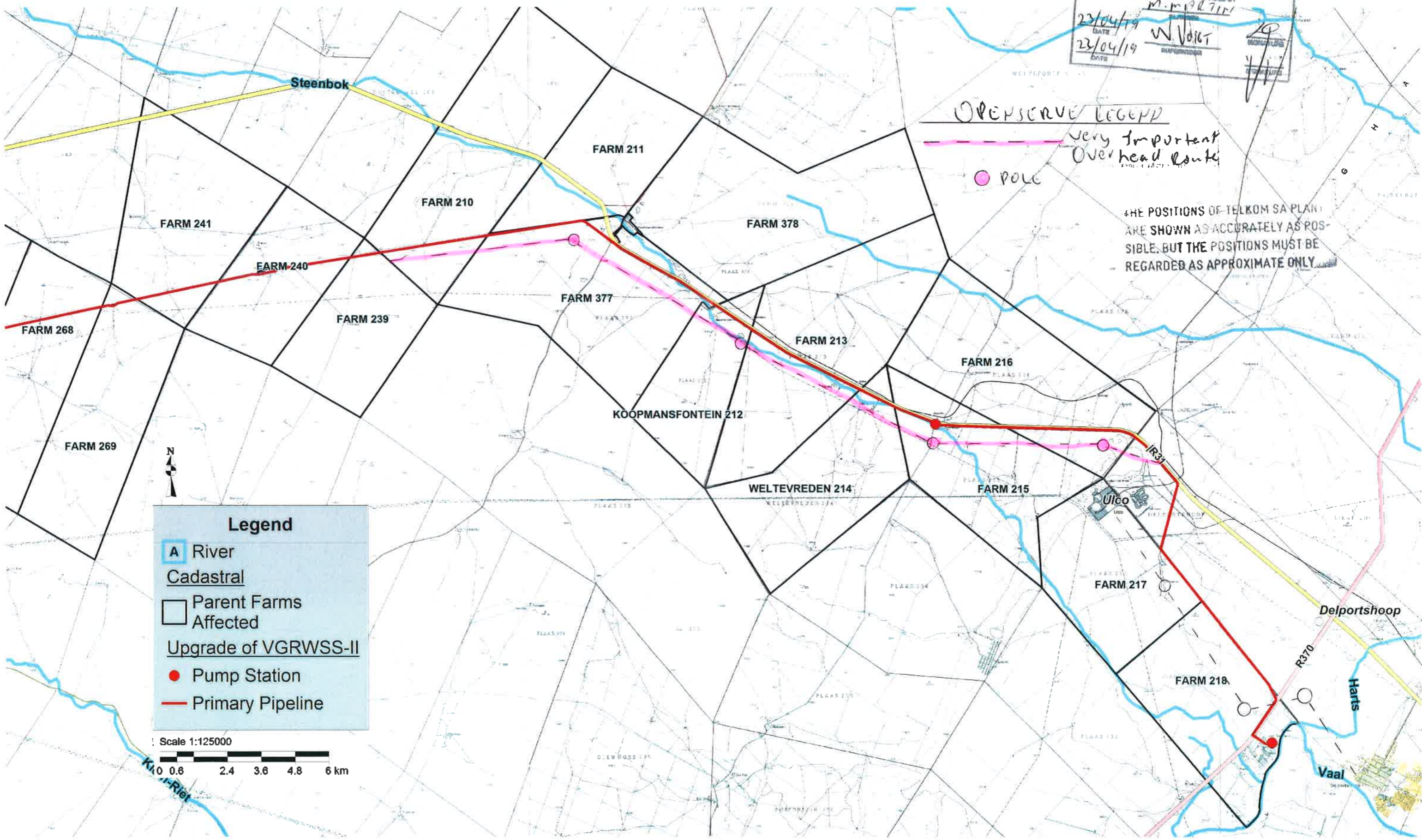
**Mr Vivian Groenewald must be contacted at telephone number 054 338 6501/081 362 6738, (Two) 2 weeks prior to commencement of proposed work from our Client (Openserve) Network Fields Services.**

Yours sincerely

  
.....  
**MOTHOBI MARTINS**

CPSB0163-19

DIBBING / PROPOSED PLANT AFFECTED /   
 INFO AND LEGEND PROVIDED BY   
 M. P. R. T. J.   
 23/04/19 DATE   
 23/04/19 DATE   
 W. Voigt SUPERVISOR   
 [Signature]   
 [Signature]



OVERSERVE LEGEND   
 Very Important   
 Overhead Route   
 POLE

THE POSITIONS OF TELKOM SA PLANS   
 ARE SHOWN AS ACCURATELY AS POSSIBLE,   
 BUT THE POSITIONS MUST BE   
 REGARDED AS APPROXIMATE ONLY.

**Legend**

- A River
- Cadastral
- Parent Farms Affected
- Upgrade of VGRWSS-II
- Pump Station
- Primary Pipeline

Scale 1:125000   
 0 0.6 2.4 3.6 4.8 6 km



Koos-Riet

Delportshoop

Harts

Vaal

Ulco

R370

R371

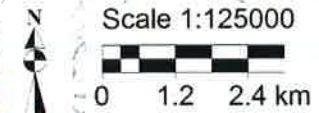
# OPERATIVE LEGEND

Very Important  
Overhead Route

● Pole

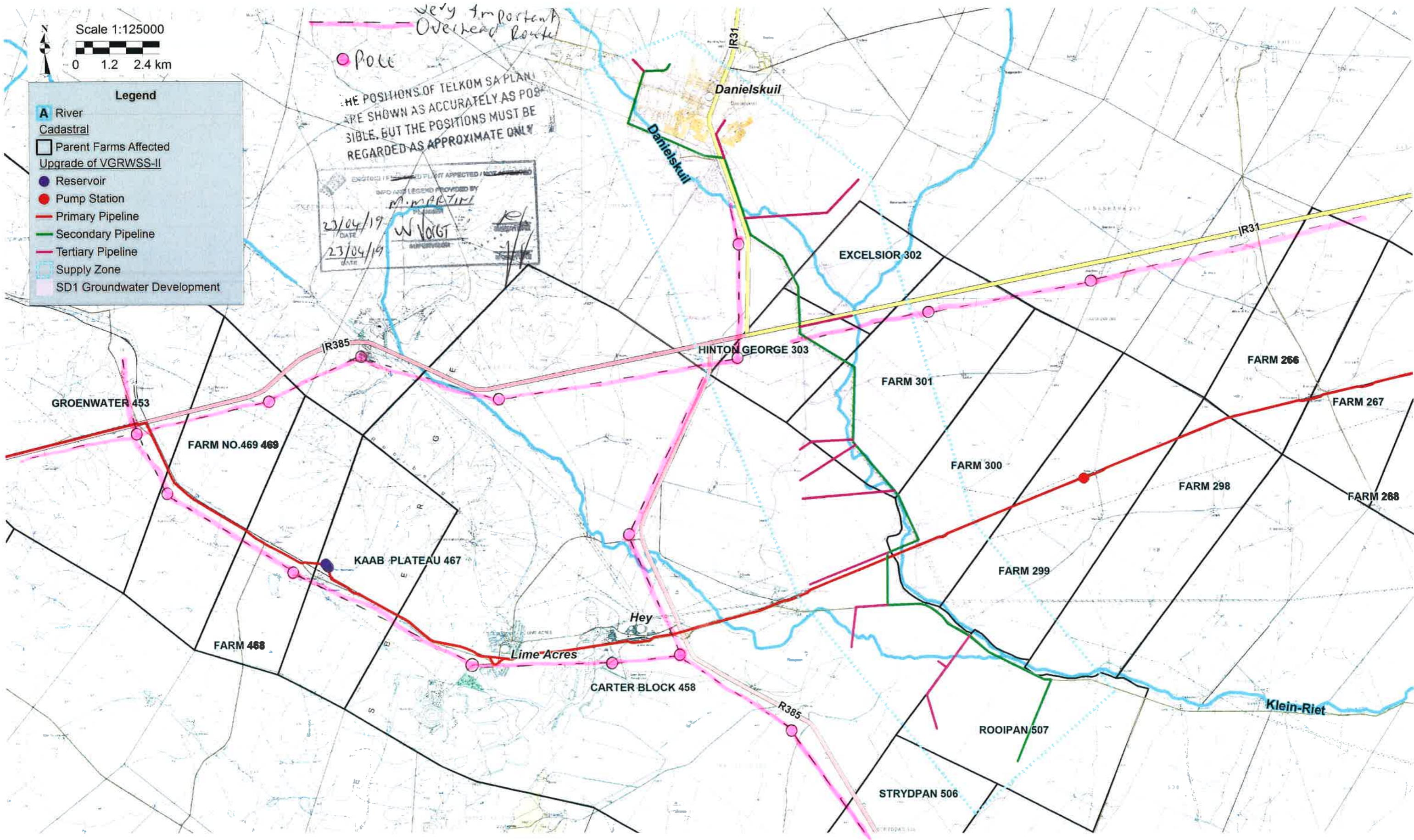
THE POSITIONS OF TELKOM SA PLANS ARE SHOWN AS ACCURATELY AS POSSIBLE, BUT THE POSITIONS MUST BE REGARDED AS APPROXIMATE ONLY

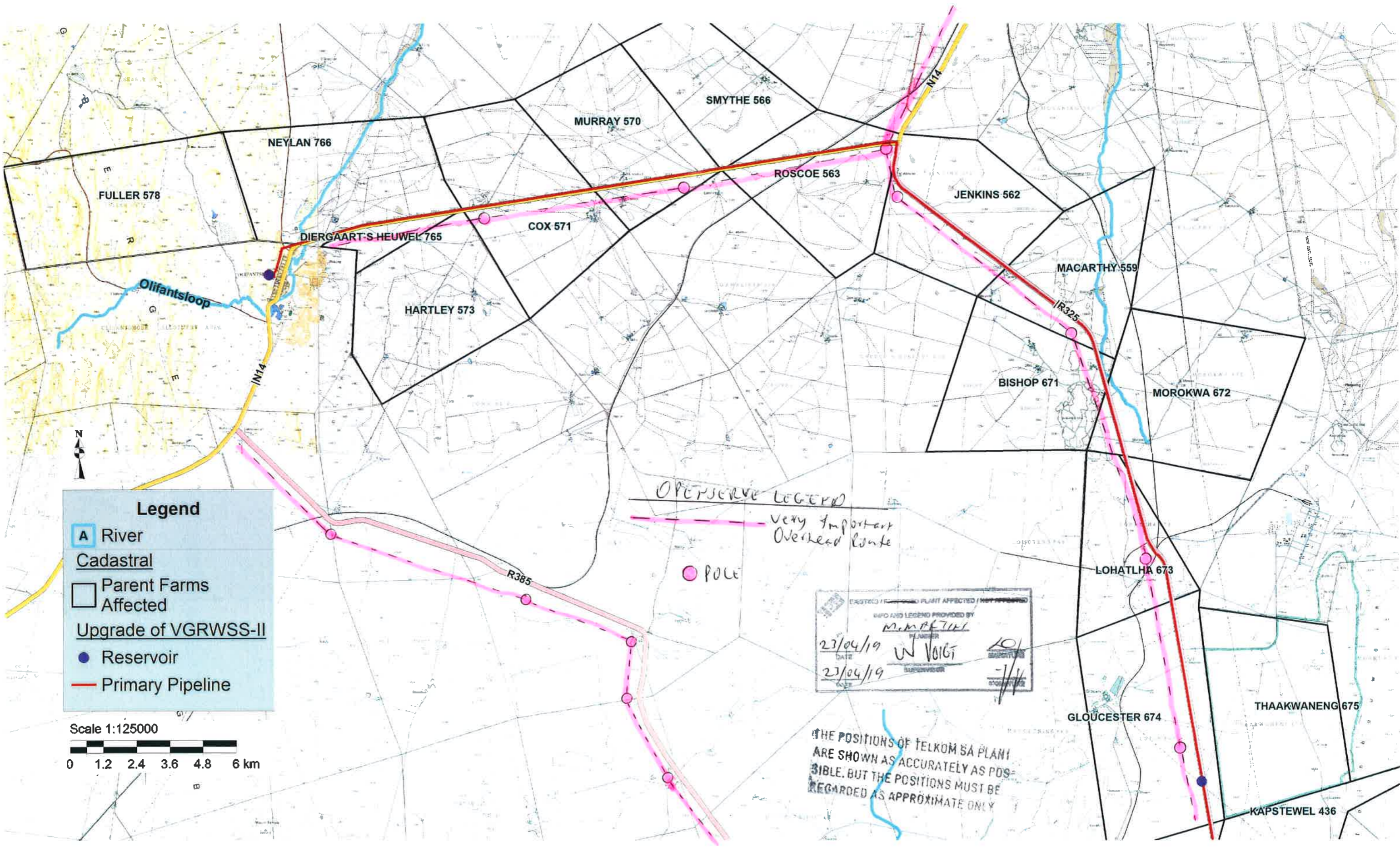
DATE 23/04/19  
DATE 23/04/19  
W VOIGT  
M. M. A. P. T. I. N. I.



**Legend**

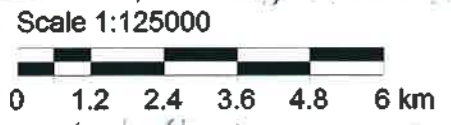
- A River
- Cadastral
- Parent Farms Affected
- Upgrade of VGRWSS-II
- Reservoir
- Pump Station
- Primary Pipeline
- Secondary Pipeline
- Tertiary Pipeline
- Supply Zone
- SD1 Groundwater Development





**Legend**

- A River
- Cadastral
- Parent Farms Affected
- Upgrade of VGRWSS-II
- Reservoir
- Primary Pipeline



*OVERSERVE LEGEND*

*Very Important Overhead Route*

● POLE

EXISTING / PROPOSED PLANT AFFECTED / NOT AFFECTED		
INFO AND LEGEND PROVIDED BY	<i>M. M. P. T. H. L.</i>	
DATE	<i>23/04/19</i>	<i>10/</i>
DATE	<i>23/04/19</i>	<i>-1/1/</i>

THE POSITIONS OF TELKOM SA PLANT ARE SHOWN AS ACCURATELY AS POSSIBLE. BUT THE POSITIONS MUST BE REGARDED AS APPROXIMATE ONLY

# OPERERVE LEGEND

Very Important Overhead Route

● POLG

EDMETIC / PLANT AFFECTED / NOT AFFECTED

INFO AND LEGEND PROVIDED BY

DATE: 23/04/19

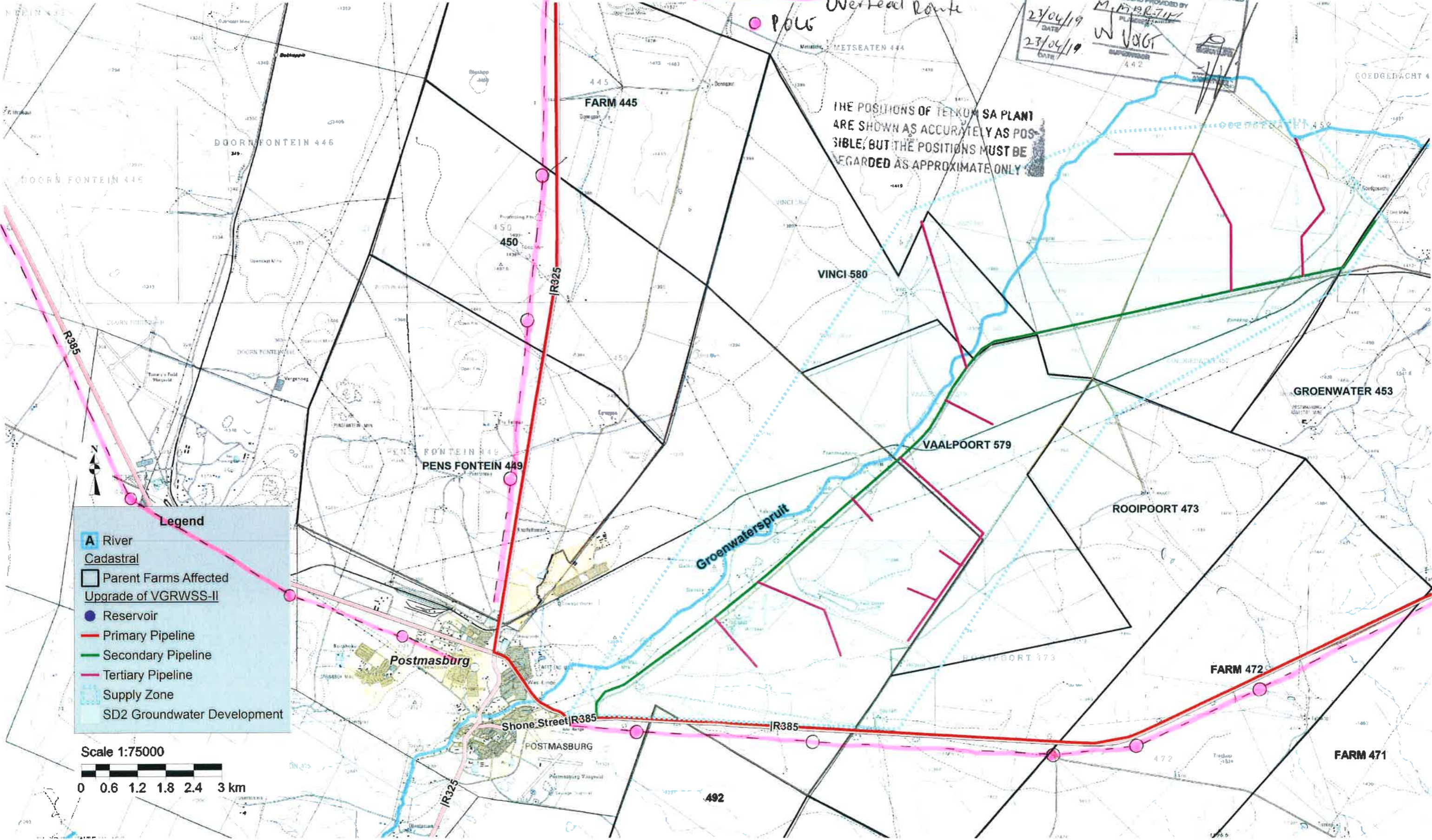
DATE: 23/04/19

PLANNED BY: M. J. B. R. J. W.

SUPERVISOR: W. V. G. O. T.

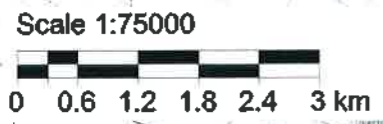
442

THE POSITIONS OF TETKUM SA PLANT ARE SHOWN AS ACCURATELY AS POSSIBLE; BUT THE POSITIONS MUST BE REGARDED AS APPROXIMATE ONLY



**Legend**

- River
- Cadastral
- Parent Farms Affected
- Upgrade of VGRWSS-II
- Reservoir
- Primary Pipeline
- Secondary Pipeline
- Tertiary Pipeline
- Supply Zone
- SD2 Groundwater Development





P.O. BOX 1673  
SUNNINGHILL  
2157

147 Bram Fischer Drive  
Ferndale  
2194

Phone: (011) 781 1730  
Fax: (011) 781 1731  
Email: donavanh@nemai.co.za

## PROPOSED UPGRADING OF THE VAAL GAMAGARA REGIONAL WATER SUPPLY SCHEME PHASE 2

### REPLY FORM

Official use

Date received

Our reference

Status

**Note:** The purpose of the Reply Form includes the following:

1. Registration of Interested and Affected Parties;
2. Obtain contact details to include in the project database; and
3. Allow for comments and concerns to be raised regarding the proposed project.

Please tick the relevant project component that you are affected by / interested in:

Upgrade of  
VGRWS Phase 2

SD1 & SD2  
Groundwater  
Abstraction

#### 1) GENERAL INFORMATION

Name of organisation (if applicable)	P.J. Kilian (Pty.) Ltd.
Name & Surname	N/A
Postal Address	P.O. Box 294 Bredasdorp 7280
Physical Address (please provide full farm description, if applicable)	Farm Grootpan, Portion 16 of Consolidated Farm Carter Block Number 458, Hay District, Northern Cape Province
Telephone No.	083 626 6813 / 025 425 1021
Fax No.	N/A
Email Address	genekilian@gmail.com

Registration as an  
Interested & Affected Party:

YES

NO

*B. Kilian*  
03/05/2019  
7

## 2) COMMENTS

### 2.1) Potential issues or concerns associated with the project?

- Impact of the project on our groundwater quality, quantity and reliability (especially during drought periods);
- Routes of additional infrastructure (pipelines and electricity) on the property, location of abstraction pump stations, and impact thereof on farming activities;
- Servitudes for new infrastructure and impact thereof on farming activities;
- Loss of security to the property due to additional maintenance and operational access requirements by utility providers (ESKOM, Sedibeng Water, etc.). There is a significant increased risk of stock theft associated with this, as well as the usability of the grazing in the areas that needs to be accessed by these utility providers. Typically, sheep cannot not be kept in areas where it is easy to steal them, which reduces the usability of the farm.

### 2.2) Specific requirements in terms of the environmental assessments?

- Impact of high volumes of ground water abstraction on the water table;
- Impact of dropped water table levels on wild olive tree forests on the property (wild olive trees are protected species in Northern Cape).
- The area is becoming more arid due to changed rainfall patterns. The large natural pan that exists on the northern boundary of the farm typically filled up to capacity every eight to ten years. However, 1991 was the last time that there was water in this pan, yet this project wants to tap into an underground resource that has been replenished at a reducing rate for at least the last 27 years!!!

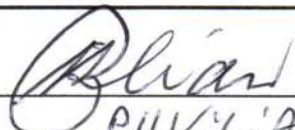
### 2.3) Key stakeholders to be engaged with (provide contact details, if possible)?

- Gene Kilian (Company Secretary)      Contact Number: 083 626 6813 / 025 425 1021  
E-Mail: [genekilian@gmail.com](mailto:genekilian@gmail.com)
- Peet Kilian (Chairman)      Contact Number: 082 658 8301 / 021 556 5048  
E-mail: [phkilian@isat.co.za](mailto:phkilian@isat.co.za)

### 2.4) General Comments

- As this project can potentially reduce the available water for this farm, the project must ensure that we will always (especially in times of drought) have enough water of suitable quality for our needs.
- If needed water of a suitable quality must be provided from the pipelines during periods of droughts to replace any reduced or lost water availability, or deteriorated water quality issues. Suitable supply points must therefore be engineered into the pipelines during the design and construction phase.
- Ground water levels and quality must be monitored and managed continuously if the SD1 area abstraction project are going to be implemented.
- Please provide us with copies of the various reports as they become available.

Signature

  
P.H. KILIAN

Date

03/05/2019

— Thank you for your participation —



Mon 01/04/2019 08:36 AM


Ackerman Pieter <AckermanP@dws.gov.za>


RE: 10689 - Proposed Vaal Gamagara Regional Water Supply Scheme Phase 2 - Notification

To: Donavan Henning

Cc: Mulaudzi Nkhumbudzeni; Kuse Lumka; Roets Wietsche; Meulenbeld Paul; Khosa Tsunduka; Tonjeni Mzuvukile; Adeyileka Esther Thivhonal(KBY)

 You replied to this message on 02/04/2019 04:15 PM.

 Message

 SECTION 21 (c) and (i) Pre-appl checklist.docx

Hi Donovan

Herewith Section 21 c and i checklist

Regards

Pieter Ackerman (PrLArch)  
Chief Landscape Architect  
Department of Water and Sanitation (DWS), South Africa  
Sub Directorate Instream Water Use  
Tel: 012 336 8217  
Cell: 082 807 3512  
Fax: 012 336 6608



**Taking a five-minute shower a day instead of a bath, will use a third of the water, saving up to 400 liters of water a week.**







Mon 01/04/2019 09:18 AM

Natasha Higgitt <nhiggitt@sahra.org.za>

RE: 10689 - Proposed Vaal Gamagara Regional Water Supply Scheme Phase 2 - Notification

To: Donovan Henning

 Click here to download pictures. To help protect your privacy, Outlook prevented automatic download of some pictures in this message.

Good morning,

Please note that all development applications are processed via our online portal, the South African Heritage Resources Information System (SAHRIS) found at the following link: <http://sahra.org.za/sahris/>. We do not accept emailed, posted, hardcopy, faxed, website links or DropBox links as official submissions.

Please create an application on SAHRIS and upload all documents pertaining to the Environmental Authorisation Application Process. As per section 38(8) of the National Heritage Resources Act, Act 25 of 1999 (NHRA), an assessment of heritage resources must form part of the process and the assessment must comply with section 38(3) of the NHRA.

Once all documents including all appendices are uploaded to the case application, please ensure that the status of the case is changed from DRAFT to SUBMITTED. Please ensure that all documents produced as part of the EA process are submitted as part of the application, and are submitted to SAHRA at the beginning of the Public Review periods. Once all these documents have been uploaded, I will be able to issue an informed comment as per section 38(4) and 38(8) of the NHRA.

Kind regards,




Mon 01/04/2019 09:31 AM

Moses Moalahi <moseslebogang@gmail.com>

Registered as interested party for Vaal Gamagara pipeline expansion phase two

To Christian Van Der Hoven

 You forwarded this message on 01/04/2019 10:00 AM.

I want to register as interested party for Vaal Gamagara pipeline expansion phase two.  
I can engage others stakeholders to come on board during public participations.

Moses Moalahi  
072 745 7161



Wed 10/04/2019 09:43 AM

Devine Rooi <rooidevine@gmail.com>

REGISTRATION AS AN INTERESTED AND AFFECTED PARTY FOR ENVIRONMENTAL ASSESSMENT Olifantshoek Northern Cape

To Christian Van Der Hoven

Hello Christian

I would like to query that the Environmental Assessment Proposed Upgrading of the Vaal Gamagara Regional Water Supply Scheme Phase 2 Public meetings are still gonna take place in Olifantshoek Wednesday 10 April 2019 today 14:00-16:30 pm Diepkloof Community Hall Olifantshoek Northern Cape.

Thank you

Kind regards

Devine Rooi  
0635599994



Tue 09/04/2019 02:06 PM

Mothobi Martins (MC) <MartiMC2@telkom.co.za>

CPSB0163\_19 - PROPOSED UPGRADING OF THE VAAL GAMAGARA REGIONAL WATER SUPPLY SCHEME PHASE 2

To Donavan Henning

Good day

We acknowledge the receipt of your application: WAYLEAVE APPLICATION: CPSB0163\_19 - PROPOSED UPGRADING OF THE VAAL GAMAGARA REGIONAL WATER SUPPLY SCHEME PHASE 2, Your ref 10689 , our ref CPSB0163-19, IN THIS REGARD.

Regards

Mothobi Martins

[MartiMC2@telkom.co.za](mailto:MartiMC2@telkom.co.za)

051 401 6320




Tue 09/04/2019 03:57 PM

John Geeringh <GeerinJH@eskom.co.za>

RE: 10689 - Proposed Vaal Gamagara Regional Water Supply Scheme Phase 2 - Notification

To: Donovan Henning

 You replied to this message on 10/04/2019 07:05 AM.

Can you please send me KMZ files of the routes where the pipe line will be replaced / installed so I can check against our servitudes and power lines.

Regards  
John



---

**From:** Donovan Henning [<mailto:DonovanH@nema.co.za>]

**Sent:** 29 March 2019 03:26 PM

**Subject:** 10689 - Proposed Vaal Gamagara Regional Water Supply Scheme Phase 2 - Notification

## NOTICE OF ENVIRONMENTAL ASSESSMENT

### PROPOSED UPGRADING OF THE VAAL GAMAGARA REGIONAL WATER SUPPLY SCHEME PHASE 2

Notice is hereby given in terms of the following:

- The Environmental Impact Assessment (EIA) Regulations of 2014 (as amended), in terms of the National Environmental Management Act (Act No. 107 of 1998) (I

## Christian Van Der Hoven

---

**From:** Sakkie van Niekerk <Sakkie.vanNiekerk@assmang.co.za>  
**Sent:** 18 April 2019 01:00 PM  
**To:** Donovan Henning  
**Subject:** Vaal Gamagara Watervoorsiening Skema Faze 2

Hi Donovan

In relation to the meeting in Postmasburg on the 10/4/19.

I gave you a copy of my email regarding this as well as the Reply form. I just want to mention some issues and ask some questions I would like you to answer.

You gave an explanation why you started the last leg (pipeline from Olifantshoek cross North) of this upgrade first this does not really make sense as there for quite some time is no pressure on this line as the demand is higher than the supply (pipes will not burst).

If you look at the study for the solar plant it was clearly pointed out that there is not enough water to start this project but Sedibeng mention that they will have enough once the upgrade is done and the new well fields SD1 and SD2 is operational.

The solar plant is currently up and running and maybe this is the reason for the lack of water in the Sedibeng lines. Looking at these facts this whole process is like most of the attendees at the meeting feel just one necessary nasty step in the final process that was already approved duo to commitments made to huge projects.

Wetlands is protected but still these groundwater projects just go on no matter if they destroy these wetlands which is the case for Danielskuil and Postmasburg. You and the groundwater consultant make statements that with proper controls in place this will not happen but we see this happening near Sishen (Gamagara) and Kolomella and West end Diamond mine (Groenwater spruit) with all the controls as well as licences (I hope) in place.

With the current SD2 Project up to now although the closest borehole is just more than 600 m away from my borehole and my property border even closer I was never contacted no water level measuring was done no pump testing. With this info you try to tell me my borehole in the same geology will not be affected even when you plan to lower the groundwater by 7 meters. My current borehole is only 18 meters deep with the water level variance below surface of 12 to 14 meter. And a current Yield at 11000 litres per hour. The water level was higher prior to the dewatering of the West einde Diamond mine.

### QUESTIONS

While upgrading the total line why not make sure the extra water needed for this area can be pumped from the Vaal river?

Was a wetland study done?

Was a proper dolomite study done and a report compiled?

Was a study done to see if more water can be brought in from the Vaal river?

Why was nothing done on my property? ( There was always people present on property).

Who will control the pumping?

Can my property be included in a testing and monitoring system?

Can you keep your promises to me after you hand over the project?

Areas of impact always became bigger after the initial projections especially when controls are not followed why not looking at a slightly bigger area around the boreholes? (600 m is very close to be excluded).

The groundwater consultant recommend a yearly audit of the ground water. Who will pay for that? (Sedibeng currently struggle financially they even mention in some of their reports that new entries into the pipe line should be willing to provide money).

The Municipality currently pump in this area and even drill more boreholes was this included in the study?

Was the pumping of the Diamond mine included?

A lot of bore hole extraction is done by the Municipality in Postmasburg is that licensed and incorporated in the study? (Please give pump data and impact zone of all additional pumping).

Recent studies in the area show that increase in bushes may drastically influence rainfall recharge negatively is that properly addressed in the recharge figure?

Can the SD2 report be made available to all interested and affected parties?

Apparently dykes etc. control the movement of water but weathered zones can be as deep as 30 meters with a lot of boreholes in the area shallower than that will it still be a control?  
Looking at the borehole level data slides provided there already a decrease in water levels with the current pumping (not natural cycle) with this added volume will this not become serious?  
Was a proper environmental assessment done especially on wetlands can we see the report?  
Why was the possibility of extracting water from the current mines where dewatering is needed and footprint already established not investigated? Supply report if this was done.  
Why spend massive amounts of money developing a new area if just a buy in into the current dewatering systems with minor upgrading can be done? On all interested meetings of the mines they claim the current de-watering areas is not under stress and they got licenses for more extraction but only pump according to contract.  
Does the municipality and the diamond mine have licences can that be supplied to us and since no interested and effected party meetings or monitoring is happening how is this possible?  
The Diamond mine release a lot of water downstream why can this not be pumped into the line.  
Why is no upgrade planned on the current water purifying systems?  
Not so long ago studies was done to recharge aquifers in the Kathu and Kolomella area because of too much water for the pipeline what happened to this water or were the water models wrong?  
Who will replace my borehole if pumped dry?  
Who will compensate me if sinkholes start developing?  
Who will replace lives lost due to sinkholes?

This whole project look more to me like a way to make a lot of money by a few individuals without really trying to address the problems by properly investigating all other much cheaper possibilities. A proper study should be done on the life of mine of the big role players in this area before embarking on this project.

Hope you at least try to answer my questions.

Regards

Sakkie



Posbus 1673  
SUNNINGHILL  
2157

147 Bram Fischer Rylaan  
Ferndale  
2194

Tel: (011) 781 1730  
Faks: (011) 781 1731  
Epos: donavanh@nemai.co.za

## VOORGESTELDE OPGRADERING VAN DIE VAAL GAMAGARA WATERVOORSIENING SKEMA FASE 2

### TERUGVOERINGSVORM

<b>Amptelike Gebruik</b>	<b>Datum ontvang:</b>	<b>Ons verwysing:</b>	<b>Status:</b>

**Note:** Die doel van die Terugvoeringsvorm sluit die volgende in:

1. Registrasie as 'n Belanghebbende en Geaffekteerde Party;
2. Bevestig kontakbesonderhede vir die databasis van Belanghebbende en Geaffekteerde Partye; en
3. Maak voorsiening vir kommentaar oor die voorgename projek.

Dui asseblief die relevante projek-komponent wat u affekteer / waarin u belangstel aan:

Opgradering van  
VGRWSS Fase 2

BO1 & BO2  
Grondwater  
Onttrekking

#### 1) ALGEMENE INLIGTING

Organisasie se Naam: <i>(indien toepaslik)</i>	WEGO AFRICA (PTY) LTD.
Naam en Van:	WILLEM FOURIE
Posadres:	POSBUS 1078 POSTMASBURG 8400.
Fisiese Adres: <i>(dui asb. volle plaasnaam aan, indien toepaslik)</i>	KAPSTEWEL. (VAALKOP)
Telefoon-nommer:	083 305 1317
Selfoon-nommer:	083 305 1317
Faks-nommer:	
e-posadres:	willem@amggroup.co.za.

Registrasie as 'n  
Belanghebbende en  
Geaffekteerde Party:

JA

NEE



2) **KOMMENTAAR**

2.1) Moontlike kwessies of besware aangaande die projek:

Geen.

2.2) Spesifieke vereistes van die Omgewingsbepalings

Geen.

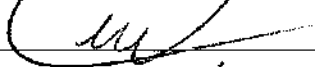
2.3) Kontakbesonderhede van enige ander moontlike Belanghebbende en Geaffekteerde Partye waarvan u dalk bewus is:

Geen.

2.4) Algemene kommentaar: (LW bykomende bladsye mag ingesluit word indien die ruimte wat voorsien word, te min is)

ONS WIL AANSOEK DOEN VIR 'N  
GROTER AANSLUITING VANUIT DIE  
SEDIENING WATERLYN - HUIDIGE EEN  
IS IN 20 mm "PLAAS AFTAP."

Handtekening



Datum

12/04/2019

— U deelname word opreg waardeer —



**BOTHACOPO**  
ATTORNEYS

Tel: 011 867 0119, Fax: 011 867 0335  
Meyersdal Iico Office Park, Block B, 1st Floor  
Cor Hennie Alberts Rd and Michelle Avenue  
P.O. Box 5339, Meyersdal, 1447

ATTORNEYS • CONVEYANCERS • NOTARIES

Your Reference: SECURITIES DEPARTMENT  
Our Reference: E Botha /leani / CB 2766  
Date: 5 March 2019

NEDBANK LIMITED  
NEDBANK LIMITED  
FIRST FLOOR- LAKEVIEW CAMPUS  
16 CONSTANTIA BOULEVARD  
CONSTANTIA KLOOF  
ROODEPOORT

BY HAND

ATTENTION: ANN HORN – TEL 011 534 6067

OUR BOND: WEGO AFRICA CC IFO NEDBANK LIMITED  
OVERPORTION 4 (VAALKOP) OF FARM KAPSTEWEL 436

We refer to the abovementioned matter and attach hereto the following documentation:

**DOCUMENTS ENCLOSED**

Original Title Deed T4650 / 2018	YES
Original Mortgage Bond B 1419 / 2018	YES

Yours Faithfully

**BOTHA COPO ATTORNEYS**

Per: *Leani Mallalieu*

Email: [deeds@bothacopo.co.za](mailto:deeds@bothacopo.co.za)

KINDLY ACKNOWLEDGE RECEIPT HEREOF VIA EMAIL

7 JOH27/0691

HUGO MATHEWSON & OOSTHUIZEN INC  
3A BEAN STREET  
KIMBERLEY  
8301  
DOCEX 32 KIMBERLEY

FFPS:	R3057-00
EXEMPT GR:	
EXEMPTION APPLICABLE:	
GNS EXISE:	
AGS REG:	

Prepared by me,

*[Signature]*  
CONVEYANCER  
PIETER JACOBUS HUGO

VERBIND	MORTGAGED
VIR FOR R	4650 000-00
B000001419 / 2018	<i>[Signature]</i> REGISTRAR
2018-12-03	

T 000004650 / 2018

## DEED OF TRANSFER

BE IT HEREBY MADE KNOWN:

THAT PIETER JACOBUS HUGO

appeared before me, REGISTRAR OF DEEDS at KIMBERLEY, he, the said Appearer, being duly authorised thereto by a Power of Attorney granted to him by

**GOLDEN FALLS PROPERTIES PROPRIETARY LIMITED**  
Registration Number 2004/008495/07

dated 17 September 2018

and signed at JOHANNESBURG

HUGO MATHEWSON & OOSTHUIZEN INC.

AND the said Appearer declared that his principal had on **12 February 2018** truly and legally sold by Private Treaty and that he, the said Appearer in his capacity aforesaid, did, by these presents cede and transfer to and on behalf of:

**WEGO AFRICA PROPRIETARY LIMITED**  
**Registration Number 2012/213583/07**

its successors in title or assigns in full and free property:

**PORTION 4 (VAALKOP) OF THE FARM KAPSTEWEL 436**  
**SITUATE IN THE DISTRICT OF HAY**  
**NORTHERN CAPE PROVINCE**

**IN EXTENT: 770,8788 (SEVEN HUNDRED AND SEVENTY COMMA EIGHT SEVEN EIGHT EIGHT) HECTARES**

**FIRST TRANSFERRED by Deed of Transfer Number T603/1955 with diagram relating thereto and held by Deed of Transfer Number T3133/2012**

**A. SUBJECT to the following condition as created in Deed of Grant (HAY QUITRENTS, BOOK 18, FOLIO 3), namely:**

- "1. That the Government shall at all times have the right of resuming the whole or a portion of the said land, if required for public purposes, on payment to the Proprietor of such sum of money in compensation as may be mutually agreed upon by the parties concerned, or failing such agreement, as may be determined by arbitration.**
  
- 2. That the Proprietor shall allow to the public traveling along any of the roads running over the land hereby granted, the right to pass over and graze their loose cattle, horses, sheep and goats, to an extent not exceeding 365,76 metres on each side of any such road and to outspan, graze and water stock on the land hereby granted."**

- B. AND FURTHER SUBJECT** to the conditions of the Prospecting Contract and Mining Lease Agreement (234/1929) as created in Deed of Transfer Number T6567/1929.
- C. AND FURTHER SUBJECT** to the reservation in favour of Andries Jacobus Bester of certain trading and other rights as contained in Notarial Deed of Servitude Number 291/1932 as are more fully set out in Notarial Deed of Servitude Number K291/1932S.
- D. AND FURTHER SUBJECT** to an everlasting right to electricity in favour of ESCOM as are more fully set out in Notarial Deed of Servitude Number 49/1969S.
- E. AND FURTHER SUBJECT** to Expropriation Notice being a portion of the above mentioned property, measuring 4,7951 hectares in favour of the Provincial Administration in terms of aqueduct.
- F. AND FURTHER SUBJECT** to an Session of Servitude in favour of the Republic of South Africa as created in Deed of Session Number K31/78S.
- G. AND FURTHER SUBJECT** to an everlasting right of way in favour of ESCOM as created in Notarial Deed Number K29/89S.
- H. AND FURTHER SUBJECT** to an everlasting right of way to conduct electricity in favour of ESCOM as created in Notarial Deed Number K69/77S.
- I. AND FURTHER SUBJECT** to the following conditions as endorsed on Deed of Transfer Number T1274/1990, namely:

"By Notarial Deed dated 3<sup>rd</sup> December 1929, passed by Notary L Parkin and witnesses the within named David Peiser, cedes and assigns to the Manganese Corporation (1929) Limited, all his rights to the base metals and the base minerals on certain piece of land being Lot M.85 (now known as the farm KAPSTEWEL 436) situate in the division of Hay in extent 3557,6242 (Three Thousand Five Hundred and Fifty Seven comma Six Two Four Two) hectares."

WHEREFORE the Appearer, renouncing all the right, title and interest which the said

**GOLDEN FALLS PROPERTIES PROPRIETARY LIMITED  
REGISTRATION NUMBER 2004/008495/07**

heretofore had to the premises, did, in consequence also acknowledge it, to be entirely dispossessed of, and disentitled to, the same; and that, by virtue of these presents, the said

**WEGO AFRICA PROPRIETARY LIMITED,  
REGISTRATION NUMBER 2012/213583/07**

its successors in title or assigns now is and henceforth shall be entitled thereto, conformably to local custom, the State, however, reserving its rights, and finally acknowledging the purchase price of the property hereby transferred to be the sum of **R10 000 000,00 (TEN MILLION RAND)**, the fair value being R11 500 000.00 (Eleven Million Five Hundred Thousand Rand)

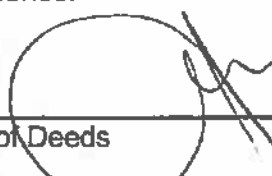
IN WITNESS WHEREOF I, the said Registrar of Deeds together with the Appearer, have subscribed to these presents, and have caused the Seal of Office to be affixed thereto.

THUS DONE AND EXECUTED at the Office of the REGISTRAR OF DEEDS at **KIMBERLEY** on

2018-12-03

  
\_\_\_\_\_  
q.q. Signature of Appearer

In my presence:

  
\_\_\_\_\_  
Registrar of Deeds

HUGO MATHEWSON & DOGTHUIZEN INC.

## APPENDIX E5

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### MINUTES OF PUBLIC MEETINGS



**ANNOUNCEMENT PHASE: UPGRADING OF THE VAAL GAMAGARA REGIONAL  
WATER SUPPLY SCHEME (VGRWSS) PHASE 2**

**PUBLIC MEETING DETAILS**

**Purpose of the Meeting:** Announcement Phase  
**Date of the Meeting:** 09 April 2019  
**Time:** 09H30 – 12H00  
**Venue:** Tsholofelo Hall, Tidimalo, Delportshoop

**ATTENDEES**

- Pro-Plan
- Golder
- Nemaï Consulting
- NM Environmental
- VGRWSS-II: Affected landowners and community members

Please refer to **Annexure A** for a copy of the Attendance Register.

**APOLOGIES**

There were no apologies noted.



## **AGENDA**

### **1. Welcome and Introduction**

Mr D. Henning of Nemaï Consulting welcomed everyone to the public meeting and introduced the members of the project team.

### **2. Attendance Register**

The attendance register was circulated among the attendees and signed. Please refer to **Annexure A** for a copy of the Attendance Register.

### **3. Purpose and Rules of the Meeting**

The purpose and rules of the meeting were presented by D. Henning.

It was explained that the purpose of the meeting included the following:

- To provide an overview of the proposed project;
- To provide an overview of the environmental assessments associated with the project;
- To provide a platform for project-related discussions;
- To obtain input for the environmental assessments.

### **4. Overview of VGRWSS- Phase 2**

- The background to the proposed project was presented by Mr. J. Botha of Pro-Plan Engineering.
- An overview of the Groundwater Investigations for the Source Development (SD) Areas was presented by Mr. F. Wiegman of Golder.

### **5. Environmental Assessments**

Mr D. Henning presented an overview of the following:

- Types of environmental assessments to be undertaken for the following project components: (1) Upgrade of VGRWSS Phase 2; (2) SD1 and SD2 Groundwater Abstraction; and (3) Borrow Pits;
- Key elements of the environmental assessments; and
- Timeframes.

## 6. Discussion

No.	Comment/ Query/ Issue	Raised by	Response
1.	<ol style="list-style-type: none"> <li>1. Where are the proposed groundwater sources situated?</li> <li>2. Is water currently being abstracted from the SD areas for the pipeline?</li> <li>3. Expressed a concern that if water is abstracted from the Danielskuil area, then it will impact the groundwater below.</li> <li>4. Under the Northern Cape Agricultural Union, there are 5 farmer's associations in the area. It was suggested that the venue in Ulco be used for future meetings.</li> <li>5. Any concerns raised about the project at the next farmers association meeting in May 2019 will be forwarded to D. Henning, as well as the details of the farmers in the area affected by the project.</li> </ol>	B. Liebenberg	<ol style="list-style-type: none"> <li>1. J. Botha indicated that the proposed SD1 area stretches from Danielskuil to the south, over the freeway and railway line. He noted that SD2 is situated near Postmasburg.</li> <li>2. J. Botha indicated that currently no water is being abstracted from the SD1 and SD2 areas.</li> <li>3. F. Wiegman indicated that the project does not entail dewatering but relates to abstracting groundwater for water supply. The groundwater will only be abstracted within the rainfall supply areas, where the water level is expected to decrease from 4 – 6m. No impact is foreseen to springs outside the boundaries of the SD areas due to specific compartmentalization of the production area, viz. SD1. The project will not impact the base flow. The SD areas does not include the Papkuil area.</li> <li>4. D. Henning stated that future meetings for the SD1 and SD2 component will possibly be held at the venue in Ulco.</li> <li>5. D. Henning indicated that these concerns will be considered further.</li> </ol>
2.	<ol style="list-style-type: none"> <li>1. How will access be gained to the pipeline servitude?</li> <li>2. Will both pipelines be removed?</li> <li>3. What is the size of the pipeline?</li> <li>4. Where will the bedding material be sourced from?</li> <li>5. Will there be a water purification system at each of the proposed SD areas?</li> </ol>	F. de Jager	<ol style="list-style-type: none"> <li>1. J. Botha indicated that access for landowners along the pipeline will be accommodated during the construction phase. A survey has been done to identify the existing infrastructure along the route. D. Henning added that measures for access during construction and operational phases will be included in the Environmental Management Programme (EMPr).</li> <li>2. J. Botha explained that the scheme will have to remain operational while the pipeline is being</li> </ol>

No.	Comment/ Query/ Issue	Raised by	Response
			<p>replaced. Thereafter the old pipeline will be decommissioned.</p> <p>3. J. Botha stated that from Delpportshoop to Postmasburg an 800mm pipeline is proposed, and from there the pipeline will be 900mm in diameter.</p> <p>4. J. Botha indicated that a Geotechnical Investigation will be undertaken in order to identify possible borrow pits for sourcing construction material.</p> <p>5. F. Wiegmans stated that the groundwater from the SD areas will be abstracted and will then be pumped directly into the main pipeline, without purification.</p>
3	<ol style="list-style-type: none"> <li>1. I live on the hills of the Ghaap Mountains where we currently have springs. I have a spring with a strong yield and this year is the first time that it has dried up. Rainfall has been low and boreholes have dried up.</li> <li>2. Concern raised with regards to the risk of the formation of sinkholes.</li> <li>3. How will the abstraction be managed to ensure that our groundwater use is not affected?</li> </ol>	D. Shaw	<ol style="list-style-type: none"> <li>1. F. Wiegmans stated that this project does not entail dewatering, as is the case with the mines, but proposes the abstraction of groundwater within the limits of the annual recharge. There will be a water level drawdown of approximately 4 - 6m in the areas of the wellfields.</li> <li>2. F. Wiegmans noted that if the natural groundwater level is 10m and the drawdown is approximately 10m, ground stability might become a risk. However, if the groundwater level is deep (approximately 30 - 40m) and the upper soil has stabilised, then it won't be possible for such a collapse to take place. He noted that surface / rainwater ingress via preferential pathways on the ground surface may cause ground stability deterioration during periods of heavy downpours. . D. Henning indicated that previous groundwater reports will be appended to the SD1 and SD2 Basic Assessment Report (BAR), and a hard copy with a CD will be provided to their Agricultural Union.</li> <li>3. F. Wiegmans stated that conditions must be included in the Water Use Licence which stipulate that should</li> </ol>



No.	Comment/ Query/ Issue	Raised by	Response
			the levels drop further than predicted , then the abstraction must be adjusted



## **7. Way Forward**

Attendees were requested to submit any concerns or comments.

## **8. Closure**

The meeting was closed at approximately 12H00.

### **Annexures:**



1. Attendance Register
2. Presentations





**ANNEXURE A:  
ATTENDANCE REGISTER**



**NM Environmental**

	<b>ATTENDANCE REGISTER</b> Announcement Phase Public Meeting	<b>Queries:</b>	Donovan Henning ☎ 011 781 1730 📠 011 781 1731 ✉ donavanh@nemui.co.za
		<b>Project Name:</b>	Upgrading of the Vaal Gamagara Regional Water Supply Scheme Phase 2
<b>Applicant:</b>		<b>Date:</b>	9 April 2019
		<b>Time:</b>	09.30 – 12.00
		<b>Venue:</b>	Tsholofelo Hall, Tidimalo, Delportshoop

Representative Name and Surname	Name of Organisation	Contact Details	Sign	Apologies
Walther van der Westhuizen	Pro-Plan	☎: 011 954 4441 📠: 082 807 3527 ✉: wvdwesthuizen@proplansa.co.za		
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Donavan Henning	Nemai Consulting	☎ 011 781 1730 📠 082 891 0604 ✉ donavanh@nemui.co.za		
Christian Van Der Hoven	Nemai Consulting	☎ 011 781 1730 ✉ ChristianVdH@nemui.co.za		
Njabulo Mkhosana	NM Environmental	☎ 065 921 9371 ✉ nmkhosana@nmenvironmental.co.za		
FRANS WIEGMANS	GOLDER	☎ 082 787 4670 ✉ fwiegman@golder.com		
Hannes Mabbet	privaat	☎ 07 0071 5202 ✉ getmak.billing@gmail.com		
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Representative Name and Surname	Name of Organisation	Contact Details	Sign	Apologies
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A. Lieberberg	Lieberberg Boerdag	<del>karolisdrift@gmail.com</del> 0823732167		skad
		karolisdrift.bl@gmail.com		





**ANNEXURE B:  
PRESENTATION**



**ANNOUNCEMENT PHASE: UPGRADING OF THE VAAL GAMAGARA REGIONAL  
WATER SUPPLY SCHEME (VGRWSS) PHASE 2**

**PUBLIC MEETING DETAILS**

**Purpose of the Meeting:** Announcement Phase  
**Date of the Meeting:** 09 April 2019  
**Time:** 14H30 – 17H00  
**Venue:** Kgatelopele Municipal Town Hall, 222 Barker Street, Danielskuil

**ATTENDEES**

- Pro-Plan
- Golder
- Nemaï Consulting
- NM Environmental
- VGRWSS-II: Affected landowners and community members

Please refer to **Annexure A** for a copy of the Attendance Register.

**APOLOGIES**

There were no apologies noted.

## **AGENDA**

### **1. Welcome and Introduction**

Mr D. Henning of Nemaï Consulting welcomed everyone to the public meeting and introduced the members of the project team.

### **2. Attendance Register**

The attendance register was circulated among the attendees and signed. Please refer to **Annexure A** for a copy of the Attendance Register.

### **3. Purpose and Rules of the Meeting**

The purpose and rules of the meeting were presented by D. Henning.

It was explained that the purpose of the meeting included the following:

- To provide an overview of the proposed project;
- To provide an overview of the environmental assessments associated with the project;
- To provide a platform for project-related discussions;
- To obtain input for the environmental assessments.

### **4. Overview of VGRWSS- Phase 2**

- The background to the proposed project was presented by Mr. J. Botha of Pro-Plan Engineering.
- An overview of the Groundwater Investigations for the Source Development (SD) Areas was presented by Mr. F. Wiegman of Golder.

### **5. Environmental Assessments**

Mr D. Henning presented an overview of the following:

- Types of environmental assessments to be undertaken for the following project components: (1) Upgrade of VGRWSS Phase 2; (2) SD1 and SD2 Groundwater Abstraction; and (3) Borrow Pits;
- Key elements of the environmental assessments; and
- Timeframes.

## 6. Discussion

No.	Comment/ Query/ Issue	Raised by	Response
1.	What will the typical construction servitude look like?	Meeting Attendee	J. Botha stated that the typical construction servitude is about 10m to 15m wide, however, if the permanent servitude is fixed in that area then we will need to apply for a wider servitude via the relevant authorities. The servitude needs to make sufficient provision for construction to be undertaken, which includes the movement of construction vehicles, placement of materials (topsoil and sub-soil), as well as the stringing of sections of pipeline being delivered to site. The contractor will be required to work within that servitude. The diameter of the pipeline ranges between 800mm and 900mm.
2.	Currently the depth of the borehole on my farm is 45m. There are approximately 4 or 5 other boreholes that are situated along a wetland, in close proximity to our houses. The boreholes are all shallow, with a depth of about 1m. What will happen if the water level drops past 2m, and the boreholes dry up?	P.C. Steenkamp	<p>F. Wiegman indicated that the water depths in local [private] boreholes will have to be part of the proposed Sd1 and SD2 groundwater monitoring network/program. A scheme monitoring committee for each source development area (SD's) is foreseen.</p> <p>D. Henning added that the Water Use Licence for SD1 and SD2, if issued, must contain specific conditions with regards to managing the proposed groundwater abstraction. If these conditions are contravened, then there will be non-compliance with the Water Use Licence and enforcement measures can be implemented. He requested that the farmers provide specific concerns related to their respective farms, which will then be assessed further as part of the Basic Assessment. He added that a Wetland Impact Assessment, amongst others, will also be undertaken as part of the Basic Assessment.</p>

No.	Comment/ Query/ Issue	Raised by	Response
3.	<ol style="list-style-type: none"> <li>1. It was indicated that the project has not received an Environmental Authorisation or Water Use Licence, however, last year the Minister already announced job opportunities for this project. How can this be done if environmental approvals have not been obtained?</li> <li>2. If Sedibeng Water was unable to monitor the boreholes during the pre-feasibility stage of the project, how will they undertake monitoring during the operational phase?</li> <li>3. If the finances have been secured and the project is complete and they start to abstract groundwater and something goes wrong, will this project really be stopped if we indicate that our water levels are dropping?</li> <li>4. Enquired about groundwater abstraction at SD3, at the Lohatla Military Base? Why must groundwater be abstracted on the farms, when this option can be pursued?</li> <li>5. Olive trees are very valuable. When Olive trees die, the grazing value of the land decreases. The potential impacts of groundwater abstraction to Olive trees need to be investigated by the terrestrial ecological specialist.</li> <li>6. It was initially stated that the period for groundwater abstraction will be 5 – 6 years. At the end of the study this period was changed to 15 years.</li> <li>7. The area to be affected by construction activities has no topsoil, and rehabilitation will thus not be possible.</li> </ol>	C. York	<ol style="list-style-type: none"> <li>1. D. Henning confirmed that the processes to apply for Environmental Authorisation and a Water Use Licence have not been completed yet.</li> <li>2-3. D. Henning indicated that baseline monitoring needs to be undertaken one year before operation. He further noted that certain conditions pertaining to monitoring needed to be included in the Water Use Licence, which will legally bind the applicant. He added that the Basic Assessment Report will include key recommendations that may influence the conditions of the Environmental Authorisation. F. Wiegman's added that audits needed to be undertaken by an external/independent party.</li> <li>4. F. Wiegman's indicated that they were unable to conduct groundwater investigations at SD3 as they were unable to get hold of the relevant representatives at the Lohatla Military Base.</li> <li>5. D. Henning indicated that a Terrestrial Ecological Impact Assessment will be undertaken as part of the Basic Assessment, and this concern will be investigated further as part of this study.</li> <li>6. F. Wiegman's indicated that the Water Use Licence will need to be reviewed after 5 years sequentially, to ensure that there is a balance between abstraction and recharge to the system.</li> <li>7. D. Henning stated that in some instances when there is no or insufficient topsoil, then topsoil will need to be brought in from another area to allow for adequate rehabilitation. This will be considered further in the Basic Assessment.</li> <li>8. J. Botha noted that from a long-term perspective the demand for mining is decreasing.</li> </ol>

No.	Comment/ Query/ Issue	Raised by	Response
	8. Mining in the region is intensifying and towns are becoming larger.		
4.	If the entire pipeline is going to be replaced, why not enlarge the pipeline and abstract more water from the Vaal River?	F. Maritz	<p>J. Botha indicated that studies were conducted from 2011 – 2014, which determined the initial water demand of 40 million m<sup>3</sup>/a. This volume was subsequently revised following further investigations to 28 million m<sup>3</sup>/a. The Feasibility Study concluded that the pipeline will need to be replaced and that the water to be supplied will be sourced from a combination of the Vaal River, groundwater SD's and mine dewatering in the area. Abstracting more water from the Vaal River is the most expensive option.</p> <p>D. Henning indicated that a write up on the alternatives that were assessed as part of the Feasibility Study will be included in the Basic Assessment Report.</p>
5.	The Basic Assessment needs to consider the sustainability of the project. Groundwater is used as a source of supply in the Lime Acres/Danielskuil area, and due to the droughts, the groundwater levels have decreased. Groundwater will thus need to be utilised and managed in a sustainable way.	M. Dzivhani	<p>D. Henning mentioned that the Pre-Feasibility and Feasibility phases of the project have been completed, which considered the various options. Detailed groundwater investigations were also undertaken as part of the Feasibility Study. The water demand was also recently updated. It will need to be demonstrated that the project's proposed groundwater abstraction will be sustainable. This will need to include measures to ensure that the water use of Existing Lawful Users is not jeopardised, based on Section 27 of the National Water Act.</p>
6.	<ol style="list-style-type: none"> <li>1. Sinkhole formation due to dolomitic conditions encountered in the Danielskuil area.</li> <li>2. What percentage of rainfall seeps into the ground?</li> </ol>	V. Hugo	<ol style="list-style-type: none"> <li>1. D. Henning stated that the risk of sinkhole formation will be assessed as part of the Basic Assessment for SD1 and SD2. F. Wiegman explained the processes for sinkhole formation.</li> </ol>

No.	Comment/ Query/ Issue	Raised by	Response
			2. F. Wiegman noted that it was found that approximately 5% of the annual rainfall in the Kuruman, recharge the groundwater system.
7.	Where does the pipeline end?	G. Fourie	J. Botha stated that the entire scheme commences at Delportshoop and then ends at Black Rock. He noted that Phase II is up to Olifantshoek.
8.	1. Will access gates be provided for farmers and livestock, depending on the requirements associated with individual farms? 2. Will farmers be allowed to access the pipeline servitude for farming purposes?	Meeting Attendee	1. J. Botha stated that discussions will be held with each individual farmer regarding access during construction, and this will be done prior to the commencement of construction. 2. J. Botha indicated that farming activities can still be undertaken within the permanent servitude, however, there will be certain restrictions such as no deep-rooted trees may be planted.



## **7. Way Forward**

Attendees were requested to submit any concerns or comments.

## **8. Closure**

The meeting was closed at approximately 17H00.

### **Annexures:**

1. Attendance Register
2. Presentations







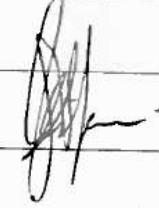



**ANNEXURE A**  
**ATTENDANCE REGISTER**



**NM Environmental**

	<b>ATTENDANCE REGISTER</b> <b>Announcement Phase Public Meeting</b>	<b>Queries:</b>	Donavan Henning ☎ 011 781 1730 ☎ 011 781 1731 ✉ donavanh@nemai.co.za
		<b>Applicant:</b>	

Representative Name and Surname	Name of Organisation	Contact Details	Sign	Apologies
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Japie Botha	Pro-Plan	☎: 011 954 4441 ☎: 082 832 5897 ✉ jbotha@proplansa.co.za		
Donavan Henning	Nemai Consulting	☎ 011 781 1730 ☎ 082 891 0604 ✉ donavanh@nemai.co.za		
Christian Van Der Hoven	Nemai Consulting	☎ 011 781 1730 ☎ ✉ ChristianVdH@nemai.co.za		
Njabulo Mkhosana	NM Environmental	☎ ☎ 065 921 9371 ✉ nmkhosana@nmenvironmental.co.za		
Frans Wiegman	GOLDER	☎ 082 7874670 ☎ ✉ fwiegman@golder.com		
Albertus Viljoen	Tshiping UWA	☎ 0836495452 ☎ ✉ info@tshiping.co.za		
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CON SCHOMBIE	PPC LIMB	☎ 082 8866079 ☎ ✉ Con.Schombie@ppc.co.za		



Representative Name and Surname	Name of Organisation	Contact Details	Sign	Apologies
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**ANNEXURE B:  
PRESENTATION**



**ANNOUNCEMENT PHASE: UPGRADING OF THE VAAL GAMAGARA REGIONAL WATER SUPPLY SCHEME (VGRWSS) PHASE 2**

**PUBLIC MEETING DETAILS**

**Purpose of the Meeting:** Announcement Phase  
**Date of the Meeting:** 10 April 2019  
**Time:** 09H30 – 11H30  
**Venue:** Postmasburg NG Kerk Church Centre, 12 Duiker Street, Postmasburg

**ATTENDEES**

- Pro-Plan
- Golder
- Nemaï Consulting
- NM Environmental
- VGRWSS-II: Affected landowners and community members

Please refer to **Annexure A** for a copy of the Attendance Register.

**APOLOGIES**

There were no apologies noted.

## **AGENDA**

### **1. Welcome and Introduction**

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- To provide a platform for project-related discussions;
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Mr D. Henning presented an overview of the following:

- Types of environmental assessments to be undertaken for the following project components: (1) Upgrade of VGRWSS Phase 2; (2) SD1 and SD2 Groundwater Abstraction; and (3) Borrow Pits;
- Key elements of the environmental assessments; and
- Timeframes.

## 6. Discussion

No.	Comment/ Query/ Issue	Raised by	Response
1.	<p>1. The existing pipeline can accommodate 22 million m<sup>3</sup>/a and currently the scheme can only get 13.27 million m<sup>3</sup>/a, and your aim is to upgrade the pipeline to 28 million m<sup>3</sup>/a. Is there a limit to the volume of water that can be abstracted by the scheme from the Vaal River?</p> <p>2. Why can't you apply for increasing the abstraction volume from the Vaal River and install a bigger pipeline?</p> <p>3. Was an investigation undertaken to determine whether more water can be abstracted from the Vaal River, and the associated capacity of the pipeline to convey that water?</p> <p>4. No borehole testing was conducted on my property. I have no knowledge of this process nor the project overall. I have no objections to the testing of the boreholes on my property.</p> <p>5. Safety concern related to sinkholes. The value of a farm also decreases if there is a sinkhole on the property.</p>	S. van Niekerk	<p>1. J. Botha indicated that the current Water Use License allows for the abstraction of 13.27 million m<sup>3</sup>/a from the Vaal River.</p> <p>2. J. Botha stated that the 13.27 million m<sup>3</sup>/a is the base flow obtained from the Vaal River. The difference between the aforementioned volume and the 22 million m<sup>3</sup>/a is currently being supplemented by the dewatering from mines. In order for the VGRWSS to be operated optimally, it will require a combination of the 13.27 million m<sup>3</sup>/a, plus the dewatering of the mines as well as the proposed groundwater use from the boreholes. This option was assessed in 2011 as part of the Feasibility Study and it was found to be the most feasible option.</p> <p>3. D. Henning indicated that this information will need to be sourced from Sedibeng Water and will be provided once it becomes available.</p> <p>4. F. Wiegman stated that during the testing of the boreholes for their study, they were unable to get access to his property. He added that the property could possibly be outside the area of influence. D. Henning requested that the details of the landowner's farm be included as part of his submission of concerns to the project team.</p> <p>5. D. Henning explained that the risk of sinkholes will need to be assessed as part of the Basic Assessment.</p>
2.	<p>The Environmental Impact Assessment (EIA) process is a box ticking exercise, and the farmers are the victims of the process. The water will be pumped despite the concerns raised. Phase 1 has already been authorised and the Minister will also authorise this project. What is the purpose of this process?</p>	J. Bredenkamp	<p>D. Henning explained, by way of an example, that a project will not just receive authorisation, regardless of its strategic importance. The EIA needs to adequately address potentially significant environmental impacts. He noted that the concerns raised by Interested and Affected Parties also needed to be appropriately addressed. He indicated that the upgrading of the existing scheme and the SD1 and SD2 groundwater abstraction components will be assessed under separate applications. He added that the Water Use Licence and Environmental Authorisation, if issued, will contain conditions that will be legally enforceable.</p>

No.	Comment/ Query/ Issue	Raised by	Response
3.	A long time ago, the Groenwater stream was flowing and all the farms that were situated close by had several springs. Based on today's presentation, there are underground dams which overflow. What impact will the abstraction and pumping of the underground water have on this stream?	J. Viljoen	D. Henning indicated that the concern is noted, and feedback will be required from the groundwater specialist, wetland specialist and the relevant members of the project team.
5.	<ol style="list-style-type: none"> <li>1. It was referred to in the presentation that approximately 21 boreholes are planned to be utilised for the project. Why are they only situated around Postmasburg?</li> <li>2. The farmers are not being told where exactly the water will be abstracted and pumped from and which farms will be directly affected.</li> <li>3. Will Eskom be able to supply power for the project?</li> <li>4. A lot of crime occurs in the area. How will the proposed infrastructure be guarded once installed?</li> </ol>	T. Coetzee	<ol style="list-style-type: none"> <li>1. F. Wiegman explained that in the Postmasburg area there were approximately 50 exploration holes. He noted that for SD1 and SD2 there were 200 exploration holes in total. In certain areas the yields of the boreholes were higher, and these sites were thus selected.</li> <li>2. D. Henning indicated that they are currently busy with the Announcement Phase of the project, however, a map showing the proposed infrastructure and affected properties will be provided to all landowners as part of the notification of the review of the Draft Basic Assessment Report.</li> <li>3. J. Botha stated that Eskom has allocated power for the project. D. Henning added that services required for the project will also be addressed in the Basic Assessment Report.</li> <li>4. D. Henning indicated that Sedibeng Water will need to advise on security measures to be implemented during the operation of the scheme.</li> </ol>
7.	<ol style="list-style-type: none"> <li>1. Are government departments, including the District and Local Municipalities, involved in this project?</li> <li>2. What are the effects of rainfall patterns on the project in 20 years from now?</li> <li>3. The project must consider the socio-economic impacts. Can the pipeline and other material be sourced locally?</li> <li>4. The timeframes of the project need to be provided. When is construction planned to start?</li> <li>5. Approximately, how many boreholes are planned in the Postmasburg area?</li> <li>6. The project must be sustainable. What precautionary measures are in place for the future worst-case scenario?</li> </ol>	W. Jarvis	<ol style="list-style-type: none"> <li>1. D. Henning stated that the EIA database contains a list of the national, provincial and local government departments. These departments were also invited to these meetings. Local municipalities were also involved during the Water Balance Study, as part of the project.</li> <li>2. F. Wiegman explained that a conservative approach was adopted. Storm events [viz. high rainfall events] predicted in future could be ideal for groundwater recharge. The scheme will need to be managed and thresholds need to be set so that the abstraction rates are adjusted/decreased when nearing these thresholds.</li> <li>3. J. Botha indicated that steel pipes will be required and the viability of where the pipes need to be sourced from will have to be investigated.</li> </ol>



No.	Comment/ Query/ Issue	Raised by	Response
	7. Why can't natural water sources, such as Rietfontein and Gossies, be used instead.		4. D. Henning indicated that the anticipated timeframes will be included in the Draft Basic Assessment Report. 5-7.D. Henning indicated that information will be provided by the project team for the concerns raised.
8.	If the volume of water obtained from the dewatering by the mines is insufficient, will there be a system in place that will automatically increase the supply from the other sources?	Tsantsabane Local Municipality	J. Botha indicated that this is a complicated matter. Water supply is prevented by pipe breaks. The other issue is that supply comes either from the Vaal River or from Kolomela and Beeshoek area, but there is only one pipeline that goes to Kathu, so only one pipeline can supply water at a time. When pumping takes places, the other pipeline doesn't gravitate and vice versa.
9.	Farm is located downstream from mine below the weir and farming is reliant on water supply from the mine. The concern is that the mine is pumping less water back into the system and levels at the weir are already low.	D. Gibson	D. Henning requested that the concern raised with regards to the mine be provided in writing to allow the relevant member of the project team to provide the necessary feedback.
10	Dewatering from the mines caused the water level to drop. Farmers had to sell their land due to no water.	I. Cloete	D. Henning explained that the groundwater study assessed the impact on the Existing Lawful Users. The principle is that these parties must not be worse off than before groundwater abstraction at the SD areas. Information from the groundwater study, as well as input from the specialists and project team, will be provided.
11.	I have boreholes that are 12 – 17m deep. If groundwater levels drop by 10m, I will have no water. What happens then? Must I make the boreholes deeper myself or will this be done by Sedibeng Water?	J. Lambrechts	F. Wiegman indicated that the proposed wellfields are not close to this landowner's farm and thus no impact is foreseen. However, he suggested that those boreholes that may be affected by the groundwater abstraction be drilled deeper during the construction phase, or that temporary water supply be provided to the affected landowner. In such cases, groundwater level measurements by the landowners under guidance of a hydrogeologist is advised, or alternatively a number of private boreholes should become part of the proposed monitoring network.  D. Henning added that the landowners must provide their concerns and details of their boreholes, so that the project team can indicate whether their boreholes will be impacted by the SD areas as part of the Basic Assessment Process.
12.	1. Dewatering of dolomitic areas can lead to sinkholes, which is a concern.	H. Vlok	1. F. Wiegman indicated that the backfilling of excavations for the pipeline will need to be compacted, in order to avoid creating drains that will collect water. He explained the two

No.	Comment/ Query/ Issue	Raised by	Response
	2. Is there a possibility to shift the SD pipeline route to Jenn-Haven to the other side of the road, as the current proposed route will cause access problems for all landowners located along the road.		mechanisms of sinkhole formation. D. Henning added that the Basic Assessment Report must assess the risk of sinkholes. 2. D. Henning explained that any suggestions for alternatives can be provided to the project team. The feasibility of these new alternatives will then need to be assessed.
13.	If the water level drops and the borehole on my farm, which is already very deep, dries up, who will provide me with water?	C. Claassens	D. Henning indicated that the project team and specialists must identify mitigation measures as part of the Basic Assessment to ensure that the concerns raised are adequately addressed. These measures can then be scrutinised by the Interested and Affected Parties during the public review of the Draft Basic Assessment Report.
14.	How do concerns raised during the EIA become conditions?	A. Viljoen	D. Henning indicated that the Draft Basic Assessment Report will include a list of recommendations that may influence conditions, which the public will be able to access and review. The Final Basic Assessment Report will then be submitted to DEFF and this Department will then ultimately decide what conditions need to be included in the Environmental Authorisation, if issued. The same will apply to the Water Use Licence Application. He added that the Environmental Management Programme (EMPr) will also include specific mitigation measures for pre-construction, construction and operational phases, and this document will also be legally binding and enforceable.
15.	As part of the conditions, can it be included that monitoring and tests are conducted for water flowing to downstream users, so that should there be an impact, the pumping can be halted?	C. Kotze	D. Henning indicated that the EMPr will make provision for monitoring requirements.
16.	1. Will the old pipeline be removed? 2. Will the Water Use Licence offer any protection for the landowner?	B. Bredenkamp	1. D. Henning explained that the scheme will have to remain operational while they replace the pipeline, and the old decommissioned pipeline will be removed and replaced with the new pipe. 2. In terms of Section 27 of the National Water Act (NWA), before a new licence can be issued, several factors first need to be considered. One of these factors includes Existing Lawful Users.



No.	Comment/ Query/ Issue	Raised by	Response
17..	Is the motivation for the project linked more to the water demand of the mines, or does it relate to the need to upgrade the infrastructure?	Farmer No.1	D. Henning noted that it is a combination of both, based on the outcomes of the Feasibility Study.



## **7. Way Forward**

Attendees were requested to submit any concerns or comments.

## **8. Closure**

The meeting was closed at approximately 12H00.



### **Annexures:**

1. Attendance Register
2. Presentations



**ANNEXURE A:**

**ATTENDANCE REGISTER**

	<b>ATTENDANCE REGISTER</b> Announcement Phase Public Meeting	<b>Queries:</b> Donavan Henning ☎ 011 781 1730 ☎ 011 781 1731 ✉ donavanh@nema.co.za
<b>Applicant:</b>		<b>Project Name:</b> Upgrading of the Vaal Gamagara Regional Water Supply Scheme Phase 2 <b>Date:</b> 10 April 2019 <b>Time:</b> 09:00 – 11:30 <b>Venue:</b> Postmasburg NG Kerk Church Centre, 12 Duiker Street, Postmasburg

Representative Name and Surname	Name of Organisation	Contact Details	Sign	Apologies
Walther van der Westhuizen	Pro-Plan	☎ 011 954 4441 ☎ 082 807 3527 ✉ wvdwesthuizen@proplansa.co.za		
Japie Botha	Pro-Plan	☎ 011 954 4441 ☎ 082 832 5897 ✉ jbotha@proplansa.co.za		
Donavan Henning	Nemai Consulting	☎ 011 781 1730 ☎ 082 891 0604 ✉ donavanh@nema.co.za		
Christian Van Der Hoven	Nemai Consulting	☎ 011 781 1730 ✉ ChristianVdH@nema.co.za		
Njabulo Mkhosana	NM Environmental	☎ 065 921 9371 ✉ nmkhosana@nmenvironmental.co.za		
FRANS WIEGMANS	GOLDER	☎ 082 787 4670 ✉ fwiegman@golder.com		
HENNIE VLOK	PRIVAAT (OWNER)	☎ VLOKHS@GMAIL.COM ☎ 0828998032		
WILLEM ISRIJZ	PRIVAAT (GRONDEIGER)	☎ 0837681291 ✉ willem.elna3@gmail.com		
Albertus Viljoen	Tshiping WCA	☎ 0836495252 ✉ info@tshiping.co.za		



NM Environmental

Representative Name and Surname	Name of Organisation	Contact Details	Sign	Apologies
D. Koorzen	farmer	082 2939 880		
M. J. Kooten	FARMER	082 574 5033		
A. J. Jansz	farmer	082 015 610 0550		
A. Oosthuizen	Boer	082 489 3201		
L. van Merwe	Boer	082 753 7957		
Johan Viljoen	Soetfontein	083608 7721 johan@soetfontein.co.za		
Chris Blaassens	Boer	082 784 7196		
THEO COETZEE	BOER	082 492 7036		
Deirdre Gibson	Boer	0837894065 gibson.deirdre@gmail.com		
P.W. Ross	Boer	073 25 37055 pwrass73@gmail.com		
J. JACCS	Boer	0716735137		



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Representative Name and Surname	Name of Organisation	Contact Details	Sign	Apologies
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MICHAELA CLOETE	"	073 4709 262		
J.J. LAMARECHTS	LANDROU	lampies55@gmail.com 0732409395		
		0822141012		
	affected land	083 2887087		
Jim Bedenkamp	Agri Postmasburg	jmb@jimbo.co.za 083 6797333		
ISAAC COETZEE	Jenn-Havel	0848717163 cloete71@gmail.com		





NM Environmental

Representative Name and Surname	Name of Organisation	Contact Details	Sign	Apologies
Johann Booysens	Match Cast	082 571 3005 booyensj@matchcast.co.za		
Lorry Kuffini	Rufco Const	082 553 7628 Lorry@rufco.co.za		
Janet Meek	Boer	0856502129		
Amanda vd Meer	Boer	082 7813735		
Dirk Kotzé	Boer	083 601 6877		
Berrie Beukelaars	Boer	0933690308		
Edwin	De Boer sta	076 9579057		
Scott Yuan	AMG	0780395459		
Willem Fouries	AMG	083 3051317		
Conrad Kotzé	Boer	0845871070		
Johan Kotzé	Floradab	082 92 56032		



Representative Name and Surname	Name of Organisation	Contact Details	Sign	Apologies
Maleshane Dube	Tsantsabane Municipality	053 313 0050 060 863 7300 sniprotech@tsantsabane.gov.za		
Hannes de Wet	Agri NK	082 926 3406 telport@voda-mail.co.za		✓
Henning Myburg	Agri NK	053 832 9595 henning@agrink.co.za		✓
Johann Zyl	Kamelfontein	073 361 1941 marnavz@lantic.net		✓
Lukas Kotze	Jay Kay Boessey	LUKESKOTZE1@LIVE.COM		
DANFORD RUTZENBA	KING & ASSOCIATES	074 026 7525 danford@king.co.za		



**ANNEXURE B:  
PRESENTATION**



**ANNOUNCEMENT PHASE: UPGRADING OF THE VAAL GAMAGARA REGIONAL  
WATER SUPPLY SCHEME (VGRWSS) PHASE 2**

**PUBLIC MEETING DETAILS**

**Purpose of the Meeting:** Announcement Phase  
**Date of the Meeting:** 10 April 2019  
**Time:** 14H30 – 16H30  
**Venue:** Diepkloof Community Hall, Kagiso Street/Toto Street,  
Olifantshoek

**ATTENDEES**

- Pro-Plan
- Nemaï Consulting
- NM Environmental
- VGRWSS-II: Affected landowners and community members

Please refer to **Annexure A** for a copy of the Attendance Register.

**APOLOGIES**

There were no apologies noted.

## **AGENDA**

### **1. Welcome and Introduction**

Mr D. Henning of Nemaï Consulting welcomed everyone to the public meeting and introduced the members of the project team.

### **2. Attendance Register**

The attendance register was circulated among the attendees and signed. Please refer to **Annexure A** for a copy of the Attendance Register.

### **3. Purpose and Rules of the Meeting**

The purpose and rules of the meeting were presented by D. Henning.

It was explained that the purpose of the meeting included the following:

- To provide an overview of the proposed project;
- To provide an overview of the environmental assessments associated with the project;
- To provide a platform for project-related discussions;
- To obtain input for the environmental assessments.

### **4. Overview of VGRWSS- Phase 2**

- The background to the proposed project was presented by Mr. J. Botha of Pro-Plan Engineering.
- An overview of the Groundwater Investigations for the Source Development (SD) Areas was presented by Mr. F. Wiegman of Golder.

### **5. Environmental Assessments**

Mr D. Henning presented an overview of the following:

- Types of environmental assessments to be undertaken for the following project components: (1) Upgrade of VGRWSS Phase 2; (2) SD1 and SD2 Groundwater Abstraction; and (3) Borrow Pits;
- Key elements of the environmental assessments; and
- Timeframes.

## 6. Discussion

No.	Comment/ Query/ Issue	Raised by	Response
1.	<ol style="list-style-type: none"> <li>1. Are you the consultants or the contractors for the project?</li> <li>2. When the contractor arrives, he must already know the demands of the Olifantshoek community. The issue is that contractor makes promises that are not met. The process needs to be done correctly from the start. There is skilled labour in Olifantshoek.</li> <li>3. The communities become bigger and have expanded, so the demand is much higher.</li> </ol>	B. Lekgadi	<ol style="list-style-type: none"> <li>1. D. Henning explained that Sedibeng Water is the Applicant. From the technical team there is Pro-plan whom are the Consulting Engineers, represented by J. Botha. Nema Consulting, represented by D. Henning, are the independent Environmental Consultants.</li> <li>2. D. Henning indicated that Sedibeng Water is yet to provide the specifications regarding employment of local labour, SMMEs and skills transfer. The Environmental Management Programme that will be compiled as part of the Basic Assessment Report will include further details in this regard.</li> <li>3. D. Henning mentioned that a Water Demand Study was undertaken, and recently updated. As part of the study, there was interaction with the municipalities to understand their respective water supply demands, which was incorporated in the planning of the project.</li> </ol>
2.	<ol style="list-style-type: none"> <li>1. When do they plan to start with the implementation of the project?</li> <li>2. How many local people will be employed and what type of skills will be required? The project must not provide just a once off benefit. Skills must be transferred to prevent unemployment.</li> </ol>	S. Mines	<ol style="list-style-type: none"> <li>1. J. Botha indicated that the project is heavily reliant on funding, where approximately 50% is dependent on funding from Government and the other 50% from the mines. He added that it cannot be confirmed at this stage when it will start, but hopefully it will be confirmed later in the process.</li> <li>2. D. Henning indicated that Sedibeng Water will need to advise on the specific protocol for employment of local labour, SMMEs and skills transfer. Once available, that information will be shared.</li> </ol>
3.	<ol style="list-style-type: none"> <li>1. Noted water supply issues.</li> <li>2. What is the diameter of the proposed pipeline?</li> <li>3. Water is urgently needed in Olifantshoek. We must make sure that we don't have the same issues with regards to lack of pressure and not being able to supply the water to Olifantshoek.</li> </ol>	J. Mathlahle	<ol style="list-style-type: none"> <li>1. D. Henning indicated this proposed project aims to address water supply issues by the replacement/refurbishment of the old failing infrastructure, to ensure that the scheme is improved and optimally utilised.</li> <li>2. J. Botha indicated that the diameter of the proposed pipeline is as follows:</li> </ol>



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No.	Comment/ Query/ Issue	Raised by	Response
	The municipality is also looking at utilising groundwater.		<ul style="list-style-type: none"><li>a. Delportshoop to Postmasburg - 800mm;</li><li>b. Postmasburg to the T-junction - 900mm; and</li><li>c. T-junction to Olifantshoek - 250mm.</li></ul> <p>3. D. Henning explained that the water supply for the proposed project is linked to three sources, namely the Vaal River (primary source), dewatering of mines and the Source Development (SD) areas (SD1 and SD2) at Danielskuil and Postmasburg. A detailed groundwater investigation was undertaken for SD1 and SD2.</p>



## **7. Way Forward**

Attendees were requested to submit any concerns or comments.

## **8. Closure**

The meeting was closed at approximately 16H30.

### **Annexures:**

1. Attendance Register
2. Presentations







**ANNEXURE A:  
ATTENDANCE REGISTER**



NM Environmental

	<b>ATTENDANCE REGISTER</b> Announcement Phase Public Meeting	<b>Queries:</b> ☎ 011 781 1730 ☎ 011 781 1731 ✉ donavanh@nemui.co.za
		<b>Project Name:</b> Upgrading of the Vaal Gamagara Regional Water Supply Scheme Phase 2 <b>Date:</b> 10 April 2019 <b>Time:</b> 14:00 – 16:30 <b>Venue:</b> Diepkloof Community Hall, Kagiso Street/Toto Street, Olifantshoek
<b>Applicant:</b>		

Representative Name and Surname	Name of Organisation	Contact Details	Sign	Apologies
Walther van der Westhuizen	Pro-Plan	☎: 011 954 4441 ☎: 082 807 3527 ✉ wvdwesthuizen@proplansa.co.za		
Japie Botha	Pro-Plan	☎: 011 954 4441 ☎: 082 832 5897 ✉ jbotha@proplansa.co.za		
Donavan Henning	Nemai Consulting	☎ 011 781 1730 ☎ 082 891 0604 ✉ donavanh@nemui.co.za		
Christian Van Der Hoven	Nemai Consulting	☎ 011 781 1730 ☎ ✉ ChristianVdH@nemui.co.za		
Njabulo Mkhosana	NM Environmental	☎ ☎ 065 921 9371 ✉ nmkhosana@nmenvironmental.co.za		
Devini Rooi	Kathu Gazette	☎ 053 723 2000 ☎ 063 959 9994 10 ✉ rooi.devini@gmail.com		
DAWID V/DWESTHUIZEN	afloek	☎ 0830816081 ☎ ✉ P.O. Box 81		
Donovan Andreas	56 Gamagara unemployment forum	☎ 673 177 5239 ☎ ✉ donovanandreas@gmail.com		
Shepherd Mines	GAMAGARA unemployment Youth Movement (resident)	☎ 060 409 8703 ✉ Shepherdmines@gmail.com		



NM Environmental

Representative Name and Surname	Name of Organisation	Contact Details	Sign	Apologies
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M.k. Orpen	CIIR	0183433375 orpenmonica@gmail.com		
BOTUMELO LEKADI	CLLR	0710673394 lekadiib@qmail.com		
ANNA MORWE	CIIR	anna.morwe@takoo.com 073 450 2737		



**ANNEXURE B:  
PRESENTATION**

# VAAL GAMAGARA REGIONAL WATER SUPPLY SCHEME UPGRADING (PHASE 2)




## Content of Presentation

- Project Background
- Project Layout
- Technical Details



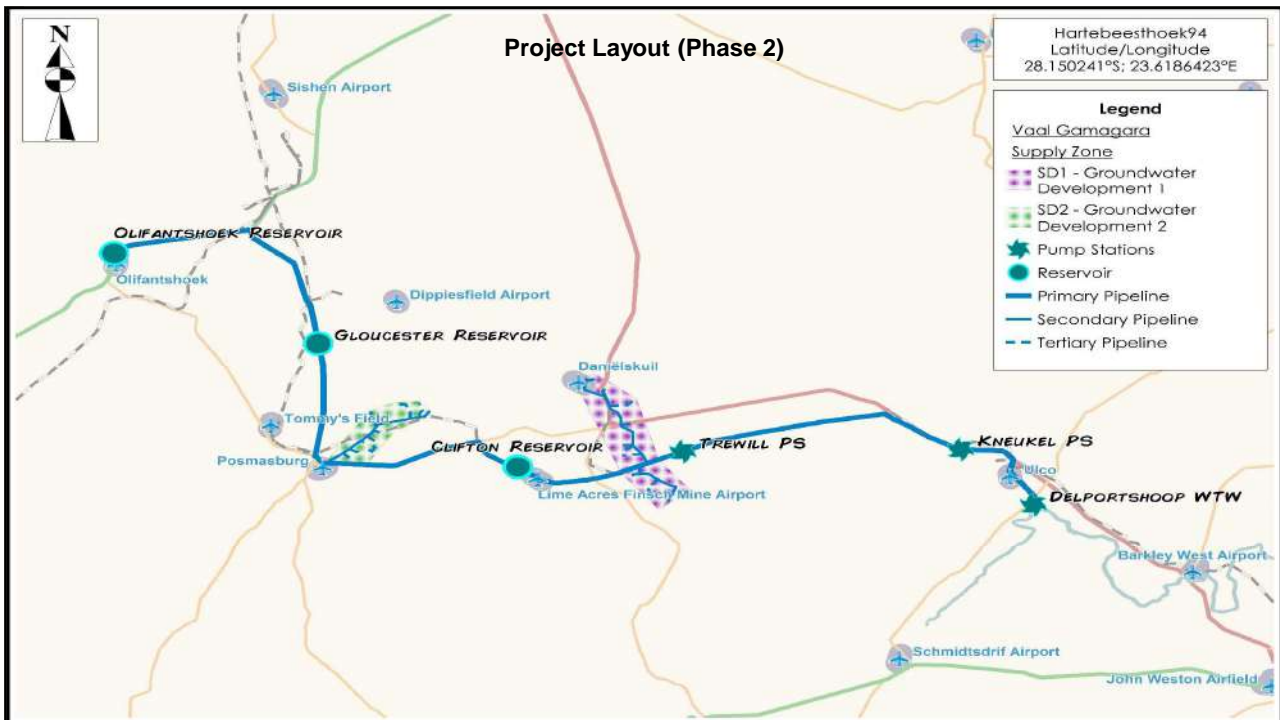
### Background:

- The Vaal Gamagara Scheme was completed in 1968 by the Department of Water and Sanitation. It runs from Delpportshoop on the Vaal River (60 km to the north west of Kimberley) via Postmasburg to the iron ore mines at Kathu. From Kathu the line continues to the manganese mines at Hotazel and finally terminates at Black Rock. In 2008 the scheme was handed over to Sedibeng Water by the Department of Water and Sanitation. The Scheme currently supplies approximately 22 million m<sup>3</sup>/a to domestic consumers, mines and farmers.
- The existing Vaal Gamagara Scheme consists of an abstraction works on the Vaal River at Delpportshoop, a water treatment works with a capacity of 13.27 million m<sup>3</sup>/a, three high lift pump stations (Delpportshoop, Kneukel and Trewill), 11 reservoirs and 370 km of pipes.
- Due to the condition of the pipelines, the full design capacity can no longer be supplied through this infrastructure. Total collapse in water supply estimated at 2023.
- Feasibility studies were undertaken to determine the best option to rehabilitate and increase the capacity of the scheme to cater for increased water demands.



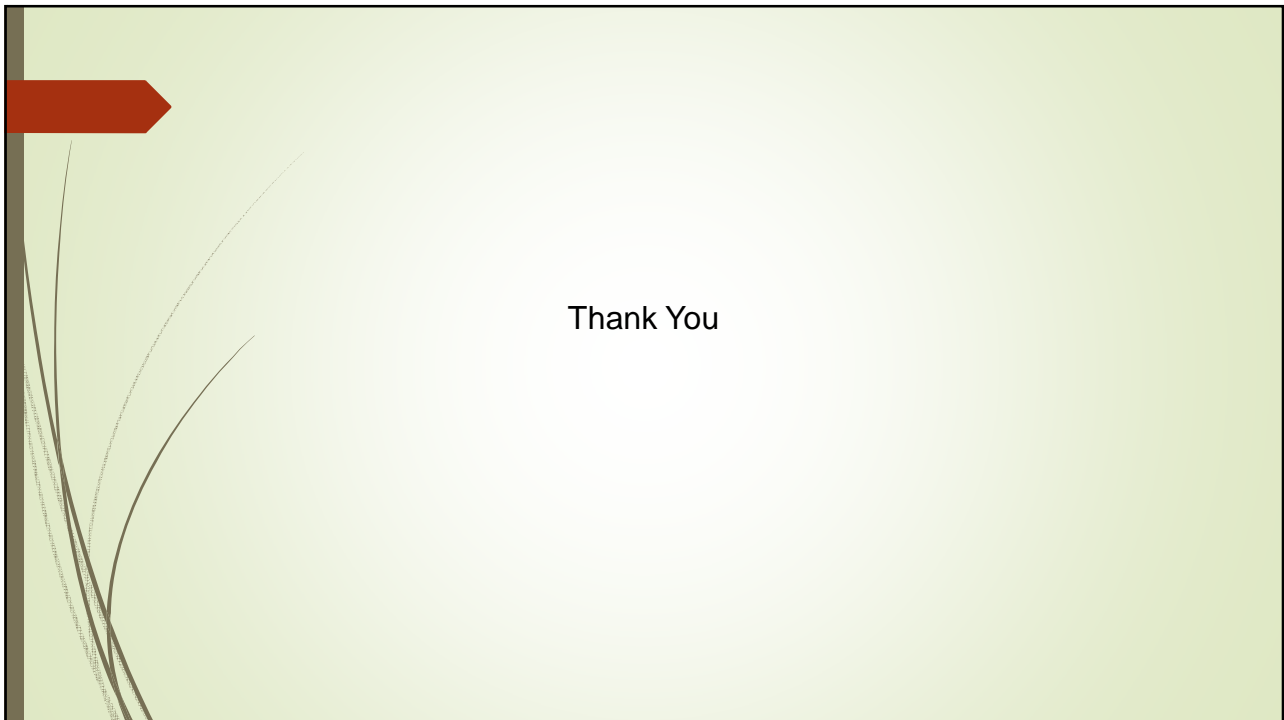
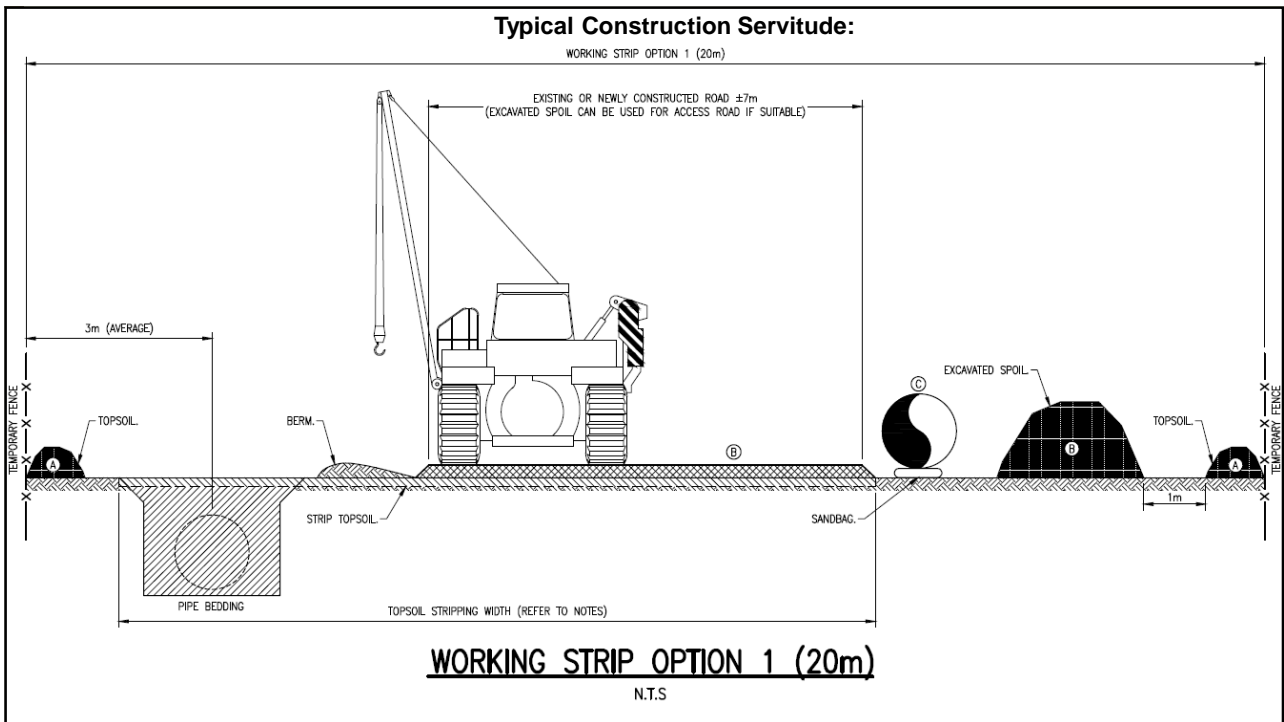
### Background Continued:

- The upgrading of the scheme was divided in two phases.
- Phase I is already in the construction phase.
- Pro-Plan Consulting Engineers was appointed to design phase II.
- A study was undertaken to confirm the water demands since feasibility.



### Technical (Phase II only):

- The outcome of the Feasibility study and Water Demand study indicated/confirmed that:
  - The existing pipelines must be replaced
  - Pump stations to be refurbished
  - The Water Treatment Works to be refurbished
  - Two new well fields must be developed
- The new pipelines will be constructed within the current servitudes
- Servitudes may need to be increased temporary for construction purposes
- New servitudes will be required for well field developments
- Servitudes are not exclusive and can be used for farming activities





# Vaal Gamagara Resource Assessment

## SD1 Area Groundwater Investigation

### Technical Presentation

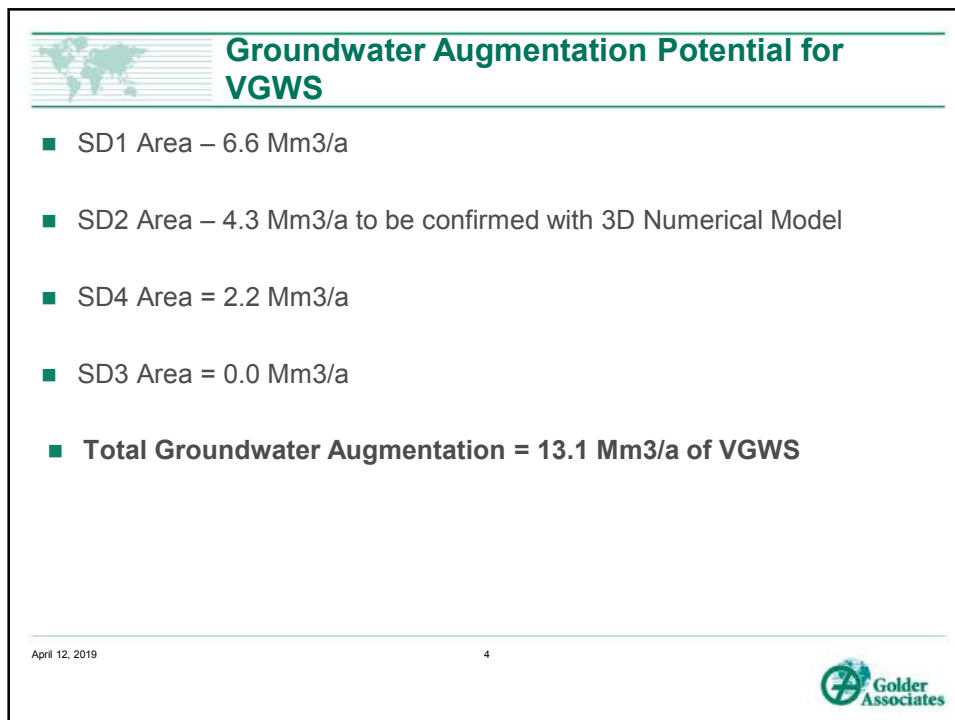
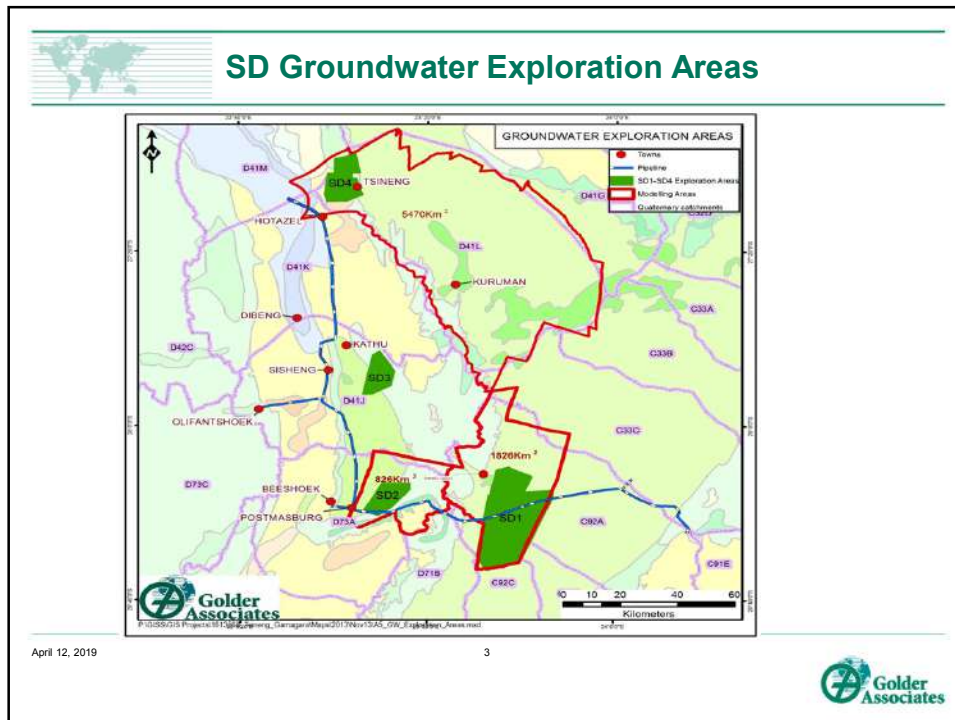
April 2019



#### Presentation Layout

- Groundwater Source Development (SD) Areas
  - Recommended Groundwater Augmentation
  
- SD1 Investigation programme
  - Testing of existing boreholes
  - Groundwater exploration
  - Variable rainfall recharge
  - Large scale numerical groundwater model
  - Recommended groundwater abstraction
  - Land owners' borehole information
  
- Recommended Groundwater Monitoring Programme






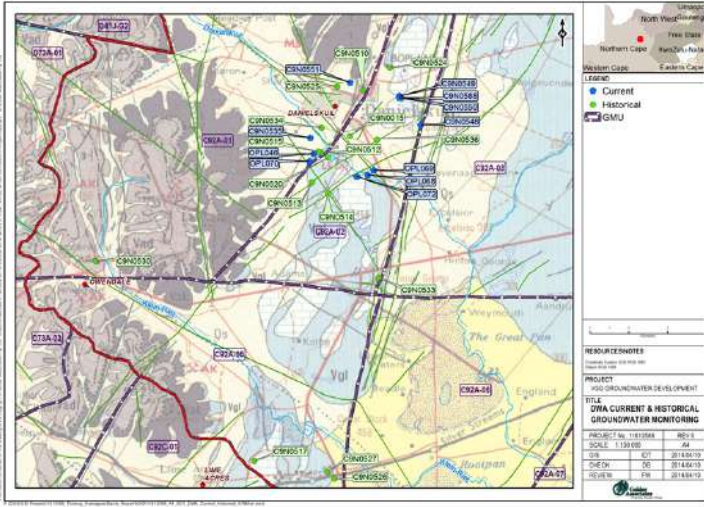
## SD1 Groundwater Investigation Programme

- The SD1 Groundwater Investigation was completed in June 2014 and the technical report reviewed and approved by DWS
- The report comprises three volumes:
  - *Main Report - Volume I;*
  - *Appendix Report - Volume II (Data Volume & Specialists reports);*
  - *Landowners Borehole Information - Volume III*
- Copies of reports are currently available from DWS

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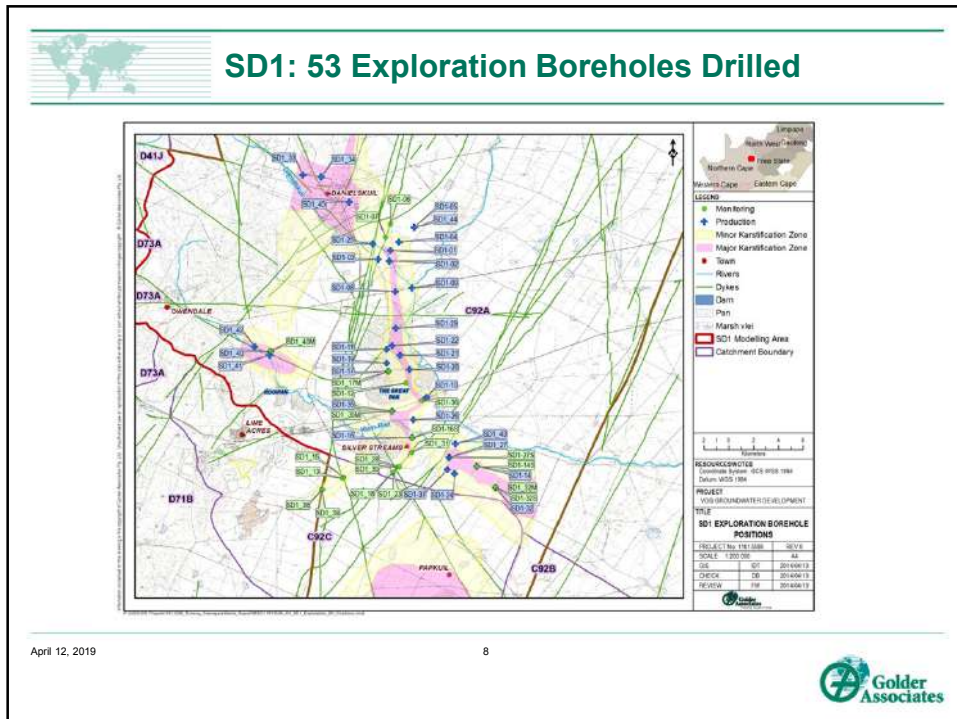
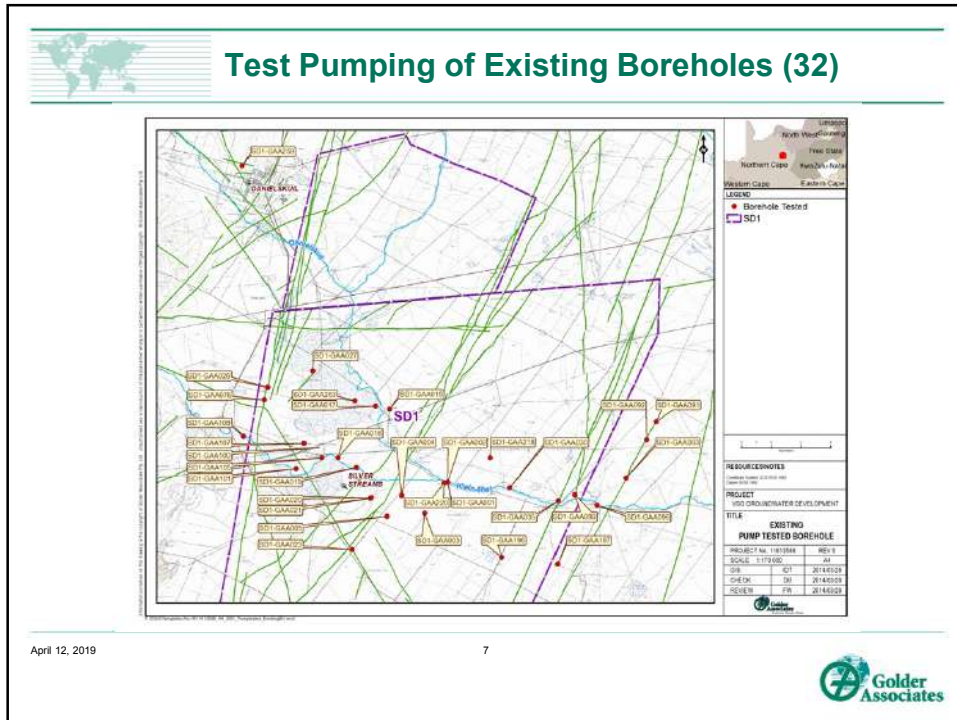
## Geology and DWS Monitoring Sites

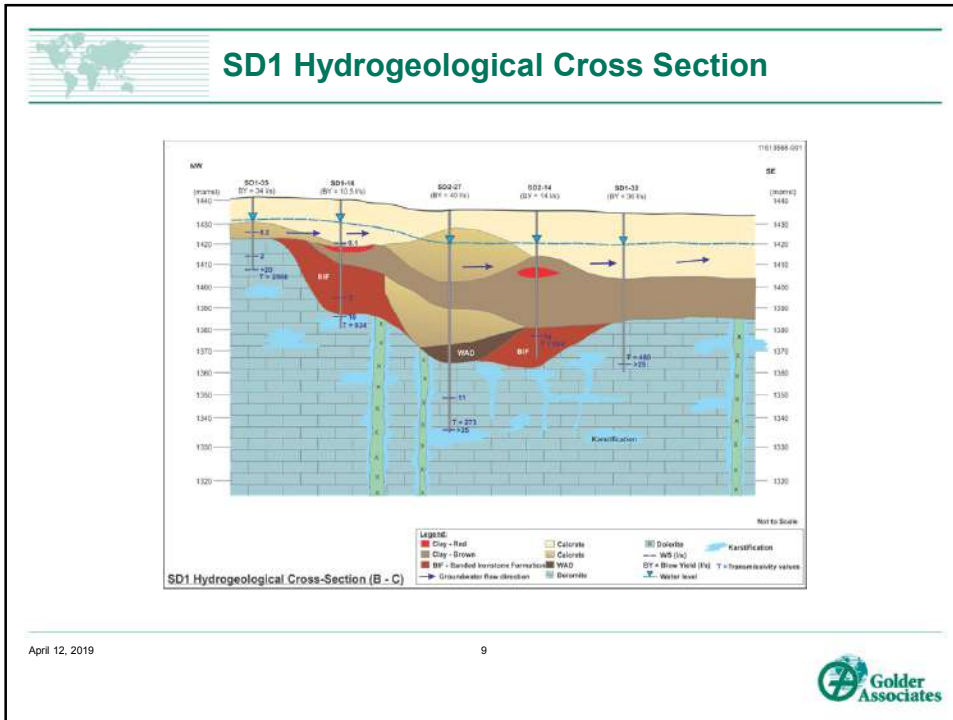


<b>RESOURCE NUMBER</b>	
PROJECT No.	10000000
FILE	DWA CURRENT & HISTORICAL GROUNDWATER MONITORING
PROJECT No.	10000000
SCALE	1:10000
DATE	2014/06/10
DATE	2014/06/10
DATE	2014/06/10

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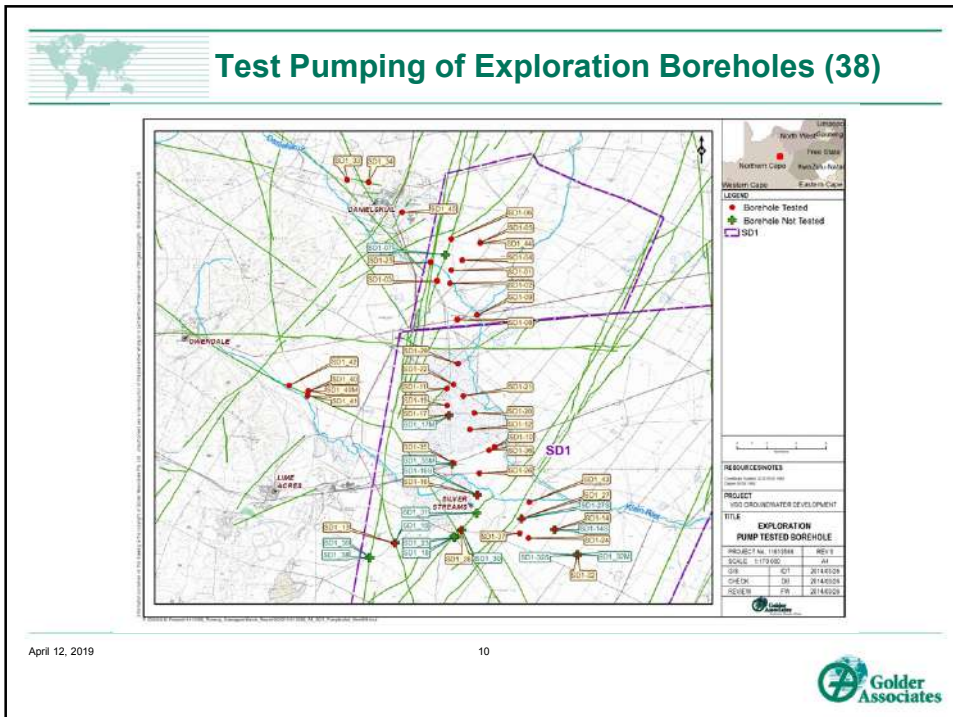






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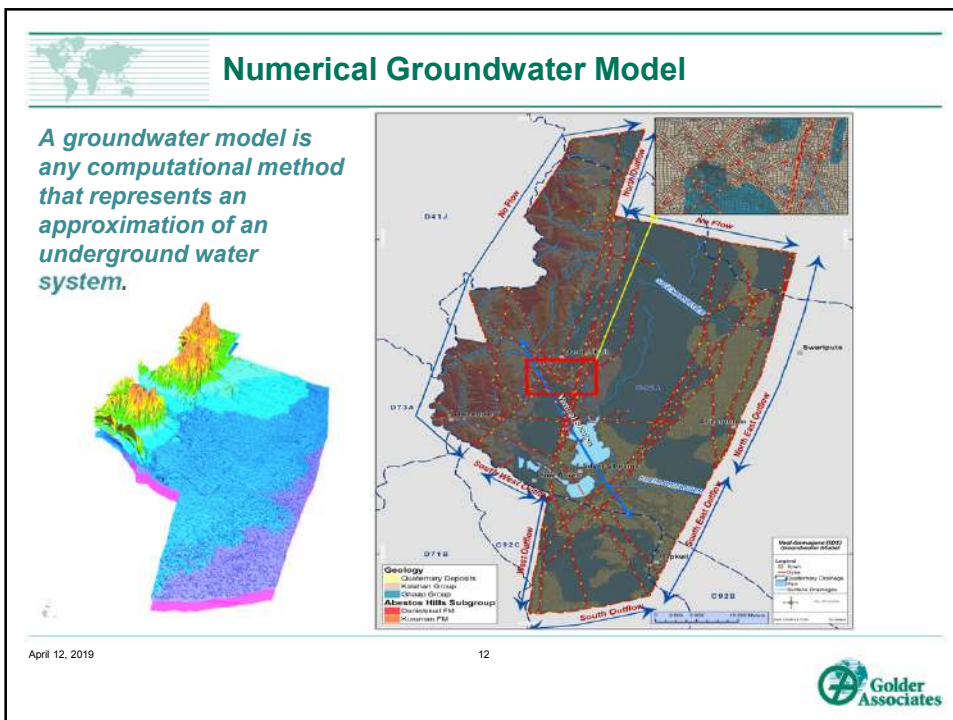
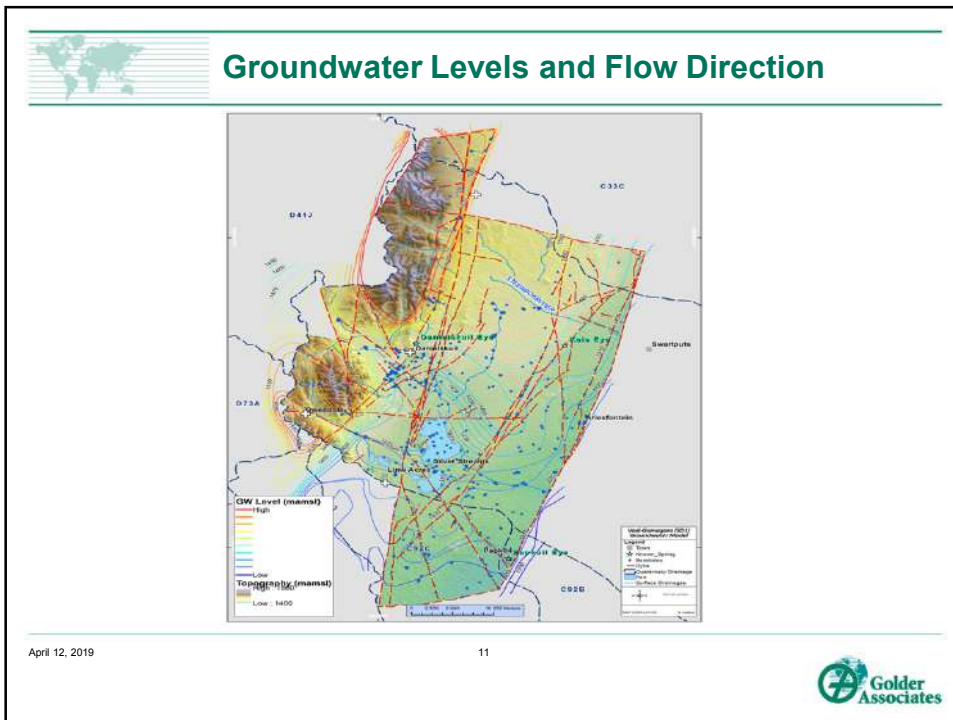
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## SD1 Model Calibration (Transient State)

*Once a model have been demonstrated to reasonably reproduce past behaviour, they can forecast the outcome of future groundwater behaviour!*

Observed WL vs. Simulated WL (monitoring mainly Danielskuil)  
1978 to 2012

C9N0015 - OPL001

C9N0515 - OPL031

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## Transient Calibration using Drawdown from Initial Static Water Level

SD1-08

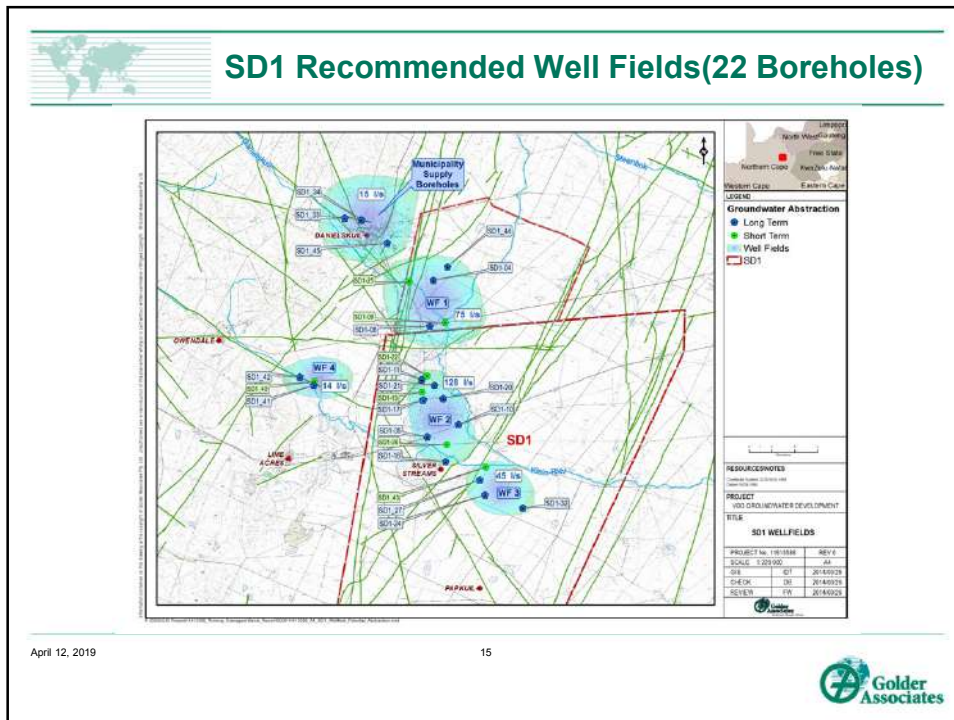
SD1-25

*Observed vs. Simulated Water Levels - Constant Draw Down Pumping Test Data*

SD1-08 Linear

SD1-25 Linear

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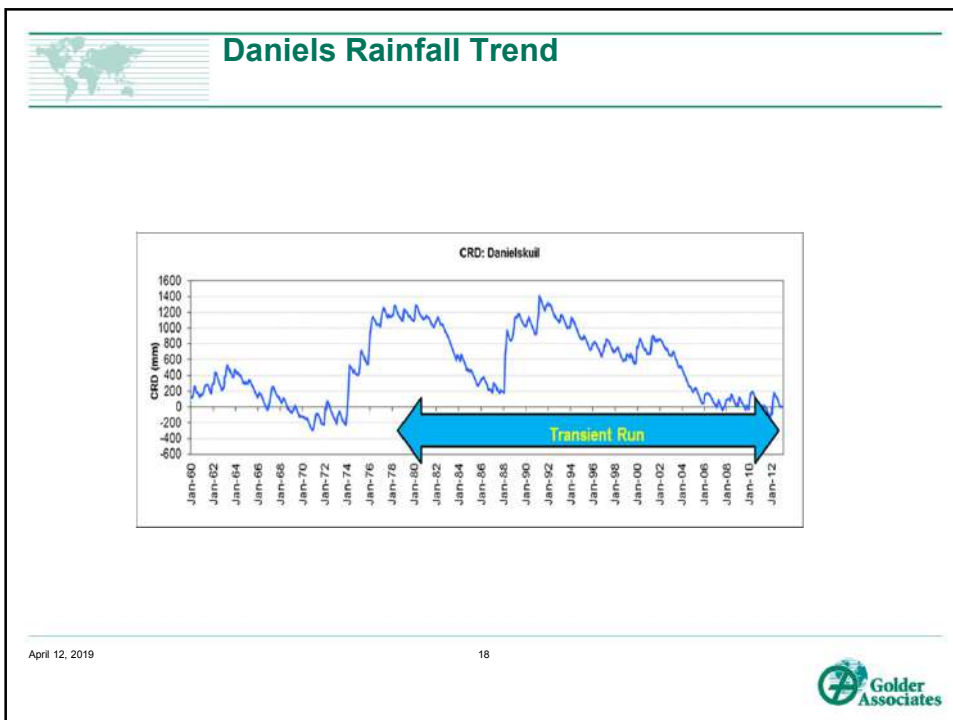
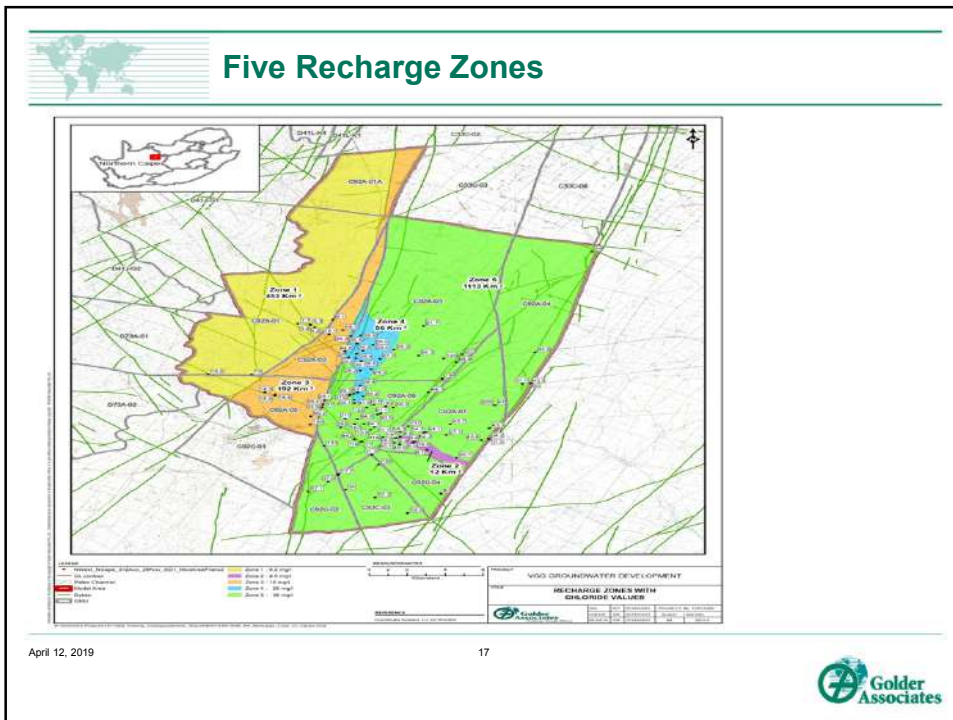


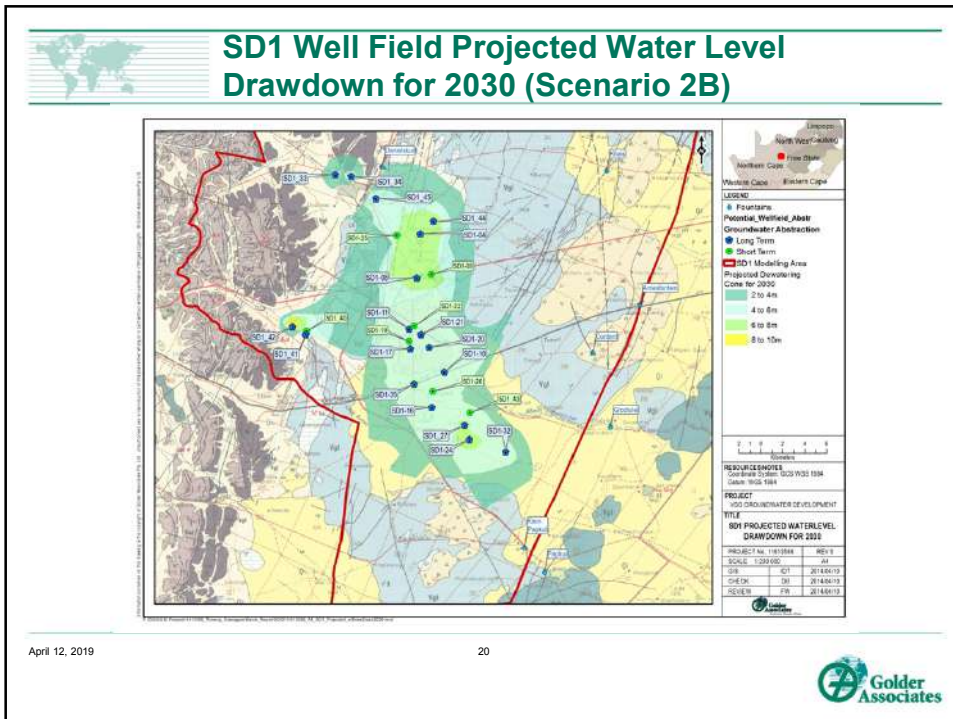
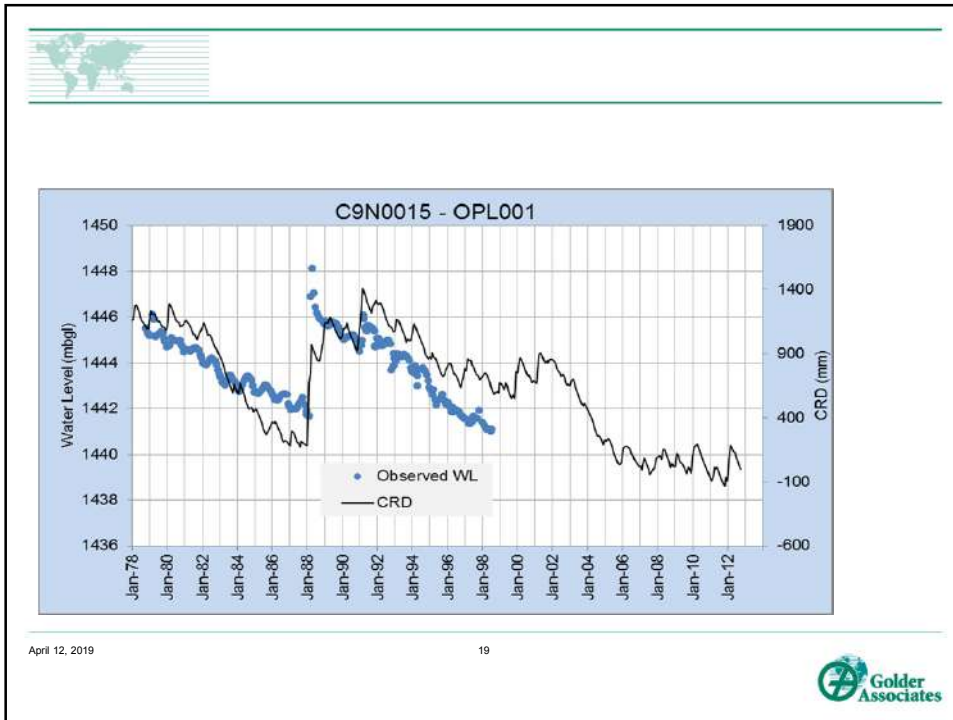
### Recommended Well Field Abstraction Rates

Well Field	Number of BH's	Yield (l/s)	Long Term (m <sup>3</sup> /a)	Additional Peak Supply (m <sup>3</sup> /a) 4months/a	Combined Long Term and Peak Supply (m <sup>3</sup> /a)
WF1	5	75	1 419 120	499 320	1 918 440
WF2	10	128	2 596 464	578 160	3 174 624
WF3	4	45	1 051 200	131 400	1 182 600
WF4	3	14	262 800	105 120	367 920
<b>Total</b>	-	262	<b>5 329 584</b>	<b>1 314 000</b>	<b>6 643 584</b>
Danielskuil	3	15	236 520		

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## Oienhout Boom – Ghaap Olea




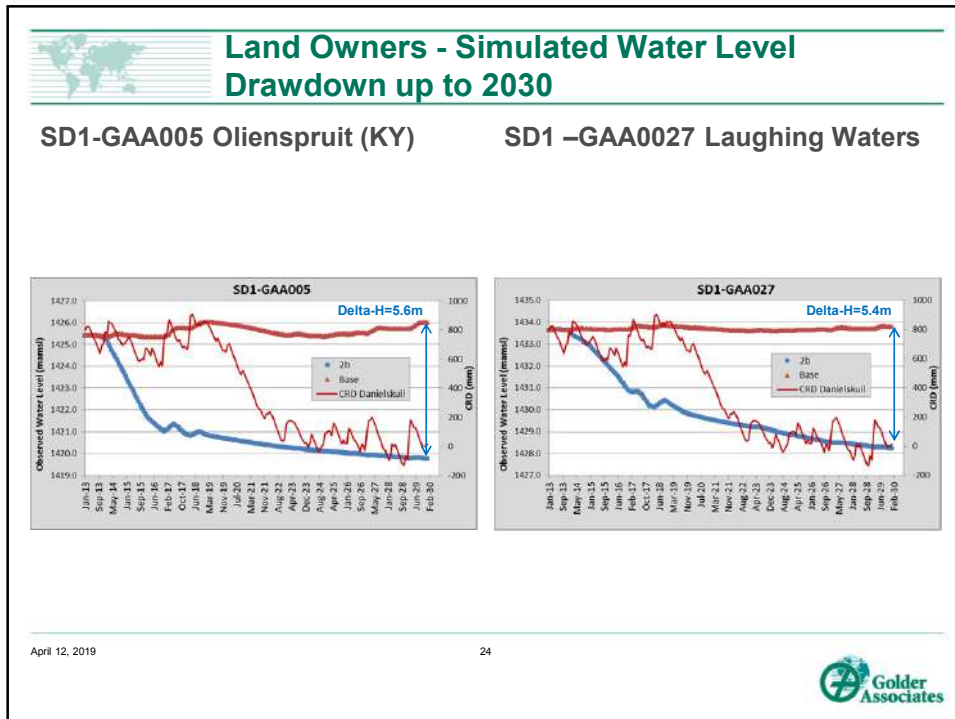
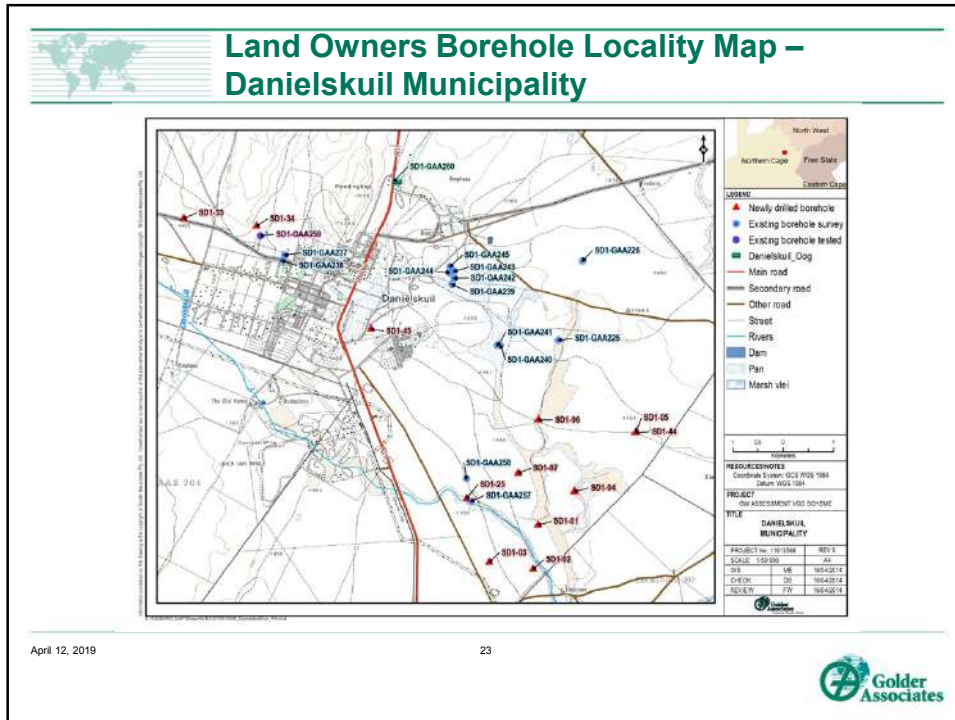
April 12, 2019
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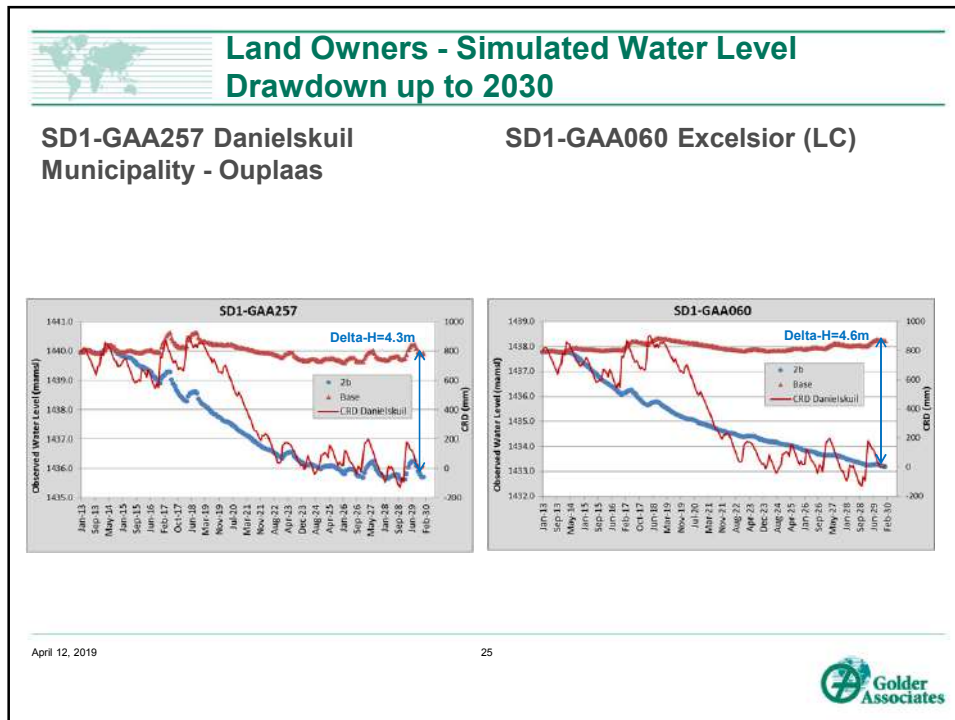



## Characteristics of Oienhout Boom

- Web Page: Jonathan Cain'e
  - Scientific name : Oleaceae – Lamailes family
  - National tree No 617
  - Protected tree in Northern Cape
  - Slow growing – hard wood
  - Requires little water to grow, not dependant on groundwater
  - Drought resistant – can easily cope for one year without rainfall
  - Aggressive root system, which develops in a shallow and horizontal plane
  - Small tree – maximum height ~ 10m
  - Naturally prefers lime rich soil - Calcrete

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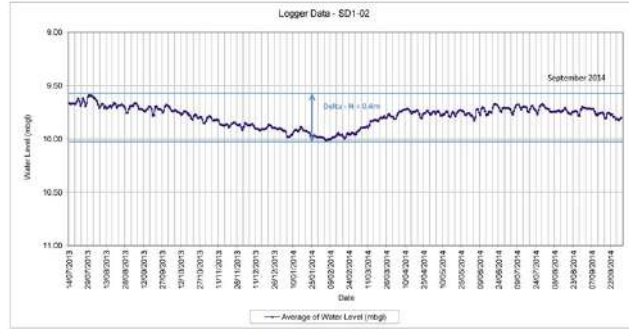




- ### Groundwater Monitoring Programme
- #### Baseline Resource Monitoring (Pre Well Field Implementation)
- Quarterly water level monitoring of all accessible exploration boreholes
    - January 2014
    - June 2014
    - October 2014
  - Continuous water level monitoring at installed electronic data loggers
  - Require **at least one year baseline** monitoring prior to implementation
- April 12, 2019 26
-



### SD1-02 Logger Data Example's

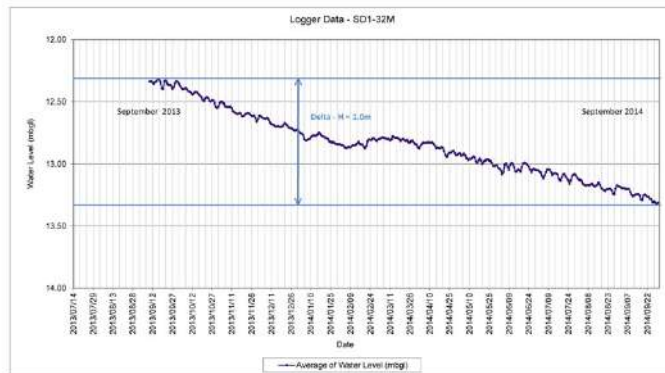


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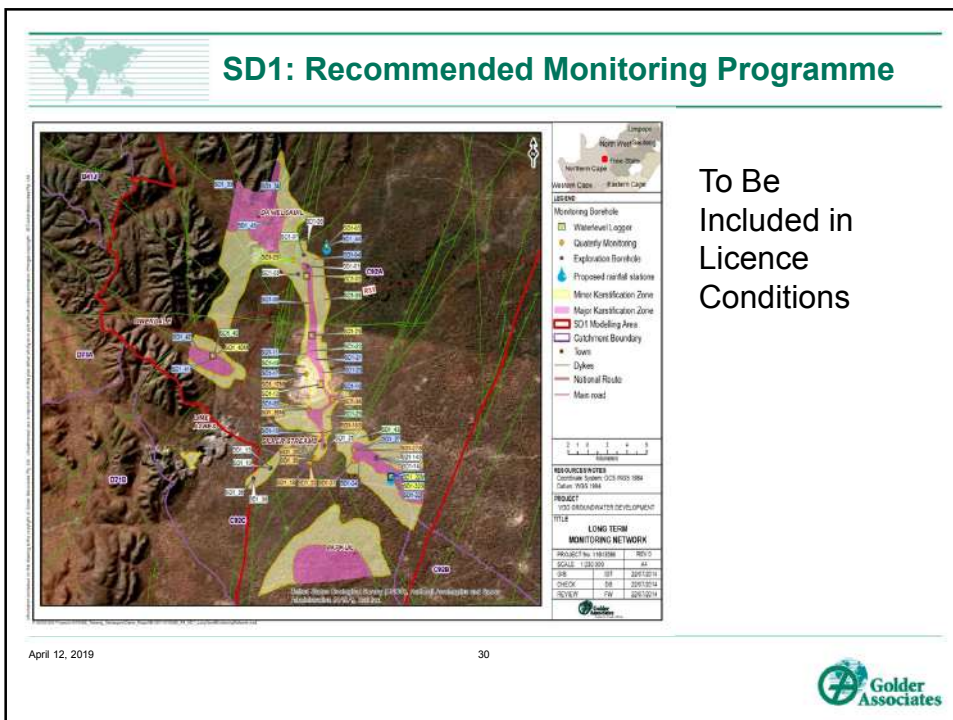
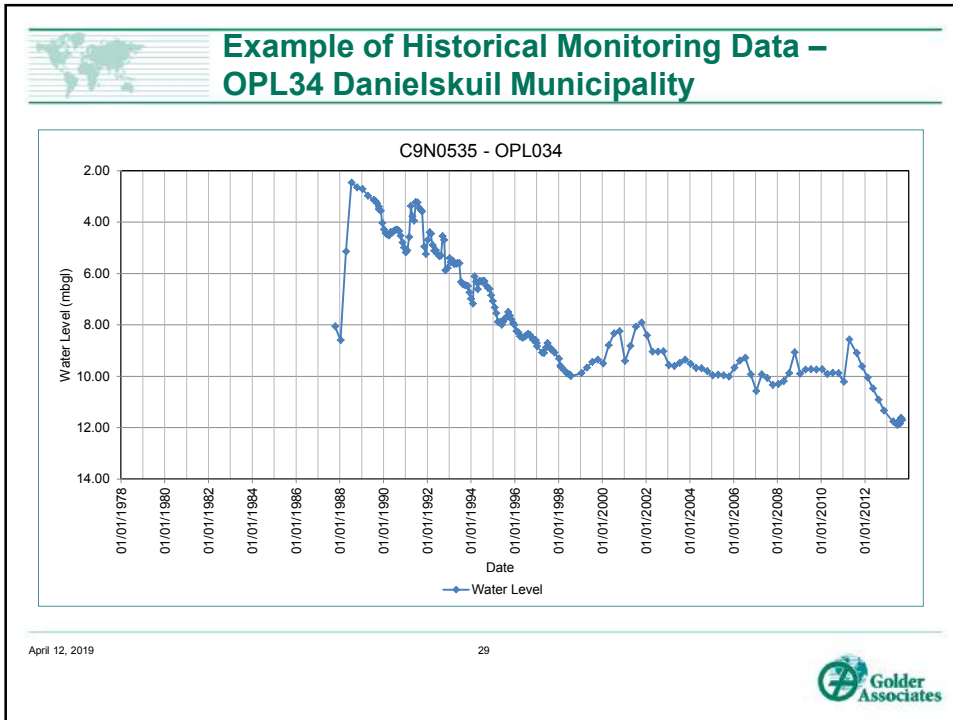
### SD1-32M Level Logger Data



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## Recommended Resource Monitoring

- Continuous Water Level monitoring – Loggers (at least 10 per SD area)
- Bi-annual Water Level – All accessible exploration boreholes.
- Post Model audit of well field performance, within one year after implementation
- Annual Audit of Licence Conditions
- Effective Resource Management required to ensure long term sustainable abstraction not to exceed maximum allowable drawdown criteria



- Thank You



# Vaal Gamagara Resource Assessment

## SD2 Groundwater Investigation

### Technical Presentation

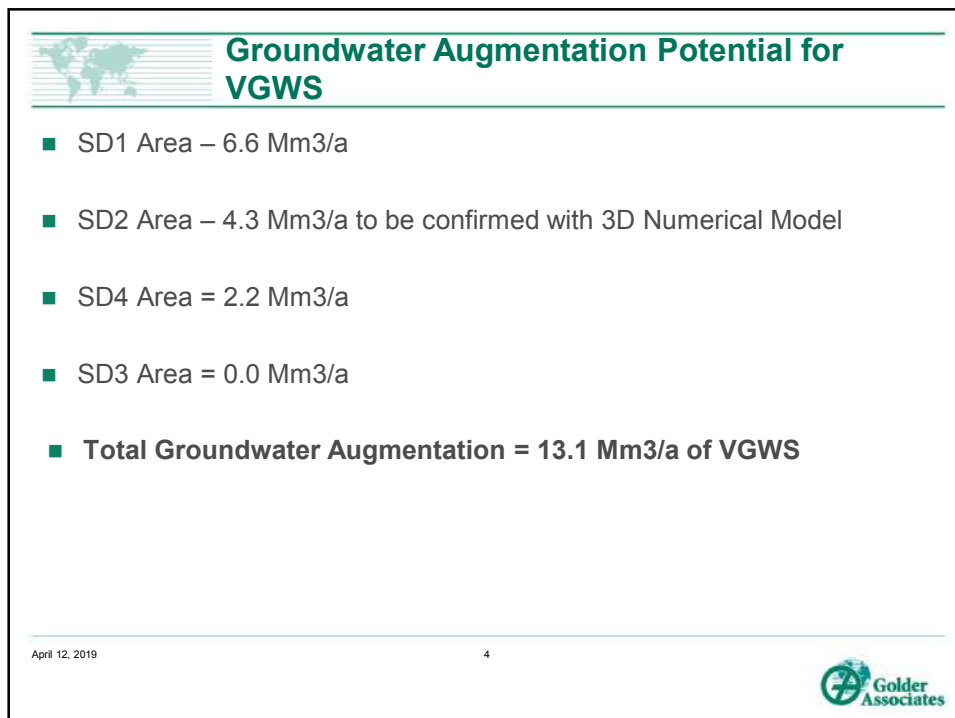
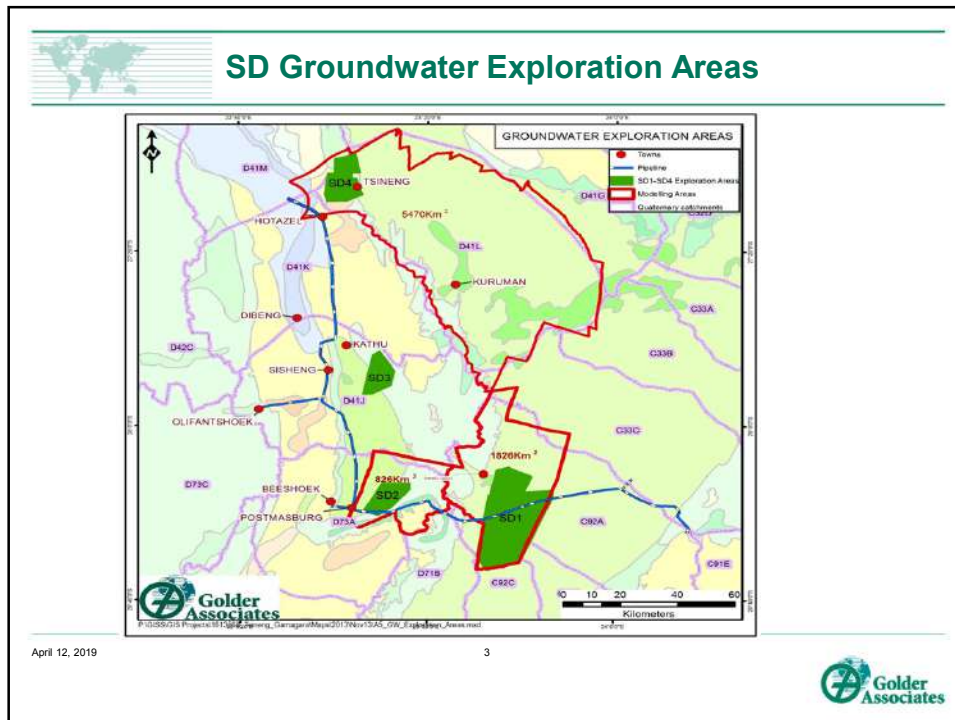
April 2019



#### Presentation Layout

- Groundwater Source Development (SD) Areas
  - Recommended Groundwater Augmentation
  
- SD2 investigation programme
  - Testing of existing boreholes
  - Groundwater exploration
  - Variable rainfall recharge
  - Large scale numerical groundwater model
  - Recommended groundwater abstraction
  - Land owners' borehole information
  
- Recommended Groundwater Monitoring Programme







## SD2 Groundwater Investigation Programme

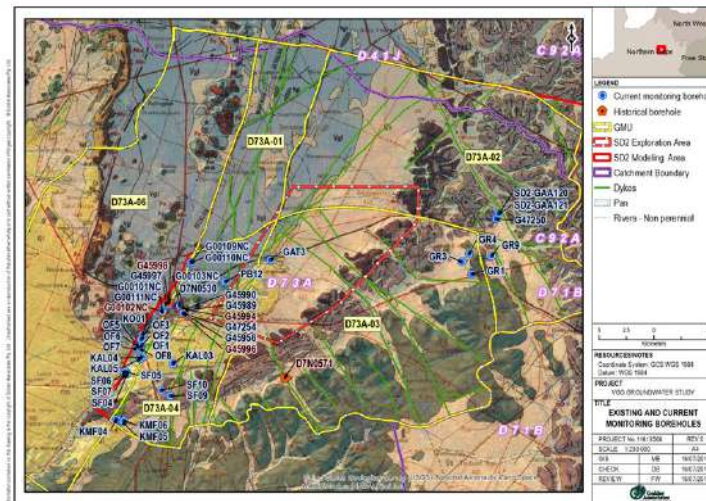
- The SD2 Groundwater Investigation was completed in September 2014 and the technical report reviewed and approved by DWS
- The report comprises three volumes:
  - Main Report - Volume I;
  - Appendix Report - Volume II (Data Volume & Specialists reports);
  - Landowners Borehole Information - Volume III
- Copies of reports are currently available from DWS

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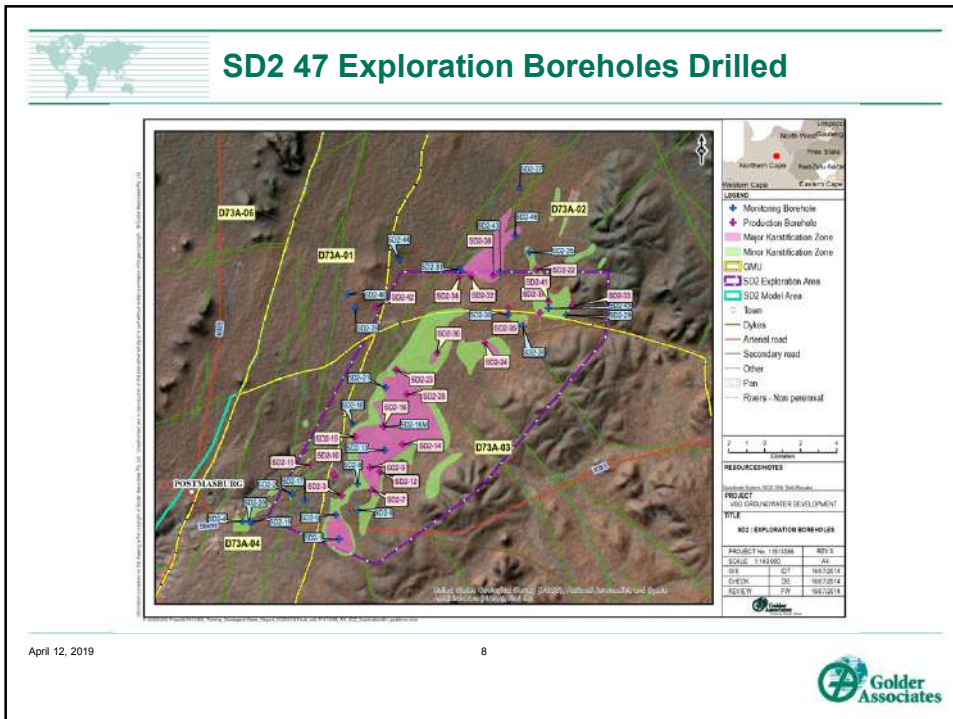
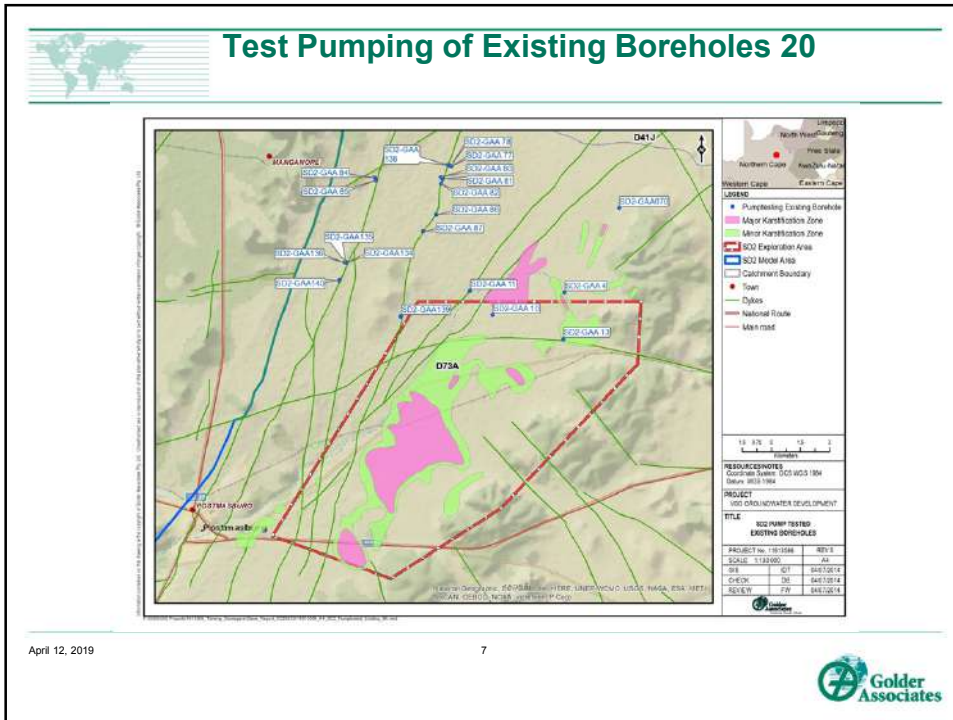
## Geology and DWS Monitoring Sites

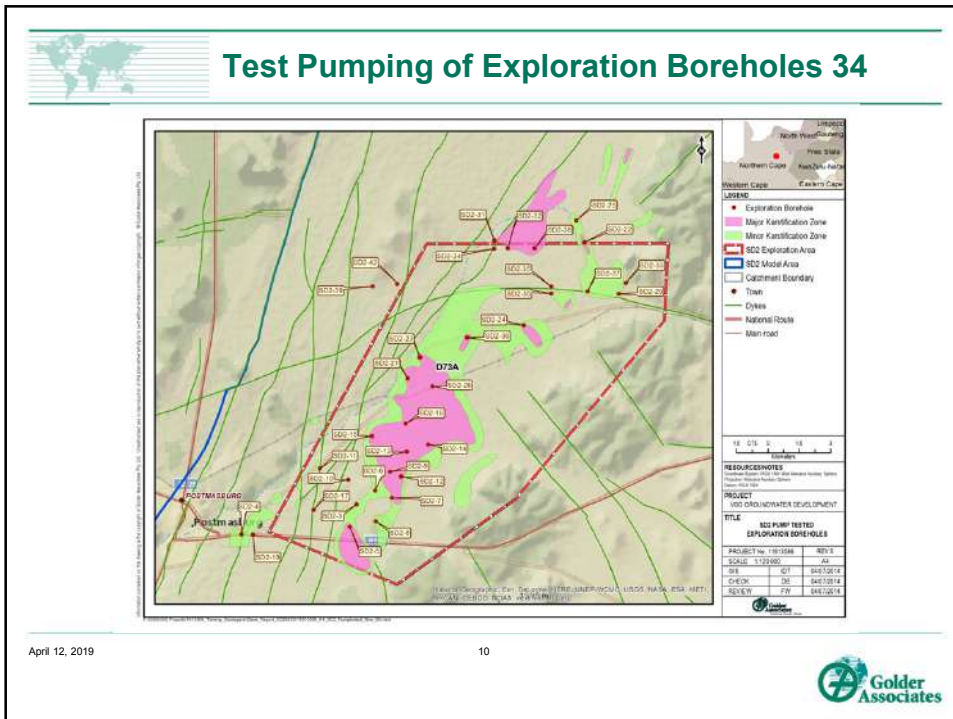
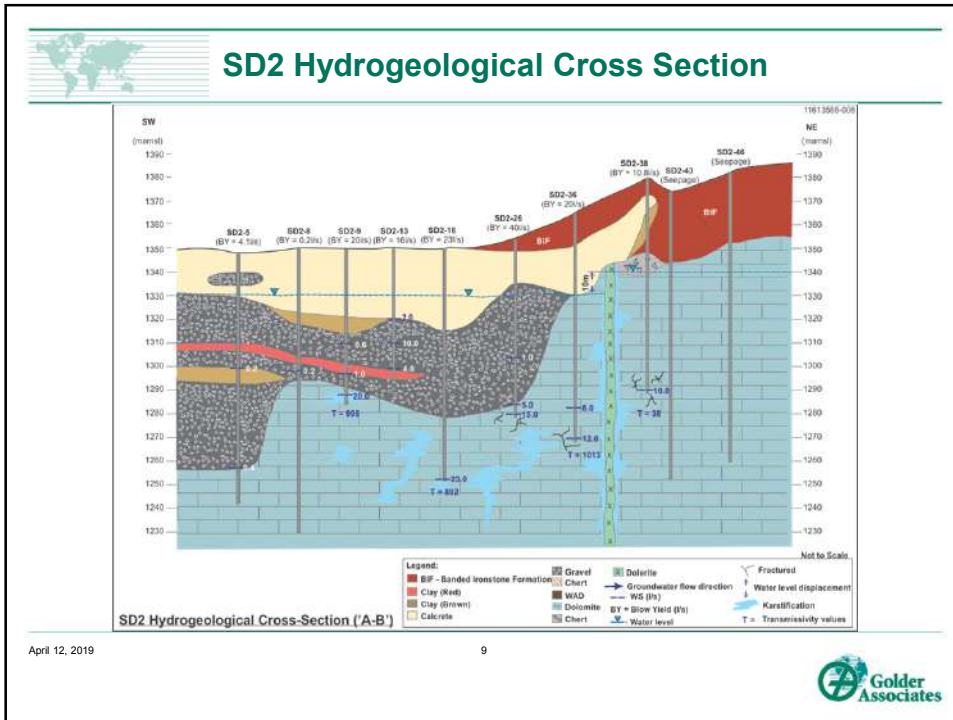


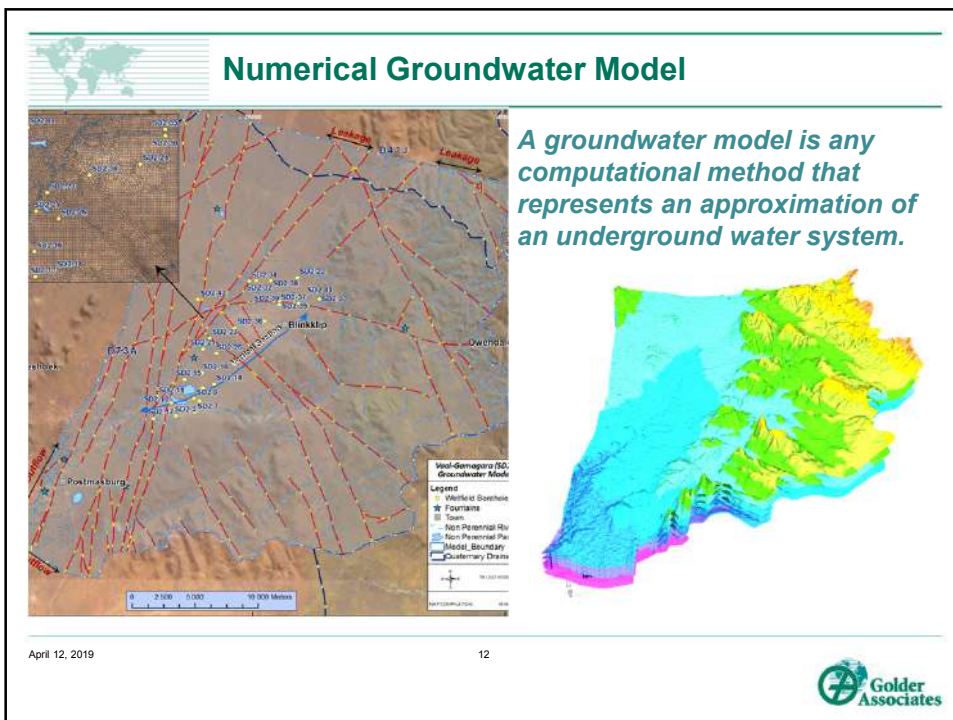
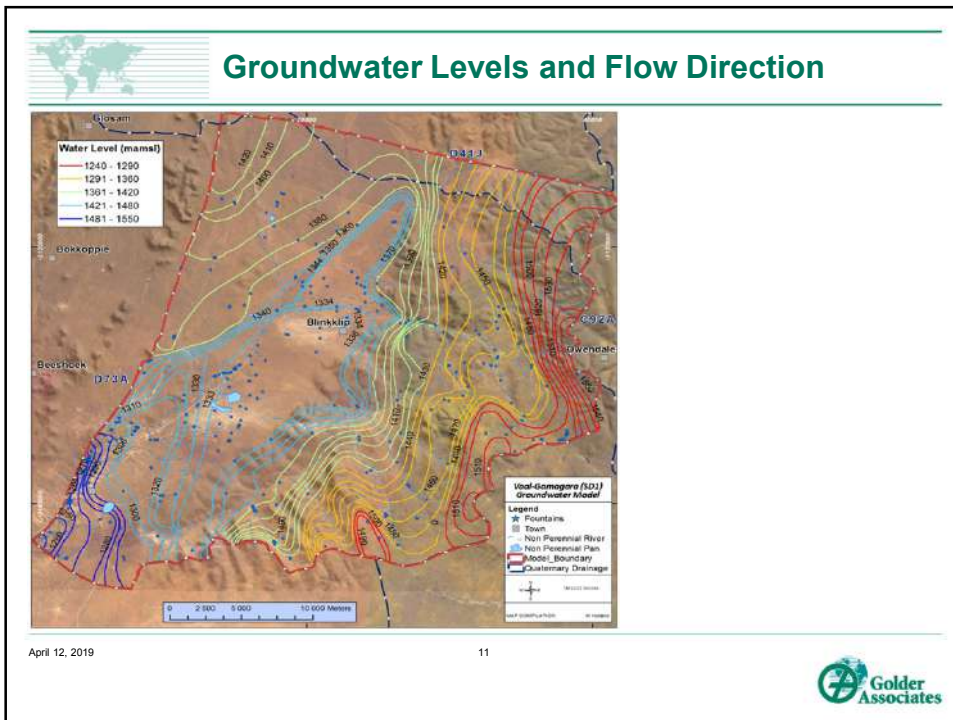
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*A groundwater model is any computational method that represents an approximation of an underground water system.*

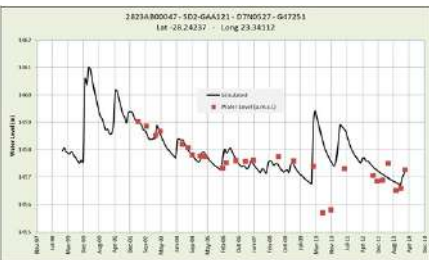




## SD2 Model Calibration (Transient State)

*Once a model have been demonstrated to reasonably reproduce past behaviour, they can forecast the outcome of future groundwater behaviour!*

Observed vs. Simulated Water Levels (monitoring mainly Postmasburg) 2000 to 2012



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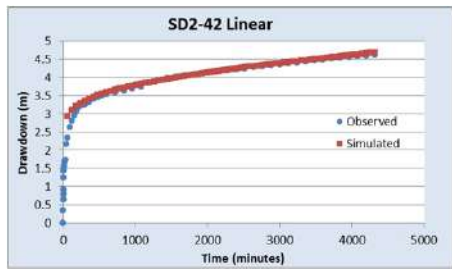
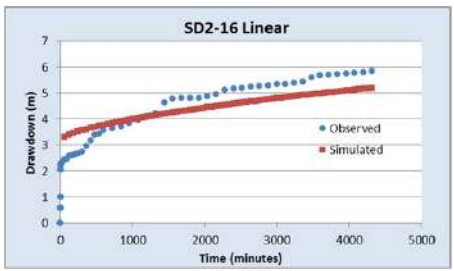


## Transient Calibration using Drawdown from Initial Static Water Level

SD2-16

SD2-42

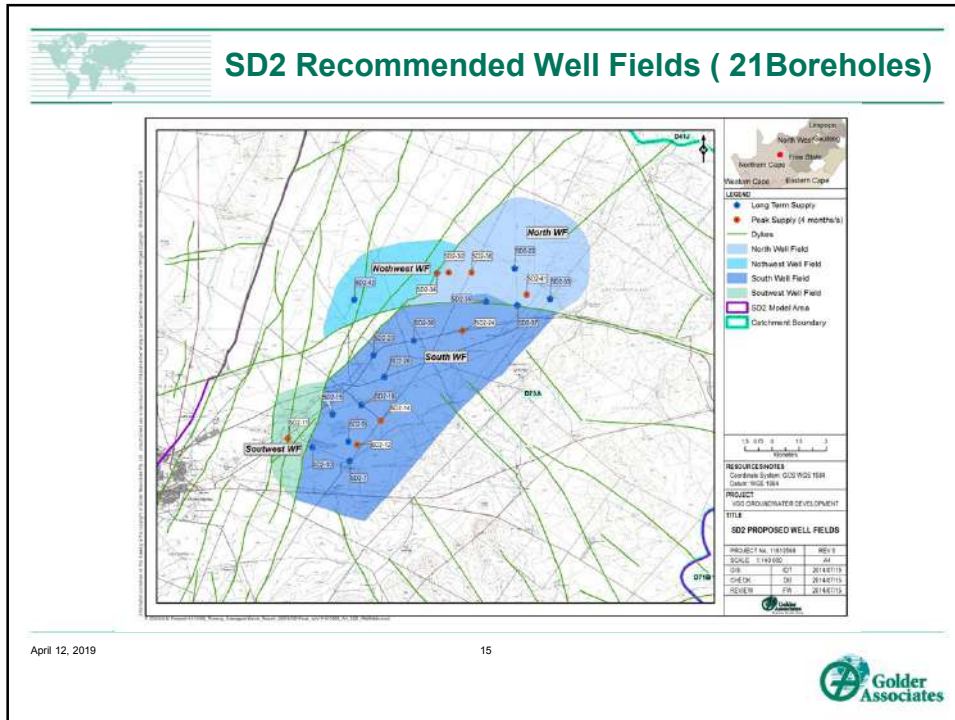
Observed vs. Simulated Water Levels - Constant Draw Down Pumping Test Data



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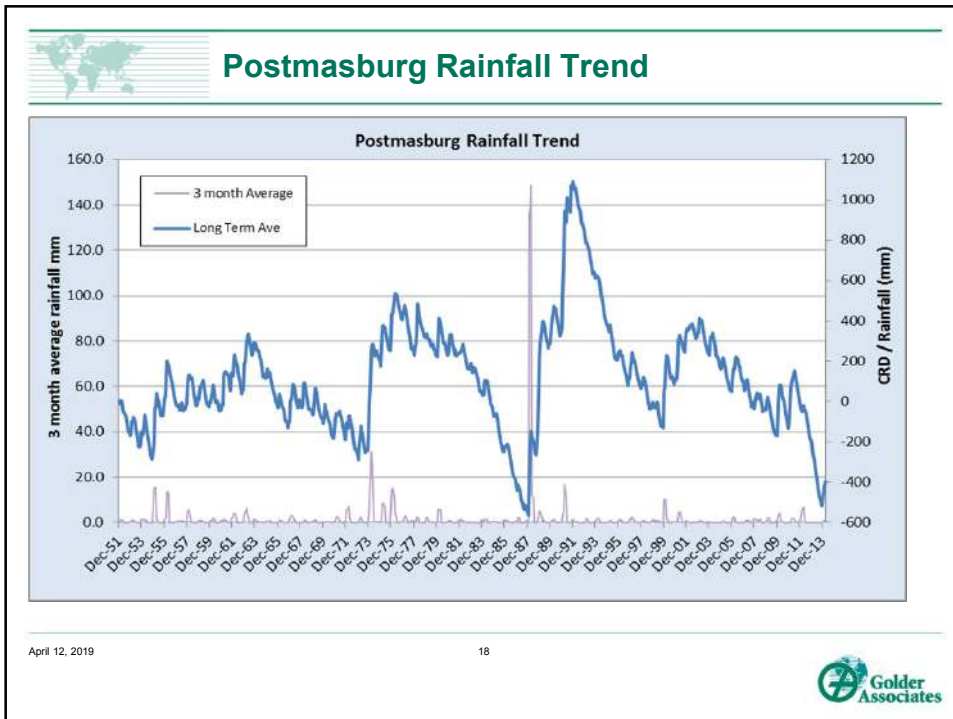
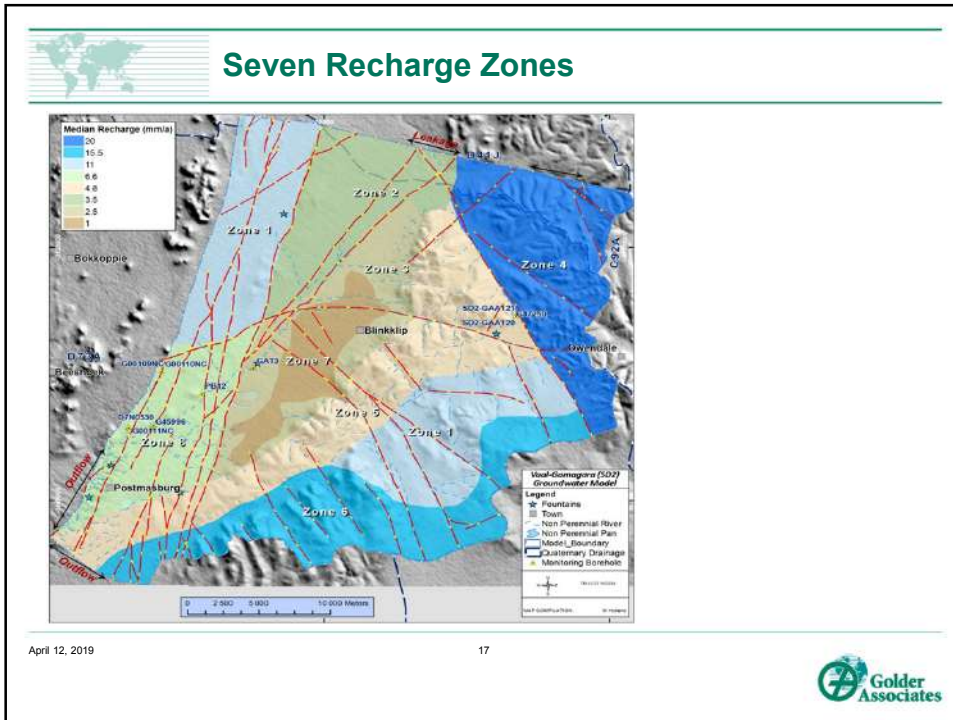


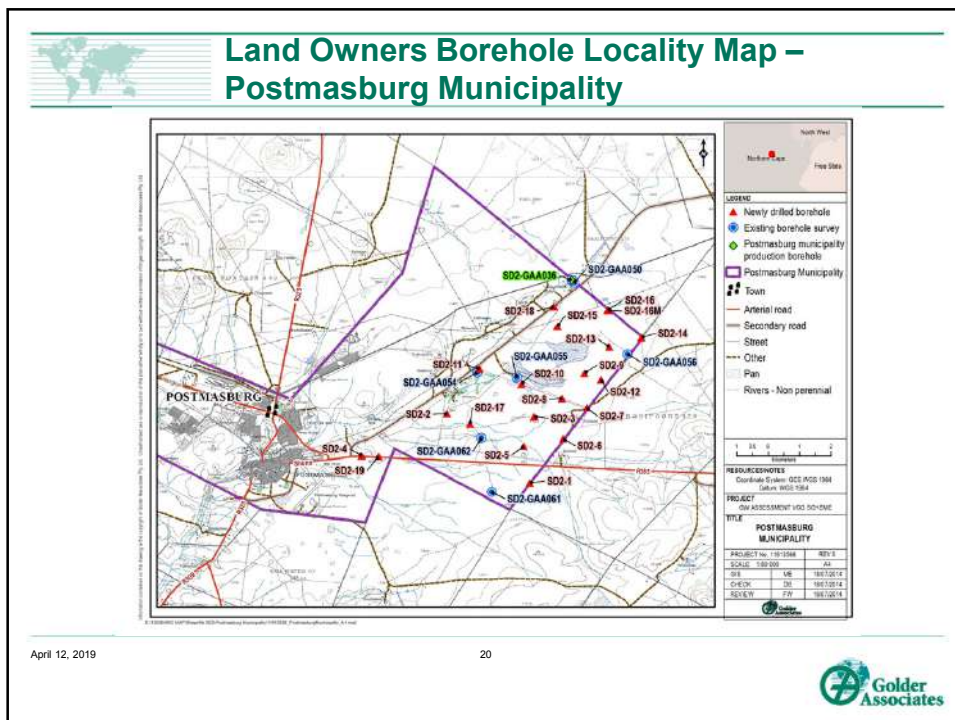
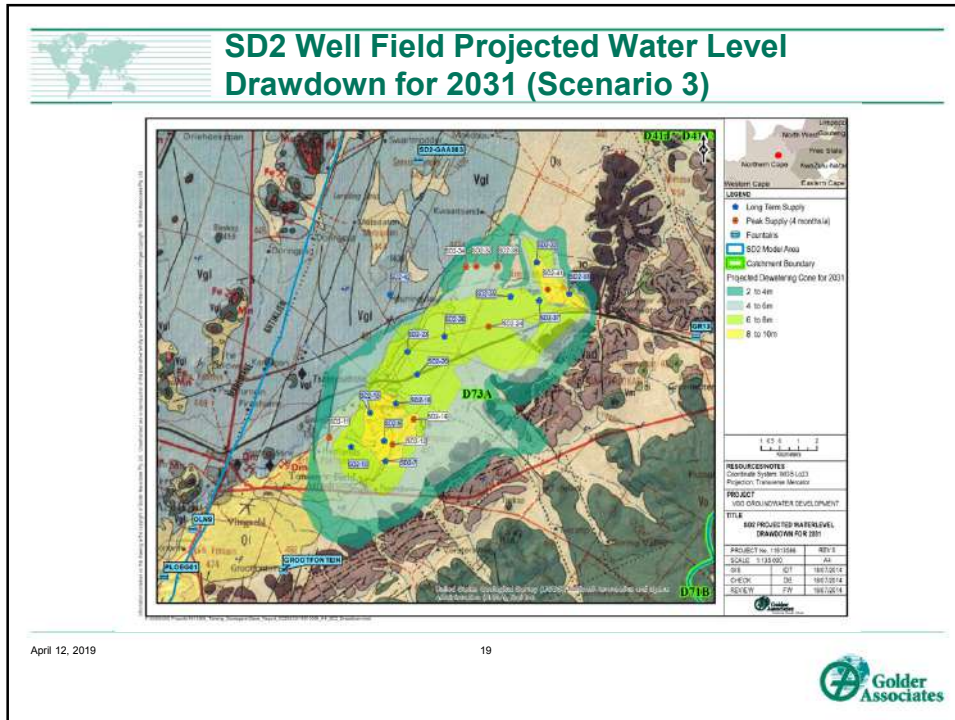
### Recommended Well Field Abstraction Rates

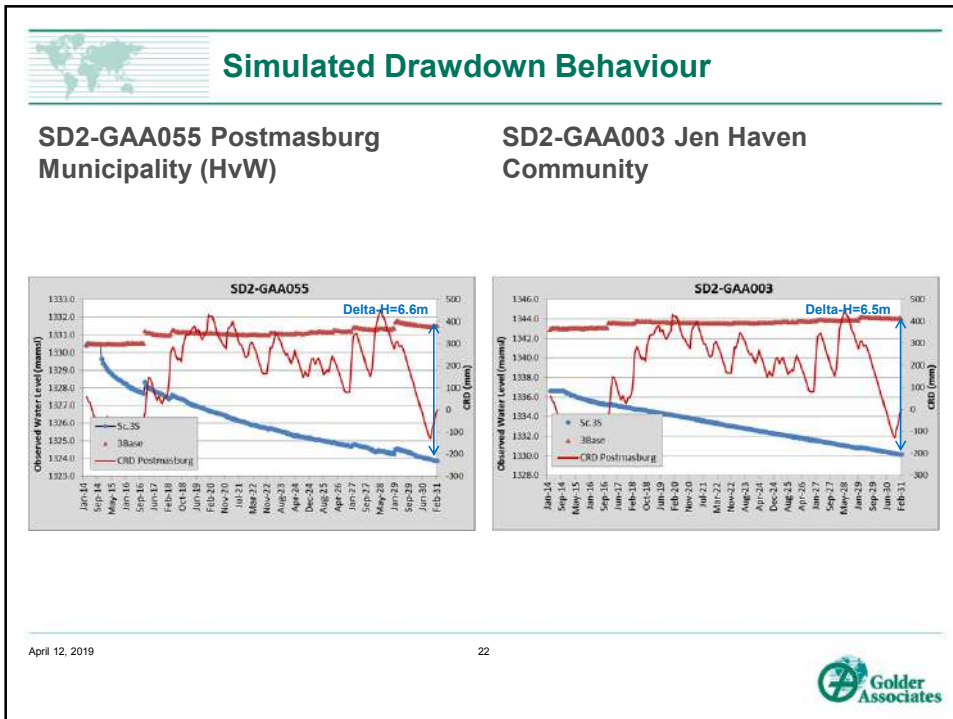
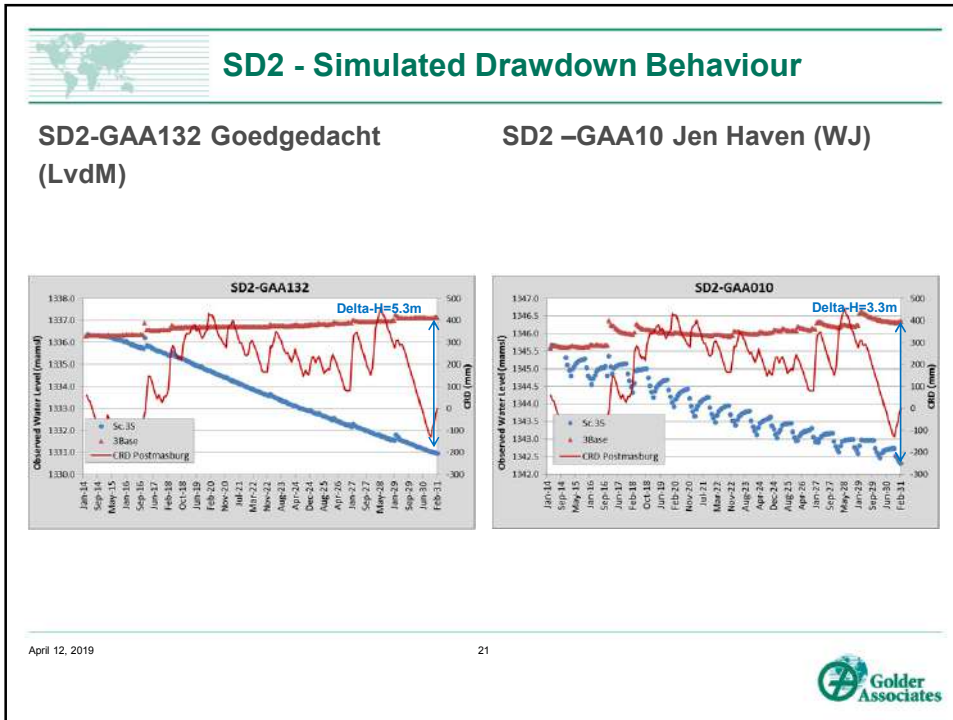
Well Field	Number of BH's	Yield l/s	Long Term m <sup>3</sup> /a	Additional Peak Supply m <sup>3</sup> /a 4 months/a
South	12	119	2901312	693792
South-West	1	10	0	262800
North	6	37	630720	536112
North-West	2	15	157680	315360
<b>Total</b>	<b>21</b>	<b>181</b>	<b>3 689 712</b>	<b>1 808 064</b>


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## Groundwater Monitoring Programme

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### Baseline Resource Monitoring (Pre Well Field Implementation)


- Quarterly water level monitoring of all accessible exploration boreholes
  - January 2014
  - March 2014
  - June 2014
  - October 2014
- Continuous water level monitoring at 7 installed electronic data loggers
- Require **at least one year baseline** monitoring prior to implementation

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## SD2-05 Level Logger Data

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Logger Data - SD2-05

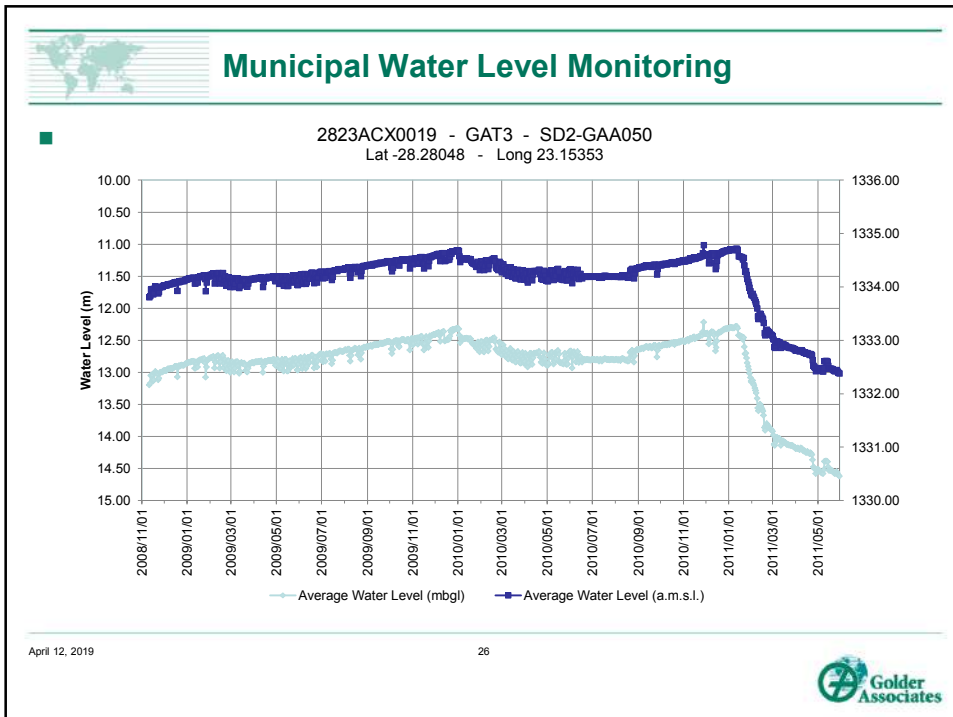
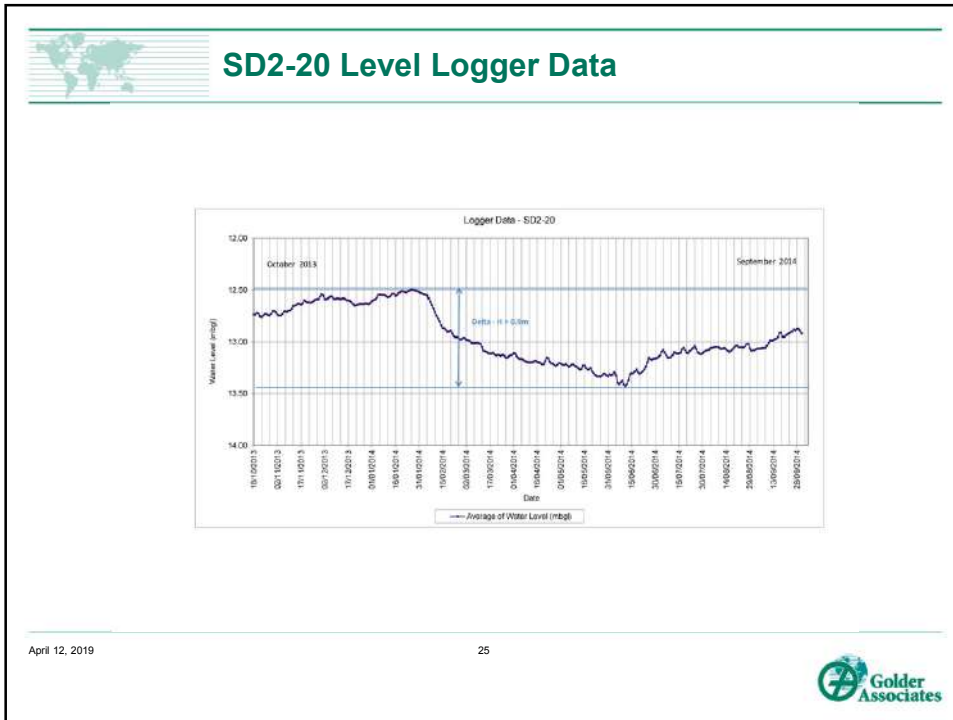
Water Level (mBgl)

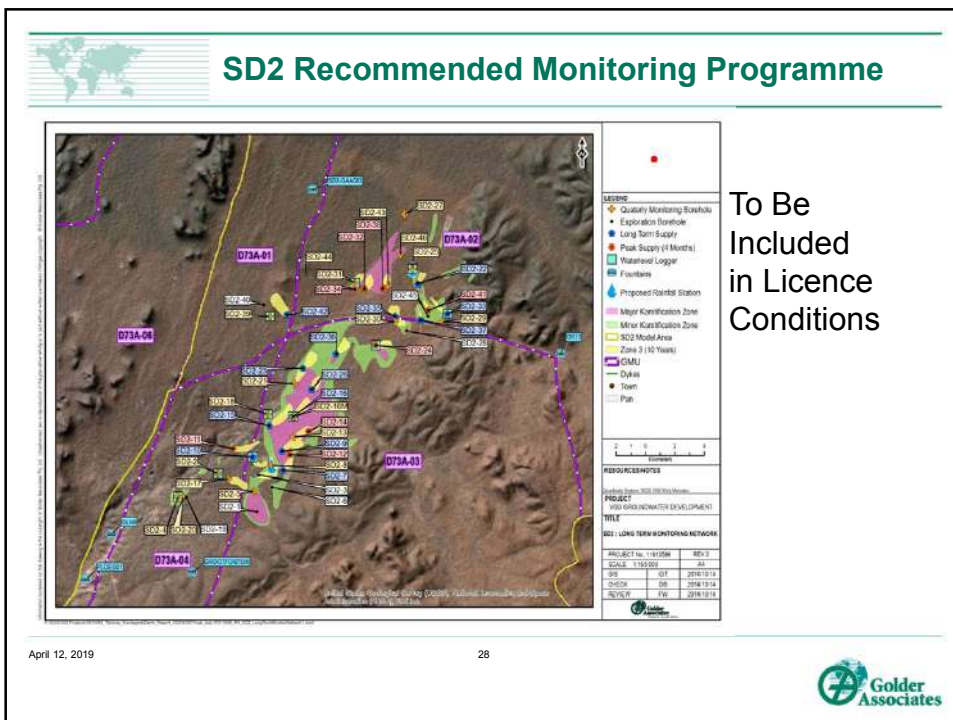
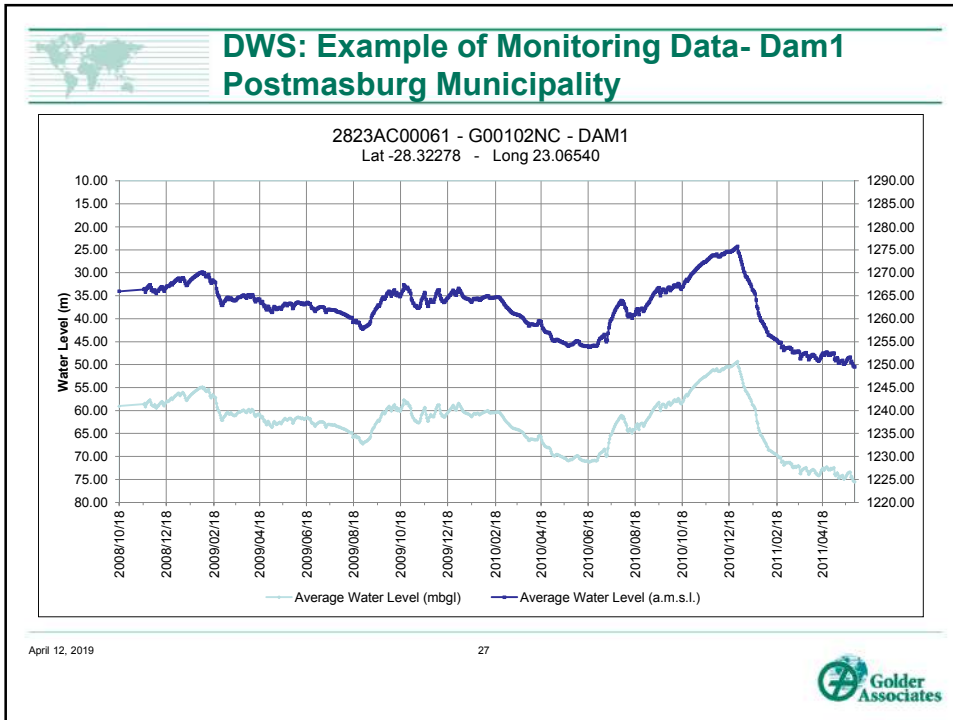
Date

Average of Water Level (mBgl)

Delta = 18 = 0.6m

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## Recommended Resource Monitoring

- Continuous Water Level monitoring – Loggers (at least 10 per SD area)
- Bi-annual Water Level – All accessible exploration boreholes.
- Post Model audit of well field performance, within one year after implementation
- Annual Audit of Licence Conditions
- Effective Resource Management required to ensure long term sustainable abstraction not to exceed maximum allowable drawdown criteria

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- Thank You

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## VAAL GAMAGARA REGIONAL WATER SUPPLY SCHEME PHASE 2 (VGRWSS-II)

Public Meetings: 9 & 10 April 2019



# 1) OPENING AND WELCOME





# AGENDA

No.	Agenda Items	Speaker
1	<b>OPENING AND WELCOME</b>	Chairperson
2	<b>ATTENDANCE AND APOLOGIES</b>	
3	<b>PURPOSE OF AND RULES FOR THE MEETING</b>	
4	<b>PROJECT OVERVIEW</b>	Pro-Plan
4.1	<i>Background and Motivation</i>	
4.2	<i>Project Description</i>	
5	<b>ENVIRONMENTAL ASSESSMENTS</b>	Nemai Consulting
6	<b>DISCUSSION</b>	All
7	<b>CLOSURE</b>	Chairperson

*Please complete & sign the Attendance Register (provide email address)*

# PROJECT TEAM

Project Role	Affiliation	Representatives
Applicant	Sedibeng Water	➤ Ian Hasenjager 
Technical Team	Pro-Plan	➤ Walther van der Westhuizen ➤ Japie Botha 
EAP	Nemai Consulting	➤ Donovan Henning ➤ Christian van der Hoven 
Environmental Partner	NM Environmental	➤ Njabulo Mkhosana 

## PURPOSE OF THE MEETING

- ❖ To provide an overview of the proposed project.
- ❖ To provide an overview of the environmental assessments associated with the project.
- ❖ To provide a platform for project-related discussions.
- ❖ To obtain input for the environmental assessments.

## RULES FOR THE MEETING

- ❖ Questions to relate to project at hand
- ❖ Opportunities for seeking clarification at end of presentations
- ❖ Address project team through facilitator
- ❖ Identify yourself before asking a question
- ❖ Meeting closing time
- ❖ Cell phones off, please

## 4) PROJECT OVERVIEW



## 5) ENVIRONMENTAL ASSESSMENTS



# ENVIRONMENTAL ASSESSMENTS



VGRWSS-II

Public Meetings

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# ENVIRONMENTAL ASSESSMENTS

	Project Component	NEMA
1	Upgrade of VGRWSS Phase 2	Basic Assessment – application to DEA

*NEMA = National Environmental Management Act (No. 107 of 1998)*  
*DEA = Department of Environmental Affairs*



VGRWSS-II

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# ENVIRONMENTAL ASSESSMENTS

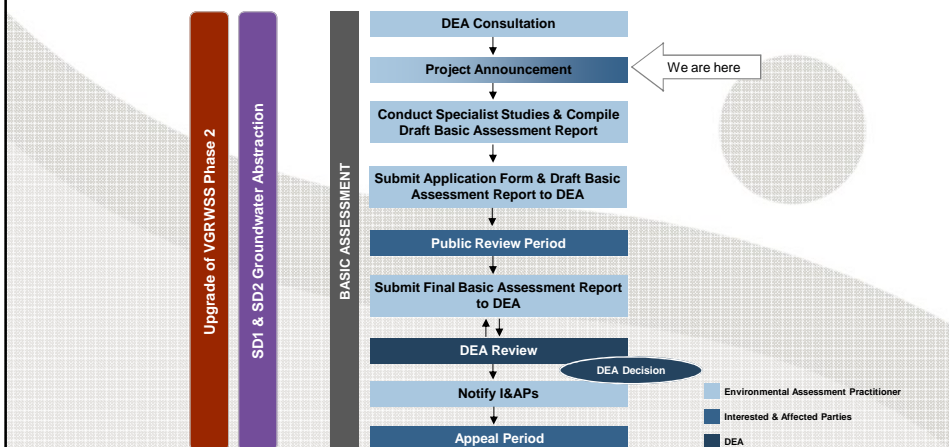
	Project Component	NEMA
1	Upgrade of VGRWSS Phase 2	Basic Assessment – application to DEA
2	SD1 & SD2 Groundwater Abstraction	Basic Assessment – application to DEA

*NEMA = National Environmental Management Act (No. 107 of 1998)*  
*DEA = Department of Environmental Affairs*



# ENVIRONMENTAL ASSESSMENTS

## Basic Assessment



# ENVIRONMENTAL ASSESSMENTS

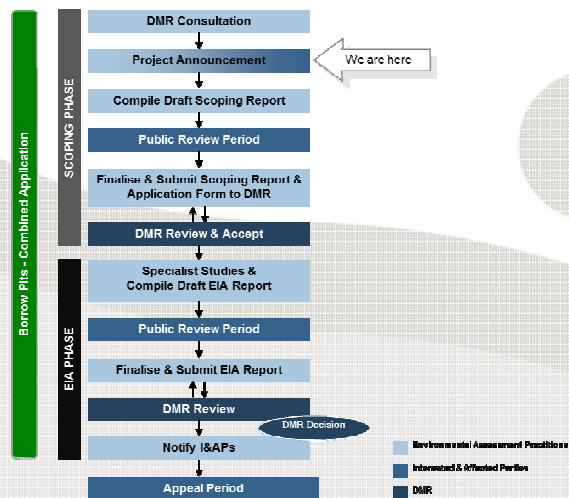
	Project Component	NEMA	MPRDA
1	Upgrade of VGRWSS Phase 2	Basic Assessment – application to DEA	N/A
2	SD1 & SD2 Groundwater Abstraction	Basic Assessment – application to DEA	N/A
3	<b>Borrow Pits</b>	Scoping & EIA – application to DMR	

*MPRDA = Mineral and Petroleum Resources Development Act (Act No. 28 of 2002)*  
*DMR = Department of Mineral Resources*

- ❖ Borrow pits required to source bedding material during the construction phase
- ❖ Situated at approximately 10km intervals
- ❖ Total of 20 borrow pits
- ❖ Estimated size of each borrow pit = approximately 600 000 m<sup>3</sup>
- ❖ Locations to be determined during geotechnical investigations

# ENVIRONMENTAL ASSESSMENTS

## Scoping & EIA



# ENVIRONMENTAL ASSESSMENTS

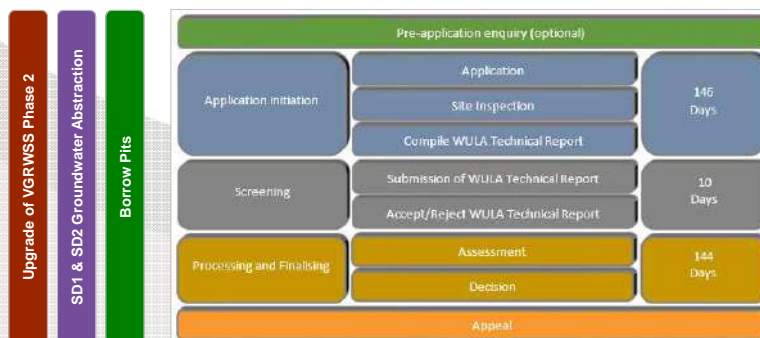
	Project Component	NWA
1	Upgrade of VGRWSS Phase 2	Water Use Authorisation Process – application to DWS
2	SD1 & SD2 Groundwater Abstraction	
3	Borrow Pits	

*NWA = National Water Act (No. 36 of 1998)*  
*DWS = Department of Water and Sanitation*

- ❖ **Section 21(a)** (*taking water from a water resource*) – SD1 and SD2 Groundwater Abstraction
- ❖ **Section 21(b)** (*storing water*) – new reservoirs associated with SD1 and SD2
- ❖ **Section 21(c)** (*impeding or diverting the flow of water in a watercourse*) & **Section 21(i)** (*altering the bed, banks, course or characteristics of a watercourse*) – instream works for all project components.

# ENVIRONMENTAL ASSESSMENTS

## Water Use Authorisation



# ENVIRONMENTAL ASSESSMENTS

## Key Elements of Environmental Assessments

- ❖ Detailed understanding of the project



# ENVIRONMENTAL ASSESSMENTS

## Key Elements of Environmental Assessments


- ❖ Detailed understanding of the project
- ❖ Environmental legal framework



# ENVIRONMENTAL ASSESSMENTS

## Key Elements of Environmental Assessments

- ❖ Detailed understanding of the project
- ❖ Environmental legal framework
- ❖ **Profile of the receiving environment:**
  - Land Use & Land Cover
  - Climate
  - Geology
  - Geohydrology
  - Soils
  - Topography
  - Surface Water
  - Flora
  - Fauna
  - Socio-Economic Environment
  - Agriculture
  - Air quality
  - Noise
  - Historical and Cultural Features
  - Planning
  - Existing Structures & Infrastructure
  - Transportation
  - Aesthetic Qualities




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# ENVIRONMENTAL ASSESSMENTS

## Key Elements of Environmental Assessments

- ❖ Detailed understanding of the project
- ❖ Environmental legal framework
- ❖ Profile of the receiving environment
- ❖ **Specialist studies:**
  - Terrestrial Ecological Impact Assessment
  - Heritage Impact Assessment
  - Surface Water Impact Assessment and Delineation
  - Agricultural Impact Assessment
  - Socio-Economic Impact Assessment
  - Groundwater Assessment

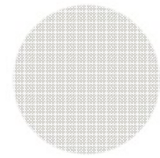


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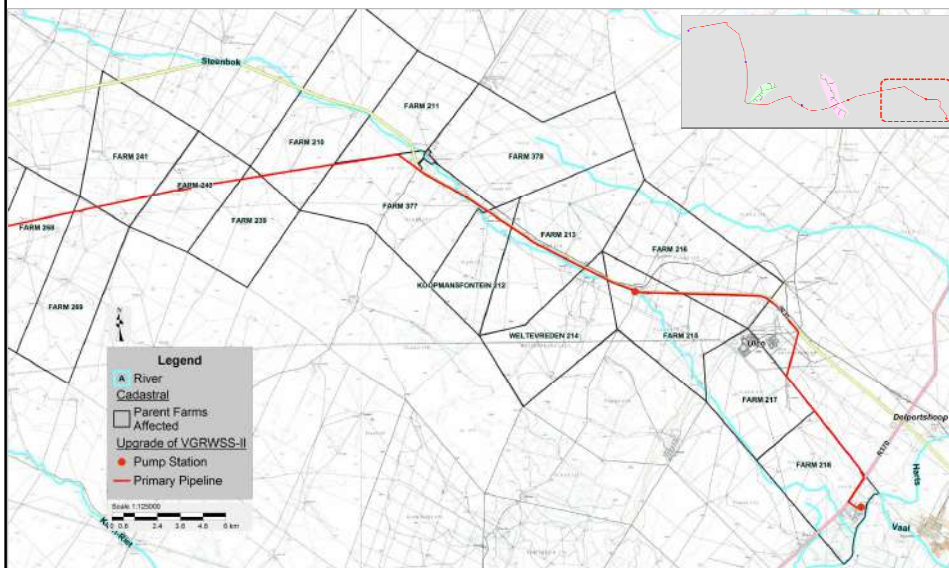
# ENVIRONMENTAL ASSESSMENTS

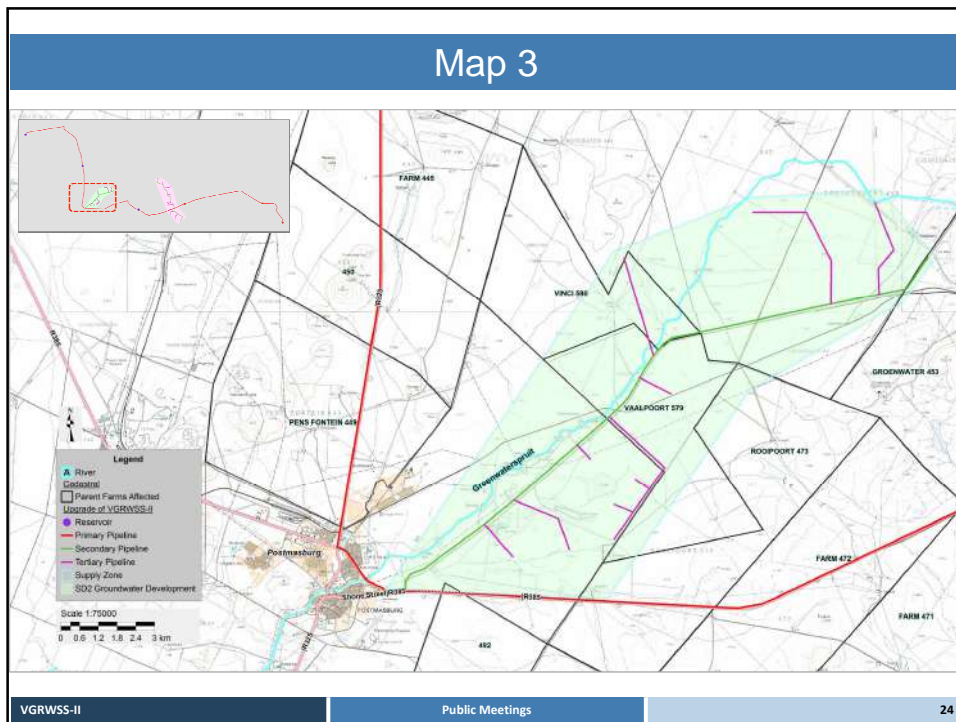
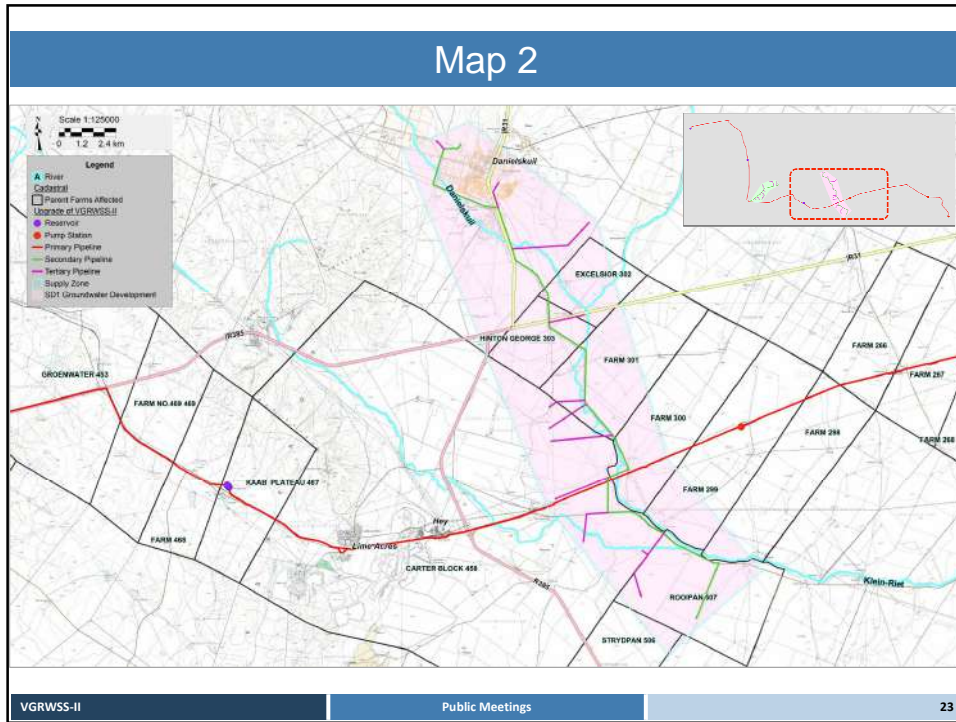
## Key Elements of Environmental Assessments

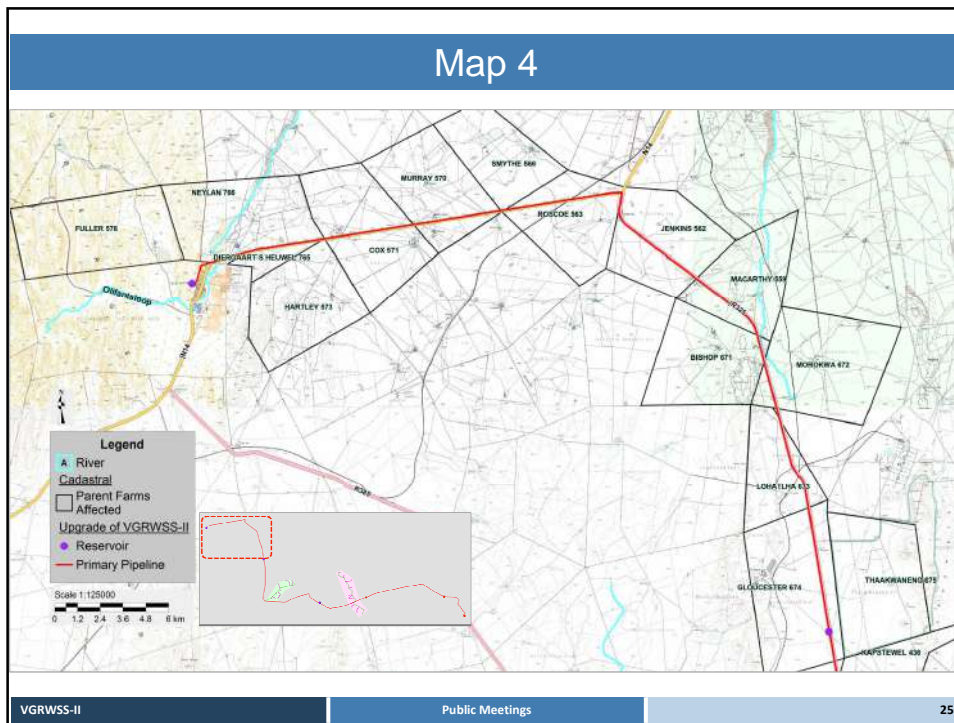
- ❖ Detailed understanding of the project
- ❖ Environmental legal framework
- ❖ Profile of the receiving environment
- ❖ Specialist studies
- ❖ **Public Participation:**
  - ❑ Database of Interested & Affected Parties



## Map 1







# ENVIRONMENTAL ASSESSMENTS

## Key Elements of Environmental Assessments

- ❖ Detailed understanding of the project
- ❖ Environmental legal framework
- ❖ Profile of the receiving environment
- ❖ Specialist studies
- ❖ **Public Participation:**


**Announcement:**

- Onsite Notices
- Newspaper Notices
- BIDs & Reply Forms
- Registration of I&APs

➔

**Notification of review of Draft Report(s):**

- Onsite Notices
- Newspaper Notices
- Emails
- Other*




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# ENVIRONMENTAL ASSESSMENTS

## Key Elements of Environmental Assessments

- ❖ Detailed understanding of the project
- ❖ Environmental legal framework
- ❖ Profile of the receiving environment
- ❖ Specialist studies



- ❖ **Public Participation:**
  - Public Meetings –

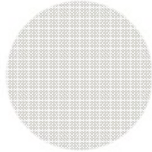
Date	9 April 2019		10 April 2019	
Area	Delportshoop	Lime Acres	Postmasburg	Olifantshoek
Time	09h30 – 12h00	14h30 – 17h00	09h00 - 11h30	14h00 - 16h30
Venue	Tsholofelo Hall, Tidimalo, Delportshoop	Kgatelopele Municipal Town Hall, 222 Barker Street, Danielskuil	Postmasburg NG Kerk Church Centre, 12 Duiker Street, Postmasburg	Diepkloof Community Hall, Kagiso Street/Toto Street, Olifantshoek

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# ENVIRONMENTAL ASSESSMENTS

## Key Elements of Environmental Assessments

- ❖ Detailed understanding of the project
- ❖ Environmental legal framework
- ❖ Profile of the receiving environment
- ❖ Specialist studies
- ❖ Public Participation



- ❖ **Impact Assessment & Management:**
  - Project-related infrastructure
  - Understanding of direct, indirect & cumulative effects of the project
  - Activities associated with project life-cycle
  - Input received during public participation
  - Proposed alternatives
  - Legal & policy context
  - Nature & profile of receiving environment

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# ENVIRONMENTAL ASSESSMENTS

## Basic Assessments - Timeframes

Upgrade of VGRWSS Phase 2

SD1 & SD2 Groundwater Abstraction

Task Name	Timeframes
Project Announcement	29 March – 06 May 2019
Specialist Studies	April – May 2019
Draft BARs - Public Review Period	Jun – Jul 2019
Finalise & Submit BARs to DEA	August 2019
DEA Review & Decision on BARs	November 2019
Notification of Decision	November 2019

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# 6) DISCUSSION



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# Thank you

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**Company:** Nemaï Consulting  
**Contact Person:** Donovan Henning  
**Tel:** (011) 781 1730  
**Fax:** (011) 781 1731  
**Email:** donavanh@nemaï.co.za  
**Postal Address:** PO Box 1673, Sunninghill, 2157