

**Magalies Park Resort Managers (Pty) Ltd**

Reg. No.: 1992/004604/07

Managers of:

**Magalies Park Timesharing Shareblock Ltd**

Reg. No. 1986/003410/06

**Magalies Park Two Shareblock Ltd**

Reg. No. 1973/009211/06

## **MAGALIES PARK GOING GREEN**

### **1. BEST WATER MANAGEMENT PROGRAM:**

**\*Drinking Water:** Being on the Magalies River, we make use of 3 boreholes to supply Magalies with drinking water. After extraction all borehole water are treated in our on-site water plant:

- Filter the borehole water
- Oxygenated as well as with ozone
- Store in holding tanks
- Supply pressured water to the entire resort's water system - Push
- Water as above that's left over, flow into 2 large reservoirs – High up
- Once the water reach an 80% storage capacity, the supply will stop and pressure will be gained by gravity feed back into the resort system - Pull

We installed water restrictors into the entire resort which reduces the water consumption with about 30% and as we refurbish we do install all plumbing accessories with Hansgro products which is water saving devices. Possible leakage detection is ongoing and if found, repaired ASAP. Any dripping taps or valves not sealing properly is repaired ASAP

\*Average water use for:

- 2015: 1,4 million litres pa
- 2016: 1,3 million litres pa
- 2017: 1,15 million litres pa

**\*Sewer System:** More than 50% of Magalies still has septic tanks and had to be aggressively managed to prevent overflows and spillage as the systems were saturated throughout the past years. A sewer system (7 km sewer pipes) were introduced and another 2 sewer plants were constructed to handle the entire resort's waste water. All 3 sewer plants is managed to create clean acceptable "grey" water which is pumped into a holding dam from where the entire resort and 18 hole golf course is irrigated from. We have a computerised irrigation system for the golf course and timed irrigation will normally start at 17h00 the evening to 05h00 the morning. The day time irrigation is given to the gardens whereby about 80% of the entire resort is irrigated through a network of irrigation systems, pipes and valves which is manually controlled by all garden staff. Magalies is not connected to any municipal waste water system and the condition of a Green resort throughout the year is proof thereof.

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## **2. ENVIRONMENTAL INITIATIVES:**

\*Going Green & Recycling is buzzwords with endless ideas and perceptions and easy talking points but actually it is such an important environmental issue and yet, not much is done about this issue. If you ask people what they think about recycling, they would say “it’s good for the environment” and necessary and if asked what is their contribution, they back track or shy away. Even though there are so many things said about going green or recycling, not much is done. Recycling can help the environment and if each of us just make a small contribution, or even just sensitize people about it, it can and will make a huge difference in the world. This cannot be an overnight solution but a continuous and long term strategy.

\*If Magalies Park can reach people and just sensitize them to make an environmental difference and show easy basic examples of going green, recycling projects, social involvement (Upliftment) projects which eventually have an economic impact, and we are naïve if we think we cannot impact on this issue as the amount of guests passing through (+/- 1160 occupancy per day) and 200 staff on the resort.

\*Magalies Park made a conscious effort to start with a few initiatives to make a direct impact on our environment, monetary savings, and sensitize guests by showing them how easy it is to contribute towards environmental issues.

\***RECYCLING PROJECT:** Magalies Park has its own recycling plant to encourage the basic separation of waste (Wet & Dry) with these unique waste bins all over the resort. At the plant another separation takes place w.r.t. plastics; glass; paper and the wet waste is collected by a local pig farmer. This simple effort itself prompt allot of reaction because we use a basic simple method of separation and through this venture we encourage people to participate or start their own recycling efforts. We do get a kickback of +/-R3000.00 for the recycled waste per month.

\***SEWER WATER MANAGEMENT:** Magalies Park has 3 large sewer plants and on a weekly basis flood the system with bio-degradable bacteria to deal with the solids and the sewer water then is treated with ozone, oxygenated and pumped into a large irrigation holding dam where this water is mixed with water pumped from the Hartbeespoort dam and then used to fill 9 dams on the resort which is exclusively used for irrigation of the gardens & golf course on a 60h property.

\***WORM FARM:** Magalies Park established a worm farm at our nursery and these worms flourish from the restaurant waste, fed to the worms as well as organic material gathered from the resort like fine grass cuttings of the greens. The worm “juice” is used as organic fertilizer on the entire resort and results speaks for itself.

\***WILD LIFE MANAGEMENT (GAME; BIRDS; FISH; BEES-BATS & OWLS):**

**FISH:** We have a fish program where we distribute & place fish like the tilapia, vlei kurper, blue kurper & canary kurper into all the dams to assist with keeping the dams in a healthy sustainable state. We also introduced sterilised grass carp in our main irrigation dam to assist with the removal

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of duck weed and algae from the dam. We are lucky to be advised from a retired professor from our neighbouring estate in this regard.

**\*BIRDS:** We have an updated list of all the birds found on the resort and with the latest update, we have over 200 confirmed species sighted at Magalies Park. For the bird watchers, we have a bird hide on the resort close to the river/dam.

**GAME:** We have a healthy population of game and boost with 5 x Blou wilde beest; 7 x Blesbok & 6 x Nyalas; 3 x Impala; 8 Springbok and a large number of Bushbuck which on the last count was about 45.

**\*BATS-BEES & OWLS:** We established a Bat Hotel to lure bats out the chalets with great success. A local Bee keeper established 10 bee hives in a secluded area luring the bees away from the restaurant area, helping with pollination and we already harvested the 1<sup>st</sup> honey from these hives. We established an Owl house where a resident owl already took refuge which will help with containing the rodents on the resort

**\*WATER PLANT:** Magalies Park use boreholes to pump water from, which is then treated at our water plant and provides drinking water for the entire resort.

**\*NURSERY:** Magalies Park established a nursery where seeds are harvested from the resort and after it is established, plant it back into the resort. We do with trees, shrubs & smaller plant species and try to establish indigenise plants from the area back into the system. All cuttings from the resort is gathered at the nursery and used to create a compost heap which is worked back into the gardens. We also remove Hyacinths from our water front and are used as organic compost.

**\*TREE MANAGEMENT & FIRE WOOD:**

We lessen our water consumption by planting grasses that use less water to survive and water only twice weekly with longer irrigating periods to penetrate deeper into the soil. We ensure that the areas outside the fairways are left as natural as possible for these non-irrigated areas can survive on rain fall only. We have marsh land areas where the birds and wild life can breed & survive naturally and for this reason Magalies Park had been declared a bird sanctuary. We have a program in place whereby we remove the alien trees listed on the invasive alien plant list.

**\*FIREWOOD:** All dead trees and alien species removed, are used and chopped up for firewood and then made available to guests during the winter months as complimentary firewood. We do chip the rest of the smaller branches to be placed in all the beddings to contain moist and water for longer periods.

**SEE BELOW PICTURES OF ALL TYE ABOVE**

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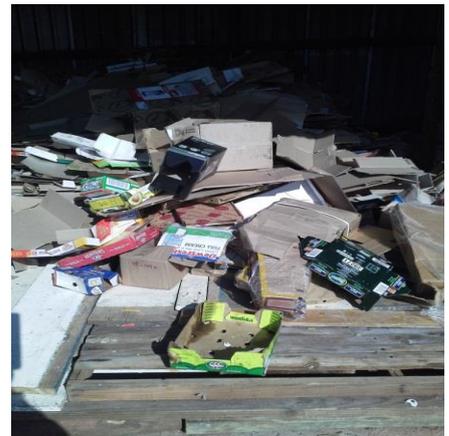
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**Glass Separation**



**Magalies Recycling Bins**



**Paper Separation.**



**Bee Hives**



**Owl House**



**Bat Hotel**



**Fish Management**



**Snake Shows**



**Game Management**



**Water Plant**



**Worm Farm**



**Nursery**



**Tree Identification**