

2014

APEC

Consulting Engineers

Civil
Structural
Geotechnical
Hydraulic
Environmental
Renewable energy

Riaan Swiegers

SUBMITTED TO VISUAL INTERNATIONAL

Civil & Structural Engineering Services as part of a Multi-disciplinary team of Built Environment Professionals


- 1. REFERENCE LIST**
- 2. KEY PERSONNEL**
- 3. PRACTICE PROFILE**

1. REFERENCE LIST

Client	Contact Person	Contact Nr	Project	Type	Project value
Department of Public Works	Marius Taljaard	021 402 2292 079 886 3777	Submarine Escape training Simulator	<u>Structural</u> Concrete Steel	R 40 million
Visual International	Peter Grobbelaar	021 919 8954 082 373 3665	Stellendale	<u>Civil</u> Roads & Municipal Services	R 50 Million
Mutual Austin Safe & Security	William Simpson	012 803 6051 083 245 2805	Transnet: NMPPP SASOL	<u>Structural</u> Steel Blast Resistant Doors 7 Windows	R 10 Million
Faircape Dairies	Philip Brockman	021 557 7600 084 403 9080	Biogas & Cow Housing Renewable Energy Project	<u>Civil &</u> <u>Structural</u>	R 18 Million
Master Cargo	Lionel Van Rensburg	021 083 290 7402	Offices & Operations Centre	<u>Civil &</u> <u>Structural</u>	R 10 Million
Stefanutti Stocks	Peter Leppan	021 386 6336 083 658 5521	Victoria Hosp Lift Shaft	<u>Structural</u> Concrete	R 3 Million



2. KEY PERSONNEL

			
Person	J. A. Swiegers	ID Nr	5603155050087
Tertiary Education	University of Stellenbosch	Hons-B.Eng	Year 1979
Learned Institutions	Institution of Civil Engineers	MSAICE	Member Nr. 13336
ECSA Registration	Structural & Civil	Pr. Eng	Reg Nr. 880109
<u>Experience</u>	<u>Community Involvement</u>		
Environment	Chair the Bellville 2000 Environmental Advisory Board		
Professional	Registered as a Mentor for Candidate Engineers with ECSA		

3. PRACTICE PROFILE

Associated Professional Engineering Consultants (PTY) LTD
Registration Number 1998/022787/07
trading under the Registered Shortened Name
APEC (PTY) LTD
previously known as Swiegers & Associates

Postal Address

P. O. Box 6019
7538 Welgemoed

Physical Address

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Protea Valley
7530 Bellville

Telephone Number

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(+27) 082 5686 509

Facsimile Number

(+27) 086 518 9705

E-mail

swiegers@iafrica.com

www.apec-za.co.za

BEE Status

Level 4 – 100% Bee Contributor

Directors

J. A. Swiegers Pr. Eng.

Identity Number : 560315 5050 087

Professional registration number with ECSA : 880109

MISSION STATEMENT

Sustainability and Constructability through True Simplicity

APEC subscribes to the principles of a project orientated service in which we endeavour to harmonise the vision and resources of our **clients** with environmental resources and constraints to establish a balanced, mutually acceptable and functional system that is constructable, affordable and evident of true simplicity.

APEC acknowledges that the full potential of the South African people forming the basis of our primary resource, **personnel**, will only be deployed through open and equal opportunities in education, continued training and employment to serve as a solid foundation for a better future for all.

The multicultural South African **environment** which is reflected by APEC is only sustainable on a basis of respect for each other as well as high ethical and moral values through which we may freely serve one another.

BUSINESS PHILOSOPHY AND STRUCTURE

APEC is operated according to the business structure of a small enterprise operated in a network of small to medium enterprises to facilitate capacity building, reliability and technology transfer without sharing in the risks

and liabilities which are typical of the cyclical nature of the economic sector in which consulting engineers operate.

Small enterprise is conducive to development of personal engineering- and business skills as well as efficiency through early but controlled exposure to the full extent of the profession.

APEC places a high premium on the maintenance of a strong cash based operation to avoid the burden of borrowed capital and maintains an ethic that taxes must be paid by all for the mutual benefit of all.

All our agreements with clients are based on the standards published by ECSA.

APEC maintains professional indemnity insurance of R2 million and has active contingency measures and procedures in place in the event of unforeseen interruption of service.

KNOWLEDGE BASE AND TECHNOLOGY

The principals of APEC have since entering consulting engineering subscribed to the principles of continued education, training and development of the knowledge base of the consulting engineering sector as one of the strengths of the growing economy of South Africa.

Although information technology and electronic computation has led to an exponential increase in information and technology at hand, APEC maintains a conservative policy of design and analysis based on basic principles supported by a well equipped electronic office.

We further subscribe to a philosophy that each Director and Shareholder must develop broad based personal skills and knowledge in the field of business of the Practice.

RELEVANT EXPERIENCE OF KEY PERSONNEL

J. A. SWIEGERS PR. ENG. ECSA REGISTRATION NUMBER 880109

CURRENTLY THE PRINCIPAL OF APEC (PTY) LTD

Personal information

Date of Birth : 15 March 1956

Place of Birth : De Aar

Nationality : RSA

Marital Status : Married (3 children)

Education & Training

School : Paul Roos Gymnasium, Stellenbosch

Matriculate : 1973

Military Training

Artillery School, Potchefstroom 1974

University

Stellenbosch 1975 – 1979

Degree: Hons.-B.Eng (1979)

Major Fields : Geo-technical -, Hydraulic -, Structural -, Transportation - and Traffic Engineering

Professional Associations and Institutions

Member of the South African Institution of Civil Engineers

Projects

November 1990 to date

RENEWABLE ENERGY PROJECTS

Cape Town : Faircape Biogas.

Namibia : CRPG Solar Farm and Hydro-electrical Pumped Storage Scheme.

SA Navy : SETS - Solar PV and Hotwater Systems.

QUARRYING & MINING

Idwala Lime, Daniëlskuil : Structural and Civil Engineering Works for a Primary Gyratory Crusher Project and Conveyors

INTEGRATED LIFESTYLE DEVELOPMENTS

Glenrosa Country Estate

INTEGRATED RESIDENTIAL VILLAGES (Civil, Structural and Project Management)

Stellendale in Kuilsrivier

BUILDINGS***New buildings***

Chamonix underground cellar

Haute Cabrière underground cellar

Mont Rochelle pressing cellar

Chamonix warehouse

Belgravia Villas : Sectional title apartments

Uva Mira underground winery

Aajaltoun Winery : Beirut, Lebanon

Public bathrooms : Khayelitsha Informal Settlement

Clanwilliam : Place of Safety

Glenrosa Winery

Pierre Jourdan Cellar

Vrede Winery
The Vineyards : Tijgerwijn Residens
Several new houses
Forums (place of assembly) at Primary Schools
Tijgerwijn Hotel
SA Navy : Submarine Escape Training Simulator

Alterations and additions to existing buildings

J. Schipper offices, workshop and parking garage
Robertson Hospital
Hermanus Hospital
Grabouw CHC
Paarl Police Station
Several houses
Steel Structures
Stainless Steel works for Inox Arabia in Abu Dhabi and India
Pierre Jourdan Cool Storage

GEO-TECHNICAL REPORTS

Site - and foundation investigations

Underground cellars
Earth dams : Montagu (Klipkuil), Wellington (R. A. Camerer, Glenrosa), Franschhoek (Chamonix, Mont Rochelle)
Roads : Penhill, Langebaan, Gordon's Bay, Kuils River
Houtbay Police Station
Tijgerwiin Hotel Suite

Earth dams

Design : Franschhoek (Chamonix, Mont Rochelle), Wellington (Glenrosa)
Reconstruction : Montagu (Klipkuil), Wellington (R. A. Camerer), Ongelegen Dam (MC Loock),

Road pavements

Penhill, Langebaan, Gordon's Bay, Kuils River and Paarl Police Station
Belhar Road
Saxdownes Road

ROADS

Belhar Road – Stellendale
Saxdownes Road - Stellendale
Relocation, design and construction of Oostewal Road between Langebaan and West Coast National Park through Myburgh Park.
Township roads in Langebaan, Gordon's Bay and Kuils River.
Reconstruction of Laurimer Road in Penhill.

TRAFFIC IMPACT REPORTS

Traffic impact assessment for Polkadraai Industrial Park, Kuils River.

Traffic impact assessment of Durbanville Private Hospital.

Access to SBDC Complex from Lansdowne Road.

RESIDENTIAL AND INDUSTRIAL TOWNSHIPS

Stellendale : 1500 Living units

Langebaan, Myburgh Park : 1100 erven

Gordon's Bay, Gordon Heights : 106 erven

Polkadraai Industrial Park : 80 ha

Durbanville, Berghshoop : 87 erven

Various smaller developments

SEWERAGE AND SOLID WASTE

Small appropriate technology systems

Ganzekraal

Berghshoop

Uilenkraalsmond : Sanddown Estate

Franschhoek : Chamonix, Haute Cabrière

Stellenbosch : Uva Mira winery

Khayelitsha : Sand & Rag Traps on Main Sewers

HIDROLOGY, STORM WATER AND RIVER HYDRAULICS

Polkadraai canal

Berg River flood lines near Wellington : Glenrosa pump station

Uilkraal River near Uilenkraalsmond : Sanddown Estate

Breede River at Silverstrand, Robertson

Storm water management : Myburgh Park, Polkadraai Industrial Area

Sediment management : Myburgh Park / Langebaan Lagoon

Township systems

WATER SUPPLY AND DISTRIBUTION

Township systems

Stellendale

Myburgh Park Langebaan including pressure booster pumps

Gordon Heights

Berghshoop

Ganzekraal

Uilenkraalsmond : Sanddown Estate

Wellington : Glenrosa

Various smaller developments

Bulk Water Main adjustments in Belhar – and Saxdownes Road

WINERIES

Franschhoek : Chamonix, Haute Cabrière, Mont Rochelle, Pierre Jourdan

Stellenbosch : Uva Mira (not built)

Beirut, Lebanon : Aajaltoun (not built)

Wellington : Glenrosa (not built)

Worcester : Vrede (not built)

REHABILITATION OF BUILDING COMPLEXES

20 Blocks of flats in Nooitgedacht / Bishop Lavis for the City of Cape Town

Paarl Police Station

Table View Police Station (Civils only)

Rathfelder Complex : Communicare

Khayelitsha CHC

PRIVATISATION OF MUNICIPAL SERVICES

Meter reading for City of Tygerberg

Communal Ablution Facilities : Khayelitsha

PROJECT MANAGEMENT

Gordon Heights Properties (Pty) Ltd

Rehabilitation of Municipal Flats

Saailand in Khayelitsha

Stellendale

May 1984 to October 1990

In the service of Vorster Van der Westhuizen & Partners, Bellville (later Kwezi V3, currently WorleyParsons)

March 1989 to October 1990 : Associate in Hydrology and Storm water drainage

Townships in Worcester, Tulbagh, Clanwilliam, Lutzville, Vredendal, Langebaan, Velddrif and Vredenburg

Flood line Reports

Berg river : Paarl Sewagae Treatment Works, Mbekweni Structure Plan, Franschhoek Structure Plan, Glenrosa Pumpstation.

Breede River : Worcester, Robertson - Silverstrand

Mosselbank River : Kraaifontein, Durbanville - Uitkamp.

Diep River : Malmesbury - Abbotsdale

Regional storm water systems in Blackheath, Kraaifontein, Paarl - Dal Josafat, Paarl - Mbekweni, Kuils River, Clanwilliam, Franschhoek, Sandbaai, Botrivier, Franskraal and Summer Greens - Milnerton. Involvement entailed the full spectrum from the preliminary stadium and concept development to the commissioning of the works.

Public transport termini at Elsiesriver - and Eikenfontein stations for the Metropolitan Transport Advisory Council, Cape Town. Complete involvement with the exception of construction. Act as project manager at Elsiesriver with Civil- and Structural Engineers, Architects and Quantity Surveyors forming part of the team.

Geo-technical surveys.

Road rehabilitation.

Earthfill Dam Embankments

Hydrology and Hydraulics of Dam for Dam Safety reports : Basil Newmark Dam (G4F), Dalweiding Stormwater(G10D), Paardenberg (G10D), Joubertina (L82D)

January 1980 to May 1984

In the service of Van Wyk & Louw Inc. (later Africon Engineering International currently Aurecon) as an Engineer in Training,

General experience in :

Airport development and construction : Johannesburg - and Windhoek Airports

Construction administration and supervision : SASOL II and III at Secunda

Bridge hydraulics : N3/7 and 8

Road-, Storm water drainage design and Construction : N3 Sections 7 and 8 and various primary-, secondary- and tertiary roads in the Orange Free State

Resort development : Mockesdam holiday resort near Bloemfontein

Civil structures : Bridge and culvert design for N3/7 and 8.

J. A. Swiegers Pr. Eng

for **APEC (PTY) LTD**

August 2014