

Our Ref: 04_0325A_Rand Water

Date: 21 May 2026

DEAR ORGANS OF STATE

RE: NOTIFICATION OF ENVIRONMENTAL AUTHORISATION GRANTED FOR THE PROPOSED CONSTRUCTION AND MAINTENANCE OF NEW SYSTEM 1 AT RAND WATER VEREENIGING TREATMENT WORKS, INSTALLATION OF APPROXIMATELY 7 KM PHASE 2 SLUDGE PIPELINE IN VEREENIGING, 1.5 KM SLUDGE LINE IN PANFONTEIN AND ASSOCIATED INFRASTRUCTURE WITHIN THE JURISDICTION OF SEDIBENG DISTRICT MUNICIPALITY, GAUTENG PROVINCE.

DFFE REF NO: 14/12/16/3/1/3213

Subsequent to the submission of the Final Basic Assessment Report on **19 January 2026** in relation to the abovementioned project. Notice is hereby given in terms of Regulation 4(2)(a) published in Government Notice No. R. (GN R) 326 under Chapter 2 of the National Environmental Management Act (NEMA) (Act No. 107 of 1998, as amended), Environmental Impact Assessment (EIA) Regulations (as amended in 2014 that the Environmental Authorisation (EA) for the abovementioned project has been **GRANTED** by the Department of Forestry, Fisheries and the Environment (DFFE). An Environmental Authorisation Application was submitted to the Competent Authority on **30 September 2025** and acknowledged on **01 October 2025**. Furthermore, the decision to grant Environmental Authorization for the said application was granted on **07 May 2026** and reached the EAP on **07 May 2026**, and the reasons for the decisions are detailed in Annexure 1 (page 16) of the EA.

Notice of Appeal Process:

In accordance with regulation 4(2) of the EIA Regulations, 2014, as well as Section 44 of the NEMA Appeal Regulations, read together with Section 43 of NEMA as amended, all I&APs are hereby notified of the decision by the Department of Forestry, Fisheries and the Environment (DFFE) to grant the EA, and your attention is hereby drawn to the fact that an appeal may be lodged against the decision in terms of Regulation 4(1) of the NEMA Appeal Regulations.

A notice of intention to appeal against the decision must be lodged with The Appeal Administrator within twenty (20) days of notification of this decision. A copy of the notice of the intention to appeal must also be submitted

to the Environmental Assessment Practitioner representative (Shonisani Selahle – ppp@scprojects.co.za), the applicant, any registered Landowners, interested and affected party, and any organ of the state.

Appeal to the Department of Forestry, Fisheries and the Environment (DFFE)

Attention:	The Director: Appeals and Legal Review
Email	appeals@dfpe.gov.za
By Post	Private Bag X447 Pretoria 0001
By Hand	Environment House, 473 Steve Biko Road Arcadia Pretoria 0083

Copy of lodged appeal to be sent to Rand Water

Attention:	Jimmy Maluleke
Email	jmalulek@randwater.co.za
Contact no:	011 724 9055
By Post	PO Box 1127 Johannesburg 2000

For further information please do not hesitate to contact the Environmental Assessment Practitioner (EAP):

Shonisani Selahle,
Selahle Consultancy and Projects (Pty) Ltd
Tel : 011 026 2560 / 079 569 5277
Email : ppp@scprojects.co.za

Yours Sincerely



Shonisani Selahle
Environmental Assessment Practitioner
EAPASA Registered EAP:
Pr EAP – 2020/2646
SCP Environmental Division
Encl: Copy of Granted EA





forestry, fisheries & the environment

Department:
Forestry, Fisheries and the Environment
REPUBLIC OF SOUTH AFRICA

Private Bag X 447· PRETORIA · 0001· Environment House ·473 Steve Biko Road, Arcadia· PRETORIA

DFFE Reference: 14/12/16/3/3/1/3213

Enquiries: Ms Trisha Pillay

Telephone: 012 399 9406 Email: tpillay@dfpe.gov.za

Mr Jimmy Maluleke
Rand Water
PO Box 1127
JOHANNESBURG
2000

Telephone Number: (011) 724 9055
Email Address: jmalulek@randwater.co.za

PER EMAIL

Dear Mr Maluleke

APPLICATION FOR ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, ACT NO. 107 OF 1998, AS AMENDED: FOR THE CONSTRUCTION AND MAINTENANCE OF THE NEW SYSTEM 1 AT RAND WATER VEREENIGING TREATMENT WORKS, INCLUDING THE INSTALLATION OF THE PHASE 2 SLUDGE PIPELINE IN VEREENIGING, AND A SLUDGE LINE IN PANFONTEIN, AND ASSOCIATED INFRASTRUCTURE WITHIN EMFULENI LOCAL MUNICIPALITY, SEDIBENG DISTRICT MUNICIPALITY, GAUTENG PROVINCE

With reference to the above application, please be advised that the Department has decided to grant authorisation. The Environmental Authorisation (EA) and reasons for the decision are attached herewith.

In terms of the Promotion of Administrative Justice Act, 2000 (Act No. 3 of 2000), you are entitled to the right to fair, lawful and reasonable administrative action; and to written reasons for administrative action that affects you negatively. Further your attention is drawn to the provisions of the Protection of Personal Information Act, 2013 (Act No. 4 of 2013) which stipulates that the Department should conduct itself in a responsible manner when collecting, processing, storing and sharing an individual or another entity's personal information by holding the Department accountable should the Department abuses or compromises your personal information in any way.

In terms of Regulation 4(2) of the NEMA EIA Regulations, 2014, as amended (the EIA Regulations), you are instructed to notify all registered interested and affected parties, in writing and within fourteen (14) days of the date of the decision, of the Department's decision as well as the provisions regarding the submission of appeals that are contained in the Regulations.



***Batho pele* – putting people first**

Departement van Bosbou, Visserye en die Omgewing • Department of Forestry, Fisheries and the Environment • UmNyango wezamaHlathi, zokuThiya neBhoduluko • iSebe lezamaHlathi, ezokuLoba noKusingqongileyo • Umnyango WezamaHlathi, Ezokudoba Nezemvelo • Kgoro ya Dithokgwa, Boreahlapi le Tikologo • Lefapha la Meru, Botshwasi ba dithapi le Tikoloho • Lefapha la Dikgwa, Dilhapi le Tikologo • Litiko Letemahlatsi, Tinhlanti Netendzawo • Muhasho wa zwa Vhusima-magaka, Vhureakhovhe na Mupo • Ndzawulo ya Switlahla, Vunjoveri na Mbango. The processing of personal information by the Department of Forestry, Fisheries and the Environment is done lawfully and not excessively for the purpose of processing in compliance with the POPI Act, any codes of conduct issued by the Information Regulator in terms of the POPI Act, and/or relevant legislation providing appropriate security safeguards for the processing of personal information of others.

DFFE REF: 14/12/16/3/3/1/3213

APPLICATION FOR ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, ACT NO. 107 OF 1998, AS AMENDED: FOR THE CONSTRUCTION AND MAINTENANCE OF THE NEW SYSTEM 1 AT RAND WATER VEREENIGING TREATMENT WORKS, INCLUDING THE INSTALLATION OF THE PHASE 2 SLUDGE PIPELINE IN VEREENIGING, AND A SLUDGE LINE IN PANFONTEIN, AND ASSOCIATED INFRASTRUCTURE WITHIN EMFULENI LOCAL MUNICIPALITY, SEDIBENG DISTRICT MUNICIPALITY, GAUTENG PROVINCE

Your attention is drawn to Chapter 2 of the National Environmental Management Act, 1998 (Act No. 107 of 1998) National Appeal Regulations published under Government Notice R5985 in Government Gazette No. 52269 dated 13 March 2025 (National Appeal Regulations, 2025), which prescribe the appeal procedure to be followed. Kindly include a copy of this document (National Appeal Regulations, 2025) with the letter of notification to interested and affected parties in this matter.

Should any person wish to lodge an appeal against this decision, he/she must submit the appeal to the appeal administrator, and a copy of the appeal to the applicant, any registered interested and affected party, and any organ of state with interest in the matter within twenty (20) days from the date that the notification of the decision was sent to the registered interested and affected parties by the applicant; or the date that the notification of the decision was sent to the applicant by the Department, whichever is applicable.

Appeals must be submitted in writing in the prescribed form to:

The Director: Appeals and Legal Review of this Department at the below mentioned addresses.

By email: appeals@dff.gov.za

By hand: Environment House
473 Steve Biko Road
Arcadia
PRETORIA
0083 or

By post: Private Bag X447
PRETORIA
0001

Please note that in terms of Section 43(7) of the National Environmental Management Act, Act No. 107 of 1998, as amended, the lodging of an appeal will suspend the environmental authorisation or any provision or condition attached thereto. In the instance where an appeal is lodged, you may not commence with the activity until such time that the appeal is finalised.

To obtain the prescribed appeal form and for guidance on the submission of appeals, please visit the Department's website at https://www.dffe.gov.za/documents/forms#legal_authorisations or request a copy of the documents at appeals@dff.gov.za.

Yours faithfully



Dr Sabelo Malaza
Chief Director: Integrated Environmental Authorisations
Department of Forestry, Fisheries & the Environment
Date: 07/05/2026

cc.	Shonisani Selahle	Selahle Consultancy and Projects (Pty) Ltd	Email: admin@scprojects.co.za
	Tl'at'a Mosia	Gauteng Department of Environment	Email: Tl'at'a.Mosia@gauteng.gov.za
	Emfuleni Local Municipality	Zamani Mabena	Email: zamanim@emfuleni.gov.za





forestry, fisheries & the environment

Department:
Forestry, Fisheries and the Environment
REPUBLIC OF SOUTH AFRICA

Environmental Authorisation

In terms of Regulation 25 of the Environmental Impact Assessment Regulations, 2014, as amended

**THE CONSTRUCTION AND MAINTENANCE OF THE NEW SYSTEM 1 AT RAND WATER VEREENIGING
TREATMENT WORKS, INCLUDING THE INSTALLATION OF THE PHASE 2 SLUDGE PIPELINE IN
VEREENIGING, AND A SLUDGE LINE IN PANFONTEIN, AND ASSOCIATED INFRASTRUCTURE WITHIN
EMFULENI LOCAL MUNICIPALITY, GAUTENG PROVINCE**

The Sedibeng District Municipality

Authorisation register number:	14/12/16/3/3/1/3213
Last amended:	First issue
Holder of authorisation:	Rand Water
Location of activity:	Portion 111 of the Farm Leeuwkuil 596 IQ; Portion 60 of the Farm Leeuwkuil 596 IQ; Portion 81 of the Farm Leeuwkuil 596 IQ; Portion 98 of the Farm Leeuwkuil 596 IQ; Portion 117 of the Farm Leeuwkuil 596 IQ; Portion 122 of the Farm Leeuwkuil 596 IQ; Portion 111 of the Farm Leeuwkuil 596 IQ; Portion 160 of the Farm Leeuwkuil 596 IQ; Portion 251 of the Farm Leeuwkuil 596 IQ; Portion 255 of the Farm Leeuwkuil 596 IQ; Portion 260 of the Farm Leeuwkuil 596 IQ; Portion 0 of the Farm Klipplaatdrift 601 IQ;

M.S

	<p><i>Portion 72 of the Farm Klipplaatdrift 601 IQ;</i> <i>Portion 0 of the Farm Usco 603 IQ;</i> <i>Portion 77 of the Farm Uitvulgt 434 IR;</i> <i>Potion 1 of the Farm Panfontein 437 IR;</i> <i>Portion RE of the Farm Panfontein 437 IR;</i> <i>Portion 6 of the Farm Panfontein 437 IR;</i> <i>Emfuleni Local Municipality;</i> <i>Sedibeng District Municipality; and</i> <i>Gauteng Province.</i></p>
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This authorisation does not negate the holder of the authorisation's responsibility to comply with any other statutory requirements that may be applicable to the undertaking of the activity.

M.S

Decision

The Department is satisfied, on the basis of information available to it and subject to compliance with the conditions of this Environmental Authorisation, that the applicant should be authorised to undertake the activities specified below.

Non-compliance with a condition of this Environmental Authorisation may result in criminal prosecution or other actions provided for in the National Environmental Management Act, Act No. 107 of 1998, as amended and the EIA Regulations, 2014, as amended.

Details regarding the basis on which the Department reached this decision are set out in Annexure 1.

Activities authorised

By virtue of the powers conferred on it by the National Environmental Management Act, Act No. 107 of 1998, as amended and the Environmental Impact Assessment Regulations, 2014, as amended, the Department hereby authorises –

Rand Water

(hereafter referred to as the **holder of the authorisation**)

with the following contact details –

Mr Jimmy Maluleke

Rand Water

PO Box 1127

JOHANNESBURG

2000

Telephone Number: (011) 724 9055

Email Address: imalulek@randwater.co.za

to undertake the following activities (hereafter referred to as “the activity”) indicated in Listing Notice 1 and Listing Notice 3 of the NEMA EIA Regulations, 2014 as amended:

Activity number	Activity description
<p><u>Listing Notice 1, Item 9</u></p> <p><i>“The development of infrastructure exceeding 1000 metres in length for the bulk transportation of water or storm water-</i></p> <p><i>(i) with an internal diameter of 0,36 metres or more;</i></p> <p><i>or</i></p> <p><i>(ii) with a peak throughput of 120 litres per second or more.”</i></p>	<p>The development entails the installation of sludge pipelines that are more than 1000m in length with internal diameters that are more than 0,36m.</p>
<p><u>Listing Notice 1, Item 10</u></p> <p><i>“The development and related operation of infrastructure exceeding 1 000 metres in length for the bulk transportation of sewage, effluent, process water, waste water, return water, industrial discharge or slimes-</i></p> <p><i>(i) with an internal diameter of 0,36 metres or more.”</i></p>	<p>The development entails the installation of pipelines that will be used for bulk transportation of sludge. The pipelines will be more than 1000m in length with internal diameters that are more than 0,36m.</p>
<p><u>Listing Notice 1, Item 13</u></p> <p><i>“The development of facilities or infrastructure for the off-stream storage of water, including dams and reservoirs, with a combined capacity of 50 000 cubic metres or more, unless such storage falls within the ambit of activity 16 in Listing Notice 2 of 2014.”</i></p>	<p>The construction of the Vereeniging New System 1 entails the capacity of storing 1400ML/D (Megalitres per day) of water pumped from the Vaal River.</p>
<p><u>Listing Notice 1, Item 19</u></p> <p><i>“The infilling or depositing of any material of more than 10 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 10 cubic metres from a watercourse.”</i></p>	<p>The installation of the sludge pipelines will entail the infilling or depositing of any material of more than 10m³ into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles, or rock of more than 10m³ from a watercourse.</p>
<p><u>Listing Notice 1, Item 27</u></p> <p><i>“The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation.”</i></p>	<p>The development of the Vereeniging New System 1 and the pipelines entails the clearance of an area of</p>

	1ha or more, but less than 20ha of indigenous vegetation.
<p><u>Listing Notice 3, Item 12</u></p> <p><i>"The clearance of an area of 300 square metres or more of indigenous vegetation.</i></p> <p><i>c. Gauteng</i></p> <p><i>ii. Within Critical Biodiversity Areas or Ecological Support Areas identified in the Gauteng Conservation Plan or bioregional plans."</i></p>	<p>The development entails the clearance of an area of 300m² or more, within the Gauteng Province where the development occurs within Critical Biodiversity Areas or Ecological Support Areas identified in the Gauteng Conservation Plan or bioregional plans.</p>
<p><u>Listing Notice 3, Item 14</u></p> <p><i>"The development of-</i></p> <p><i>(ii) infrastructure or structures with a physical footprint of 10 square metres or more;</i></p> <p><i>where such development occurs-</i></p> <p><i>(c) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse;</i></p> <p><i>c. Gauteng</i></p> <p><i>iv. Sites identified as Critical Biodiversity Areas (CBAs) or Ecological Support Areas (ESAs) in the Gauteng Conservation Plan or in bioregional plans."</i></p>	<p>The installation of phase 2 sludge pipeline will occur within 32m of a watercourse, measured from the edge of a watercourse within the Gauteng Province where the development occurs within Critical Biodiversity Areas or Ecological Support Areas identified in the Gauteng Conservation Plan or bioregional plans.</p>

as described in the Basic Assessment Report (BAR) dated January 2026 at:

SG 21 Digit Code:

Farm Description	21 Digit Surveyor General Code
Portion 111 of the Farm Leeuwkuil 596 IQ	T0IQ0000000059600111
Portion 60 of the Farm Leeuwkuil 596 IQ	T0IQ0000000059600060
Portion 81 of the Farm Leeuwkuil 596 IQ	T0IQ0000000059600081
Portion 98 of the Farm Leeuwkuil 596 IQ	T0IQ0000000059600098
Portion 117 of the Farm Leeuwkuil 596 IQ	T0IQ0000000059600117
Portion 122 of the Farm Leeuwkuil 596 IQ	T0IQ0000000059600122
Portion 111 of the Farm Leeuwkuil 596 IQ	T0IQ0000000059600111
Portion 160 of the Farm Leeuwkuil 596 IQ	T0IQ0000000059600160
Portion 251 of the Farm Leeuwkuil 596 IQ	T0IQ0000000059600251

Portion 255 of the Farm Leeuwkuil 596 IQ	T0IQ00000000059600255
Portion 260 of the Farm Leeuwkuil 596 IQ	T0IQ00000000059600260
Portion 0 of the Farm Klipplaatdrift 601 IQ	T0IQ00000000060100000
Portion 72 of the Farm Klipplaatdrift 601 IQ	T0IQ00000000060100072
Portion 0 of the Farm Usco 603 IQ	T0IQ00000000060300000
Portion 77 of the Farm Uitvulgt 434 IR	T0IR00000000043400077
Potion 1 of the Farm Panfontein 437 IR	T0IR00000000043700001
Portion RE of the Farm Panfontein 437 IR	T0IR00000000043700000
Portion 6 of the Farm Panfontein 437 IR	T0IR00000000043700006

Coordinates

Raw Pipeline (New System 1 Vereeniging)		
Point	Latitude	Longitude
Start	26°41'12.77"S	27°55'11.64"E
Middle	26°41'12.07"S	27°55'12.48"E
End	26°41'10.21"S	27°55'12.55"E
225 MLD sedimentation tank (New System 1 Vereeniging)		
Northwest	26°41'15.18"S	27°55'1.19"E
Northeast	26°41'13.13"S	27°55'9.85"E
Southwest	26°41'17.84"S	27°55'1.88"E
Southeast	26°41'15.55"S	27°55'10.90"E
New 250MLD flocculator (New System 1 Vereeniging)		
Northwest	26°41'13.06"S	27°55'10.12"E
Northeast	26°41'12.48"S	27°55'12.25"E
Southwest	26°41'14.97"S	27°55'13.03"E
Southeast	26°41'15.46"S	27°55'11.02"E
Internal existing access road		
1	26°41'16.98"S	27°54'38.37"E
2	26°41'26.21"S	27°54'41.18"E
3	26°41'22.16"S	27°54'56.06"E
4	26°41'16.84"S	27°55'14.13"E
5	26°41'9.60"S	27°55'6.98"E
6	26°41'19.27"S	27°54'52.17"E

Demolition of System 1 tank (90 MLD) to allow for the installation of a new automated system capable of producing 1400 MLD		
1	26°41'15.15"S	27°55'6.87"E
Construction of a Laboratory		
1	26°41'14.79"S	27°55'12.13"E
New Carbon Dioxide dosing Carbonisation Bay		
1	26°41'16.72"S	27°55'1.66"E
WM Pipe Stake		
Start	26°41'12.15"S	27°55'12.46"E
Middle	26°41'11.95"S	27°55'14.51"E
End	26°41'11.58"S	27°55'16.17"E
Construction of De-Sludge Bridge		
Start	26°41'13.8"S	27°55'09.99"E
Middle	26°41'13.88"S	27°55'10.29"E
End	26°41'14.90"S	27°55'10.5"E
Phase 2 Sludge pipeline		
Start	26°41'26.16"S	27°54'42.79"E
Middle	26°41'42.71"S	27°55'12.21"E
End	26°40'55.84"S	27°56'13.16"E
Panfontein Sludge Pipeline		
Start	26° 42' 15.72" S	28° 01' 40.08"E
Middle	26° 42' 51.76" S	28° 02' 08.18" E
End	26° 42' 32.01" S	28° 02' 05.84"E

- for the construction and maintenance of the New System 1 at Rand Water Vereeniging Treatment Works, including the installation of the Phase 2 Sludge Pipeline in Vereeniging, and a Sludge Line in Panfontein, and associated infrastructure within Emfuleni Local Municipality, Sedibeng District Municipality, Gauteng Province, hereafter referred to as "the property".

The project will comprise of the following:

a) New System 1 at Vereeniging Treatment Works.

The Vereeniging New System 1 at Rand Water Vereeniging Treatment Works consist of the following infrastructure but not limited to:

- Construction of a new 250ML/D flocculator and 225ML/D sedimentation tank.

- Installation of the de-sludge bridge.
- Construction of access roads.
- Installation of a raw water pipeline.
- Installation of a sludge pipeline.
- Demolition of System 1 tank (90ML/D) to allow for the installation of a new automated system capable of producing 1400ML/D.
- Construction of a Laboratory.
- The installation of a new Carbon Dioxide dosing Carbonisation Bay.

b) Phase 2 Sludge Pipeline in Vereeniging

The sludge pipeline will comprise, but not be limited to, steel pipe sections, cathodic protection (CP) units, valves, and other associated infrastructure.

- Phase 2 of the sludge pipeline transverse from the sludge pumping station inside Vereeniging Treatment Works and runs through mostly an established industrial area in the south of Vereeniging.
- The proposed sludge pipeline runs alongside as well as across some of these services, which also include Rand Water Bulk Water Pipelines to the Vaal River Crossing.
- The installation and Maintenance of approximately 7km in length of 1000mm nominal internal diameter steel sludge pipe with an 8mm wall thickness to be laid from the Vereeniging Pumping Station to the Vaal River Crossing.

c) Panfontein Sludge Pipeline

The Panfontein sludge pipeline will consist of the installation of a new interconnecting sludge pipeline, approximately 1.5km in length and 800mm in diameter. The pipeline will comprise, but not be limited to, steel pipe sections, cathodic protection (CP) units, valves, and other associated infrastructure.

Technical details of the New System 1, Phase 2 Sludge Pipeline, Panfontein Sludge Pipeline and its associated infrastructure

Technical Component	Description/Dimensions
Raw pipeline (New System 1 Vereeniging)	Length: 100m Diameter: 1000mm Width: 1000mm
225ML/D sedimentation tank (New System 1 Vereeniging)	Footprint: Approximately 2.25ha Length: 255.62m

	Breadth: 87.69m
New 250ML/D flocculator (New System 1 Vereeniging)	Footprint: Approximately 5000m ²
Internal existing access road	Length: Approximately 10km Width: 5m
Demolition of System 1 tank (90ML/D) to allow for the installation of a new automated system capable of producing 1400ML/D	Footprint: Approximately 3ha
Construction of a Laboratory	Area: 50.18m ²
New Carbon Dioxide dosing Carbonisation Bay	Area: 2000m ²
WM Pipe Stake	Length: 108m Diameter: 1000mm
Construction of De- Sludge Bridge	Length: 60m
Phase 2 Sludge pipeline	The installation of approximately 7km in length of 1000mm nominal internal diameter steel sludge pipe with an 8mm wall thickness to be laid from the Vereeniging Pumping Station to the Vaal River Crossing.
Panfontein Sludge Pipeline	The Panfontein Sludge Pipeline consists of the installation of a new interconnecting sludge pipeline, approximately 1.5km in length and 800mm in diameter. The pipeline comprises, but is not limited to, steel pipe sections, cathodic protection (CP) units, valves, and other associated infrastructure.

Conditions of this Environmental Authorisation

Scope of authorisation

1. The construction and maintenance of the New System 1 at Rand Water Vereeniging Treatment Works, including the installation of the Phase 2 Sludge Pipeline in Vereeniging, and a Sludge Line in Panfontein, and associated infrastructure within Emfuleni Local Municipality, Sedibeng District Municipality, Gauteng Province as described above, are hereby approved as per the geographic coordinates cited in the table above.
2. Authorisation of the activity is subject to the conditions contained in this Environmental Authorisation, which form part of the Environmental Authorisation and are binding on the holder of the authorisation.
3. The holder of the authorisation is responsible for ensuring compliance with the conditions contained in this Environmental Authorisation. This includes any person acting on the holder's behalf, including but not limited to, an agent, servant, contractor, sub-contractor, employee, consultant or person rendering a service to the holder of the authorisation.
4. The activities authorised must only be conducted at the property as described above.
5. Any changes to, or deviations from, the project description set out in this Environmental Authorisation must be approved, in writing, by the Department before such changes or deviations may be effected. In assessing whether to grant such approval or not, the Department may request such information as it deems necessary to evaluate the significance and impacts of such changes or deviations and it may be necessary for the holder of the authorisation to apply for further Environmental Authorisation in terms of the regulations.
6. The holder of an Environmental Authorisation must apply for an amendment of the Environmental Authorisation with the Competent Authority for any alienation, transfer or change of ownership rights in the property on which the activity is to take place.
7. This activity must commence within a period of ten (10) years from the date of issue of this Environmental Authorisation. If commencement of the activity does not occur within that period, the authorisation lapses and a new application for Environmental Authorisation must be made in order for the activity to be undertaken.
8. Construction must be completed within five (05) years of the commencement of the activity on site. The continuation of any such activities after the above-mentioned period has lapsed may trigger one or more listed and/or specified activities, including activity 32 of Listing Notice 1. Such continuation without the required Environmental Authorisation will constitute an offence or offences in terms of section 49A(1)(a) read with section 24F(1)(a) of National Environmental Management Act (NEMA).

9. Commencement with one activity listed in terms of this Environmental Authorisation constitutes commencement of all authorised activities.

Notification of authorisation and right to appeal

10. The holder of the authorisation must notify every registered interested and affected party, in writing and within 14 (fourteen) calendar days of the date of this Environmental Authorisation, of the decision to authorise the activity.
11. The notification referred to must –
- 11.1. specify the date on which the authorisation was issued;
 - 11.2. inform the interested and affected party of the appeal procedure provided for in the National Appeal Regulations, 2025;
 - 11.3. advise the interested and affected party that a copy of the authorisation will be furnished on request; and
 - 11.4. give the reasons of the Competent Authority for the decision.

Commencement of the activity

12. The authorised activity must not commence until the period for the submission of appeals has lapsed as per the National Appeal Regulations, 2025, and no appeal has been lodged against the decision. In terms of Section 43(7), an appeal under Section 43 of the National Environmental Management Act, Act No. 107 of 1998, as amended will suspend the Environmental Authorisation or any provision or condition attached thereto. In the instance where an appeal is lodged you may not commence with the activity until such time that the appeal has been finalised.

Management of the activity

13. The final layout plan for the New System 1 Vereeniging, the Phase 2 Sludge Pipeline, and the Panfontein Sludge Pipeline attached as Appendix A in the final BAR dated January 2026 is hereby approved.
14. The Environmental Management Programme (EMPr) submitted as part of the final BAR dated January 2026 (Appendix G) is approved and must be implemented and adhered to.
15. The EMPr must be implemented and strictly enforced during all phases of the project. It shall be seen as dynamic document and shall be included in all contract documentation for all phases of the development.
16. Changes to the approved EMPr must be submitted in accordance with the EIA Regulations applicable at the time.

17. The Department reserves the right to amend the approved EMPr, should any impacts that were not anticipated or covered in the BAR be discovered.

Frequency and process of updating the EMPr

18. The EMPr must be updated where the findings of the environmental audit reports, contemplated in Condition 25 below, indicate insufficient mitigation of environmental impacts associated with the undertaking of the activity, or insufficient levels of compliance with the Environmental Authorisation or EMPr.
19. The updated EMPr must contain recommendations to rectify the shortcomings identified in the environmental audit report.
20. The updated EMPr must be submitted to the Department for approval together with the environmental audit report, as per Regulation 34 of the EIA Regulations, 2014 as amended. The updated EMPr must have been subjected to a public participation process, which process has been agreed to by the Department, prior to submission of the updated EMPr to the Department for approval.
21. In assessing whether to grant approval of an EMPr which has been updated as a result of an audit, the Department will consider the processes prescribed in Regulation 35 of the EIA Regulations, 2014 as amended. Prior to approving an amended EMPr, the Department may request such amendments to the EMPr as it deems appropriate to ensure that the EMPr sufficiently provides for avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity.
22. The holder of the authorisation must apply for an amendment of an EMPr, if such amendment is required before an audit is required. The amendment process is prescribed in Regulation 37 of the EIA Regulations, 2014, as amended. The holder of the authorisation must request comments on the proposed amendments to the impact management outcomes of the EMPr or amendments to the closure objectives of the closure plan from potentially interested and affected parties, including the competent authority, by using any of the methods provided for in the Act for a period of at least 30 days.

Monitoring

23. The holder of the authorisation must appoint an experienced Environmental Control Officer (ECO) for the construction phase of the development that will have the responsibility to ensure that the mitigation/rehabilitation measures and recommendations referred to in this Environmental Authorisation are implemented and to ensure compliance with the provisions of the approved EMPr.
 - 23.1. The ECO must be appointed before commencement of any authorised activities.

- 23.2. Once appointed, the name and contact details of the ECO must be submitted to the *Director: Compliance Monitoring* of the Department.
- 23.3. The ECO must keep record of all activities on site, problems identified, transgressions noted and a task schedule of tasks undertaken by the ECO.
- 23.4. The ECO must remain employed until all rehabilitation measures, as required for implementation due to construction damage, are completed and the site is ready for operation.

Recording and reporting to the Department

24. All documentation e.g. audit/monitoring/compliance reports and notifications, required to be submitted to the Department in terms of this Environmental Authorisation, must be submitted to the *Director: Compliance Monitoring* of the Department at Directorcompliance@dffe.gov.za.
25. The holder of the Environmental Authorisation must, for the period during which the Environmental Authorisation and EMPr remain valid, ensure that project compliance with the conditions of the Environmental Authorisation and the EMPr are audited, and that the audit reports are submitted to the *Director: Compliance Monitoring* of the Department at Directorcompliance@dffe.gov.za.
26. The frequency of auditing and of submission of the environmental audit reports must be as per the frequency indicated in the EMPr, considering the processes for such auditing as prescribed in Regulation 34 of the EIA Regulations, 2014 as amended.
27. The holder of the authorisation must, in addition, submit an environmental audit report to the Department within 30 days of completion of the construction phase (i.e., within 30 days of site handover) and a final environmental audit report within 30 days of completion of rehabilitation activities.
28. The environmental audit reports must be compiled in accordance with Appendix 7 of the EIA Regulations, 2014 as amended and must indicate the date of the audit, the name of the auditor and the outcome of the audit in terms of compliance with the Environmental Authorisation conditions as well as the requirements of the approved EMPr.
29. Records relating to monitoring and auditing must be kept on site and made available for inspection to any relevant and competent authority in respect of this development.

Notification to authorities

30. A written notification of commencement must be given to the Department no later than fourteen (14) days prior to the commencement of the activity. Commencement for the purposes of this condition includes site

preparation. The notice must include a date on which it is anticipated that the activity will commence, as well as a reference number.

Operation of the activity

31. A written notification of operation must be given to the Department no later than fourteen (14) days prior to the commencement of the activity operational phase.

Site closure and decommissioning

32. Should the activity ever cease or become redundant, the holder of the authorisation must undertake the required actions as prescribed by legislation at the time and comply with all relevant legal requirements administered by any relevant and Competent Authority at that time.

Specific conditions

33. The footprint area of the construction must be kept to a minimum. The footprint area must be clearly demarcated to avoid unnecessary disturbances to adjacent areas.
34. Permits from relevant authorities must be obtained for the removal or disturbance of any TOPs, Red Data listed or nationally protected species.
35. No exotic plants must be used for rehabilitation purposes. Only indigenous plants of the area must be used.
36. Trenching across watercourses/wetlands must be undertaken during low-flow conditions where possible.
37. Where the pipeline route intersects wetland areas, the pipeline shall, where technically and economically feasible, be constructed on stilts to minimise direct disturbance to wetland soils, hydrology, and vegetation.
38. The pipeline must be regularly inspected (quarterly) for any signs of failure, damage or leaks. Maintenance measures need to be implemented upon finding pipeline issues and failures.
39. No construction activities, stockpiling of material, vehicle movement, or storage of hazardous substances must occur within the wetland or riparian buffer areas, unless specifically authorised for pipeline crossing.
40. If any archaeological material or human burials are uncovered during the course of development, then work in the immediate area must be halted. The find would need to be reported to the heritage authorities and to a heritage practitioner so that an investigation and evaluation of the finds can be made.

41. Construction must include design measures that allow surface and subsurface movement of water along drainage lines so as not to impede natural surface and subsurface flows. Drainage measures must promote the dissipation of storm water run-off.
42. Mitigation measures detailed within the BAR dated January 2026, specialist assessments and technical studies must be implemented.
43. An integrated waste management approach must be implemented that is based on waste minimisation and must incorporate reduction, recycling, reuse, and disposal where appropriate. Any solid waste must be disposed of at a landfill licensed in terms of Section 20 (b) of the National Environment Management Waste Act, 2008 (Act No.59 of 2008).

General

44. The recommendations of the EAP in the BAR dated January 2026 and the specialist studies attached must be adhered to. In the event of any conflicting mitigation measures and conditions of the Environmental Authorisation, the specific condition of this Environmental Authorisation will take preference.
45. A copy of this Environmental Authorisation, the audit and compliance monitoring reports, and the approved EMPr, must be made available for inspection and copying-
 - 45.1. at the site of the authorised activity;
 - 45.2. to anyone on request; and
 - 45.3. where the holder of the Environmental Authorisation has a website, on such publicly accessible website.
46. National government, provincial government, local authorities or committees appointed in terms of the conditions of this authorisation or any other public authority shall not be held responsible for any damages or losses suffered by the holder of the authorisation or his/her successor in title in any instance where construction or operation subsequent to construction be temporarily or permanently stopped for reasons of non-compliance by the holder of the authorisation with the conditions of authorisation as set out in this document or any other subsequent document emanating from these conditions of authorisation.

Date of Environmental Authorisation: 07/05/2026


Dr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations
Department of Forestry, Fisheries & the Environment

Annexure 1: Reasons for Decision

1. Information considered in making the decision

In reaching its decision, the Department took, *inter alia*, the following into consideration -

- a) The listed activities as applied for in the amended application form received on 19 January 2026.
- b) The information contained in the BAR dated January 2026.
- c) The comments received from interested and affected parties as included in the BAR dated January 2026.
- d) Mitigation measures as proposed in the BAR and EMPr dated January 2026.
- e) The information contained in the Specialist Studies contained within the appendices of the BAR dated January 2026 and as appears below:

Title	Prepared by	Date issued
Social Impact Assessment Report	KMG Environmental Solutions Services (Pty) Ltd	May 2025
Agricultural Impact Assessment Compliance Statement	KMG Environmental Solutions Services (Pty) Ltd	April 2025
Freshwater Functional and Impact Assessment	The Biodiversity Company	May 2025
Phase 1 Archaeological and Heritage Impact Assessment Report	Tsimba Archaeological Footprints (Pty) Ltd	July 2025
Terrestrial Biodiversity Assessment	Eco-Sentle (Pty) Ltd	May 2025
Hydrogeological Investigation Study	Ariys Consulting (Pty) Ltd	June 2025
Palaeontological Impact Assessment	Tsimba Archaeological Footprints (Pty) Ltd	August 2025
Geotechnical Investigation for New System 1	Knight Piesold	May 2019
Geotechnical Investigation for Panfontein	Phatela Geoconsulting	July 2023
Geotechnical Investigation for Sludge Pipeline Phase 2	Lilibara Projects (Pty) Ltd	November 2016
Hydrological Assessment	Ariys Consultant (Pty) Ltd.	July 2025
Floodlines Assessment Report	Ariys Consultant	July 2025

2. Key factors considered in making the decision

All information presented to the Department was considered in the Department's consideration of the application. A summary of the issues which, in the Department's view, were of the most significance is set out below.

- a) The findings of all the specialist studies conducted and their recommended mitigation measures.
- b) The development will improve water infrastructure and enhance reliable service delivery.
- c) The BAR dated January 2026 identified all legislation and guidelines that have been considered in the preparation of the BAR.
- d) The methodology used in assessing the potential impacts identified in the BAR dated January 2026 and the specialist studies have been adequately indicated.
- e) A sufficient public participation process was undertaken, and the applicant has satisfied the minimum requirements as prescribed in the EIA Regulations, 2014 as amended for public involvement.

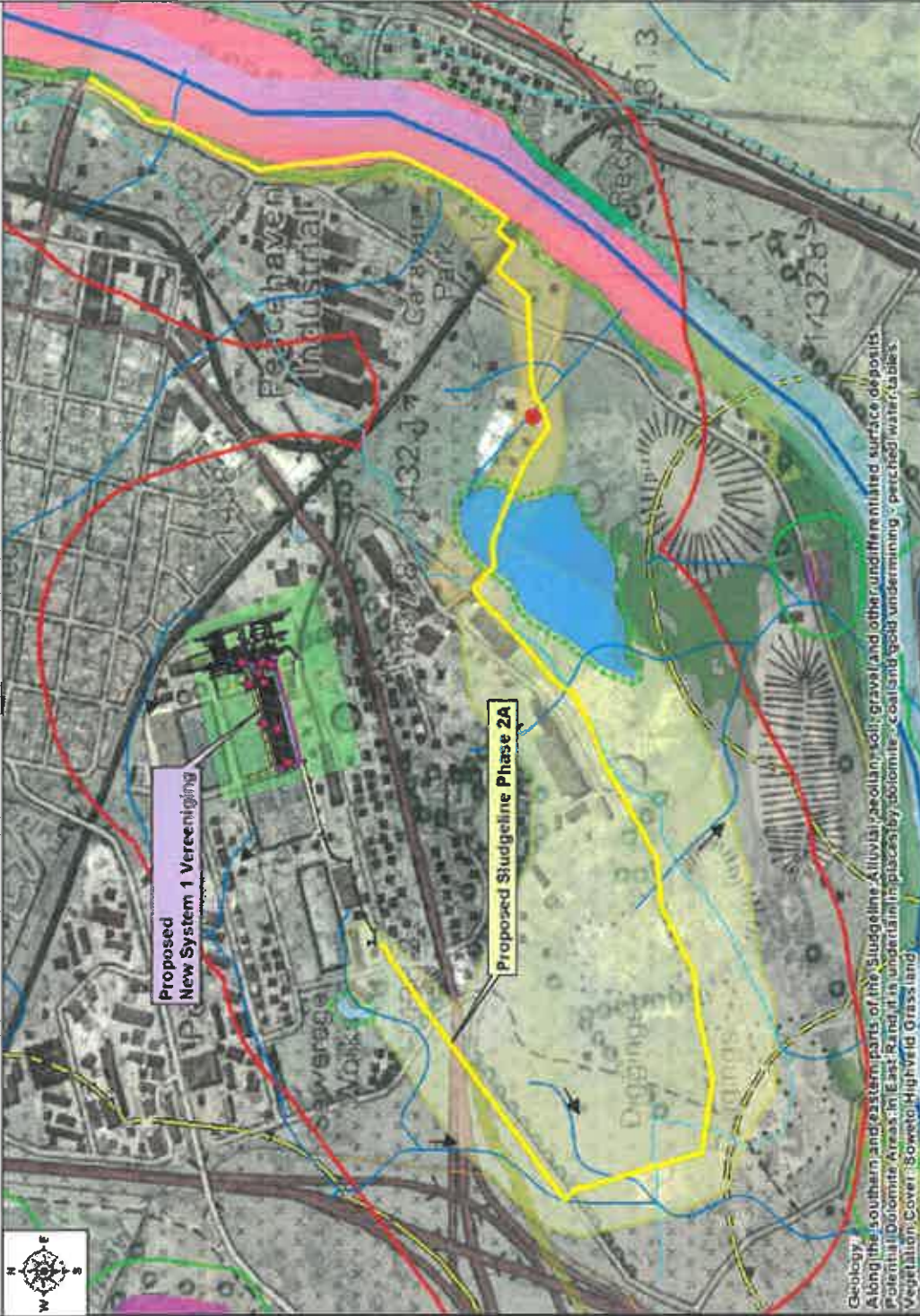
3. Findings

After consideration of the information and factors listed above, the Department made the following findings -

- a) The identification and assessment of impacts are detailed in the BAR dated January 2026 and sufficient assessment of the key identified issues and impacts have been completed.
- b) The procedure followed for impact assessment is adequate for the decision-making process.
- c) The information contained in the BAR dated January 2026 is deemed to be accurate and credible.
- d) The proposed mitigation of impacts identified and assessed adequately curtails the identified impacts.
- e) EMPr measures for the pre-construction, construction and rehabilitation phases of the development were proposed and included in the BAR and will be implemented to manage the identified environmental impacts during the construction phase.

In view of the above, the Department is satisfied that, subject to compliance with the conditions contained in the Environmental Authorisation, the authorised activities will not conflict with the general objectives of integrated environmental management laid down in Chapter 5 of the National Environmental Management Act, 1998 and that any potentially detrimental environmental impacts resulting from the authorised activities can be mitigated to acceptable levels. **The Environmental Authorisation is accordingly granted.**

**MASTER PLAN 2026 - Proposed Sludgeline Phase 2 & New System 1A Pipelines
 Rand Water - Emfuleni Local Municipality (Ward 15)**



Legend

- Proposed Access Road
- Demolition of System 1 tank (90 MLD)
- Proposed VG Infrastructure
- Proposed Online Laboratory
- Flow Direction
- Sludgeline Phase 2A - 7km Pipeline
- Floodlines
- 500m Buffer Combine
- Wetland 100m Bufferline
- Wetland 500m Bufferline
- Wetland Bufferzone 15m
- WETLAND DELINEATION
- Canal
- HGM 1 - Vaal River
- HGM 2 - Seep
- HGM 3 - Seep
- HGM 4 - Seep
- Important Biodiversity Areas
- CBA
- ESA
- NFEPA Wetlands
- Channelled valley-bottom wetland
- Depression
- Floodplain wetland
- Unchannelled valley-bottom wetland
- Valleyhead seep
- Potential Dolomite Areas



Geology
 Along the southern and eastern parts of the Sludgeline (Alluvial, aeolian, silt, gravel and other undifferentiated surface deposits)
 Potential Dolomite Areas in East Rand in uncertain places by dolomite, coal and gold underlining - perched water tables
 Vegetation Cover: 80 wetland Highveld Grassland

Legend

- Proposed New Infrastructure Development Locations
- Habitat Unit 1: New System 1 - Low Sensitivity
- Habitat Unit 2: Phase 2 Sludge Pipeline - Low Sensitivity
- Habitat Unit 3: Phase 2 Sludge Pipeline - Medium Sensitivity
- Rand Water Treatment Works
- Proposed MCL dosing line
- Proposed new raw water pipe
- Proposed poly dosing pipeline

Date: 19 January 2025

General Site Location
 26°42'43.26"S & 28° 2'16.46"E

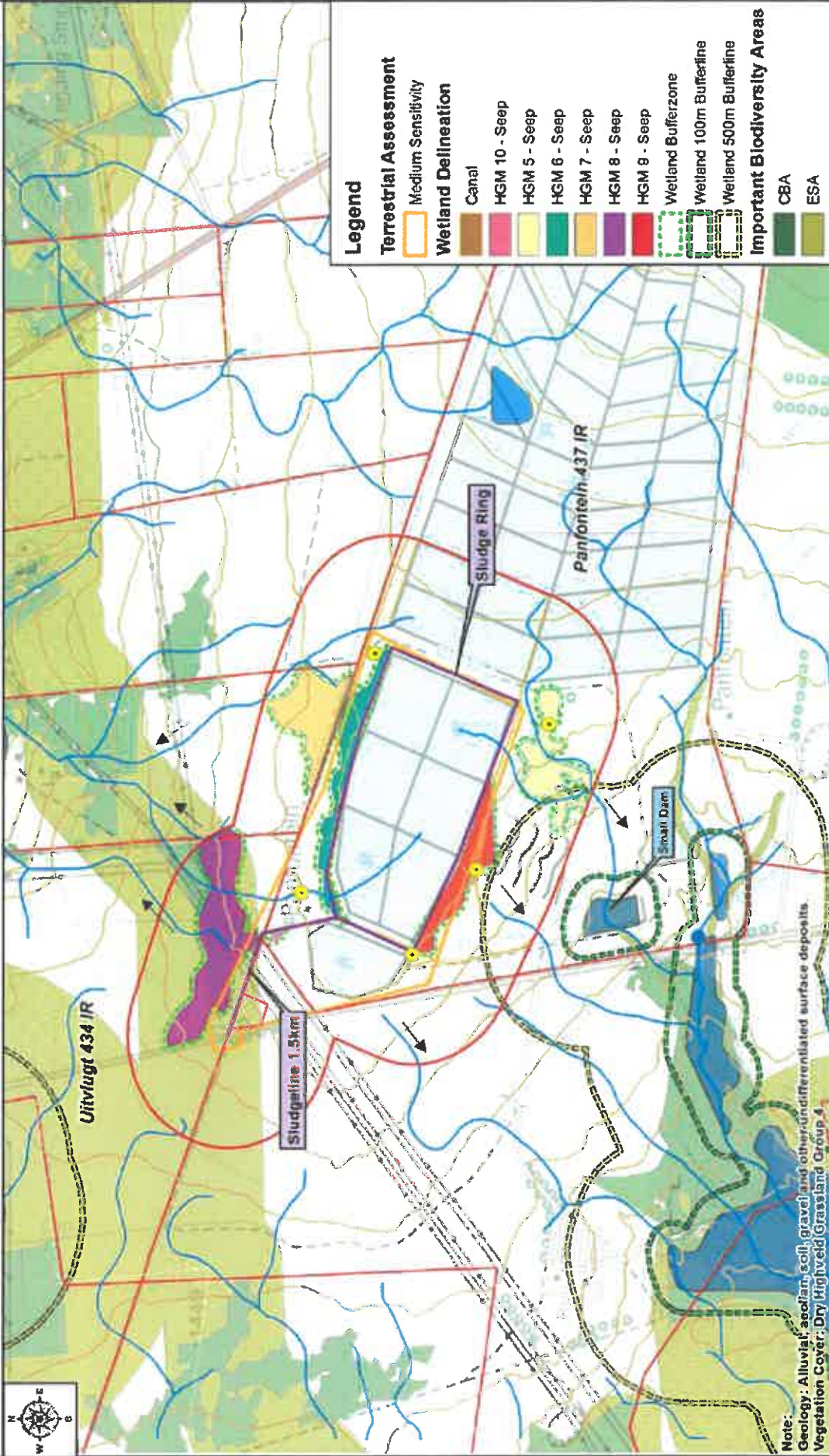


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ANDRE ZANOLI
 GIS MAPPING &
 ENVIRO-MINING
 Map Prepared by: Andre Zanoli
 Contact Number: 072 601 2432

MS

MASTER PLAN 2025 - Panfontein - Pipeline - Rand Water - Midvaal Local Municipality (Ward 1)



Legend

- Flow Direction
- Panfontein Hydrogeological Sites
- Surface Water Monitoring Point
- 500m Buffer Panfontein site
- Farm Portions
- Panfontein 1.5km Sludgeline
- 5m Contourlines
- Drainage Patterns

Legend

- Terrestrial Assessment: Medium Sensitivity
- Wetland Delineation: Canal, HGM 10 - Seep, HGM 5 - Seep, HGM 6 - Seep, HGM 7 - Seep, HGM 8 - Seep, HGM 9 - Seep
- Wetland Bufferzone: Wetland 100m Bufferline, Wetland 500m Bufferline
- Important Biodiversity Areas: CBA, ESA

ANGIE ZANOLU
 Ua
GIS MAPPING & ENVIRO-MINING

Map Prepared by: Andre Zanol
 Contact Number: 072 601 2432

SELAHLE
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 Email: shonle@ecprojects.co.za
 Website: www.ecprojects.co.za

Date: 03 September 2025

General Site Location
 26°42'43.26"S & 28° 2'16.45"E

0 300 600 1,200 Meters

M.S