

# SUMMARIZED C.V. OF CLAYTON COOK

## MSC ZOOLOGY (UP)

*Pr.Sci.Nat* (Zoologist) 400084/08

### Aspects of C.V. pertinent to Environmental Impact Assessments:

1. **Qualifications:**
  - 1989:** BSc. Botany and Zoology Majors (RAU)
  - 1990:** BSc. Hons Zoology (RAU)
  - 1996:** MSc. Zoology (University of Pretoria)  
Title of MSc.: Aspects of the Ecology and Breeding Biology of the Giant Bullfrog (*Pyxicephalus adspersus*)
  - 2010:** PhD Candidate on the Ecology of four geologically distinct pans in the Southern Kruger National Park with special emphasis on the amphibian biodiversity. (UJ)
2. **Present position:**
  - 2005-2010** Fulltime Specialist Faunal Consultant
  - 2008-2010** Wetland and Riparian Delineations (DWA Accredited)
  - 2004-2005** Part-time Lecturer in Zoology and Botany University of Limpopo.
  - 2009-2012** Participant and lead researcher in the W.R.C. project on the effects of acid rain on the frogs of the Kruger National Park
3. **Publications:**
  - 1998** The plight of the Giant Bullfrog in the Northern province. Research news; University of the North.
  - 1999** Sub-urban Bliss. An intensive survey on the habitat utilization of certain urban bird species. Ostrich.
  - 2000** Species accounts of the Giant and African Bullfrogs in the Frog Atlas.
  - 2001** Adaptive male parental care in the Giant Bullfrog *Pyxicephalus adspersus*. Journal of Herpetology. Vol. 35: No2.
  - 2002** State of the Rivers report for the Letaba River System.
  - 2002** Section on the Giant Bullfrog in the "The biodiversity of south Africa 2002. Indicators, trends and human impacts". Struik Publishers
  - 2003** Species accounts of *Pyxicephalus* in Frog Atlas of Southern Africa
  - 2006** Water Research Commission (WRC) report No. 1258/1/06 on "A Biophysical Framework for the sustainable utilization of wetlands in the Limpopo Province with Nylsvley as a reference model. VLOK, W<sup>1</sup>, Cook, C.L.<sup>1</sup>, Greenfield, RG, Hoare D, Victor, J and Van Vuren, JHJ.
4. **Conference presentations:**
  - Presented a paper on "Aspects of the Ecology and Breeding Biology of the Giant Bullfrog (*Pyxicephalus adspersus*)" at the Herpetological Association of Africa (H.A.A) Congress in Pretoria. 1992
  - Presented a paper on "Alternative Mating Tactics in the Giant Bullfrog (*Pyxicephalus adspersus*)" at the Z.S.S.A. Symposium in Pietermaritzburg. 1994
  - Presented a poster on "Kin recognition in the Giant Bullfrog *Pyxicephalus adspersus*" at the Z.S.S.A. Symposium in Grahamstown. 1995
  - Presented a paper on "Variations in reproductive success between two Highveld Bullfrog populations" (one breeding in a natural pan and the other in an artificial dam) at the 10<sup>th</sup> African Amphibian Workshop, Stellenbosch. 1999
  - Presented a poster on "Interspecific interactions amongst three coastal tadpole species" at

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- the Z.S.S.A. Symposium, Pietersburg. 1999
- Participant in Conservation Action Management Programme (CAMP) on South African frogs conducted by I.U.C.N Species Survival Commission. Determined current conservation status of Southern African Frogs. Cape Town. 1999
  - Participant in the Aquatic Biomonitoring for Water resource Managers and Personnel; Institute for Water Research, Rhodes University; Institute for Water Quality Studies, DWAF; Environment and Forestry Technology, CSIR.21-25 February, 2000.
  - Presented a paper on “Flow sensitive Trichoptera in a mountainous river system” at Inter-Science Symposium, University of the North. 2001
  - Presented a paper on “The ecological Integrity of the Magoebaskloof and Debengeni River Systems, Northern Province. South African Aquatic Science conference 2001.
  - Presented a paper on “The use of macroinvertebrates as a biomonitoring tool for wetlands using Nylsvley as a model”. South African Aquatic Science conference 2002,SASAQS Bloemfontein.

### 5. Employment and other Research Activities:

- 1991-2005** Monitored Giant Bullfrogs in the Midrand, Fourways, Boksburg, Benoni areas. Special emphasis on monitoring population fluctuations of two Highveld Bullfrog populations at Glen Austin and Witpoort Bird Sanctuaries in Midrand.
- 1997-2000** Environmental Impact Assessment of Sterkloop Casino Development Herpetological Survey 1997-98. EDP Consultants.
- 1997-1998** Specialist herpetological consultant involved in the Longmeadow Tsogo Sun Casino Development (Montecasino. EDP Consultants, Johannesburg.
- 1998** Leader of Longmeadow Bullfrog Rescue and Recovery Operation.
- 1998** Co-worker on A.D.U registered project on birds in the Northern Province.
- 1997-98** Research Assistant for Botany and Zoology Departments, University of the North: Limnological Research on the Kga-Selati, Groot Letaba, Debengeni and Magoebaskloof River Systems.
- Fish Population Dynamics of Tzaneen Dam
  - Parasitology collection and identification.
  - Water Chemistry and Analysis (AAS)
  - Benthos and fish diet identification (SASS5)
- 1997-98** Research into the distribution of the Natal Ghost Frog (*Heleophryne natalensis*) in the Northern Province.  
School and University Education on amphibian conservation (slide-shows, live exhibits).
- 1999** North-West Frog Atlas trip. Survey of frog species in North West Province. SAFAP.
- 1999-2003** Regional Organizer of Gauteng Province for South African Frog Atlas Project
- 2005-2006** Member of the EWT project on the Giant Bullfrog (*Pyxicephalus adspersus*)
- 2003-2006** Researcher on the macroinvertebrates as well as amphibian aspects of the Water Research Commission (WRC) report No. 1258/1/06 on “A Biophysical Framework for the sustainable utilization of wetlands in the Limpopo Province with Nylsvley as a reference model.
- 2007-2008** Member of the EWT African Grass Owl project (*Tyto capensis*)
- 2009-2012** Lead researcher on the Water Research Commission (WRC)project on the potential impacts of acid precipitation on the amphibian of the Kruger National Park

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### 6. ENVIRONMENTAL IMPACT ASSESSMENTS

#### MINING APPLICATIONS

<b>DATE</b>	<b>PROJECT</b>	<b>CONSULTANTS</b>
1992	Zoological Research Leader of Environmental Impact Assessment of Spitzkop Colliery (EIA)	COMRO
2001	Ecological Survey for proposed sand mining in the Sand River.	Gaia Earth Sciences
2007	Specialist Faunal Survey for the proposed sand mining activities in Zonderwater, Gauteng province	Index Environmental
2008	Specialist Faunal Survey for the proposed diamond mining activities in Cullinan, Gauteng province	Index Environmental
2008	Specialist Faunal Survey for the proposed Uranium mine, Beaufort West, Eastern Cape Province	Bohlweki SSI Environmental
2009	Specialist Faunal Survey for the proposed sand mining activities in Soshanguve, Gauteng province	Eckraal Mine
2009	Specialist Faunal Survey for the proposed sand mining activities in Bergwater, Gauteng province	Index Environmental
2009		
2009	Specialist Faunal Survey for the proposed diamond mining activities in Lichtenburg, North-West Province	Index Environmental

#### BASIC ECOLOGICAL AND HABITAT ASSESSMENTS

<b>DATE</b>	<b>PROJECT</b>	<b>CONSULTANTS</b>
2000	Ecological Survey for proposed new Millenium Park township, Limpopo Province	GAIA EARTH SCIENCES
2000	Ecological Status Report: Letaba Ranch. Limpopo Province	Munyai Mulaka Engineers
2000	Ecological Survey for proposed new Refilwe Thambe township. Limpopo Province	GAIA Earth Science
2001	Ecological Survey for re-opening of quarry at Mid-Letaba Dam. Limpopo Province	GAIA Earth Science
2001	Ecological Survey of open land adjacent to railway station, Letsitele. Limpopo Province	GAIA Earth Science.
2002	Ecological Survey of three farms in the Mooketsi Area. Limpopo Province	GAIA Earth Science.
2002	Ecological Survey of proposed low, medium, high cost housing in Burgersfort. Limpopo Province	GAIA Earth Science
2002	Ecological Survey of proposed Gogogo A & G villages. Limpopo Province	GAIA Earth Science.
2002	Ecological survey of Refilwe Tambo village. Limpopo Province	GAIA Earth Science
2005	Faunal and botanical survey for the proposed Witpoortje development. Gauteng Province	Singisa Environmental Partnership.

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2005	Faunal and botanical survey for the proposed Wilgeheuwel development. Gauteng Province	Singisa Environmental Partnership.
2005	Faunal and botanical survey for the proposed Zwavelpoort development. Gauteng Province	Rock Environmental
2008	Faunal and botanical habitat assessment for the proposed ATNS Delmas site. Gauteng Province	Seaton Thompson & Associates
2008	Faunal and botanical habitat assessment for the proposed Isano site. Gauteng Province	Seaton Thompson & Associates
2008	Faunal and botanical habitat assessment for the proposed ATNS Bapsfontein site. Gauteng Province	Seaton Thompson & Associates
2009	Faunal and botanical habitat assessment for the proposed upgrading of the D655 road, Bethal, Mpumalanga Province	Bohlweki SSi Environmental
2010	Faunal Survey for the proposed re-alignment of Centenary Way, Gauteng Province	Seaton Thompson & Associates
2010	Faunal Survey for the proposed Naturena Ext5	Seaton Thompson & Associates

#### **BULK WATER SUPPLY AND OTHER LINEAR DEVELOPMENTS (ROADS)**

<b>DATE</b>	<b>PROJECT</b>	<b>CONSULTANTS</b>
1999	Thabanche Water Supply; Specialist Faunal Survey; Limpopo Province	WSM Engineers
2000	Bulk Sewerage Line, Seshego: Specialist Faunal Survey; Limpopo Province	Gaia Earth Sciences
2000	Veldspaat Road Extension: Faunal and Herpetological Survey, Limpopo Province	Gaia Earth Sciences
2000	Bulk Sewer Line Pietersburg Extension 12: Faunal Survey. Limpopo Province	Gaia Earth Sciences
2000	Pietersburg Main Waterline Extension. Faunal Survey. Limpopo Province	Gaia Earth Sciences
2000	Sewer-line Extension: Dendron. Faunal Survey, Limpopo Province	Gaia Earth Sciences
2001	Ecological Survey for Mapela Bulk Water Supply. Limpopo Province	GAIA Earth Science
2001	Herpetological and Faunal Survey for Diepsloot Pipe Line. Gauteng province	Bohlweki Environmental.
2001	Ecological Survey for Bushbuckridge Bulkwater Scheme. Limpopo Province	GAIA Earth Science.
2001	Ecological Survey for proposed new water reservoir and Water Supply Acornhoek. Limpopo Province	GAIA Earth Science
2001	Ecological Survey for re-construction and upgrading of D385 Road, Nwanedi. Limpopo Province	GAIA Earth Science.
2001	Specialist Herpetological Survey for the Platinum Highway. Gauteng Province	Bohlweki Environmental.

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2001	Specialist Herpetological and Mammal Survey for proposed new Bullet Train, GAUTRAIN RAPID RAIL. Gauteng Province	Bohlweki Environmental.
2002	Specialist Faunal Survey for proposed new sewerage works and water lines for proposed new Burgersfort Township. Limpopo Province	GAIA Earth Science.
2002	Specialist Faunal Survey for the Donald Fraser road reconstruction.	GAIA Earth Science
2002	Ecological Survey on the upgrading and refurbishing of Cottondale-Islington road. Limpopo Province	GAIA Earth Science.
2002	Ecological Survey of the proposed Giyani Waterline Project. Limpopo Province	Faunal Galore Consultants
2002	Ecological survey of Mapela Waterline project. Limpopo Province	GAIA Earth Science.
2002	Ecological survey of Malale Village project. Limpopo Province	GAIA Earth Science.
2002	Ecological survey of Vaalwater Bulk water supply and borehole field. Limpopo Province	GAIA Earth Science.
2002	Ecological survey of Taaibosch Water Scheme. Limpopo Province	GAIA Earth Science.
2005	Faunal and botanical survey for the proposed Nigel pipeline development. Gauteng Province	Rock environmental.
2005	Specialist Faunal survey for the proposed Rand water pipeline from Midrand-Rustenburg, Gauteng Province	Bohlweki Environmental
2009	Specialist Faunal survey for the proposed Midvaal Rand water pipeline from , Gauteng Province	Seaton Thomson & Associates
2011	Specialist Ecological survey for the proposed Jiba Jiba road upgrade, Kwazulu-Natal	Thalo Environmental
2011	Specialist Ecological survey for the proposed Nlamabamkhosi road upgrade, Kwazulu-Natal	Thalo Environmental
2011	Specialist Ecological survey for the proposed Pharuka road upgrade; Kwazulu-Natal	Thalo Environmental
2011	Specialist Ecological survey for the proposed Umzinto road upgrade, Kwazulu-Natal	Enspire Environmental
2011	Specialist Ecological survey for the proposed Amahlongwa road upgrade, Kwazulu-Natal	Enspire Environmental

#### **ESCOM TRANSMISSION AND DISTRIBUTION POWERLINES**

2005	Faunal and botanical survey for the proposed 50km King Bird distribution power line from Spencer to Venulu in the Mopane and Vhembe districts of the Limpopo province..	Wadma Consulting
2007	Specialist Faunal survey for the proposed Posedidon-Grassridge 400kv powerline: Eastern Cape	Bohlweki Environmental
2008	Specialist Faunal survey for the proposed Vryburg Substation as well as loop-in-line, North-West Province	Bohlweki Ssi Environmental
2008	Specialist Faunal survey for the proposed Witkloof-Luthuli powrline, Mpumalnaga Province	Bohlweki Ssi Environmental

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2009	Specialist Faunal Survey for the proposed Escom College to Ivory Park Powerline, Gauteng Province	Bohlweki Ssi Environmental
2009	Specialist Faunal Survey for the proposed Brynorth to Lulamisa powerline, Gauteng Province	Bohlweki Ssi Environmental
2009	Specialist Faunal Survey for the proposed Brynorth to Lulamisa powerline' Gauteng Province	Seaton Thomson & Associates
2009	Specialist Faunal Survey for the proposed Graceview to Eyestone powerline, Gauteng Province	Seaton Thomson & Associates
2010	Specialist Faunal Survey for the proposed Delmas powerline and substation, Mpumalanga Province	SSI Engineers & Environmental Consultants
2010	Specialist Faunal Survey for the proposed Hoedspruit powerline and substation, Limpopo Province	SSI Engineers & Environmental Consultants
2011	Specialist Faunal Survey for the proposed Acornhoek powerline and substation, Mpumalanga Province	SSI Engineers & Environmental Consultants
2011	Specialist Faunal Survey for the proposed Gumeni to Bosloop powerline, Mpumalanga Province	SSI Engineers & Environmental Consultants
2011	Specialist Faunal Survey for the proposed Wildebees to Bethal powerline, Mpumalanga Province	SSI Engineers & Environmental Consultants

### **DAMS, BRIDGES AND WEIR DEVELOPMENTS**

<b>DATE</b>	<b>PROJECT</b>	<b>CONSULTANTS</b>
1999	Gemsbokspruit Dam Construction, Limpopo Province	Gaia Earth Sciences
1999	Proposed Weir Extension Letaba River: Specialist Limnological Survey: Limpopo Province	Sue Posnik & Associates
2000	Blood and Sand Borehole Field. Specialist Faunal Survey, Pietersburg, Limpopo Province	Gaia Earth Sciences
2000	Fry Dam Construction. Specialist Faunal Survey, Mooketsi, Limpopo Province	Gaia Earth Sciences
2001	Specialist Faunal Survey for Dendron Storm Water Reticulation Dam. GAIA Earth Science. Limpopo Province	Gaia Earth Sciences
2001	Specialist Ecological Survey for proposed new sewerage works Mid-Letaba Dam. Limpopo Province	GAIA Earth Science.
2009	Specialist faunal survey for the proposed Dunnotar sewer line, Gauteng Province	Seaton Thomson & associates
2009	Specialist faunal survey for the proposed Modderfontein sewer line, Gauteng Province	Seaton Thomson & associates
2009	Specialist Faunal habitat assessment for the proposed upgrading of the 3 major bridged on the D655 road, Bethal, Mpumalanga Province	Bohlweki SSI Environmental
2010	Specialist faunal survey for the proposed Celebration sewer line, Gauteng Province	Nicki Butler & Associates
2010	Specialist Faunal survey for the Mvezo Village access road and bridge, Eastern Cape.	SSI Engineers & Environmental Consultants

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### **MAXIMUM SECURITY PRISON DEVELOPMENTS**

<b>DATE</b>	<b>PROJECT</b>	<b>CONSULTANTS</b>
<b>1999</b>	Specialist Herpetological survey for the proposed Maximum Security Prison, Louis Trichardt, Limpopo Province.	SRK Consultants

### **SPECIALIST HERPETOLOGICAL SURVEYS FOR RESIDENTIAL, CASINO AS WELL AS GOLF COURSE DEVELOPMENTS**

<b>DATE</b>	<b>PROJECT</b>	<b>CONSULTANTS</b>
<b>1998</b>	Specialist Herpetological consultant on the Kensington Golf Course Development, Gauteng Province	EDP CONSULTANTS
<b>1999</b>	Specialist Herpetological consultant for the Montecasino Development, Gauteng Province	EDP CONSULTANTS
<b>2000</b>	Specialist Herpetological Survey for proposed Fourways Ext.9 Development' Gauteng Province	James Crosswell and Associates
<b>2000</b>	Specialist Herpetological Survey: Office Block Development: Fourways, Gauteng Province	PBA Consultants
<b>2000</b>	Design of an environmentally sensitive and effective stormwater management system with special emphasis on the Giant Bullfrog, Gauteng Province	TSOGO SUN
<b>2000</b>	Specialist herpetological survey for proposed Kempton Park Waterfront Development, Gauteng province	ROCK ENVIRONMENTAL
<b>2000</b>	Specialist Herpetological and Faunal Survey. Pietersburg Casino & Hotel Development. Limpopo Province	Scott Wilson Consultants
<b>2001</b>	Specialist Herpetological Survey for proposed Warmbaths Township Development, Limpopo Province	GAIA EARTHE SCIENCES
<b>2001</b>	Specialist Herpetological Survey of Bullfrog Pan, Benoni. Gauteng Province	DeCastro & Brits Consultants.
<b>2002</b>	Specialist Herpetological survey of proposed Golf course, Helderfontein Estate Gauteng Province	SEATON THOMSON & ASSOCIATES
<b>2002</b>	Specialist Herpetological Survey on the migratory routes of the Giant Bullfrog in Rynfield, Benoni Gauteng Province	NICO BOTHA CONSULTANTS
<b>2002</b>	Specialist herpetological survey of proposed housing development, Sandpan, Benoni. Gauteng Province	NICO BOTHA CONSULTANTS
<b>2003</b>	Specialist Herpetological Survey for proposed new Secondary School, Rynfield, Benoni. Gauteng Province	Chris Groenewald & Associates
<b>2003</b>	Specialist Herpetological Survey for the proposed Golf Estate Helderfontein Estate. Gauteng Province	Seaton Thompson & Associates
<b>2003</b>	Specialist Herpetological survey of the Reeds, Midrand, Gauteng Province	De Casto & Brits Consultants.

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<b>2003</b>	Specialist Herpetological Survey for the proposed Gardener Ross Golf Estate, Gauteng Province	Bohlweki Environmental
<b>2004</b>	Survey of Giant Bullfrog populations of Gauteng province. Gauteng Province	GDACE
<b>2004</b>	Specialist Herpetological Survey for the proposed Pixieworld Development. Gauteng Province	Seaton Thompson & Associates.
<b>2004</b>	Specialist Herpetological Survey for the proposed Ebotse Golf Estate Rynfield Dam, Gauteng Province	Ecomonitor Consultants.
<b>2004</b>	Specialist Herpetological Survey for the proposed Glen Austin Extension 3 Development. Gauteng Province	Seaton Thompson & Associates
<b>2004</b>	Specialist Herpetological Survey for the proposed Witkoppen: Craighavon Extension 40 Development. Gauteng Province	Seaton Thompson & Associates
<b>2005</b>	Specialist Herpetological Survey/Habitat Assessment for the proposed Northriding Extensions 86; 110-112 Development.. Gauteng Province	Seaton Thompson & Associates
<b>2005</b>	Specialist Herpetological Survey for the proposed Riversands Development. Gauteng Province	Seaton Thompson & Associates
<b>2005</b>	Specialist Herpetological Survey for the proposed Wittpport 406 Development. Gauteng Province	Seaton Thompson & Associates.
<b>2005</b>	Specialist Herpetological Survey for the proposed Noordwyk Development. Gauteng Province	Bohlweki Environmental
<b>2005</b>	Specialist Herpetological survey for the proposed Olifantsfontein Development, Gauteng Province	African EPA
<b>2006</b>	Specialist Herpetological Survey for the Pamona development, Gauteng Province	Seaton Thomson & Associates
<b>2006</b>	Specialist Herpetological Survey for the proposed Rynfield ext.9 development, Gauteng Province	Imvelo Consultants
<b>2006</b>	Specialist Herpetological Survey for the proposed Rynfield ext.21 development, Gauteng Province	Imvelo Consultants
<b>2006</b>	Specialist Herpetological Survey for the proposed Parkhaven Development, Gauteng Province	Bohlweki Environmental
<b>2007</b>	Specialist Herpetological Survey for the proposed Grootfontein development	Seaton Thomson & associates
<b>2007</b>	Specialist Herpetological Survey for the proposed Rosslyn Development, Gauteng Province	Bioassets
<b>2008</b>	Specialist Herpetological Survey for the proposed Ekraal mine expansion, Gauteng Province	Index Environmental
<b>2008</b>	Specialist Herpetological Survey for the proposed Glen erasmia South and North Development	Bohlweki SSI Environmental
<b>2008</b>	Specialist Herpetological Survey for the proposed Diepsloot development, Gauteng Province	Seaton Thomson & Associates
<b>2008</b>	Specialist Herpetological Survey for the proposed Rand Water Rustenburg Pipeline	Bohlweki SSI Environmental
<b>2009</b>	Specialist Herpetological Survey for the proposed Zwavelpoort Development, Gauteng Province	Seaton Thomson & Associates

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<b>2009</b>	Specialist Herpetological Survey for the Midstream development, Gauteng Province	Bionomics Consultants
<b>2010</b>	Specialist Herpetological Survey for the proposed Stewards Pan development, Gauteng Province	Seaton Thomson & Associates
<b>2010</b>	Specialist Herpetological Survey for the proposed Pienaarspoort development, Gauteng Province	Wetland Consulting
<b>2011</b>	Specialist Herpetological Survey for the proposed Northern Farms development, Gauteng Province	Imvelo Consultants
<b>2011</b>	Specialist Herpetological Survey for the proposed Parkvan Ext7 development, Gauteng Province	Seaton Thomson & Associates
<b>2011</b>	Specialist Herpetological Survey for the proposed Matsaola Mall development, Gauteng Province	Enviroguard Consultants

### **SPECIALIST FAUNAL SURVEYS (MAMMALS, AVIFAUNA/BIRDS, REPTILES & AMPHIBIANS)**

<b>DATE</b>	<b>PROJECT</b>	<b>CONSULTANTS</b>
<b>1999</b>	Mahebereng Farmers Association: Specialist Faunal Survey, Limpopo Province	Wsm Engineers
<b>2000</b>	Ivy Park, Ext.14. Specialist Faunal Survey, Limpopo Province	Gaia Earth Sciences
<b>2000</b>	Mhkuhle Hosing Development. Faunal Survey, Limpopo Province	Gaia Earth Sciences
<b>2000</b>	Roodepoort Methodist Church. Specialist Faunal Survey, Limpopo Province	Gaia Earth Science
<b>2000</b>	Spitsrand Industrial Park. Specialist Herpetological and faunal survey.	Sue Posnik & Associates
<b>2000</b>	Specialist Herpetological & Faunal Survey. Midrand Industrial Park. Gauteng Province	De Castro & Brits Consultants
<b>2001</b>	Specialist Herpetological and Faunal survey for proposed new Needwood Ext16.township. Gauteng Province	Rob Taylor and Associates.
<b>2001</b>	Specialist Herpetological and Faunal survey for proposed new Cedar Lake Development. Gauteng Province	Rob Taylor and Associates.
<b>2001</b>	Specialist Herpetological and Faunal survey for proposed new Witkoppen township. Gauteng Province	Rob Taylor and Associates
<b>2001</b>	Specialist Faunal Survey for three proposed new accommodation resorts Mabalinge Nature Reserve. Limpopo Province	GAIA Earth Science
<b>2001</b>	Specialist Faunal Survey for three new proposed townships, Burgersfort. Mpumalanga Province	GAIA Earth Science.
<b>2001</b>	Specialist Faunal Survey for proposed new Maroeladal township, Gauteng Province	Rob Taylor & Associates
<b>2003</b>	Faunal survey for proposed special school, Bochum; Limpopo Province. Gauteng Province	Faunal Galore Consultants

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<b>2004</b>	Specialist Faunal Survey for Pomona Housing Development. Gauteng Province	. Vuka Consultants
<b>2005</b>	Specialist Faunal Survey for the proposed Fairlead Development. Gauteng Province	Seaton Thompson & Associates
<b>2005</b>	Specialist Herpetological/Faunal Survey for the proposed Parkhaven Development. Gauteng Province	Bohlweki Environmental.
<b>2005</b>	Specialist Herpetological/Faunal Survey for the proposed Hennops Pride Development, Gauteng Province	Bohlweki Environmental
<b>2005</b>	Specialist Herpetological/Faunal Survey for the proposed Mnandi Development. Gauteng Province	Bohlweki Environmental
<b>2005</b>	Specialist Herpetological/Faunal Survey for the proposed Wilgeheuwel Development. Gauteng Province	Bohlweki Environmental
<b>2005</b>	Review of the Specialist Biophysical Survey for the proposed Gautrain Rapid Rail Project Gauteng Province	Bohlweki Environmental
<b>2005</b>	Faunal and botanical survey for the proposed Rynfield extension 73 development Gauteng Province	Singisa Environmental Partnership
<b>2006</b>	Specialist Faunal/Habitat assessment for the Wilgeheuwel Development. Gauteng Province	Seaton Thomson and Associates.
<b>2006</b>	Specialist Faunal survey for the proposed Glen Austin Extension 3. Gauteng Province	Bohlweki Environmental.
<b>2006</b>	Specialist Faunal survey for the proposed Wildlife Estate: Diepsloot. Gauteng Province	Bohlweki Environmental.
<b>2006</b>	Specialist Faunal survey for the proposed Thaba Thala Wildlife Estate: Gauteng Province	Bohlweki Environmental.
<b>2007</b>	Specialist Faunal survey for the proposed Riversong Wildlife Estate: Gauteng Province	Bohlweki Environmental.
<b>2007</b>	Specialist Faunal survey for the proposed Eikenhof Cemetery. Gauteng Province	Bohlweki Environmental.
<b>2007</b>	Specialist Faunal survey for the proposed Eye of Africa development: Gauteng Province	Seaton Thompson associates
<b>2007</b>	Specialist Faunal survey for the proposed Witfontein 8 development: Gauteng Province	Seaton Thompson associates.
<b>2007</b>	Specialist Faunal survey for the proposed Greenacres development: Gauteng Province	Seaton Thompson associates.
<b>2007</b>	Specialist Faunal survey for the proposed Woodacres development: Gauteng Province	Seaton Thompson associates.
<b>2007</b>	Specialist Faunal survey for the proposed Riverbend development: Gauteng Province	Seaton Thompson associates

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2007	Specialist Faunal survey for the proposed Montebello development: Gauteng Province	Seaton Thompson associates.
2007	Specialist Faunal survey for the proposed Wilheheuwel development: Gauteng Province	Seaton Thompson associates
2007	Specialist Faunal survey for the proposed Mandela Bay development: Eastern Cape	Msiti Msuthu Consultants
2008	Specialist Faunal survey for the proposed Lydenburg Golf Estate development: Seaton Thompson associates, Mpumalanga Province	Seaton Thompson associates
2008	Specialist Faunal survey for the proposed Reyton Estates development: Mpumalanga Province	Seaton Thompson associates
2008	Specialist Faunal survey for the proposed Gustav Klingbiel development: Mpumalanga Province	Seaton Thompson associates
2008	Specialist Faunal survey for the proposed Blue Rose City development: Gauteng Province	Seaton Thompson associates
2009	Specialist Faunal Survey for the proposed Driefontein Development, Midvaal, Gauteng Province	Seaton Thompson associates
2009	Specialist Faunal Survey for the proposed Western Area Development, Secunda, Mpumalanga Province	Imvelo Consultants
2009	Specialist Faunal Survey for the proposed Dunnotar development, Gauteng Province	Seaton Thompson associates
2009	Specialist Faunal Survey for the Glen Erasmia South Development, Gauteng Province	Bohlweki SSi Environmental
2009	Specialist Faunal survey for the proposed Soshanguve development, Gauteng Province	BIOASSETS
2009	Specialist Faunal survey for the proposed Mamelodi development Gauteng Province	BIOASSETS
2009	Specialist Faunal survey for the proposed Muldersdrift development' Gauteng Province	BIOASSETS
2009	Specialist Faunal Survey for the Glen Erasmia North Development Gauteng Province	Bohlweki SSi Environmental
2009	Specialist Faunal Survey for the Witpoortjie Development, Gauteng Province	
2009	Specialist Faunal Survey for the Roodeplaat Dam subdivision Gauteng Province	Seaton Thomson & Associates
2010	Specialist Faunal Survey for the proposed Stewards Pan development, Gauteng Province	Seaton Thomson & Associates
2010	Specialist Faunal Survey for the proposed Zesfontein Development; Gauteng Province	Seaton Thomson & Associates
2011	Specialist Faunal Survey for the proposed Louis Trichardt Ext9. Development; Limpopo Province	Seaton Thomson & Associates
2011	Specialist Faunal Survey for the proposed Hectorspruit Development; Mpumalanga Province	Seaton Thomson & Associates

### ENVIRONMENTAL MANAGEMENT PLANS (EMP'S)

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<b>DATE</b>	<b>PROJECT</b>	<b>CONSULTANTS</b>
2000	Bathlabine Brickworks, Tzaneen; Limpopo Province	SUE POSNIK & ASSOCIATES
2005	EMP for the proposed Bullfrog Pan sewer line, Gauteng Province	Imvelo Consultants
2007	EMP for the proposed water reticulation dams on the UNIL Campus	Rod Stewart & Consulants
2007	EMP for the conserved private spaces on the Wilgeheuwel Development, Gauteng Province	Seaton Thomson & Associates
2008	EMP for the proposed Bulk Water Pipeline from Manandi to Rustenburg, Gauteng & North-West Province	Bohlweki SSI Environmental
2008	EMP for the conserved private spaces on the Turrfontein Development, Gauteng Province	Seaton Thomson & Associates
2009	EMP for the upgrading of 10 existing Escom line in Midrand, Gauteng Province	Bohlweki SSI Environmental
2011	EMP for the N11 road Upgrading, Limpopo Province	SSI Engineers & Environmental Consultants
2011	EMP for the proposed borrow pits for the Mvezo Village road link; Eastern Cape	SSI Engineers & Environmental Consultants
2011	EMP for the drainage line on Naturena Ext 10	Seaton Thomson & Associates
2011	EMP for the proposed Southbroom Retirement Village, Kwazulu-Natal	Enspire Environmental

#### **ENVIRONMENTAL MANAGEMENT FRAMEWORKS (EMF'S)**

<b>DATE</b>	<b>PROJECT</b>	<b>CONSULTANTS</b>
2003-2005	Specialist Amphibian input on the Erkuhuleni Municipality EMF, Gauteng Province	Erkuhuleni Municipality
2008-2009	Specialist faunal input on the Dinokeng EMF, Gauteng province	Bohlweki SSI Environmental

#### **WETLAND DELINEATIONS**

<b>DATE</b>	<b>PROJECT</b>	<b>CONSULTANTS</b>
2008	Wetland delineation for the proposed Fouriespruit Development, Gauteng Province	Seaton Thomson & Associates
2008	Wetland delineation for the proposed Carswald Sewer Line, Gauteng Province	Seaton Thomson & Associates
2008	Wetland Delineation for the proposed Glen Austin Pan development, Gauteng Province	Seaton Thomson & Associates
2009	Wetland Delineation for the proposed Erand development, Gauteng Province	Seaton Thomson & Associates
2009	Wetland Delineation for the proposed Montebelo development, Gauteng Province	Seaton Thomson & Associates
2009	Wetland Delineation for the proposed Driefontein Development, Gauteng Province	Seaton Thomson & Associates
2009	Wetland Delineation for the proposed Vrede Marina Developmnet, Free State Province	Seaton Thomson & Associates

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2009	Wetland Delineation for the proposed Mountain View Development, Gauteng Province	Seaton Thomson & Associates
2009	Wetland Delineation for the proposed the Graces Development, Gauteng Province	Seaton Thomson & Associates
2009	Wetland Delineation for the proposed Rietvallei Sewer line, Gauteng Province	Seaton Thomson & Associates
2009	Wetland and riparian delineation for proposed Tau Lodge, Limpopo Province	Bioassets
2009	Wetland and riparian delineation for proposed Makhado development, Limpopo	Bioassets
2009	Wetland Delineation for the proposed Secunda Development, Gauteng Province	Imvelo Consultants
2009	Wetland delineation for the proposed Rand Water Midvaal Expansion	De Castro & Brits
2009	Wetland Delineation for the proposed Grootfontein Development, Gauteng Province	Seaton Thomson & Associates
2009	Wetland Delineation for the proposed Crowthorne 75-77 development, Gauteng Province	Seaton Thomson & Associates
2009	Wetland Delineation for the proposed Witpoortjie Development, Gauteng Province	Seaton Thomson & Associates
2009	Wetland Delineation for the proposed N12-R24 sewer line, Gauteng Province	Seaton Thomson & Associates
2009	Wetland Delineation for the proposed Woodacres development, Gauteng Province	Seaton Thomson & Associates
2009	Wetland Delineation for the proposed Brentwood park development, Gauteng Province	Seaton Thomson & Associates
2009	Wetland Delineation for the proposed holding 134 Carswald development, Gauteng Province	Seaton Thomson & Associates
2009	Wetland Delineation for the proposed Zestfontein development, Gauteng Province	Seaton Thomson & Associates
2009	Wetland and riparian delineation for proposed Ngodwana development, Mpumalanga Province	Seaton Thomson & Associates
2009	Wetland and riparian delineation for proposed Zandspruit development, Gauteng Province	Seaton Thomson & Associates
2009	Wetland and riparian delineation for proposed Roodeplaat Dam development, Gauteng Province	Seaton Thomson & Associates
2010	Wetland Delineation for the proposed Inandan development, Gauteng Province	Seaton Thomson & Associates
2010	Wetland Delineation for the proposed Centenary Way re-alignment, Gauteng Province	Seaton Thomson & Associates
2010	Wetland Delineation for the proposed Beulah development, Gauteng Province	Seaton Thomson & Associates
2010	Wetland Delineation for the proposed Blue Hills A. H sewer line, Gauteng Province	Seaton Thomson & Associates
2010	Wetland Delineation for the proposed Celebration Outfall Sewer	Nicki Butler & associates
2010	Wetland Delineation for the proposed Inandan development	Seaton Thomson & associates
2011	Wetland Delineation for the proposed Cibane sports field	Thalo Environmental

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### 7. Professional Societies & Membership

Herpetological Association of Southern Africa (HAA)  
Entomological Society of Southern African (ESSA)  
Zoological Society of Southern Africa (ZSSA)  
South African Orchid Society (SAOS)

### 8. References

Mr. Mark Freeman Bohlweki SSI (Director) 082 554 4130

Mr. Malcolm Roots Bohlweki SSI (Senior Environmental Practitioner) 083 415 5166

Dr. Wynand Vlok (BIOASSETS) 082 200 5312

Prof. Derek Engelbrecht (Senior Lecturer U.L.) 082 200 5277

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