

**WBHO**

**ROADS & EARTHWORKS  
COMPANY PROFILE**



# INTRODUCTION

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**RELIABILITY IS AT THE CORE OF OUR BRAND IDENTITY AND FORMS AN INTEGRAL PART OF OUR DAY TO DAY ACTIVITIES**

## **OUR VISION**

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To be the leading construction company wherever we operate, consistently delivering quality solutions and a pleasure to do business with.

## **CLIENT**

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Our approach to our clients and the relationships we build are at the very heart of our success.

We understand that the business process begins and ends with their needs and expectations. We further understand that the projects that our clients bring to the market provide employment for our people and enable us to deliver value to our stakeholders. These are the primary relationships from which we procure our existing work as well as our future work and for this reason we strive to exceed expectations on every project we construct.

## **FLEXIBILITY**

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Flexibility assumes a number of guises within the organisation. We are flexible in our strategic thinking, open to change and innovation, which may challenge an existing course of action. We are flexible with our clients when it comes to their requirements and we have the flexibility to direct our internal resources towards those activities where they will have the greatest effect. Together they create an organisation that, while significant in size, is adaptive to its environment.

## **PEOPLE**

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The success of any organisation can be attributed to its people. Within WBHO, across all the countries in which we operate, are teams of committed and motivated people who strive to make a difference within their individual areas of influence. The executive management is highly accessible to both our staff and clients and this sets a culture within the organisation, which is adopted and followed.

# WHAT WE DO

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## BUILDING AND CIVIL ENGINEERING

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WBHO's building division is recognised as a leader in the South African building industry. Having established a reputation for quality, reliability and delivering against budget the division regularly exceeds client expectations. The division is able to negotiate a number of projects every year as a result. The Civil engineering division adds diversity to the division's margin streams and strengthens the overall earnings.

## ROADS AND EARTHWORKS

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The roads and earthworks division, which operates across multiple traditional civil engineering disciplines, has through strategic acquisitions gained exposure to a number of additional specialist disciplines. The division has a particular strength when operating in Africa and has developed a successful formula for trading in the region. The division differentiates itself with its modern fleet of plant and effective teams who are encouraged to work together with consultants and clients to the mutual benefit of all parties.

## AUSTRALIA

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WBHO entered the Australian market in 2001 after acquiring an initial 40% interest in Probuild Constructions. A decade later, with WBHO's support, Probuild has developed into a tier one contractor having shown consistent yet controlled growth throughout the period. Key to the success of this relationship has been the similar nature of the values, culture and attitudes of management.

## OTHER OPERATIONS

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The overriding purpose of WBHO's other operations is to expose the group to a range of diversified margin streams within the boundaries of the construction environment, in order to provide a stable earnings platform for the group's shareholders. These markets include private public partnerships, concession arrangements and turnkey projects as well construction materials and property investments.

# HISTORY

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WBHO, first registered in 1971, has a plus 40 year history of growth and internal development and prides itself on being a “peoples” company. WBHO focuses on its client relationships and in producing quality products to the overall satisfaction of its clients.

The management are all long serving company people, vastly experienced in the Southern Africa construction arena in both civil engineering, building construction and special projects, of various natures.

WBHO is an equal opportunity company and prides itself on the development of its PDI's.

We are embarking on a total mentorship exercise for all our technical personnel – we are building our future - internally.

WBHO has wide experience in all types of civil projects. Surface mining projects have been actively pursued by the group. Our considerable experience in this area has meant that we have been called on to construct headgears, crushing plants, refineries, flotation tanks and other infrastructures for the major mining houses of Southern Africa.

It is with pride that the group has been involved in some of the biggest and most technically complex industrial projects in Southern Africa. These include Mossgas, the Columbus stainless steel plant at Middelburg, the steel plant at Saldhana and the aluminium smelters in Richards Bay and Maputo.

The group has, over the years, secured a large number of other major industrial contracts including breweries, chipboard factories, chemical plants, warehouses and aircraft hangars.

Similarly, WBHO has constructed numerous water and effluent treatment plants and reservoirs including Klipriviersberg Reservoir which is the largest covered reservoir in the Southern hemisphere.

In the field of power generation and distribution, the group has completed a number of large power station projects and over 50 power distribution stations. These range from the massive Kusile power station in Emalahleni and Tutuka power station to smaller projects such as extensive alterations and upgrades.

# POLICY

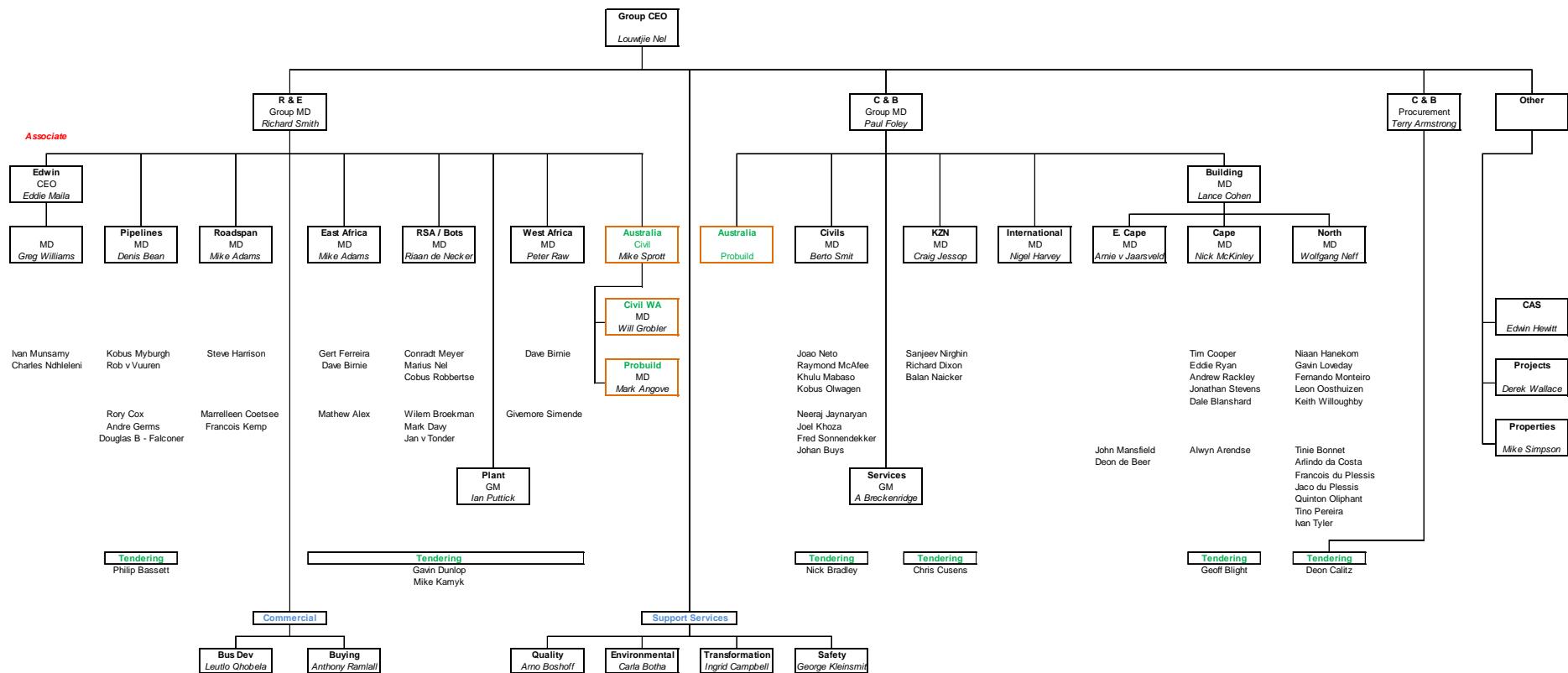
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- To concentrate our activities on those areas where our engineering, construction and management skills will have the greatest effect.
- To strive to provide an unequalled service to our clients. To deliver the standards of construction quality specified. To maintain cordial relationships with our clients and their professional advisors and to minimize areas of dispute.
- To create an environment which will provide opportunities for self-improvement and career growth for all our employees, whatever their background.
- To maintain good relationships with our labour force. To recognize the position of trade unions within our industry and to seek common ground with them to ensure a stable workplace environment for our workforce.
- To provide a safe environment within which our workforce can be productively employed.
- To form strategic partnerships and participate in joint ventures with other industry players where appropriate. To continue to support our associate companies formed in partnership with persons and companies from the previously disadvantaged sector of our society.
- To improve returns to shareholders at a rate in excess of the real growth of the economy and the construction sector in particular. To keep debt at acceptable levels with due regard to the nature of our industry and the types of contracts undertaken.

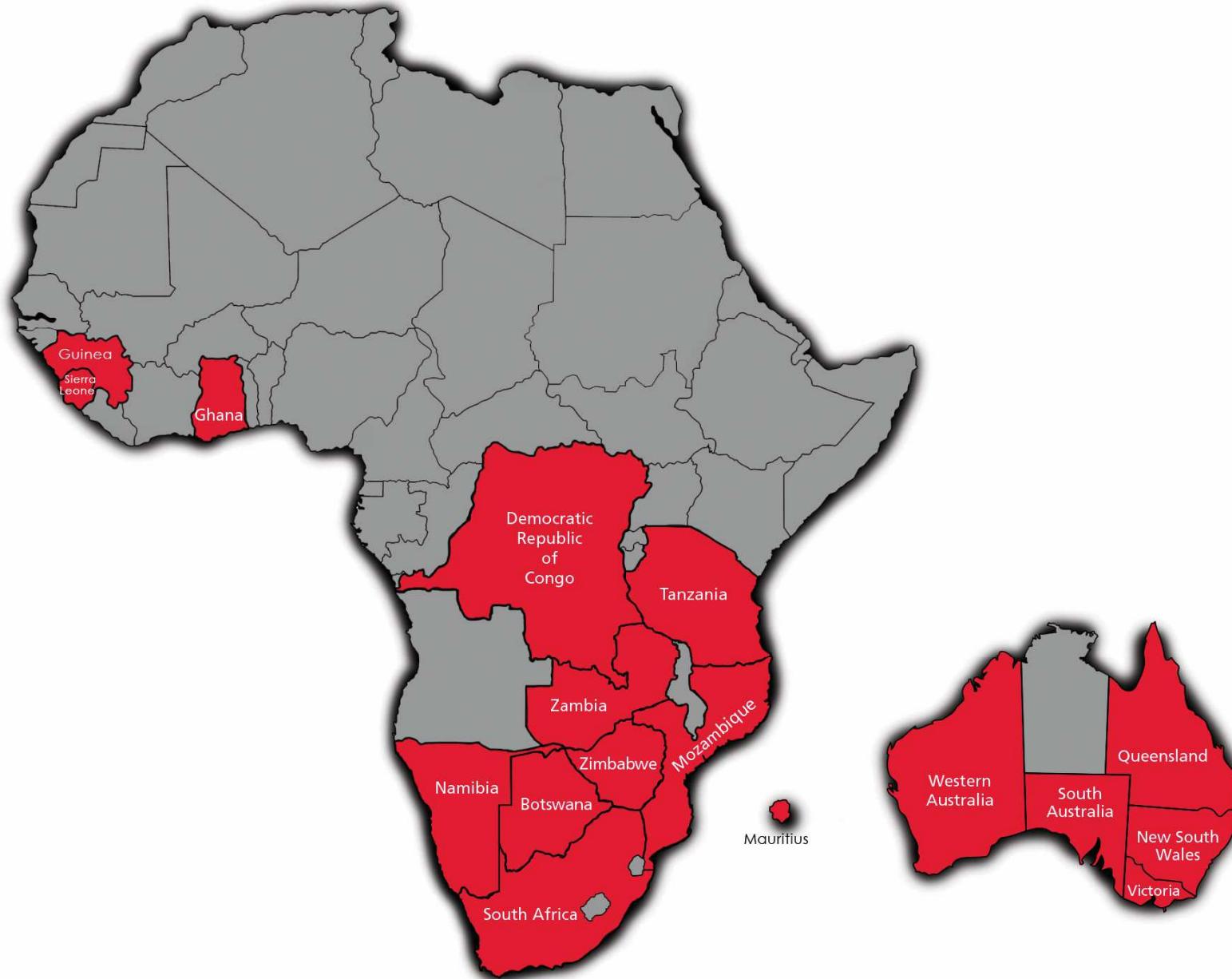
# COMPANY INFORMATION

Name of Company:	WBHO Construction (Pty) Ltd	PROFESSIONAL ADVISORS	CONTACT PERSON
Address:	53 Andries Street, Wynberg, Gauteng P. O. Box 531, Bergvlei, 2012 South Africa	AUDITORS <b>BDO Spencer Stewart (Jhb) Inc.</b> 13 Wellington Road Parktown	<b>Clive Schoombie</b> Tel: (011) 643-7271 Fax: (011) 643-6585
Telephone Number:	+27 11 321 7200	ATTORNEYS <b>Cliffe Dekker Fuller &amp; Moore Inc.</b> 1 Protea Place Partner Sandown	<b>Jonathon Witts-Hewinson</b> Tel: (011) 290-7000 Fax: (011) 290-7300
Fax. Number:	+27 11 887 7847 / 321-7388		
Contact person:	Gavin Dunlop		
Contact e-mail Address:	gavind@wbho.co.za		
Registered Office:	53 Andries Street, Wynberg, Gauteng, South Africa	BANKERS <b>Standard Bank</b> Cnr. 5th & Alice Street Sandton	<b>Isana Cordier / Hoosein Chothia</b> Account Executive / Manager Tel: (011) 636 5044 Fax: (011) 636 0650
Description of Company:	Construction, Rehabilitation and Maintenance of Roads, Bulk Earthworks, Earth Dams, Bridges, Airports, Casinos, Heavy Concrete Structures, Concrete Dams, Pipelines, Infrastructure Works, Mining, Mine Infrastructure, Prestige Building Contracts, General Civil Engineering Projects, Entertainment Complexes.	INSURANCE BROKERS <b>Marsh Africa</b> 156 5th Street Sandton	<b>Paul Jacobs / Alvin Dye</b> Marketing Executive / Snr Mng Client Services Tel: (011) 060-7877
Number of years experience as a general contractor in -		GUARANTEES <b>Lombard Insurance Co Ltd</b> 2 Carse O'Gawie Road Broll Place Parktown	<b>Ria Liggett</b> Tel: (011) 643-8725 Tel: (011) 642-3960
Republic of South Africa:	43		
Internationally:	23		

# COMPANY STRUCTURE



# WHERE WE OPERATE



# COMPANY STRUCTURE - continue

Directorship 83

Management 73

Supervisory 758

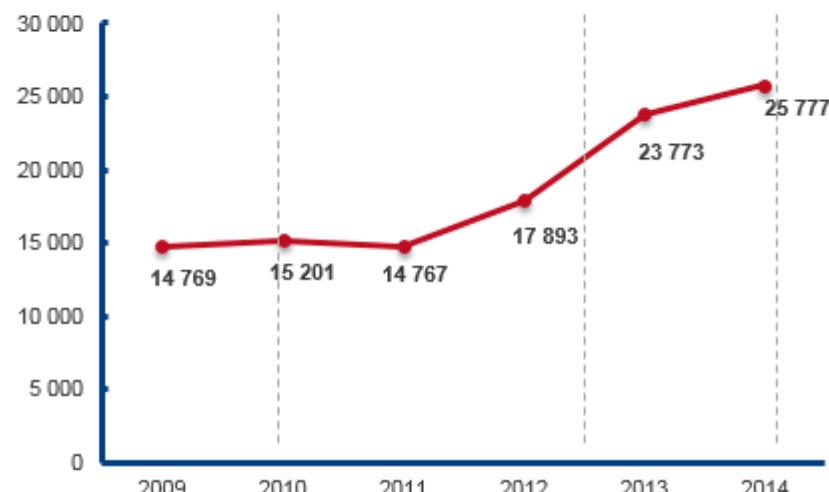
Specialist 536

Name	Qualifications	Years of Experience		Position
		WBHO	Const.	
M S Wylie	Pr Eng, B Com, (Hons), BSc Civil Eng.	40	41	Chairman
E L Nel	BSc Civil Eng	27	28	CEO
C Henwood	Puplic Accountants And Auditors Board B Compt. Honours Ca	5	21	Financial Director
R M Smith	BSc Civil Eng	10	31	Group Managing Director Roads & Earthworks
P. Foley	BSc Civil Eng	28	28	Group Managing Director Civil & Building
T R Armstrong	BSc Civil Eng.	34	34	Procurement Director

# FINANCIALS FOR 2007-2014

	Turnover (ZAR '000s)	<u>2007/2008</u>	<u>2008/2009</u>	<u>2009/2010</u>	<u>2010/2011</u>	<u>2011/2012</u>	<u>2012/2013</u>	<u>2013/2014</u>
		10 783 651	14 768 807	15 201 095	14 766 631	17 893 381	23 773 481	24 526 064
		10 783 651	14 768 807	15 201 095	14 766 631	17 893 381	23 773 481	24 526 064
	Turnover (US\$ '000s)	<u>2007/2008</u> 7.3123	<u>2008/2009</u> 7.6092	<u>2009/2010</u> 7.5877	<u>2010/2011</u> 7.0122	<u>2011/2012</u> 7.7434	<u>2012/2013</u> 8.8170	<u>2013/2014</u> 10.6267
		1 474 728	1 940 915	2 003 386	2 105 849	2 310 797	2 696 323	2 307 966
		1 474 728	1 940 915	2 003 386	2 105 849	2 310 797	2 696 323	2 307 966
	Financial Information (ZAR '000s)	<u>2007/2008</u>	<u>2008/2009</u>	<u>2009/2010</u>	<u>2010/2011</u>	<u>2011/2012</u>	<u>2012/2013</u>	<u>2013/2014</u>
1	Total Assets	7 895 982	9 492 508	9 321 405	9 824 810	11 543 455	12 537 638	12 685 718
2	Current Assets	6 152 291	7 578 529	7 159 195	7 633 968	8 955 197	9 603 999	9 329 676
3	Total Liabilities	6 080 649	7 075 351	6 126 104	5 955 425	7 102 771	7 855 453	7 663 789
4	Current Liabilities	5 815 851	6 698 469	5 905 783	5 823 898	6 939 738	7 682 974	7 464 895
	Profits before Taxes	1 080 735	1 327 661	1 526 521	1 204 106	1 139 064	1 036 644	932 691
	Profits after Taxes	762 524	929 623	1 061 037	824 566	737 688	704 363	595 602
	Financial Information (US\$ '000s)	<u>2007/2008</u> 7.3123	<u>2008/2009</u> 7.8821	<u>2009/2010</u> 7.6818	<u>2010/2011</u> 6.7973	<u>2011/2012</u> 8.1770	<u>2012/2013</u> 9.8808	<u>2013/2014</u> 10.6267
1	Total Assets	1 079 822	1 204 312	1 213 445	1 445 401	1 411 698	1 268 889	1 193 759
2	Current Assets	841 362	961 486	931 972	1 123 090	1 095 169	971 986	877 947
3	Total Liabilities	831 564	897 648	797 486	876 147	868 628	795 022	721 182
4	Current Liabilities	795 352	849 833	768 805	856 797	848 690	777 566	702 466
	Profits before Taxes	147 797	168 440	198 720	177 145	139 301	104 915	87 769
	Profits after Taxes	104 280	117 941	138 124	121 308	90 215	71 286	56 048

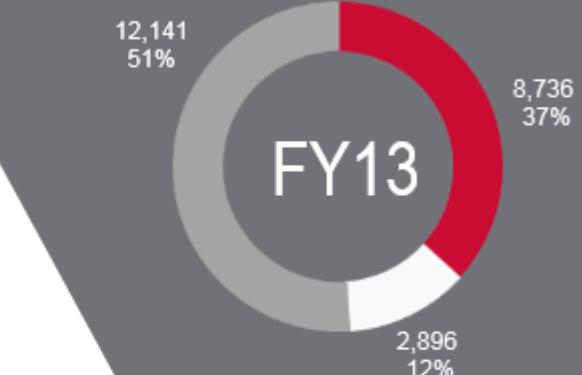
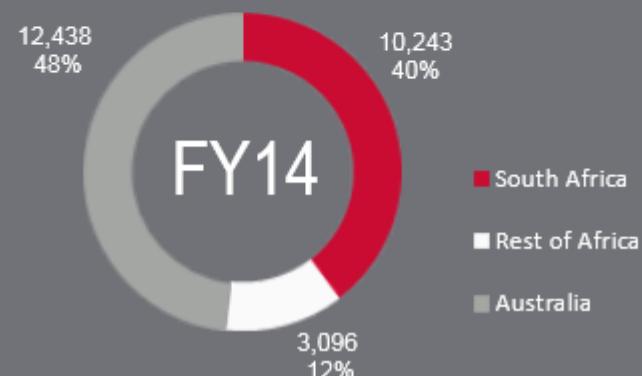
## REVENUE continuing operations



Activity levels  
maintained despite  
poor trading conditions  
post GFC

Strong  
building  
markets in SA  
and AUS

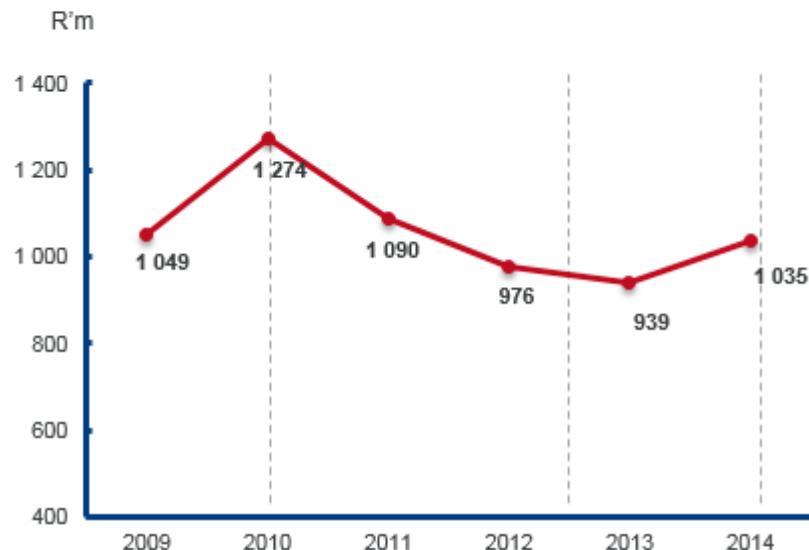
## Contribution by geography



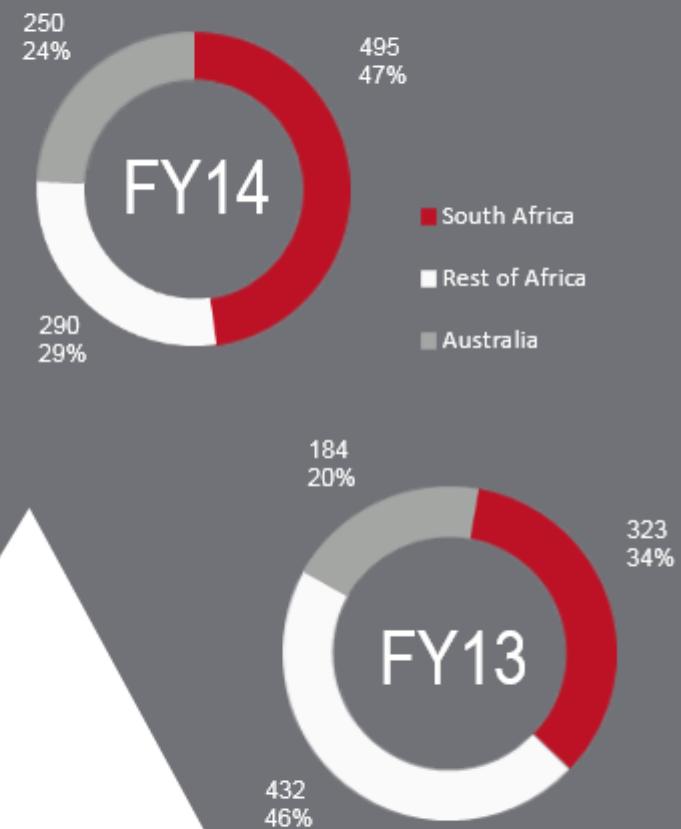
GROWTH  
**8,4%**

**WBHO**

## OPERATING PROFIT continuing operations



### Contribution by geography



GROWTH  
10,2%

## PLANT POLICY

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- WBHO policy is to own approximately 60% of its normal requirements and hire-in the balance to suit the needs of the company at any particular time.
- WBHO owns a nucleus of general all purpose plant and equipment which suits the general nature of its civil engineering business.
- To cater for specific/special contract requirements, WBHO has a capex budget that allows for purchases of high tech equipment not readily available in the general hire market.
- Plant & equipment is maintained in accordance with manufacturers specifications by highly trained mechanics.
- Our Maintenance Management Programme includes Permanent
- Condition Monitoring through scheduled oil sampling, availability and cost control-life analysis.
- WBHO has in place an operator training programme.
- The equipment required to satisfy the work load at any particular time is hired in from reputable Plant Hire concerns or specifically purchased for a contract need.
- WBHO has a present average plant “hour life” of ±6000 hours over all its major earthmoving equipment and is striving to replace its units when the individual items attain approximately 8000 hours. This keeps the major earthmoving equipment modern and reduces down time and maintenance costs.

# PLANT LIST

<u>ITEM</u>	<u>NO</u>
Crawler Dozers:	-
CAT D3/D4/D5	4
CAT D6	8
CAT D7	15
CAT D8	2
CAT D9	6
Excavators:	-
>20 Tonne	2
25/26 Tonne	13
30 Tonne	29
45 Tonne	9
75 Tonne	6
80-90 Tonne	6
Wheeled Excavators - Various Sizes	10
Motor Graders	57
Scrapers	4
Tipper Trucks:	-
10 / 12 / 14 / 18m3	78
6m3	14
Atriculated Dump Truck:	-
25 Tonne	6
30 Tonne	23
40 Tonne	48
Tow Tractors	22
Rollers:	-
Pneumatic	22
Impact	6
Tamping	1
Self propelled Vibrating	77
Grid Roller	10

<u>ITEM</u>	<u>NO</u>
Front End Loaders	26
Milling \ Recycler	8
General Transportation (Flatbeds)	54
Crane Trucks	61
Service Trucks	78
Diesel Bowsers	43
Water Tankers (14,000 - 20,000)	71
Mechanical Horse and Trailers	41
Compressors	31
Cranes:	-
Mobile	43
Crawler	4
Self Erector	3
Tower	49
Concrete Equipment	91
Trencher	1
Ashphalt Plant	6
Bitumen Distributor	3
Brooms & Sweepers	24
Chipspreaders	8
Crushers	15
Drill Rig	3
Material Handlers	50
Pavers	12
Plough, Pumps, Weighbridges	50
Pipelayers	8
General Engineering equipment	

# CURRENT COMMITMENTS

Country	Name of Contract	Division	Employer	Consulting Engineer	Nature of Work	Value ZAR m	Completion Date
RSA	Swartruggens Phase II	R&E	Bakwena	Jeffares and Green	Rehab and Upgrade of N4 Section 14	157.1	January 2015
RSA	Boikarobelo Earthworks	R&E	Ledjadja Coal	RSV Enco	Earthworks	18.3	January 2015
Zambia	Mopani Refinery	Civils			Mopani Refinery	24.3	February 2015
Mozambique	Nacala Port _Section 8	R&E	Vale		Earthworks and Drainage	167.7	June 2015
RSA	Airode Malting Plant	Civils	SAB	Hatch	Construction of Malting Plant	131.5	March 2015
RSA	Mia Civils	Civils	Glencore		Surface Infrastructure	278.4	March 2015
Mozambique	Rehabilitation of EN4	R&E	TRAC	SMEC Vela VKE	Rehab of Road EN4	402.0	March 2015
RSA	BHP Pipelines	R&E	BHP Billiton	Aurecon Tshwane	Construction of Pipelines and Pump Station	142.4	March 2015
RSA	Shondoni	R&E	Sasol Mining	Worley Parsons	Overland Conveyor Formation	225.0	March 2015
Botswana	NCS 2 Water Project	R&E	Government of Botswana	Bigen Africa	North South Carrier 2 Water Transfer Project	1660.0	March 2015
RSA	IBM Fitout	North	Redefine Properties	Paragon Interface	Tenant fitout of 5 levels incl Atrium level	71.0	March 2015
RSA	ID Logistics	Ecape	Coega Development Corporation	Imbono FJA Architechts	New ID Logistics Distribution Facility	59.0	March 2015
RSA	Nomuwa Rural Houses	R&E		Bigen Africa	1000 Low Cost Rural Houses	72.5	March 2015
Mozambique	Matola Mall Civil Services	R&E	McCormick Properties	Hannes Hattingh	Civil Works	72.3	April 2015
RSA	Greenacres Phase 1	Ecape	MDSA Project Management		Greenacres Axpansion Phase 1	76.4	April 2015
RSA	Harmony Road Upgrade	R&E	SASOL Mining	Worley Parsons	Upgrading of Existing Road	62.9	April 2015
RSA	Komati Ash Dam	R&E	Eskom	Jones and Wagner Civil Engineers	Earthworks and Liner for Power Station	67.3	May 2015
RSA	Glencor Slimes Dam	R&E	Glencore	Inprocon Consultants	Slimes and Return Water Dams	31.1	May 2015
RSA	Rea Veya BRT Katherine Street	R&E	Johannesburg Development Authority	Royal Haskoning DHV	Construction of new BRT Route	76.4	June 2015
RSA	Roggebaai Hospital Erf 247	Cape	Lakeside City Trading	SIP Project Managers	Construction of Hospital Building	344.1	June 2015
RSA	Gardens Centre	Cape	Acucap Management Services (Pty) Ltd		Refurb of existing mall areas	11.3	June 2015
Namibia	Husab Bulk Earthworks	R&E	Husab Uranium	AMEC	Bulk Earthworks for Uranium Project	408.0	June 2015
Mozambique	Nacala Port _Section 8	R&E	Vale		Earthworks and Drainage	167.7	June 2015
RSA	Tweefontein Water Reclamation (Witcons)	R&E	Glencore	Golder Associates	Water Reclam, Terraces and Pumpstation	169.0	July 2015
RSA	H&M Store, V&A Waterfront	Cape	V&A Waterfront Holdings		H&M Store	28.2	July 2015
RSA	Mooi Umgeni Pipeline	R&E	TCTA	AECOM	Construction of Pipeline	556.0	July 2015
RSA	Pta West Depot	R&E	Sasol Oil (Pty) Ltd	VGI Consulting Inc	Fuel Storage Depot conversion	53.9	September 2015

# CURRENT COMMITMENTS - continue

Country	Name of Contract	Division	Employer	Consulting Engineer	Nature of Work	Value ZAR m	Completion Date
RSA	Pegasus Phase II	North	Menlyn Main & Fast Moon	Boogertman & Partners	3 Level Basement and Offices	75.3	September 2015
Zambia	Mindola Winder Building	Civils			Building	USD 5.5	September 2015
Zambia	Mufilira winder Building	Civils	Mopani Copper Mines		Building	USD 4.5	September 2015
Ghana	Asanko Infrastructure - Bulk Earthworks	R&E	Adansi Gold Company	DRA Minerals	Construction of Mining and Civil Infrastructure - Bulk Earthworks	120m	September 2015
RSA	Milpark Parkade and Theatre	North	Netcare Property Holdings	VDO Consultants	New Parkade and Hybrid Theatre	82.4	October 2015
Ghana	Achimota Shopping Centre	North			Achimota Shopping Centre	66.3	October 2015
RSA	K&T Gateway Offices	KZN	Namandla Investments (Pty) Ltd	TC Design Architects	6 Storey Building, 2 Levels Basement Parking	59.3	October 2015
RSA	NMMU B.Ed Building	Ecape		Arup	Construction of B Ed Foundation Phase	41.9	October 2015
RSA	BRT - Anderson Street	R&E	Ethewkwi	MCA JV	Construction of BRT Infrastructure	306.0	November 2015
RSA	PWC Ridgeside	KZN	Deve Investments (Pty) Ltd	Boogertman & Partners	Green Multisorey Offices and Parking	71.3	December 2015
RSA	Kusile Coal Stock Yard	R&E	Eskom	KET (Kusile Execution Team)	Earthworks	513.0	December 2015
Ghana	Konongo Reservoir	R&E	Tahal Ghana		Reservoir	102m	December 2015
RSA	Natref X	R&E				16m	December 2015
RSA	BRT - Bridge City	R&E	Ethewkwi	HHO	Construction of BRT Infrastructure	334.0	January 2015
RSA	Medstone Medical Centre	KZN	Umhlanga Medical Centre (Pty) Ltd	BVA Architects	Construction of the new Medical Centre	56.8	February 2016
Mozambique	Pemba Retail	North	Pemba Investment Company LDA	Empowered Spaces	Shopping Mall	USD 16.4	February 2016
Botswana	NSC I Ext	R&E	Ministry of Water and Minerals Resources	GSENC	26km Replacement of pipe	250m	February 2016
Mozambique	Pemba Retail - Earthworks	R&E	Pemba Investment Company LDA	Pentad	Earthworks	8.1	March 2016
RSA	Kusile Ash Dam	R&E	Eskom		Lined Dams, Pipework, Drainage and Road	1032.0	April 2016
RSA	Mall of Africa	North	Atterbury Waterfal Investment Company	MDS Architects	Multi Level Shopping Centre with Parking	1947.6	April 2016
RSA	BRT - Beviss Road	R&E	Ethewkwi	MCA JV	Construction of BRT Infrastructure	412.0	April 2016
RSA	N1 Pedestrian Facilities	R&E	SANRAL	SMEC South Africa (Pty) Ltd.	Construction of Roads & Bridges	150.0	May 2016
RSA	Vector Logistics	Ecape		Uhambiso Consult	Construction of Cold Storage Warehouse	147.7	May 2016

## CURRENT COMMITMENTS - continue

Country	Name of Contract	Division	Employer	Consulting Engineer	Nature of Work	Value ZAR m	Completion Date
RSA	Menlyn Maine Central Square	North	Menlyn Maine Investment Holdings	Boogertman & Partners	New Shopping Mall, Offices and Hotel	950.0	June 2016
RSA	Stats SA Construction	North	Dipalopalo Concession (Pty) Ltd.	GLH Architects	Stats SA Office Block	1 303.1	June 2016
RSA	Rosebank Towers	North	Abland	Grosskopff, Lomart, Huyberechts & Assoc	Construction of New Office Block	408.6	July 2016
RSA	Grain Silos	Cape	V&A Waterfront Holdings	MLC	Heritage Refurb of Museum and Hotel	352.6	September 2016
RSA	Nseleni Rural Housing	R&E	Thokozi Development	AECOM	Construction of 1000 houses	72.2	December 2016
RSA	Katherine BRT Bridge	R&E	JDA	Royal Haskoning DHV	Construction of a Pedestrian Bridge	123.6	March 2017
RSA	Discovery Head Office	North	Discovery Joint Venture	Boogertman & Partners	Construction of new Head Office	1616.4	September 2017

# WORK EXPERIENCE

Contract	Employer	Engineer/Architect/Project Manager	Value at Completion R Million	Year completed
Ogies Bridges	Anglo Operations LTD (Coal Division)	Venn & Milford Inc (Project Serv.)	30.0	2009
Saldanha-Sishen Railway	Transnet Projects	HATCH	305.0	2009
Tenke Mine (DRC)	Tenke Fungurume Mining SARL	GRD Minproc	1100.0	2009
Orapa Services Dam	Debswana Mining Company	Debswana Mining Company	72.0	2009
Ogies	Anglo Coal	Venn & Milford INC	194.0	2009
BHP Dragline Walkway	BHP Billiton		10.8	2009
Barberton (Hilltop to Barberton) Road	SANRAL (Northern Region)	SNA C&D Eng.	270.0	2009
Nondela Golf Estate - The Berg	Nondela Drakensber Mountain Estate	Africon	350.0	2009
Klipspruit Roads, Terraces etc	BHP Biliton Energy Coal SA	GOBA	400.0	2009
Mbabane Bypass Road (60% JV)	MOPW & T (Swaziland)	BCEOM/OOP JV	600.0	2009
Mapapa Maniguinigue - Road Rehab	ANE	SRK Consulting	75.0	2009
Delta Apron (80% JV)	ACSA	PD Naidoo & Assoc	27.0	2009
Zondagsfontein Bulk Earthworks (Bee Sting)	Anglo Operations Limited	Venn + Milford	60.0	2009
Nkomati Phase 2 - Bulk Earthworks	DRA	DRA Mineral Projects	140.0	2009
Chimi Channel (Lumwana)	Lumwana Mining Company	Lumwana Mining Company	101.0	2009
N2 Toll Plaza	Ilembe Civil Construction	Ilembe Engineering	18.0	2010
Trade House 1	Ilembe Airport Construction Services	Virtual Buro	94.0	2010
Nkomati Open Pit Terrace & Infrastructure	Nkomati Joint Venture	Professional Design Surfaces	10.9	2010
King Shaka International Airport (35 % JV)	DVBE Tradeport / ACSA	Ilembe	2925.0	2010
Rustenburg Road (50% JV)	Rustenburg Local Municipality	Africon	99.0	2010
Mt Frere	SANRAL	GOBA	382.0	2010
R102 Roadlink	Ilembe Airport Construction Services	Virtual Consulting Engineers	2.0	2010
N2 Interchange (35% JV)	SANRAL	EJV/GOBA	301.0	2010
Polokwane Bridge	Polokwane Municipality	Arup Infrastructure	55.4	2010
Konkola Mine Early Works	Konnoco Zambia Ltd		6.6	2010
Nelspruit Bypass - Mataffin	Trans African Concessions (Pty) Ltd	SNA-VELA VKE JV	396.1	2010

# WORK EXPERIENCE - continue

Contract	Employer	Engineer/Architect/Project Manager	Value at Completion R Million	Year completed
Rural Housing Project KZN	Inkonjane Developments		49.6	2010
N2 Hard and Soft Landscaping	Ilembe Airport Construction Services	Virtual Consulting Engineers	47.0	2010
N17 Wildebeesfontein	SANRAL	Kwezi V3 EPA JV	89.6	2010
Tshwane Bus Rapid Transit	SANRAL/Tshwane Metro	SSI/GOBA/MPA JV	8.0	2010
Remote Apron Stands at ORTIA (75% JV)	ACSA	PD Naidoo	261.0	2010
Thubelisha Syferfontein Pipeline	Sasol Mining	RSV Enco Goba	17.7	2010
Unki Mine (Zimbabwe)	Anglo American - Unki Mines	DRA Mineral Projects	80.0	2010
AC Secondary water Mains (KZN)	Ethewkini Water and Sanitation	BKS	708.4	2010
10" Welded Steel Liquid Pipeline from Sasolburg to Secunda	Sasol Oil		194.7	2011
River Diversion Crossing Goedgevonden	Xstrata Coal SA	Xstrata	37.0	2011
Zibulo Colliery	Anglo Coal	Semanne	12.0	2011
Sir Seretse Khama Airport Runway	Ministry of Works & Transport	Naco/SSI Airport Consultants JV	321.0	2011
Polokwane Eastern Ring Road	SANRAL	KBK Engineers	339.0	2011
Moatize Water Supply Project - Tete Pipeline Vale		Aurecon	350.0	2011
Riversdale Terraces (Benga Mine)	Riversdale Mozambique Limitada	GMH/CPP Consultores Lda	42.5	2011
Ngula Dam	Eskom Enterprises	Braamhoek Dam Enterprises	980.0	2011
Gauteng Freeways (GFIP)	SANRAL	SSI	1702.0	2011
Kroondal, Bulk Earthworks	Aquarius Platinum	DRA Mining	25.7	2011
Southdeep Gold Mine, Tailings Dam	Goldfields	Golder Associates	256.0	2011
Sasol Dams	Sasol Synfuels	Sasol Technologies	75.1	2011
Eskom Access Road GGV	Goedgevonden JV Xstrata	Peter Martin & Associates	10.1	2011
Phola Stockpile Ext	Phola Coal Processing Plant	Venn&Milford	22.3	2011
Maseve WBJV Project 1, Boxcut	Maseve Investments	DRA Mining	40.5	2011
GGV Remedial Works	Xstrata SA	Jones & Wagner	11.3	2011
Southdeep Pump Station	Goldfields Shared Services	Murray & Roberts Cementation	8.8	2012
Saspire (50% JV)	Sasol Oil	VGI	170.8	2012
Thubelisha Site Wide Civils and Boksplaas	Sasol Mining	RSV Enco-Goba JV	172.8	2012
Aggreko Power Station Phase I	Aggreko International Power Projects	Aurecon	0.7	2012
Forecariah Haul Road	Forecariah Holdings (Pty) Ltd		115.3	2012
Konkola North Civils	Konnoco Zambia Ltd	DRA	170.0	2012

# WORK EXPERIENCE - continue

Contract	Employer	Engineer/Architect/Project Manager	Value at Completion R Million	Year completed
Vrede / Standerton WP23 (50% JV)	Dpt. of Police, Roads & Transport	Nevhutalu Consulting	126.0	2012
Tweefontein & Waterpan Colliery	Xstrata Coal SA	DRA Mineral Projects	19.0	2012
Valencia Link Road	SANRAL	SNA Civil & Structural Engineers	114.0	2012
South Deep MET Plant Upgrade	Gold Fields Shared Services	TWP Projects	62.8	2012
Ngwenya Iron Ore	Salgoacar Swaziland (Pty) Ltd	A G Thomas	68.1	2012
London Mining TSF	London Mining PLC		91.6	2013
Mvezo Bridge and Access Road	Dept. of Rural Development & Land Reform	Aurecon SA (Pty) Ltd.	112.0	2013
Isibonelo, Water Management Construction	Anglo American Thermal Coal Division		29.7	2013
Kusile Pipeline	Eskom Holdings Limited		109.0	2013
Sasol GNP (50% JV)	Sasol Technology	VGI Consulting Inc	636.0	2013
Pepel CW	African Minerals		69.2	2013
Oubasi	Anglo Gold Ashanti		54.2	2013
Nacala Dam	Millennium Challenge Account – Mozambique	Jeffares and Green	USD 35.5m	2013
Ressano Garcia Power Station Phase II	Aggreko International Power Projects	Aurecon	USD 1.5m	2013
KSIA Small Works	Illembe	BKS	12m	2013
Kwamakhwanazi Rural Housing	Qhawe Lamaqhawe Enterprises cc	Bigen Africa (Pty) Ltd.	70m	2013
N4-7X of MDC Section 7B-Schagen to Nelspruit	TRAC	SNA	197m	2013
AGA Iduapriem Greenfields	Anglo Gold Ashanti	SRK Consulting Engineers	570m	2013
Akyem Bulk Earthworks and Slimes Dam	Newmont/Golden Ridge	Lycopodium	513m	2013
Bloemfontein/Bultfontein (50%JV)	Dpt. of Police, Roads & Transport		190m	2013
Parkhurst Sewer Upgrade	Joburg Water	Joburg Water	2.7	2013
Coca Cola Earthworks (Bulk Earthworks)	Coca Cola SABCO Mozambique	AECOM SA (Pty) Ltd	31.1	2013
Beira Terminal Upgrade	ENGEN		4.5	2013
Standerton Culverts	Sasol Mining	RSV Enco	36.5	2014
Bethlehem/Lindley Steynsrus (50%JV)	Dpt. of Police, Roads & Transport	ED Simelane	280.0	2014
Mayoko Earlyworks	Exxaro/DMC	BVI	28.0	2014
N4-4B Middelburg	TRAC	VelaVKE	205.4	2014
Coca Cola Access Road	Coca Cola SABCO Mozambique	AECOM SA (Pty) Ltd	16.3	2014
Coca Cola Services	Coca Cola SABCO Mozambique	AECOM SA (Pty) Ltd		2014
Vale TSF	Vale	Golder Associates	184.0	2014

# WORK EXPERIENCE - continue

Contract	Employer	Engineer/Architect/Project Manager	Value at Completion R Million	Year completed
Swaeltjie Roads (D714 Impumulelo)	Sasol Mining	RSV Enco	124.0	2014
Table Mountain Rural Housing	CHS Developments/Mkhambathathini Municipality	BigenAfrica Services	110.0	2014
MIA Terraces - Tweefontein	Xstrata Coal	DRA Mineral Projects	77.0	2014
Impumulelo Site Wide Civils	Sasol Mining	RSV Enco	94.7	2014
SAB Alrode MP	SAB	Goba/Hatch	24.8	2014
Metolong Downstream Conveyance - Contract 02	Metolong Authority		245.7	2014
Achimota Earthworks			60.5	2014
KM4 Lot 1 Parking Area	SGT		25.5	2014
BHP Building Works	BHP Billiton Energy Coal SA Limited	Aurecon Tshwane	5.1	2014
Ventersburg Re-alignment	SANRAL	Bigen Africa (Pty) Ltd.	266.1	2014
N4 Swartruggens to Koster (Extended Work)	Bakwena Platinum	Jeffares and Green	145.4	2014
Kwadube Rural Housing		Bigen Africa (Pty) Ltd.	107.0	2014
Villiers/Frankfort/Heilbrong (50%JV)	Dpt. of Police, Roads & Transport	Thandabathu Consulting	424.0	2014
Ahafo Project	Newmont Ghana Gold Ltd	Knight Piesold Perth Australia		2014
Watson Highway MRO	Dube Tradeport	Virtual Consulting Engineers	186.7	2014
Natref VIII	Natref (Pty) Ltd	Goba	15.8	2014

**WBHO**

SOUTH AFRICA\_  
ROADS AND  
EARTHWORKS



# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:**  
Eskom Enterprises  
**Consulting Engineer:**  
Black & Veatch  
**Contract Period:**  
November 2011 – April 2016  
**Value at Completion:**  
ZAR656m  
**Location:**  
Witbank

## PROJECT: KUSILE ASH DAM

PROJECT SHEETS

### Construction work involved the following:

- Construction of Ash Dumps
- Lined Dams
- 2 000 000 m<sup>2</sup> 2mm HDPE Liner ( 50% by Internal liner teams)
- 2 000 000 m<sup>2</sup> A8 Bidim ( 50% by internal teams)
- 1 000 000 m<sup>2</sup> GCL ( 50% by internal teams)
- 2 no Dirty Water Dams ( All liner works by WBHO)
- 6 no Silt Retention Dams
- Pipe Works
- Drainage
- Roads

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:**  
**Consulting Engineer:**  
**Contract Period:**  
**Value at Completion:**  
**Location:**

Bakwena Platinum Corridor  
Jeffares & Green  
May 2013 – December 2014  
ZAR157m  
Swartruggens, North West

## PROJECT: N4 RUSTENBURG TO SWARTRUGGENS

PROJECT SHEETS

### Construction work involved the following:

- The project stretches from N4-13 km 40.900 west of Rustenburg to N4-14 Km 22.600 at road P34-1 to Koster.
- The single carriageway road consists of 2 x 3.7 m wide lanes (one in each direction) with 2.5 m paved shoulders.
- Ancillary works shall include the following
- Excavation of cut slopes to improve sight distance along intersections
- Accommodation of traffic construction of temporary bypasses and associated drainage re-working of existing rounding/shoulder for traffic accommodation
- Reconstruction of existing insitu layerworks
- Construction of new G1 base layer
- Surfacing of carriageway using winter and summer surfacing
- Replacing kerbing at intersections
- asphalt surfacing of bridge decks and interchanges
- Erosion control
- Construction/repair/moving of fencing
- installation of subsoil drains
- Re-grading of existing drains
- Construction of concrete v-drains
- Removal/construction of edge beams at accesses
- Removal and reconstruction of culverts were required
- Repair and clearing of existing culverts were required
- Reinstatement of all road paint markings and road studs
- Replacement or construction of new guardrails

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:**  
**Consulting Engineer:**  
**Contract Period:**  
**Value at Completion:**  
**Location:**

TRAC  
SNA  
September 2011 – December  
2014  
ZAR179.2m  
Nelspruit

## PROJECT: N4-7X SCHAGEN TO NELSPRUIT NORTHERN RING ROAD

PROJECT SHEETS

### Construction work involved the following:

Construction of a new carriageway and upgrading the existing road as the second carriage way from km 32,9 to 46,5

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:**  
**Consulting Engineer:**  
**Contract Period:**  
**Value at Completion:**  
**Location:**

BHP Billiton  
Aurecon  
January 2013 – May 2014  
ZAR148m  
Middelburg, Mpumalanga

## PROJECT: PIPELINES AND PUMP STATION AND ASSOCIATED WORKS



### Construction work involved the following:

- Pumps & Pumpstation
- Rondeboshie Dam 525m<sup>3</sup>/h @ 49m head
- Goedehoop Dam 500m<sup>3</sup>/h @ 61m head
- Dam 5 750m<sup>3</sup>/h @ 38.9m head
- Dam 5 Sludge Pump @ 0.2m<sup>3</sup>/min @ 8m head
- Pump Station Sump pump 7.2m<sup>3</sup>/h @ 12m head
- Scour Pump 54m<sup>3</sup>/h @ 3m head
- Pipelines
- SANS 719 Grade C steel :
  - 400mm dia. 1530m
  - 450mm dia. 28m
- HDPE, PE 100, PN 12.5:
  - 500mm dia. 6925m
  - 450mm dia. 12643m
  - 315mm dia. 4620m
- Pipe Jacking
- 1800mm dia. Sleeves – 75 in length
- Reservoir 500m<sup>3</sup>, Valve Chambers, Fencing

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:**  
**Consulting Engineer:**  
**Contract Period:**  
**Value at Completion:**  
**Location:**

Xstrata Coal SA  
DRA Mineral Projects  
November 2011 – May 2014  
ZAR372m  
Witbank

## PROJECT: TWEEFONTEIN OPTIMISATION PROJECT

PROJECT SHEETS

### Construction work involved the following:

- 8km – Haul Road
- ROM Pad and Stockpiles
- Terracing and Earthworks
- Water Management
- Crushing and Screening – 100 000m<sup>3</sup>
- Laydown Area for the Tweefontein Contract

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:**  
**Consulting Engineer:**  
**Contract Period:**  
**Value at Completion:**  
**Location:**

SANRAL  
Bigen Africa Service (Pty) Ltd  
September 2011 – April 2014  
ZAR301m  
Free State

## PROJECT: VENTERSBURG RE-ALIGNMENT

PROJECT SHEETS

### Construction work involved the following:

- Vertical realignment of Section 16 and 17 of the National Route 1.
- Comprising of 10.032km in length
- Works include:
  - Roadworks for the accommodation of traffic
  - Roadworks inclusive of clearing, topsoil removal, excavating, widening, layering, stabilizing,
  - Slope Stabilization
  - Ancillary Roadworks, inclusive of fencing, road markings, traffic signs
  - Construction of Bridges with Pedestrian Walkways
  - R 70 Bridge
  - Scholtz Street Bridge
- Voortrekker Street Bridge
- Construction of Bridges with Pedestrian Walkways

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:**  
Consulting Engineer:  
**Contract Period:**  
**Value at Completion:**  
**Location:**

SANRAL  
SNA Civil & Structural  
Engineer  
March 2011 – September  
2012  
ZAR136.3m  
Nelspruit

## PROJECT: N4 VALENCIA LINK ROAD

PROJECT SHEETS

### Construction work involved the following:

P154-7 Link Road between Valencia and N4

This project follows a new (Greenfields) alignment and also includes the re-arrangement of the local street network and services in the Valencia area at the start of the project as well as a traffic signal at the P154-7/Dr Enos Mabuza Drive intersection.

Length of roads

- P154-7 : 2,28km
- Croc Valley Interchange : 1,50km & 1,18km
- Streets : 0,74km & 0,54km
- Existing N4-7X : 0,3km

Bridges/Structures included in the works

- Directional A Bridge on NNRR : B0126 (4-span)
- In-situ box culverts : 5 no.
- Canal deviation : 5mx2m

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:**  
**Consulting Engineer:**  
**Contract Period:**  
**Value at Completion:**  
**Location:**

Sasol Mining  
RSV Enco  
June 2010 – October 2011  
ZAR182m  
Mpumalanga

## PROJECT: THUBELISHA SIDE WIDE CIVILS

PROJECT SHEETS

### Construction work involved the following:

- Construction of terrace for building.
- Services - Water and firewater reticulation, sewer, stormwater, ducts. Concrete paved terrace roads, gravel off-terrace roads.
- Construction of concrete structure - Isobin, sewer treatment plant, silt traps, Bulk fuel bay, mini-substations, oily water separator.
- Construction of 12ML and 500ML lined dams

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:**  
**Consulting Engineer:**  
**Contract Period:**  
**Value:**  
**Location:**  
**Joint Venture:**

SANRAL  
SSI  
May 2008 – September 2011  
ZAR 2,044b  
N1 Highway from Buccleuch I/C  
to 14<sup>th</sup> Avenue  
WBHO (60%); Sanyati, Patula,  
Rainbow, Glash, Munasi

## PROJECT: GAUTENG FREEWAY IMPROVEMENT PROJECT (GFIP)

PROJECT SHEETS

### Construction work involved the following:

Upgrading of National Route 1, Section 20 (N1 – 20) from the northern limit of 14th Avenue Interchange (km 27,00) to the southern limit of Buccleuch Interchange (km 48,20).

- Existing 13,4m wide median will be utilized to provide a fourth lane in each direction with full shoulder lanes.
- Improved width on each four lane carriageway will comprise four 3,5m lanes, a 2,20m outside shoulder and 2,35m inside shoulder, with a 0,8m wide median barrier.
- At all interchange approaches, an auxiliary lane will be provided with lengths from ramp yellow breakline point varying between 300m to 500m.
- The four lane through road, with auxiliaries on each carriageway, will comprise five 3,5m lanes, a 1,0m outside shoulder and 2,35m inside shoulder. At Rivonia Interchange a special arrangement is made in the northbound direction utilizing a collector-distributor road.
- 16 Bridges (6 Road over River; 9 Road over Road; 1 Pedestrian Bridge)

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:** Sasol Synfuels  
**Consulting Engineer:** Sasol Technologies  
**Contract Period:** September 2010 – March 2011  
**Value at Completion:** ZAR73.8m  
**Location:** Secunda

PROJECT SHEETS

## PROJECT: SASOL DAMS

### Construction work involved the following:

Construction of 2 HDPE lined evaporation dams, each with 1.3 Mega-litre capacity. Total earthworks volume was 489 500 m<sup>3</sup> of cut to fill in order to construct the earth dam walls. These dam walls were then covered with 67000m<sup>3</sup> of 100mm recycled ash used as a protective layer and the liner system. A total of 484 000m<sup>2</sup> of 4 layered liner system was installed, consisting of a U24 Bidum layer, 2mm HDPE layer followed by a pvc flow medium and finally covered with the final 1.5mm HDPE liner. Works also consisted of a leak detection system within each dam, all inlet and outlet structures related to the dams together with all related infrastructure required to make these dams operational. A total of 14 km of gravel road was constructed in conjunction with 10km of cast in situ kerbing to finish off the dam walls on top. A further 56 000m<sup>3</sup> of excess materials were stockpiled for future use too and all areas rehabilitated to natural.

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:** Goldfields Shared Services (Pty) Ltd  
**Consulting Engineer:** Golder & Associates  
**Contract Period:** July 2009 – May 2011  
**Value at Completion:** ZAR256m  
**Location:** Carletonville

PROJECT SHEETS

## PROJECT: SOUTH DEEP TAILINGS STORAGE FACILITY

### Construction work involved the following:

- South Deep Doornpoort Tailings Storage Facility
- Construction of Tailings Facility, Return Water Dam, Penstock Piping, Silt Trap, Neutralisation Plant, De-silting and Return Water Pump Stations, Access Roads and Road Crossings within Perimeter Fence and Perimeter Fencing

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:**  
**Consulting Engineer:**  
**Contract Period:**  
**Value at Completion:**  
**Location:**

Eskom Enterprises  
Braamhoek Dam Consultants  
April 2008 – October 2010  
ZAR980m  
Little Drakensberg mountain

## PROJECT: INGULA DAM

PROJECT SHEETS

### Construction work involved the following:

- The Ingula Pumped Storage Scheme is proposed as a pumped storage project with a capacity of 1333MW and an energy storage capacity of 21000MWh.

#### Braamhoek:

- RCC Dam approximately 335m long and 39m high
- Free crest spillway with crest length of 40m over RCC dam
- Lower dam – roller compacted concrete dam 35m high, reservoir total 26.7 MCM, active
- storage of 19.1 MCM

#### Bedford:

- River diversion works consisting of channels, a cofferdam and training wall.
- 480m embankment with 170m Long clay core embankment extension

- 48m Long single span bridge
- 42m dry well single-level intake tower
- Upper dam - concrete faced rock fill embankment dam 49m high, reservoir total 22.4
- MCM, active storage of 19.1 MCM

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:** Eskom  
**Consulting Engineer:** Eskom  
**Contract Period:** May 2010 – April 2011  
**Value at Completion:** ZAR60m  
**Location:** Ogies, Mpumalanga

PROJECT SHEETS

## PROJECT: KUSILE PIPELINE

### Construction work involved the following:

Installation of a 28km, 700mm Ø Fully Welded Steel Pipeline from Kendal Power Station to Kusile inclusive of but not limited to:

- Providing Site access for delivery of pipes
- Offloading pipes delivered to Site by the appointed pipe manufacturer
- Site clearing, excavation, bedding, pipe installation, jointing, testing, backfill, and
- rehabilitation of the Site
- Construction of all isolating valve, air valve, scour valve and access chambers as well as ancillary works and structures to house the telemetry, control and cathodic protection equipment.
- Electrical and Electricity Works
- Associated Control and Instrumentation
- Provision of an Access Road

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:**  
**Consulting Engineer:**  
**Contract Period:**  
**Value at Completion:**  
**Location:**

DUBE Tradeport / ACSA  
Ilembe  
August 2007 – April 2010  
ZAR7.9b  
Kwa-zulu Natal

## PROJECT: KING SHAKA INTERNATIONAL AIRPORT

PROJECT SHEETS

### Construction work involved the following:

- |                               |                           |  |
|-------------------------------|---------------------------|--|
| • Runway and Taxi Pavements   | 400 000m <sup>2</sup>     | • Terminal building and cargo                              |
| • Terminal Building Footprint | 35 000m <sup>2</sup>      | • Access roads and internal roads including N2 interchange |
| • Terminal Floor Area         | 103 000m <sup>2</sup>     | • Parking areas  |
| • Earth moved                 | 5.8million m <sup>3</sup> | • Trade zone   |
| • Concrete poured             | 100 000m <sup>3</sup>     |  |
| • Structural Steel erected    | 4 700 tonnes              |  |
| • Asphalt tonnes              | 230 000                   |  |
| • Electrical Cabling          | 700km                     |  |

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:**  
**Consulting Engineer:**  
**Contract Period:**  
**Value at Completion:**  
**Location:**  
**Joint Venture:**

Airports Company of SA  
PD Naidoo & Associates  
August 2008 – June 2010  
ZAR690m  
OR Tambo, Johannesburg  
WBHO, Chestnut & Munasi

## PROJECT: REMOTE APRON STANDS

PROJECT SHEETS

### Construction work involved the following:

- Aircraft parking bays and Taxiways
- DESCRIPTION (Major operations):
  - 6818 stone columns 3m-8m x 1m dia
  - 146,000m<sup>3</sup> of Dump rock
  - 17,628m<sup>2</sup> x 330mm thick concrete slab at Golf Apron.
  - 58,000m<sup>3</sup> cut to spoil at Golf Apron
  - 34,000m<sup>3</sup> of g7 fill at Golf Apron

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:**

Komati Basin Water Authority (KOBWA)  
MDJV (Ninham Shand,  
Steffen Robertson & Kirsten & ZMCK)  
August 1998 – May 2001  
ZAR420m  
Piggs Peak

**Consulting Engineer:**

Keeve Steyn,

**Contract Period:**

**Value at Completion:**

**Location:**

## PROJECT: MAGUGA DAM

PROJECT SHEETS

### Construction work involved the following:

Construction of the Maguga Dam

- 6 million m<sup>3</sup> of Earthworks
- 2 tunnels (8m x 7m) & (8mx9m) & ±400m long
- 225m long Road bridge over spillway
- 120 000m<sup>3</sup> concrete
- 102m high 12 m ø Intake Tower
- Rock Bolting & Shotcreting
- Drilling & Grouting
- Drill & Blast
- Crushing

**WBHO**

INTERNATIONAL\_  
ROADS AND  
EARTHWORKS



# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:** Newmont Ghana Gold Limited  
**Consulting Engineer:** Lycopodium Ghana Limited  
**Contract Period:** 2007 – current (on-going)  
**Value at Completion:** USD35.9m  
**Location:** Kenyasi, Brong Ahafo, Ghana

PROJECT SHEETS

## PROJECT: AHAFO TSF & INFRASTRUCTURE

### Construction work involved the following:

- Construction of Phase 1 & 2 Tailing Storage Facility
- All TSF Phases up to 7+8 completed
- 390 Ha tropical rain forest bush clearing (up to Stage 7&8).  
This is only for the basin of the TSF
- 1 400 Ha outside embankments bush clearing
- 1,000,000 m<sup>3</sup> Topsoil stripping – TSF Basin Area
- 3,500,000m<sup>3</sup> Topsoil stripping – Pits and Waste Dumps
- 600 000 m<sup>3</sup> unsuitable to Spoil

- 3,000,000m<sup>2</sup> Embankment Fill (TSF, Zone A&C)
- 996 000 m<sup>3</sup> Borrow to fill
- 117 000 m<sup>3</sup> Cut to Fill
- 40 000 m associated pipe work
- 3,900,000 m<sup>2</sup> soil liner
- 2,000,000 m<sup>2</sup> HDPE lining

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:** Boteti Mining  
**Consulting Engineer:** N/A  
**Contract Period:** August 2011 – December 2014  
**Value at Completion:** PULA815m  
**Location:** Botswana

PROJECT SHEETS

## PROJECT: AK6 OPEN CAST MINING KAROWE

### Construction work involved the following:

- Extract a total of 15,000,000 BCM's of ore and waste during the 3 year contract in accordance with the agreed mine plan
- Current Mine Plan – 1,100,000 tonnes per month (2014)
- The open pit mining works include:
  - Clearing and grubbing, topsoils and overburden removed at open pit, ore stockpile areas and waste dump area
  - All pre-splitting, drilling and blasting activities for the pit
  - Excavating, loading, hauling of ore to the processing plant and ROM stockpile and waste to the waste dumps
  - Feeding ore from ROM stockpile to primary crusher at a rate of 400 tonnes per hour
  - Ancillary activities including haul road maintenance and pit de-watering
  - Planning orderly and efficient execution of the Works
  - Raising of existing tailings dam walls
  - Provision of all diesel and explosives for the operation

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:**  
**Consulting Engineer:**  
**Contract Period:**  
  
**Value at Completion:**  
**Location:**

Government of Botswana  
Bigen Africa Services  
November 2012 – November  
2014  
PULA1.4b  
Botswana

PROJECT SHEETS

## PROJECT: NORTH SOUTH CARRIER

### Construction work involved the following:

- 89,000m of 1.2m dia Steel Pipeline
- 89,000m Gravel Maintenance Road
- 39,000m<sup>3</sup> Structural Concrete work including:
- 2 x 30 MI Reservoirs
- 1 x Pump Station
- 1 x Feeder Tank
- 6,100m<sup>3</sup> Concrete in Stormwater Drifts

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:**  
**Consulting Engineer:**  
**Contract Period:**  
**Value at Completion:**  
**Location:**

Vale / Odebrecht  
Golder Associates  
July 2013 – July 2014  
ZAR200.8m  
Tete, Mozambique

## PROJECT: VALE TAILINGS STORAGE FACILITY

PROJECT SHEETS

### Construction work involved the following:

- Raising two dam walls of the existing Stage 1 Tailings Storage Facility by 7m each
- Total fill required for both dam walls is 1 025 000 m<sup>3</sup>
- Construction of a new spillway using 5200 m<sup>3</sup> of gabion baskets and reno mattresses
- Welding of 42500 m<sup>2</sup> LLDPE geomembrane on the Northern Embankment upstream slope
- 33 000 m<sup>3</sup> of riprap channels and slope protection layers

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:** HUSAB JV  
**Consulting Engineer:** AMEC  
**Contract Period:** November 2012 – August 2014  
**Value at Completion:** ZAR258.4m  
**Location:** Swakopmund, Namibia

PROJECT SHEETS

## PROJECT: HUSAB

### Construction work involved the following:

- Internal plant roads
- Maintenance and Service Roads
- Engineered terraces for the ROM complex structures
- Storm water Drainage
- Security Fencing
- Sewer reticulation
- Tailings delivery pipeline trench
- Crusher building decline bulk excavations
- Fibre optic ring main
- Process Ponds

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:** Konnoco Mine  
**Consulting Engineer:** DRA Minerals  
**Contract Period:** August 2010 – November 2013  
**Value at Completion:** USD11m  
**Location:** Chillilabombwe, Zambia

## PROJECT: KONKOLA NORTH COPPER MINE

PROJECT SHEETS

Construction work involved the following:

### Early Works

- Re-routing of Konkola Township Access road and existing Raw Water Pipeline
- East Decline Box Cut
- Noise Protection Berm

### Bulk Earthworks and Infrastructure Development

- Construction of roads and terraces for various ventilation shafts and tailings dam
- Construction of storm water dam, settling dams and clear water dam
- Construction of storm water reticulation on site

### Tailings Dam

- Main Tailings Storage Facility and access road
- Return water Dam and Storm Water Dam, installation of drainage pipework and line of the dam with HDPE liner as well as construction of spillway

### Phase 2, Bulk Earthworks

- Construction of Konkola Village access road
- Completion of noise protection berms
- Construction of storm water reticulation on site
- Landscaping and embankment protection, plant terraces

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:**  
**Consulting Engineer:**  
**Contract Period:**  
**Value at Completion:**  
**Location:**

Anglo Gold Ashanti  
SRK Consulting Engineers  
Nov 2010 – June 2013  
USD 62.0m  
Ghana

## PROJECT: FORECARIAH HAUL ROAD

PROJECT SHEETS

### Construction work involved the following:

- Construction of Section 4 - Dansay to Dambaya(15 km) and Section 5
- Dambaya to Yomboyeli (13,6 km) of the Yomoyeli to Conta Port Haul Road in the Forecariah district of Guinea.
- Additional works on Sections 1, 2 & 3 included repairs and completion of 7km in Section 3.
- Final Volumes included:

#### Section 1

- Site clearance – 1,050,029 m<sup>2</sup>
- Bulk earthworks – 26,329 m<sup>3</sup>
- Layerworks – 159,160 m<sup>3</sup>
- Stormwater drainage – 326 m

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:**  
**Consulting Engineer:**  
**Contract Period:**  
**Value at Completion:**  
**Location:**

Anglo Gold Ashanti  
SRK Consulting Engineers  
Nov 2010 – June 2013  
USD 62.0m  
Ghana

## PROJECT: FORECARIAH HAUL ROAD – continue

PROJECT SHEETS

**Construction work involved the following:**

### Section 2

- Site clearance – 152,800 m<sup>2</sup>
- Bulk earthworks – 32,549 m<sup>3</sup>
- Layerworks – 39,360 m<sup>3</sup>
- Earthworks – 5,252 m<sup>3</sup>
- Formwork – 1,060 m<sup>2</sup>
- Concrete – 680 m<sup>3</sup>
- Reinforcing – 32 T

### Section 3

- Site clearance – 350,707 m<sup>2</sup>
- Bulk earthworks – 27,444 m<sup>3</sup>
- Layerworks – 51,947 m<sup>3</sup>
- Bridge work at Section 3

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:**  
**Consulting Engineer:**  
**Contract Period:**  
**Value at Completion:**  
**Location:**

Anglo Gold Ashanti  
SRK Consulting Engineers  
Nov 2010 – June 2013  
USD 62.0m  
Ghana

## PROJECT: FORECARIAH HAUL ROAD – continue

PROJECT SHEETS

**Construction work involved the following:**

### Section 4 - 15 kms

- Site clearance – 881,987 m<sup>2</sup>
- Bulk earthworks – 312,356 m<sup>3</sup>
- Layerworks – 99,224 m<sup>3</sup>
- Storm water drainage – 572 m
- Layerworks – 90,131 m<sup>3</sup>
- Storm water drainage – 408 m

### Section 5 – 13.6 km

- Site clearance – 806,168 m<sup>2</sup>
- Bulk earthworks – 129,455 m<sup>3</sup>

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:**  
**Consulting Engineer:**  
**Contract Period:**  
**Value at Completion:**  
**Location:**

Millennium Challenge Account  
Jeffares & Green  
June 2011 – June 2013  
USD35.5m  
Nacala, Mozambique

PROJECT SHEETS

## PROJECT: REHABILITATION OF NACALA DAM

### Construction work involved the following:

- Establishment of camp and plant on site
  - Accommodation of traffic on public roads
  - Construction of the following:
    - Road works & Bridges
    - Earth Dam and Concrete Dam Walls
    - Retaining Walls
    - Spillway Structure
    - Outlet Pump house
    - Mechanical & Electrical Services
  - Dealing with water, the existing dam will not be drained but levels are to be lowered accordingly throughout the contract
  - Maintenance of the works
  - Major Quantities Include:
- Concrete - 33 000m<sup>3</sup>
  - Rebar - 2100T
  - Hard excavation - 52 500m<sup>3</sup>
  - Cut and borrow to fill - 23 200m<sup>3</sup>
  - Intermediate excavation - 34 800m<sup>3</sup>
  - Sonic drilling - 1423m
  - Rotary core drilling - 17420m
  - Percussion drilling - 2044m
  - Formwork surface finish - 7739m<sup>2</sup>

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:**  
**Consulting Engineer:**  
**Contract Period:**  
**Value at Completion:**  
**Location:**

Anglo Gold  
SRK Consulting Engineers  
November 2010 – June 2013  
USD74.5m  
Ghana

PROJECT SHEETS

## PROJECT: AGA IDUAPRIEM GREENFIELDS

### Construction work involved the following:

- Rehabilitation of ITSF and various old PHS
- Earthworks and Civil Engineering Services and ancillary works for a Tailings Storage Facility inclusive of:
- Residue System
- Overland Pipework
- Clear and Grub 202.4ha
- Unsuitable and Topsoil 2.3m m<sup>3</sup>
- Fill 3.3m m<sup>3</sup>
- HDPE 1.58m m<sup>2</sup>

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:**  
**Consulting Engineer:**  
**Contract Period:**  
**Value at Completion:**  
**Location:**

Anglo Gold Ashanti  
N/A  
January 2012 – March 2013  
USD13.5m  
Ghana

PROJECT SHEETS

## PROJECT: OBUASI

### Construction work involved the following:

- Footprint Reduction Works
- Clearing and Grubbing
- Removal of Topsoil and spoil material
- Construction of Haul Road, Roads and Terraces
- Construction of Dams and pollution control structures
- Installation Service
- General Earthworks and Maintenance
- Airport Access Road
- Rehabilitation and Upgrade of Access Road
- Raw Water Dam
- Installation of a suitably sized (680 000 m<sup>3</sup> ) return water dam (RWD) at the Sansu Tailings Storage Facility (TSF)

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:**  
**Consulting Engineer:**  
**Contract Period:**  
**Value at Completion:**  
**Location:**

African Minerals  
Worley Parsons  
March 2010 – June 2011  
USD157.6m  
Sierra Leone

## PROJECT: TONKOLILI LUN SAR HAUL ROAD AND RAIL LINE



### Construction work involved the following:

- Tonkolili Lunsar Haul Road and Rail Line
- 40km of alignment, including:
- Clearing and grubbing
- Cut to spoil
- Cut and fill
- Establish borrow pits
- Borrow to fill
- Formation of v-drains
- Rainwater management (culverts)
- Construction over a number of river crossings
- General earthworks 7 000 000m<sup>3</sup>
- Production rate 50 000m<sup>3</sup> /day

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



**Employer:** Vale  
**Consulting Engineer:** Aurecon  
**Contract Period:** May 2010 – June 2011  
**Value at Completion:** ZAR350m  
**Location:** Tete, Mozambique

PROJECT SHEETS

## PROJECT: MOATIZE WATER SUPPLY PROJECT TETE PIPELINE

### Construction work involved the following:

- Moatize Coal Pipeline Infrastructure
- Supply and Construction of the following 7 Water Systems at the Tete Coal Mine:
  - Bulk Water Supply, Potable Water, Fire Water, Process Water, Process Waste Water, Oil Water Treatment. Dewatering System, Tailings Dam and Sewer System.
- In summary the project comprises the following :
  - 140 000m of Steel Pipe, diameters ranging from 100mm to 1200mmm.
  - 6 No Pumpstations comprising 65 Pumps and 5 Boreholes
  - Over 500 Valves incl 36 Actuated Valves
- Over 400 Stainless Steel Expansion Joints
- Fire fighting equipment incl Fire Hydrants, Hose boxes and Water Cannons
- 5,000m of Sewer Pipeline and over 100 Manholes
- All related Electrical and Instrumentation Infrastructure
- Concrete Plinths – 9000m<sup>3</sup>

# ROADS & EARTHWORKS/DAMS/MINING EXPERIENCE



<b>Employer:</b>	Civil Aviation Authority of Botswana
<b>Consulting Engineer:</b>	Naco / SSI Airport Consultants JV
<b>Contract Period:</b>	May 2008 – March 2011
<b>Value at Completion:</b>	PULA325m
<b>Location:</b>	Gaborone, Botswana

PROJECT SHEETS

## PROJECT: SIR SERETSE KAMA AIRPORT

### Construction work involved the following:

- Temporary relocation of the runway threshold, together with the moving threshold and Precision Approach Path Indicator lighting to allow tie in of the runway extension at the existing threshold, as well as allow for the tie in of five other links from the taxiway
- Provision of foundations for new illuminated directional signage
- Ancillary works such as the installation of Meteorological equipment

# COMPANY CERTIFICATION

**EMPOWERLOGIC**  
Your Logical Empowerment Solution

Broad Based Black Economic Empowerment Verification Certificate

A Consolidated Verification Certificate Issued to

**WBHO Construction (Pty) Ltd**

**Level 2 Contributor**

**Measured Entity (Full List of Entities Listed on Page 2 of Certificate)**

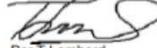
Company Name	WBHO Construction (Pty) Ltd
Registration Number	1983/011953/07
VAT Number	4650107529
Address	53 Andries Street Wynberg Sandton 2090

**BEE Status**

BBBEE Status Level	Level 2
Element Points Obtained	EO: 24 points; MC: 6.48 points; EE: 4.93 points; SD: 14.47 points; PP: 19.36 points; ED: 15 points; SED: 5 points
Black Ownership	58.6% Black Ownership; 14.93% Black Women Ownership
Value Adding Vendor	Yes
BEE Procurement Recognition	125%

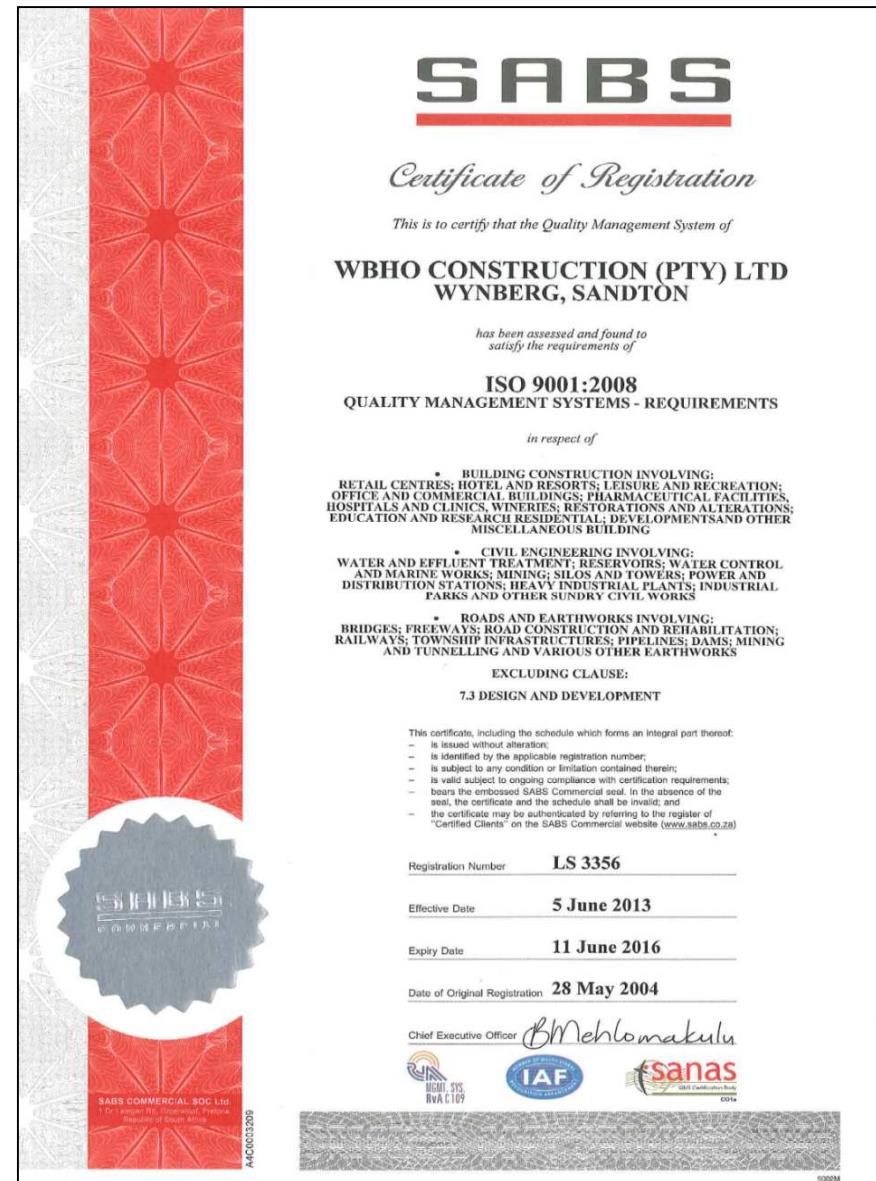
BEE Procurement Recognition Levels		
Level	Qualification	%
1	$\geq 100$ Points	135%
2	$\geq 85$ but < 100	125%
3	$\geq 75$ but < 85	110%
4	$\geq 65$ but < 75	100%
5	$\geq 55$ but < 65	80%
6	$\geq 45$ but < 55	60%
7	$\geq 40$ but < 45	50%
8	$\geq 30$ but < 40	10%
Non-Compliant	<30	0%

Issue Date: 11/09/2014  
Expiry Date: 03/09/2015  
Certificate Number: ELC4943-2GENBBCON replacing ELC4943GENBBCON  
Version: Final  
Applicable Scorecard: Construction - Generic Contractor  
Applicable BBBEE Codes: Construction Sector Codes Gazetted on 5 June 2009

**EmpowerLogic (Pty) Ltd**  
Reg. No.: 1995/000523/07  
BBBEE Verification Agency  
  
Per T Lombard  
Member - Verification Committee

**SANAS Accredited**  BVA018

This certificate is the result of an independent and impartial verification of the BBBEE status of the measured entity measured against the Codes of Good Practice on Broad Based Black Economic Empowerment. The objective of our verification is to verify the validity and accuracy of the BBBEE status represented by the measured entity. EmpowerLogic is not responsible for ensuring completeness of information provided to support the BBBEE status. This certificate must be validated at [www.bbbeeaccreditations.co.za/search/new](http://www.bbbeeaccreditations.co.za/search/new) before reliance is placed thereon. EmpowerLogic does not take responsibility for certificates that have not been validated.



# QUALITY ASSURANCE

WBHO in its motto "Construction is our business" signifies the concept of a focused company which concentrates on providing its customers with a quality product. To this end the group mobilizes its management skills and uses its resources in the most efficient and cost effective manner to produce projects of the required standard and quality.

Quality control and using best construction practice are core activities of WBHO. In order to reinforce this philosophy the group has become ISO 9001: 2000 accredited.

## **Quality Control Objectives:**

- To deliver our clients the standard of quality specified in the contract and to exceed these standards where possible.
- To create and maintain a culture of quality within the group.
- To ensure that all our employees are trained in quality assurance and that this training is ongoing at all levels.
- To meet all legal requirements in respect of quality.
- To provide the resources necessary to achieve the required level of quality.
- To ensure that quality control mechanisms are being efficiently and effectively applied at all times.
- To provide documentary evidence of all quality control measures.
- To ensure that all consultants, suppliers, subcontractors and others who are involved in our projects meet the required quality standards.
- To continually review and implement quality control and best practices procedures.
- To seek feedback from our clients and consultants as to the level of quality delivered.

WBHO Construction (Pty) Ltd acknowledges its 'duty' to meet the client's requirements, in all respects and as such stands by a Quality

Assurance Management System in line with ISO 9001 - 2000.

WBHO became certified ISO 9001 – 2000 system throughout the company, and has gained accreditation on 28th May 2004.

We define quality as the totality of features and characteristics of a service that bear on its ability to satisfy a given need.  
It is "conformance to requirements".

We understand the meanings and consequences of 'economic quality', 'conformity', 'compliance', quality management' etc.

Our quality system sets out the organisation's structure, responsibilities, activities, resources and events that together provide organized procedures and methods of implementation, to ensure the capability of the organisation to meet quality requirements.

## **Our quality assurance system embraces :**

### **Management Responsibility;**

- Design Control;
- Documentation & Data Control;
- Purchasing;
- Process Control;
- Inspection & Testing;
- Corrective & Preventative Action;
- Handling, Storage, Packaging, Preservation and Delivery;
- Records;
- Internal Audits;
- Training, etc.



THE INTERNATIONAL CERTIFICATION NETWORK

# CERTIFICATE

IQNet and  
DQS GmbH Deutsche Gesellschaft zur Zertifizierung von Managementsystemen  
hereby certify that the company

**Roads & Earthworks RSA and WBHO Pipelines**  
**Divisions of WBHO Construction (Pty) Ltd**

53 Andries Street  
Wynberg, Sandton  
South Africa

has implemented and maintains an Environmental Management System.

**Scope:**

"WBHO Roads and Earthworks RSA" and "WBHO Pipelines" are concerned with activities related to the construction of bridges, freeways, roads and rehabilitation, railways, township infrastructure, pipelines, dams, mining and tunneling and various other earthworks within the Republic of South Africa

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

**ISO 14001 : 2004 + Cor 1 : 2009**

Date of certification 2013-05-06

Valid until 2016-05-05

Registration Number: DE-505795 UM



*M. Drechsel*

Michael Drechsel  
President of IQNet

*G. Blechschmidt*

Götz Blechschmidt  
Managing Director of DQS GmbH



IQNet Partners:

AENOR Spain AFNOR Certification France AIB-Vinoppte International Belgium ANC E-SIGE Mexico APCER Portugal CCC Cyprus CISQ Italy CQC China CGM China CGS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany DS Denmark FCAV Brazil FONDONORMA Venezuela ICONTEC Colombia IMNC Mexico INNORI Tunisia Inspecta Certification Finland IRAM Argentina JQA Japan KFO Korea MIRTEC Greece MSZT Hungary Nemko AS Norway NSAI Ireland PCBC Poland Quality Austria Austria RR Russia SII Israel SIG Slovenia SIRIM QAS International Malaysia SQS Switzerland SRAC Romania TEST St Petersburg Russia TSE Turkey YUGS Serbia  
IQNet is represented in the USA by: AFNOR Certification, CISQ, DQS Holding GmbH and NSAI Inc.

\* The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under [www.iqnet-certification.com](http://www.iqnet-certification.com)

PwC hereby certifies that

# WBHO Construction (Pty) Ltd - North Division

53 Andries Street, Wynberg, Johannesburg, 2012

Has established and applied a management system for

*WBHO Construction North Division is involved with all major scale construction activities, civil engineering works, as well as roads and earthworks to the various industries.*

*Excluding Roadspan and Edwin Construction (Roads and Earthworks)*

In accordance with the requirements of OHSAS 18001:2007  
(This certificate to be read with the attached addendum)

**Certificate Registration Number: 800575/OHS02**

**27 September 2010**

Date of original certification

**22 January 2017**

Certification valid until

*(Subject to successful surveillance assessments)*

**23 January 2014**

Date of certificate issue

*Alison Ramsden*

Alison Ramsden  
Director  
PricewaterhouseCoopers  
Certification (Pty) Ltd.  
Company Reg. No.: 2012/084504/07  
2 Eglin Road, Sunninghill, 2157, South Africa  
Trading at 32 Ida Road, Menlo Park, Pretoria



# ENVIRONMENTAL

WBHO Construction believe in the constitutional right of all employees, clients and communities to exist and work in an environment conducive to sustainable development and is committed to the highest standards of environmental protection throughout all phases of construction by upholding the basic principles of environmental management.

As such, WBHO Construction fully acknowledges a moral and legal responsibility for the safeguarding of the environment and the well being of all those affected by the Company's construction activities.

To accomplish our commitment, we have a designated Environmental Department which will be implementing the ISO 14 001 management system throughout the company in the beginning of 2009 and we strive to have ISO 14 001 accreditation by the end of 2009.

We are a member of the Green Building Council of South Africa where we support their mission that all buildings should be designed, built and operated in an environmentally sustainable way.

We as a company will ensure that the basic principals of environmental management are adhered to, as well as specifications in the Environmental Management Plan (EMP) of the Client and the Record of Decision (ROD) from the Department of Environmental Affairs and Tourism (DEAT). We understand that both documents are legally binding.

**Basic principals of environmental management in construction pertain to the following:**

- Legal compliance through implementing the EMP and other relevant legislation.
- Education and training of all our employees through environmental inductions, awareness training and environmental toolbox talks.
- Minimizing our construction footprint by proper planning of access routes and construction camps.

- Keeping our footprint to the minimum when it comes to the clearing of vegetation. Plants and trees will only be removed when the legal required permits are in place.
- Having designated storage and stockpiling areas which will be managed in accordance with the clients' environmental management plan (EMP).
- Construct plant workshops with all possible mitigation measures in place to manage hydrocarbons as well as work procedures and method statements for service crews and trucks to service plant on site.
- Construct batch plants with sedimentation ponds so that runoff from the batching process will not contaminate soil and surface water.
- Designated environmental officers will be appointed on projects.
- Waste management will be undertaken in such a way that we will minimize the amount of construction rubble and where possible recycle rubble, by putting it through crushers and using it as backfill. Where practically possible, waste should be separated into building rubble, wood, scrap metal, glass and domestic waste.
- Hazardous waste will be handled in accordance with regulations.
- We will reduce and where possible, eliminate and prevent any harmful effects on the environment caused by air, water and noise pollution.
- Spill procedures will be implemented and the necessary training of personnel will take place.
- Adequate ablution facilities and designated eating areas will be made available to all our employees
- All contracted companies and employees will adhere to WBHO environmental standards and legal requirements.
- We as a company will liaise openly with all interested and affected parties.

WBHO will monitor and report on the effectiveness of our system on an ongoing basis to ensure continual improvement and compliance.

# HEALTH & SAFETY

## Introduction

Over the past years WBHO Construction have been actively involved in all the major types of Civil Engineering projects. These projects include WBHO has an integrated SHE system and programme which is water purification plants, diamond crushing plants, platinum concentrators, implemented on all projects. This system is continually being adapted to aluminium smelters along with a host of high profile mining and industrial projects. As a result these projects have pioneered new SHE systems and that it may be adapted to suit the needs and requirements which any Client procedures for the entire WBHO Group.

## Procedures and Performance Monitoring

WBHO has an integrated SHE system and programme which is implemented on all projects. This system is continually being adapted to meet new legal and industry requirements. The benefit of the system is that it may be adapted to suit the needs and requirements which any Client may require.

## Leadership and Commitment

Whether under OHS Act (85 of 1993) or under the MHS Act (29 of 1996), all senior management understand their legal and moral responsibility and have committed to ensuring a healthier and safer working environment.

This level of commitment is formalized into a proper appointment structure with the CEO remaining ultimately responsible.

Proof of this commitment can be seen in how the WBHO Group, have maintained negative trends in all injury rates, despite an increase in work load over the past few years

Performance monitoring is done by both project management and the dedicated full time SHE Department which continually assist, advise and enforce SHE related issues. In addition independent auditors from the industry are utilized annually to ensure that the current systems and standards are being adhered to.

The success of WBHO's SHE performance is further measured by the recognition of receiving a high number of top safety awards each year. Refer to attached lists.

- Statistic Schedule
- Achievement Schedule

## Policy and Strategic Objectives

SHE policy and strategic objectives are continually changing with new ideas and legal amendments. These changes are communicated to all levels by elected SHE representatives, project SHE meetings, regional and national SHE meetings and monthly management meetings.

The driving force behind the objectives, is to ensure that WBHO is the safest construction company within the industry, thus ensuring a safe and healthy working environment for all its employees. WBHO is confident that through continual communication and training that all SHE objectives will be met.

# COMPANY AWARDS

## WBHO AWARDS

WBHO has always strived to be the best construction company in Southern Africa and other areas in which we operate. "Rely on our ability" is the group's motto and through excellence WBHO has received many awards emphasizing the group's superior ability.

CROWN PUBLICATIONS BEST PROJECTS - WBHO has been awarded 3 Best Projects awards in 2013 - Projects Include Alice Lane Phase 1, Standard bank Head Office and Tweefontein Optimisation Project.

FULTON AWARDS - WBHO has been awarded a number of Fulton Awards in South Africa.

PMR AWARDS - WBHO has been judged the best construction company in South Africa for the past 13 years.

SUNDAY TIMES TOP 100 COMPANIES - WBHO has been included in the Royal Companies ranks, thanks to our consistent performance over the past 10 years.

SAFETY AWARDS - WBHO participated in the MBA Regional and National competitions in 2013.

Category R500 Million Plus: - Newtown Junction - 3rd place (Regional)

Category R150 Million - R300 Million: - 90 Grayston drive - 1st place (Regional)

- Lynwood Bridge Phase 3 - 3rd place (Regional)

- FAW Truck Assembly Plant - 1st place (Regional)

Category R75 Million - R150 Million: - The Club Phase 4 - 2nd place (National)

- NMMU Bussiness School - 1st place (Regional)

Category R15 Million - R75 Million - 197 main road - 3rd place (Regional)

Large plant yards - WBHO Plant Yard - 1st (Regional)

- WBHO Cape Yard - 3rd (National)



**Civil Engineering Contractors**  
Tweefontein Optimisation Project

**Building Contractors**

Alice Lane – Phase I  
Santam  
Silo 1 & 2  
Standard Bank

A2 Building Contractors

*Highly Commended*

Alice Lane – Phase I

Main Contractor  
**WBHO Construction**

Client  
**ABLAND/Pivotal/Standard Bank**

Project Team  
**Paragon Architects, C3, L&S Consulting, Quanticost Quantity Surveyors, WBHO Construction, Taemanne**

Architect  
**Paragon Architects**

Principal Agent  
**Paragon Architects**

Project Manager  
**ABLAND**

Quantity Surveyor  
**Quanticost Quantity Surveyors**

Publisher:  
**CROWN**

Editor:  
**CONSTRUCTION WORLD**

*J Warner*

*WJ du Plessis*

E AfriSam Innovation Award  
for Sustainable Construction

*Winner*

**Standard Bank**

Main Contractor  
**WBHO Construction**

Client  
**The Standard Bank of South Africa**

Architect  
**Grosskopff Lombart Huyberechts & Associates**

Principal Agent  
**Grosskopff Lombart Huyberechts & Associates**

Quantity Surveyor  
**Norval Wentzel Steinberg**

Consulting Engineer  
**Pure Consulting**

CEO AfriSam:  
*Stephan Olivier*

Publisher:  
**CROWN**

Editor:  
**CONSTRUCTION WORLD**

*J Warner*

*WJ du Plessis*

