

WRC Project K5/2413: Development and management of a Water Sensitive Design Community of Practice programme



Group Five Head Office Waterfall Business Estate, JHB 2014

The Group Five (G5) head office is a five star Green Star SA (GSSA) rated development situated in the north of the City of Johannesburg.

It consists of a single building housing departmental offices, a gym, a crèche and an underground parking structure; a 15,920m² outside parking area; and an extensive 18,070m² of indigenous landscaped area surrounding the building, complete with pathways and seating areas.



Developers

Atterbury Property
Developments (APD)

Consultants

WSP (ESD); L&S Consulting
(Civils); CKR Consulting
Engineers (Wet Services)

Operators

Group Five (Internal);
Landscape Life
(Contracted)



Group Five Head Office

Water Sensitive Practices

Sustainable Urban Drainage Systems

Retention Ponds: Stormwater and rainwater drained from rooftops and impermeable areas passes through litter traps and treatments and enters retention ponds. Water is detained or discharged into the Jukskei River.

Green Roof: For recreational purposes, planted with water-wise, indigenous plants.

Alternative Water Supply Practices

Rainwater Harvesting: Water from roofs is filtrated, treated with UV light and stored. It is used for toilet flushing and irrigation.

Stormwater Harvesting: Treated stormwater within the sump is pumped to two 15k/ tanks, filtrated and distributed to the irrigation network.

Water Conservation & Demand Management Practices

Low Flow Indoor Fittings: These include dual flush toilets, aerated bathroom and kitchen taps and low flow shower heads.

Drip Irrigation: Used for all irrigation requirements.

Xeriscaping: This includes 18,150m² of water-sensitive gardens planted with a variety of indigenous species.

