

23 Augustus 2026

EarthGrace Environmental Consultancy
Worcester
6850

PER EMAIL

lindsay@earthgrace.co.za

Dear Lindsay Speirs Du Toit

**WATER USE ASSESSMENT IN SUPPORT FOR THE CLEARING OF VIRGIN SOIL
ON THE FARM 800, WORCESTER OWNED BY JRG FARMING PTY LTD**

The application for the proposed clearing of virgin soil for the cultivation of new areas, has reference.

1. Background

The application relates to the proposed clearing of 17ha virgin soil for the cultivation of new agricultural areas on Farm 800, Worcester. A comprehensive water balance assessment was undertaken to determine the crop water requirements of the property and to assess these requirements in relation to the available water resources and existing lawful water uses.

The assessment considered the following key components:

- The verification letter dated 17 February 2015, confirming the water use regarded as Existing Lawful Use (ELU);
- The crop water requirements recommended by the SAPWAT 4 programme, taking into consideration the relevant climatic conditions, crop types, soils and irrigation systems;
- The actual water use associated with the crops currently under irrigation, based on the Cape Farm Mapper Crop Census 2023 agricultural overlay; and
- The new agricultural areas proposed for future cultivation as part of the development.

This approach ensures that the existing lawful water use, current agricultural production and proposed future development are considered collectively. It provides a comprehensive assessment of the water demand associated with the farming operation and allows the proposed expansion to be evaluated against the available water allocation and resource availability.

The water balance therefore forms an important basis for determining whether sufficient water is available to support the proposed new 17ha cultivation areas without

compromising existing lawful water uses or resulting in an unreasonable increase in water demand.

2. Property Details

Farm 800, Worcester is owned by JRG Farming (Pty) Ltd. It is evident from the ownership and farming arrangements that several neighbouring properties are also owned by JRG Farming (Pty) Ltd.

The properties are managed and farmed as a single integrated farming unit, with agricultural activities and associated water use occurring across the properties comprising the farming operation. Although the water balance assessment specifically considers the water requirements and proposed development on Farm 800, Worcester, the existing agricultural activities and associated water use across the broader integrated farming unit remain relevant to the assessment. Farm 800, Worcester therefore cannot be considered entirely in isolation, as the overall farming operation and its existing water use provide important context for assessing the current and proposed water demand.

An accurate representation of the actual water demand of the farming operation ensures that the proposed development is considered in the context of the existing agricultural production and water use across the properties managed as a single farming enterprise.

As each property is required to utilise its allocated water on the property to which the allocation relates, and the water use is not ordinarily transferred between properties, the water balance assessment was undertaken specifically to determine the water demand associated with Farm 800, Worcester.

The water balance confirms that the available water allocations associated with Farm 800, Worcester are sufficient to meet the existing and proposed water requirements of the property. The assessment also identified surplus water allocations associated with some of the neighbouring properties forming part of the integrated farming unit.

These surplus allocations are retained as a contingency and drought-security measure for the farming operation. During periods of drought or other exceptional circumstances, and subject to the applicable water-use authorisations and any required approval from the Worcester East WUA, such surplus water may provide temporary security for the agricultural operation where water is required on another property within the integrated farming unit.

The availability of such surplus allocations therefore provides additional resilience to the farming operation during periods of reduced water availability, while the water balance for Farm 800, Worcester remains based solely on the water demand and allocations applicable to the property.

Table 1: Property detail that form part of study.

Property Owner	Property	District	Extent(ha)	Title Deed
JRG Farming Pty Ltd	Farm 800	Worcester	54,8512	T31580/2026



Figure 1: Location of property related to application

1. Quaternary Catchment Area

To determine the water use requirement of the new irrigation fields that will be established, the quaternary catchment area was determined as H20H.

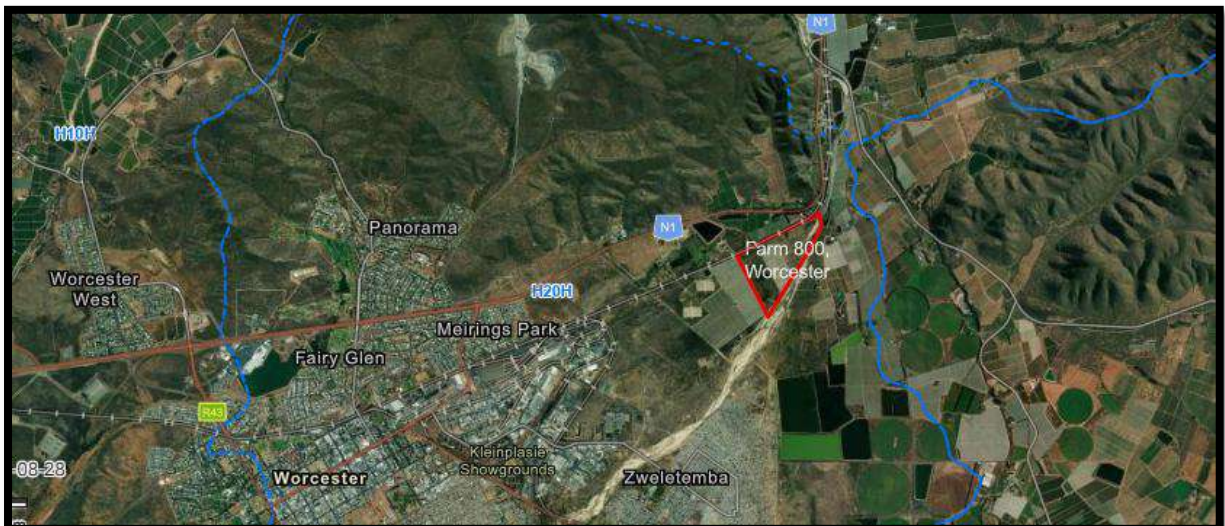


Figure 2: Quaternary catchment area

2. Crop Water Requirement

The crop water requirement for table grapes in the H20H quaternary catchment was evaluated using the SAPWAT 4 programme. SAPWAT 4 considers relevant climatic conditions, including rainfall and evaporation, together with the crop type, soil characteristics and irrigation system to determine the crop water requirement.

The SAPWAT 4 assessment indicates a crop water requirement for wine grapes in the order of 6 000–7 000 m³/ha/a. However, based on the actual water use observed for the existing table grape production on the property, the crop water requirement determined for table grapes in the H10H quaternary catchment is considered more representative and realistic for the proposed development.

The existing table grapes are cultivated under protective shade/net structures, which provide a more favourable microclimate than fully exposed vineyards. The netting reduces direct solar radiation and wind exposure, thereby reducing evaporative losses and atmospheric water demand. This assists in retaining soil moisture for longer periods and can reduce the irrigation requirement of the crop.

Based on the assessment and the actual irrigation practices on the property, a crop water requirement of 4 230 m³/ha/a has been adopted for purposes of the water balance. It is recognised that the actual water requirement may be lower, potentially in the order of 3 500 m³/ha/a, depending on seasonal climatic conditions, crop development, cultivar, soil moisture availability and irrigation management. The adopted value of 4 230 m³/ha/a is therefore considered a conservative value for the assessment and provides an appropriate allowance for variability in annual water demand.

Several site-specific factors further support the adoption of a relatively low crop water requirement.

i. Cultivars

The specific wine grape cultivars proposed for cultivation have moderate water requirements and are suited to the prevailing climatic and growing conditions of the area. Appropriate cultivar selection can contribute to improved water-use efficiency and enables the vineyard to be managed within a lower irrigation requirement than may be indicated by generic crop coefficients.

ii. Protective Netting

The proposed cultivation of wine grapes under protective netting will further reduce crop water demand. The netting moderates the vineyard microclimate by reducing solar radiation and wind exposure, which in turn can reduce evapotranspiration. It also provides protection against hail, excessive solar radiation, wind damage and extreme weather conditions, thereby improving crop resilience and reducing the risk of crop losses. The moderated conditions can assist in maintaining soil moisture and reducing plant water stress during periods of high temperature and atmospheric water demand.

iii. Soil characteristics

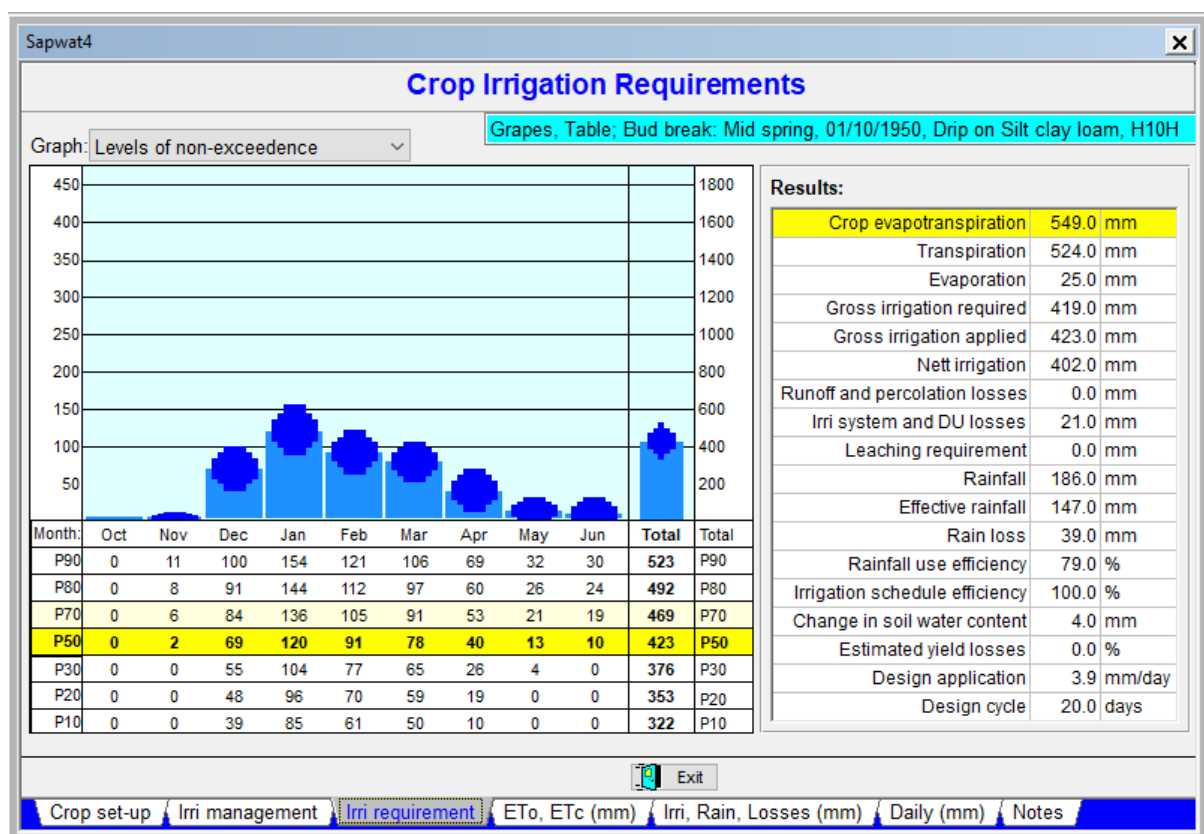
The soil characteristics of the property also support the adopted water requirement. The soils have a relatively good moisture-retention capacity, allowing water to remain available within the effective root zone for longer periods. This reduces the need for frequent irrigation and improves the efficiency with which applied water is utilised by the vines.

iv. Irrigation method

Furthermore, the proposed use of drip irrigation ensures that irrigation water is delivered directly and efficiently to the root zone of the vines. This minimises losses through evaporation, runoff and application outside the effective root zone and allows irrigation applications to be closely managed according to the actual crop demand and soil moisture conditions.

The combined effect of the water-efficient cultivar selection, protective netting, moisture-retentive soils and efficient drip irrigation system supports the adoption of 4 230 m³/ha/a as a realistic and conservative site-specific crop water requirement. The potential for actual water use to be closer to 3 500 m³/ha/a further demonstrates the water-use efficiency of the proposed production system.

The adopted requirement therefore reflects the specific production conditions and proposed management practices of the property and avoids relying solely on the higher generic SAPWAT 4 values, which do not fully account for the combined water-saving benefits of the selected cultivars, protective netting, soil characteristics and efficient irrigation system.



3. WATER DEMAND

The current and proposed irrigation areas developed, or intended to be developed, on Farm 800, Worcester were verified to establish the extent of existing agricultural development and the additional areas proposed for future cultivation. This verification forms part of the water balance assessment and provides the basis for determining the water demand associated with both the existing and proposed irrigation areas.

Table 2: Current and proposed development on Farm 800, Worcester

Property	Crop type	Irrigated Area (ha)	Quota (m ³ /ha/a)	Total water use (m ³ /ha/a)	Status
Farm 800, Worcester	Table grapes	15,0	3 500	52 500	Existing
	Table grapes(Shaded)	10,0	3 500	35 000	Existing
	Table grapes(Shaded)	17,0	3 500	59 500	New
Total		42,0		147 000	



Figure 3: Existing and proposed irrigation areas on Farm 800, Worcester

4. WATER SUPPLY

The water availability assessment considered all relevant water sources and allocations associated with the farming operation, including the enlistment allocations and groundwater abstracted from a spring.

All existing water uses were subjected to a Verification and Validation (V&V) process to establish the extent and legitimacy of the existing water use. Following completion of the V&V process, Section 35(4) Confirmation Letters were issued on 17 February 2015 in respect of all verified enlistment allocations.

The confirmed existing lawful water uses and the groundwater contribution from the spring were incorporated into the water availability assessment to establish the total

water resources available to support the existing and proposed irrigation requirements on Farm 800, Worcester.

Table 3: Enlistment allocations confirmed as ELU-Worcester East WUA

Property	Worcester East WUA(Additional from Breede River)(m ³ /a)	Worcester East WUA (Hex River)(m ³ /a)	Worcester East WUA (Sanddrift)(m ³ /a)	Total water supply (m ³ /ha/a)
Farm 800, Worcester	37 250	23 914	6 780	67 944
Total	37 250	23 914	6 780	67 944

Table 4: Other water uses confirmed as ELU

Property	Water source	Total water supply(m ³ /a)
Farm 800, Worcester	Groundwater taking from spring	71 237
Total		71 37

The total combined water use comprising the enlistment allocations and the groundwater abstraction from the spring was confirmed at 139 181 m³/a. This represents the total verified water availability considered in the water balance assessment for Farm 800, Worcester.

5. WATER BALANCE

Table 5: Water balance to show demand versus supply

Property owner	Property	Property size (ha)	Total combined water demand (m ³ /a)	Total combined water supply (m ³ /a)	Surplus/Deficit (m ³ /a)
JRG Farming (Pty) Ltd	Farm 800, Worcester	54,8512	147 000	139 181	-7 819
Total			147 000	139 181	

6. Additional notes applicable to this water balance

6.1 Storage of water

No formal water storage facility is currently available on Farm 800, Worcester. The absence of on-site storage means that irrigation water is largely dependent on the availability of the verified water allocations and groundwater abstraction at the time of use.

Should water storage infrastructure be considered or developed in future, it would provide an important buffer against periods of water restrictions, reduced abstraction availability and drought conditions. Storage would allow water to be accumulated during periods when water is available and subsequently utilised during periods of reduced availability, thereby improving the assurance and reliability of water supply to the existing and proposed irrigation areas.

The incorporation of storage capacity would therefore strengthen the resilience of the farming operation and provide greater flexibility in managing seasonal fluctuations in water availability without necessarily requiring an increase in the authorised annual water allocation.

6.2 Crop/Water Requirement

The SAPWAT 4 calculations applied as part of the water balance assessment provide an estimate of the crop water requirements for table grapes based on the prevailing climatic conditions, soil characteristics and crop growth stages. The calculated values provide a useful basis for determining the potential irrigation demand under representative climatic conditions and for assessing the adequacy of the available water allocation.

However, the SAPWAT 4 values represent an estimated crop requirement and actual irrigation water use may vary depending on seasonal rainfall, temperature, evaporative demand, soil moisture-retention characteristics, crop development, cultivar selection and irrigation scheduling practices. Consequently, the calculated crop water requirement should be regarded as a planning and assessment value rather than an indication that the full calculated volume will necessarily be abstracted or applied during every irrigation season.

The actual water requirement can be reduced through the implementation of efficient irrigation and water-management practices. The use of low-flow drip irrigation allows water to be applied directly to the effective root zone of the vines, thereby reducing losses through evaporation, surface runoff and application outside the root zone. Where appropriate, micro-sprinkler systems can similarly be managed to improve application efficiency.

Further improvements in water-use efficiency can be achieved through soil-moisture monitoring, precision irrigation scheduling and appropriate mulching practices. Soil-moisture monitoring allows irrigation to be scheduled according to the actual moisture status of the root zone rather than applying water according to a fixed schedule. Mulching can reduce evaporation from the soil surface and assist in maintaining moisture within the root zone.

In addition, the proposed cultivation of table grapes under protective netting can moderate the vineyard microclimate by reducing direct solar radiation and wind exposure, thereby reducing evaporative demand and plant water stress. The selection of suitable, relatively water-efficient table grape cultivars, together with the moisture-retention characteristics of the soils on the property, further supports the efficient use of irrigation water.

Accordingly, the crop water requirement adopted for the water balance should reflect the site-specific production conditions and actual irrigation practices rather than relying solely on generic crop water requirement values. The adopted requirement of 4 230 m³/ha/a is considered a conservative and reasonable planning value, while actual water use may be lower, potentially in the order of 3 500 m³/ha/a, depending on climatic conditions and the efficiency of irrigation management.

The combination of efficient irrigation, soil-moisture management, protective netting, appropriate cultivar selection and favourable soil characteristics will ensure that water is used efficiently and that irrigation is applied only when required to maintain adequate crop production. This approach supports the sustainable use of the available water allocation while minimising unnecessary water losses.

6.3 Methods to address shortfall

It is evident from the water balance assessment that the identified shortfall of only **7 819 m³/a** can be effectively addressed through the implementation of water-efficient irrigation and agricultural management measures.

a. Efficient irrigation and water-use management

Efficient irrigation methods can significantly reduce the actual crop water requirement below the generic crop water requirement estimated by the SAPWAT 4 programme. These methods optimise water application, minimise avoidable losses and improve overall irrigation efficiency.

The use of drip irrigation and, where appropriate, micro-sprinkler systems allows water to be applied directly and efficiently to the crop root zone, thereby reducing losses through evaporation, surface runoff and deep percolation. The existing and proposed use of efficient irrigation systems therefore provides an opportunity to reduce actual water consumption while maintaining appropriate crop production.

Further optimisation can be achieved through the use of soil-moisture monitoring equipment, automated irrigation scheduling and climate-based irrigation control. These measures allow irrigation to be applied according to actual soil moisture conditions, crop requirements and prevailing climatic conditions rather than relying solely on fixed irrigation schedules.

Additional water conservation measures, including mulching, suitable cover crops, regular maintenance of irrigation infrastructure and the prompt repair of leaks, can further improve water-use efficiency by conserving soil moisture and reducing unnecessary water losses.

The cultivation of table grapes under protective netting, together with the selection of relatively water-efficient cultivars and the moisture-retention characteristics of the soils on the property, provides additional opportunities to reduce the actual irrigation requirement.

Considering the relatively small shortfall of 7 819 m³/a, these combined measures are considered sufficient to optimise water use and potentially reduce the actual annual irrigation demand to within the available water allocation. The water balance should therefore not be interpreted as indicating that an additional 7 819 m³/a of water will necessarily be required, as improved irrigation efficiency and site-specific management can reduce the actual water demand below the theoretical SAPWAT 4 requirement.

The proposed approach promotes the efficient, sustainable and responsible use of the available water resources, while maintaining suitable conditions for the continued development and productivity of the agricultural operation.

b. Temporary transfer of surplus water from neighbouring properties

The applicant owns a number of neighbouring properties that are managed and operated as a single integrated farming unit. The water balance assessment identified that certain of these properties have surplus water allocations that are not fully utilised under normal operating conditions.

During periods when the water demand on Farm 800, Worcester exceeds the available allocation, particularly during drought conditions or periods of increased irrigation demand, the applicant may seek to temporarily utilise a portion of the surplus water associated with the neighbouring properties to supplement the water supply on Farm 800, Worcester.

Any such temporary transfer or use of water between properties would be undertaken only where legally permissible and subject to the applicable authorisations, conditions and approval of the relevant water management authority such as the Worcester East WUA. The arrangement would not constitute a permanent reallocation of the water entitlement and would not affect the lawful water entitlement associated with the property from which the surplus water is made available.

This provides an additional level of water-security and drought resilience for Farm 800, Worcester, while ensuring that the overall water use of the integrated farming operation remains within the combined verified water availability.

All water use associated with the enlistment allocations is controlled and managed by the Worcester East WUA. The allocations are subject to the applicable management rules and conditions of the WUA and may not be exceeded without prior approval from the relevant authority and/or the WUA, as applicable.

The applicant will therefore ensure that the authorised allocation is not exceeded under normal operating conditions. Any temporary utilisation of surplus water from neighbouring properties will only be undertaken where such use is permissible and has received the necessary prior approval.

c. Monitoring of water use

The control and management of the allocations by the Worcester East WUA provides an additional mechanism to ensure that water use remains within the authorised limits and that the proposed irrigation activities are managed in accordance with the applicable water-use requirements.

The groundwater abstracted from the spring is measured and monitored to ensure that the volume of water abstracted remains within the verified and authorised allocation. Regular measurement of the abstraction provides an accurate record of actual water use and enables the applicant to monitor consumption against the available water allocation.

The measured abstraction from the spring is incorporated into the overall water balance and, together with the enlistment allocations managed by the Worcester East WUA, provides a reliable basis for monitoring the total water use associated with Farm 800, Worcester.

7. Way forward

Should any additional information or clarification regarding the water balance assessment be required, please do not hesitate to contact me. I will gladly provide further details or supporting documentation to ensure a clear understanding of the calculations, assumptions, and conclusions presented in this report.

Yours faithfully

A handwritten signature in black ink, appearing to be 'HD. Lyons', with a stylized flourish at the end.

HD. Lyons
HDL Consulting

BREED-OURITZ

Catchment Management Agency
Opvanggebied Bestuursagentskap
I-Arhente yoLawulo lomMandla nokungqongileyo
51 Baring Street Worcester 6850, Private Bag X3055 Worcester 6850

Jan van Staden

023-3468000

4/4/3/825-C08500000000031900086-0

REGISTERED MAIL

Mnr NJD van Schalkwyk
Posbus 125
Worcester
6849

Dear Mnr NJD van Schalkwyk

APPLICATION FOR THE VERIFICATION OF EXISTING LAWFUL WATER USE IN TERMS OF THE NATIONAL WATER ACT, 1998 (ACT 36 OF 1998): CONFIRMATION OF EXISTING LAWFUL WATER USE IN TERMS OF SECTION 35(4)

PROPERTY DESCRIPTION: C08500000000031900086, 86/319, 0.35 ha

You are hereby informed that the lawfulness and extent of your water use on the above mentioned property has been determined by the responsible authority, as delegated by the Minister of Water and Sanitation, in terms of Section 35(4) as follows:

Section of NWA	Type of Water Use	Existing Lawful Water Use		
		Volume (m ³ /annum)*	Source	Irrigation Board or Water User Association Scheme
21(a)	Taking of water for irrigation purposes	3129	WUA/IB Scheme	Worcester East WUA (Additional)
21(a)	Taking of water for irrigation purposes	126650	WUA/IB Scheme	Worcester East WUA (Hexrivier)
21(a)	Taking of water for irrigation purposes	670	WUA/IB Scheme	Worcester East WUA (Sanddrift)
21(a)	Taking of water for irrigation purposes	2077	Groundwater	

* In the case of **Storage**, the Existing Lawful Water Use is in m³

In terms of Section 35(4) of the Act this determination is also the extent of the existing lawful water use as contemplated in Section 32(1) for this property, which may be continued with under Section 34(1) subject to any existing conditions or obligations related to the water use.

No water use in excess of the lawful water use as set out herein may be used on this property without authorisation by the responsible authority.

In terms of Section 148(1) (e) of the Act you may appeal against any decision on the verification of these water use(s) to the Water tribunal within 30 (thirty) days from the date of this letter. The Registrar of the Water Tribunal is Mr Robert Mabe and his contact details are:

Postal Address

The Registrar
Water Tribunal
Private Bag X316
PRETORIA, 0001

Physical Address

Room 322
Waterbron Building
191 Francis Baard Street
PRETORIA, 0002

Contact

Tel: 012 336 7034
Cell: 082 611 1691
Email: MabeR@dwa.gov.za

A copy of the appeal must be submitted to this office.

Your water use registration will be amended to reflect the above details. A new registration certificate will then be issued to you. If an appeal is lodged, your registration certificate may be amended again depending on the outcome of the appeal.

Yours faithfully

A handwritten signature in blue ink, appearing to read 'Phakamani Buthelezi', is written over a faint, larger version of the same signature.

PHAKAMANI BUTHELEZI
CHIEF EXECUTIVE OFFICER

Date: 17 February 2015

BREED-OURITZ

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51 Baring Street Worcester 6850, Private Bag X3055 Worcester 6850

Jan van Staden

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4/4/3/816-C08500000000031900031-0

REGISTERED MAIL

Mnr NJD van Schalkwyk
Posbus 125
Worcester
6849

Dear Mnr NJD van Schalkwyk

APPLICATION FOR THE VERIFICATION OF EXISTING LAWFUL WATER USE IN TERMS OF THE NATIONAL WATER ACT, 1998 (ACT 36 OF 1998): CONFIRMATION OF EXISTING LAWFUL WATER USE IN TERMS OF SECTION 35(4)

PROPERTY DESCRIPTION: C08500000000031900031, 31/319, 3.73 ha

You are hereby informed that the lawfulness and extent of your water use on the above mentioned property has been determined by the responsible authority, as delegated by the Minister of Water and Sanitation, in terms of Section 35(4) as follows:

Section of NWA	Type of Water Use	Existing Lawful Water Use		
		Volume (m ³ /annum)*	Source	Irrigation Board or Water User Association Scheme
21(a)	Taking of water for irrigation purposes	11175	WUA/IB Scheme	Worcester East WUA (Additional)
21(a)	Taking of water for irrigation purposes	6556	WUA/IB Scheme	Worcester East WUA (Hexrivier)
21(a)	Taking of water for irrigation purposes	2235	WUA/IB Scheme	Worcester East WUA (Sanddrift)
21(a)	Taking of water for irrigation purposes	6596	Groundwater	

* In the case of **Storage**, the Existing Lawful Water Use is in m³

In terms of Section 35(4) of the Act this determination is also the extent of the existing lawful water use as contemplated in Section 32(1) for this property, which may be continued with under Section 34(1) subject to any existing conditions or obligations related to the water use.

No water use in excess of the lawful water use as set out herein may be used on this property without authorisation by the responsible authority.

In terms of Section 148(1) (e) of the Act you may appeal against any decision on the verification of these water use(s) to the Water tribunal within 30 (thirty) days from the date of this letter. The Registrar of the Water Tribunal is Mr Robert Mabe and his contact details are:

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Posbus 125
Worcester
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PROPERTY DESCRIPTION: C08500000000031900087, 87/319, 0.54 ha

You are hereby informed that the lawfulness and extent of your water use on the above mentioned property has been determined by the responsible authority, as delegated by the Minister of Water and Sanitation, in terms of Section 35(4) as follows:

Section of NWA	Type of Water Use	Existing Lawful Water Use		
		Volume (m ³ /annum)*	Source	Irrigation Board or Water User Association Scheme
21(a)	Taking of water for irrigation purposes	1341	WUA/IB Scheme	Worcester East WUA (Additional)
21(a)	Taking of water for irrigation purposes	4768	WUA/IB Scheme	Worcester East WUA (Hexrivier)
21(a)	Taking of water for irrigation purposes	224	WUA/IB Scheme	Worcester East WUA (Sanddrift)

* In the case of **Storage**, the Existing Lawful Water Use is in m³

In terms of Section 35(4) of the Act this determination is also the extent of the existing lawful water use as contemplated in Section 32(1) for this property, which may be continued with under Section 34(1) subject to any existing conditions or obligations related to the water use.

No water use in excess of the lawful water use as set out herein may be used on this property without authorisation by the responsible authority.

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PROPERTY DESCRIPTION: C0850000000080000000, 800, 54.81 ha

You are hereby informed that the lawfulness and extent of your water use on the above mentioned property has been determined by the responsible authority, as delegated by the Minister of Water and Sanitation, in terms of Section 35(4) as follows:

Section of NWA	Type of Water Use	Existing Lawful Water Use		
		Volume (m ³ /annum)*	Source	Irrigation Board or Water User Association Scheme
21(a)	Taking of water for irrigation purposes	37250	WUA/IB Scheme	Worcester East WUA (Additional)
21(a)	Taking of water for irrigation purposes	23914	WUA/IB Scheme	Worcester East WUA (Hexrivier)
21(a)	Taking of water for irrigation purposes	6780	WUA/IB Scheme	Worcester East WUA (Sanddrift)
21(a)	Taking of water for irrigation purposes	71237	Groundwater	

* In the case of **Storage**, the Existing Lawful Water Use is in m³

In terms of Section 35(4) of the Act this determination is also the extent of the existing lawful water use as contemplated in Section 32(1) for this property, which may be continued with under Section 34(1) subject to any existing conditions or obligations related to the water use.

No water use in excess of the lawful water use as set out herein may be used on this property without authorisation by the responsible authority.

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Date: 17 February 2015

**WORCESTER-OOS
WATERGEBRUIKERS
VERENIGING**

**POSBUS 603
WORCESTER
6849**

**TEL. 023-342 7775
FAKS. 023-342 7776**

6 April 2022

AAN WIE DIT MAG AANGAAN

Hierdie is om te sertifiseer dat NJ Van Schalkwyk die volgende eiendomme en waterregte onder bogenoemde watergebruikersvereniging besit.

BESKRYWING VAN GROND	GROOTTE VAN GROND			HEKTARE INGELYS @ 7450 M ³ / HA PER JAAR									
				BREËRIVIER	HEXRIVIER	NUY	OVERHEX	NONNA	TOTAAL	GROND	WINTERWATER		
				ADDISION.	SANDDRIFT	SUBGEBIED				M ³	M ³		
Ged 31 Tweefonteinen 319	5.079		28549	1.50	0.30	0.88				6596	11178		
Plaas 800	54.852		2037/2004	5.00	0.91	3.21				71237	38010		
Rest. Ged. 11 Tweefonteinen 319	4.437		28549	1.10	0.21	0.17					6168		
Ged. 86 Twee Fonteinen 319	0.350		28549	0.42	0.09	0.17				2077	2832		
Ged. 87 Twee Fonteinen 319	0.536		28549	0.18	0.03	0.64					3540		
0	0		0	0.00	0.00	0.00							
				8.20	1.54	5.07				79910	61728		
	65.253			61090.00	11473	37772.00				190245m3			
										Totaal	251973m		

M.I. Meyer

SEKRETARESSE