APPENDIX B

EAP CURRICULA VITAE

1 Personal Particulars

Profession:	Environmental Assessment Practitioner
Date of Birth:	6 December 1976
Name of Firm:	Nemai Consulting
Name of Staff:	Donavan Henning
Years of Experience:	24
Nationality:	RSA
Gender:	Male
Membership of Professional Societies	• Environmental Assessment Practitioners Association of South Africa (EAPASA) Reg. no. 2020/1217 • South African Council for Natural Scientific Professions (SACNASP) Pr.Sci.Nat Reg no: 400108/17

2 Education

Institution (Date from – Date to)	Degree(s) or Diploma(s) obtained
RAU (1999 – 2000)	M. Sc. (Freshwater Ecology)
RAU (1998)	B. Sc. Hons. (Zoology)
RAU (1995 – 1997)	B.Sc. (Zoology and Biochemistry)

3 Employment History

2001 – Present

Environmental Scientist, Nemai Consulting (Pty) Ltd

- Application, development and implementation of environmental impact and management tools (e.g. EIA, EMP, SEA, EMS, EMF, WULA, Environmental Monitoring, Training)
- Water Resource Management
- Implemented numerous training sessions at all levels of government, in the environmental sector
- Developed 12 EMFs
- Completed over 70 EIAs

4 Experience Relevant to the Project

Mr Henning was the registered EAP on each of the projects below.

4.1 Power Generation

a) ESIA for the closure and decommissioning of the Komati Power Stations, Mpumalanga Province, for Eskom.
b) ESIA for the Kroonstad South Solar PV Cluster (1080 MW)
c) ESIA for the Kroonstad Solar PV Cluster (720 MW)
d) ESIA for the Rustenburg Solar PV Cluster (305 MW)
e) ESIA for the Seelo Alpha Solar PV Plant (240 MW)
f) ESIA for the Seelo Beta Solar PV Plant (240 MW)
g) ESIA for the Seelo Charlie Solar PV Plant (120 MW)
h) ESIA for the Sere Solar PV Plant (19.9 MW)
i) ESIA for the Grootvlei Solar PV Plant (600MW)

j) Environmental audit for Camden Ash Dam, Mpumalanga Province, for Eskom.
k) Environmental Audits for Rotek at Eskom Power Stations throughout South Africa, for Eskom.
l) ESMP for methane gas extraction from Lake Kivu to generate electricity, Rwanda, for Symbion Power Lake Kivu LTD.
m) EIA for Matjhabeng 400 MW Solar Photovoltaic Plant with 80 MW (320 MWh) Battery Energy Storage System, located north and south of the town of Odendaalsrus in the Free State Province, for SunElex Energy (Pty) Ltd.
n) 8 MW hydropower station alongside the Zoekfontein Control Works downstream of the Vaal Dam, Free State Province, for Rand Water.
o) Environmental Screening for the Roodeplaat Wind Farm northwest of Uitenhage, Eastern Cape Province, for Plan 8 (Pty) Ltd.
p) Acacia and Port Rex MES Postponement Application, for Eskom.
q) EIA for Beaufort West 75MW Solar PV Project, Western Cape, for Hoodia.
r) EIA for Paradise 100MW Solar Photovoltaic & 40MW Battery Energy Storage Systems Project South of Bloemfontein, Free State Province, for energyTeam.

4.2 Transmission

a) EMP for two 765 kV transmission lines of approximately 13 km between the Perseus Substation and Beta Substation, both near Dealesville in the Free State Province, for Eskom.
b) EMP for 765 kV transmission line of approximately 347 km between Perseus Substation and a point on the existing Hydra-Perseus 765 kV line at the Hydra Substation south-west of De Aar., for Eskom.
c) EMP for 377 km, 765 kV Transmission Line from Gamma Substation near Victoria West, to the Kappa Substation near Touwsriver, for Eskom.
d) EMP for 765 / 400 kV Kappa Substation near Ceres in the Western Cap, for Eskom.
e) EMP for 765 kV transmission line of approximately 260km in length between the Zeus and Mercury Substations, as well as the expansion of these substations, for Eskom.
f) EIA for the Neptune-Poseidon 400 kV Power Line from East London to Cookhouse for Eskom.
g) EIA for the Anderson Dinaledi 400 kV Power Line and Substation through the Magaliesburg Nature Conservation Area, North West Province, for Eskom.
h) EIA for 180km Mookodi-Mahikeng 400k V Powerline, North West Province, for Eskom.
i) EIA for 400 kV power line of approximately 260km from Ferrum to Upington Substations, Northern Cape Province, for Eskom.

4.3 Substations

a) EMP for the Acacia Substation in Edgemead, Western Cape, for Eskom.
b) EMP for the Hydra 01 and Hydra 02 Substation near De Aar, Northern Cape Province, for Eskom.
c) EMP for the Koeberg Substation in Koeberg, Western Cape, for Eskom.
d) EMP for the Rugtevalei Substation in Richtervallei, Eastern Cape Province, for Eskom.
e) EIA for the Makalu B (Igesi) Substation and Associated Transmission Loop-In Lines - new substation and 2 x 275 kV line loop-ins from the Lethabo – Makalu Lines in Sasolburg, Free State, for Eskom.
f) ECO for the construction of the Watershed 275/88/132kV Substation, near Lichtenburg in the North West Province, for Eskom.

5 Environmental Impact Assessment (EIA) and Water Use Licence Application (WULA)

(1) ESIA for the 3D Seismic Survey and Drilling as part of Carbon Capture, Storage and Utilisation (CCSU) project for the Council for Geoscience. Completed in 2023.

(2) EIA for the Water Transfer Scheme from Mokolo Dam to Lephalale as part of the Mokolo Crocodile West Water Augmentation Project, for the Department of Water Affairs. Completed: 2011.

(3) EIA and WULA for the uMkhomazi Water Project Phase 1: Raw Water and Potable Water in KZN, for DWS and Umgeni Water. The scope included a large storage dam, tunnel, balancing dam, raw water pipeline, Water Treatment Works, potable water pipeline and hydropower facilities. Completed: 2020.

(3) EIA for the Ncwabeni Off-Channel Storage (OCS) Dam in KZN, for DWS. The scope included an OCS dam and outlet infrastructure to make measured releases back to the Mzimkhulu River, abstraction / gauging weir on the Mzimkhulu River; abstraction works with a mechanism to remove silt, and a pump station and pipeline to deliver water to the dam. Completed: 2013.

(4) EIA and WULA for the Lower uMkomazi Bulk Water Supply Scheme, for Umgeni Water. Completed: 2018.

(5) EIA and WULA for the Augmentation of the Western Cape Water Supply System (Voëlvlei Dam), for DWS. The scope included a low level weir, abstraction works and 4 m^3/s raw water pump station on the Berg River, a rising main pipeline from the Berg River to Voëlvlei Dam, and a potential new summer release connection at the existing Swartland Water Treatment Works. Completed: 2017.

(6) EIA, and WULA and borrow pit application for the proposed Foxwood Dam and associated infrastructure in Eastern Cape, for DWS. This dam is to allow for a proposed irrigation scheme downstream on the Koonap River. . The scope included a major storage dam (Foxwood Dam), bulk water supply pipeline, gauging weir and relocation of infrastructure. Completed: 2016.

(7) EIA for the Mokolo Crocodile River (West) Water Augmentation Project, for DWS. The scope included an abstraction weir on the Crocodile River (West), low-lift pumping station, low-lift rising main, sedimentation works, balancing reservoir, high-lift pumping station, high-lift rising main to break pressure reservoir, break pressure reservoir, gravity pipeline from break pressure reservoir to operational reservoir, operational reservoir, gravity pipeline from operational reservoir and ancillary infrastructure. Completed: 2019.

(8) EIA for Esther Park Housing Development, Ekurhuleni. Completed: 2016.

(9) EIA for the 75MW Beaufort West Solar Photovoltaic Project, Western Cape. Completed: 2021.

(10) EIA for the mixed-use development of Portion 5 of Brandkop Farm No. 702, Bloemfontein. Completed: 2017.

(11) EIA for the Fischer Tropsch Wax Expansion project, for Sasol Technology. Completed: 2009.

(12) EIA for the de-bottlenecking of the Acrylic Acid and Acrylates (AAA) complex, for Sasol Technology. Completed: 2007.

(13) EIAs and prepared EMPs for Johannesburg Water sanitation and water supply projects for 2003/2004 and 2004/2005 financial years.

(14) EIA for expansion of sewerage Bushkoppies Waste Water Treatment Plant.

(15) EIA for 80km long pipe from Randfontein to Rustenburg. Completed: 2001.

(16) EIA for the Matjhabeng Solar PV Plants with Battery Energy Storage Systems, Free State. In progress.

(17) EIA for the Neptune-Poseidon 400kV Power Line from East London to Cookhouse for Eskom. Completed: 2012.

(18) EMPs for the Acacia, Koeberg, Rugtevalei, Hydra 01 and Hydra 02 Substations for Eskom. Completed: 2012.

(19) EIAs for river bank stabilization and flood attenuation features in the Jukskei River. Completed: 2003.

(20) EIA and EMPR for waste rock dump at Beatrix Gold Mines, with public participation. Completed: 2002.

(21) EIA for proposed Westlake Township development (economic housing project). Completed: 2004.

(22) EIA for low-cost housing development in Soshanguve (ext. 11, 12 and 13), Tshwane. Completed: 2006.
(23) EIA for upgrade of De Deur/Walkerville Waste Disposal Site, for Midvaal Local Municipality. Completed: 2005.
(24) EIA For Parkhaven Filling Station, Boksburg. Completed: 2006.
(25) EIA for Zandspruit Pumpstation, Rising Main and Existing Sewer Line for Johannesburg Water. Completed: 2008.
(26) EIA for the Makalu B Substation and Loop in Lines in Sasolburg, for Eskom. Completed: 2018.
(27) EIA for the Offshore Sandwinning for Developments within the Port of Durban, for Transnet. Completed: 2018.
(28) Developed the Environmental and Social Management Plan in terms of IFC Standards for Kivu 56 - Extraction of Gas and Electric Power Production Plant in the Rubavu District of the Western Province, Rwanda. Completed: 2018.
(29) EIA for Esselen Park Housing Project, Ekurhuleni. Completed: 2017.
(30) EIA for Pomona Housing Project, Ekurhuleni. Completed: 2017.
(31) EIA for the Matjhabeng Solar PV Plant Power Lines in Odendaalsrus, Free State. In progress.
(32) Preparations for the EIA for the Durban Dig Out Port, which entails the phased development of the old Durban International Airport Site to a Deep-Water Mega Container Port, KZN. Completed: 2015.
(33) EIA for the improvement and upgrade of National Route R23 – Section 1 & Section 2 (between Platrand and Greylingstad), Mpumalanga.
(34) Project managed various EIAs, including the following:
- Modderfontein Outfall Sewer;
- Olievenhoutbosch Ext 37 low cost housing development;
- Aspen eco-estate development;
- Fairview estate development;
- Edenville Bulk Water Supply;
- Braam Pretorius Street Extension;
- Rehabilitation of Fairland Spruit;
- Kempton Park Outfall Sewer;
- Garsfontein Pipe Reinforcement;
- Tembisa Reservoir Pipeline;
- Zuikerbosch embankment stabilisation;
- Zuikerbosch Central Sludge Pipeline;
- Mahube Valley Ext. 15 low cost housing development.

6 Environmental Planning (EMF, SEA, SEMP)

(1) Developed the Strategic Environmental Assessment (SEA) for the Port of Richards Bay.
(2) Developed the SEA for the Port of Durban.
(3) Prepared Applicant Guidelines, Decision-support System and standard Record of Decision for Section 21(c) and (i) water uses (National Water Act), for the then Department of Water Affairs and Forestry (DWAF).
(4) Developed the risk-based approach, reporting mechanism and model for the then DWAF's Sustainable EMS, based on ISO 14001 and international best practices. The study focus on Water Resource Management.
(5) Updating of the then DWAF's Integrated Environmental Management Framework and integration of the Integrated Environmental Management tools, with a focus on Water Resource Management.
(6) Prepared Catchment Management Framework for the Upper Klip River for the City of Johannesburg.

(7) Developed a Rehabilitation Plan for Bruma Lake for the City of Johannesburg.
(8) Assisted in the preparation of an Environmental Management Framework for the Jukskei River, where responsibilities included the analysis of water quality, biomonitoring, development of technical intervention measures and associated implementation plan.

7 Resource Monitoring

(1) Fieldwork with Department of Environmental Affairs and Tourism, in the Northern Province. In a biomonitoring team, was responsible for performing SASS4, IHAS (Integrated Habitat Assessment System), HQI (Habitat Quality Index), and assisting in performing the FCI (Fish Community Index) and RVI (Riparian Vegetation Index).
(2) Extensive practical fieldwork in biomonitoring of rivers in the Mpumalanga, Gauteng and North West Provinces. Performed SASS4, IHAS, HQI and chemical water sampling and analysis.
(3) Performed biomonitoring of numerous urban rivers (e.g. Jukskei River, Braamfonteinspruit, Sandspuit and Klipspruit) to obtain baseline data to detect disturbance and non-compliance of various construction activities on aquatic ecosystems.
(4) Assisted in the completion of the State of the Rivers Report for the Luvuvhu River.
(5) Experience in Fish Health Assessment Index.
(6) Performed biomonitoring on the Klein-Olifants River and Bosmanspruit in Mpumalanga to obtain baseline data for expansion of mining operations by Ingwe Coal.
(7) Performed biomonitoring (SASS4, IHAS, RVI, habitat integrity index) on the lower Jukskei River to obtain baseline data for a proposed housing development.
(8) Performed the Fish Health Index (FHI) on various fish species in the Vaal Dam.
(9) Performed biomonitoring (SASS5, IHAS) on the Sesmylspruit for the Irene River development

8 Management

(1) Project managed the preparation of an EMF for the Klipspruit, where responsibilities included the analysis of water quality, biomonitoring, development of technical intervention measures and wetland action plans, and aiding in the set up of the GIS.
(2) Project managed the preparation of the Kliptown Environmental Management Framework, where responsibilities included the (1) establishment of the status quo of the environment, (2) generation of Action Plans to address environmental deficits, (3) preparation of an Environmental Management Plan with area-specific mitigation measures for construction, (4) preparation and management of a Geographical Information System.
(3) Project managed the EIAs for Johannesburg Water's 2004/2005 Capital Projects.
(4) Project managed the EIAs for Johannesburg Water's 2005/2006 Capital Projects.
(5) Project managed the Minimum Emission Standards Compliance Timeframes Postponement Application for the Acacia and Port Rex Power Stations, for Eskom.

9 Institutional and Social Development

(1) Performed environmental training for Rand Water employees.
(2) Held public meetings to garner community views on the Jukskei River during the compilation of the Jukskei River EMF.
(3) Completed a social survey for DWAF, on the impact of defunct mines in the Loskop Dam area on the social environment.
(4) Undertook investigation of social facilitation aspect of four housing developments in Metsweding, namely Ekangala F1, F2 and F3, Rethabiseng Proper, Zithobeni Ext 8 and Onbekend, as well as numerous housing developments in Tshwane.

(5) Performed a needs assessment for the Bekkersdal Township in the West Rand, and prepared Business Plans for combined school sports facilities and a water ring feed.

(6) Undertook water and sanitation needs assessment for seven of the fourteen Southern African Development Community (SADC) member states.

10 Institutional and Social Development

(1) Undertook study, funded by WRC and CSIR, of the evaluation of the role of a local biomonitoring method in the Ecological Risk Assessment process and in the determination of Resource Directed Measures for the Luvuvhu River

(2) Prepared Guideline to develop a Sustainable Urban River Management Plan, funded by WRC.

11 References

No	Project Description	Organisation	Client Details
1.	EIA Grootvlei Solar PV	LTM Green Energies (Pty) Ltd	Lesego Masilo [redacted]
2.	ESIA Stratigraphic Drilling & 3D Seismic Survey as part of the CCUS Project	Council for Geoscience	Taufeeq Dhansay [redacted]
3.	SEA Port of Richards Bay	Transnet National Ports Authority	Lungile Nyembe [redacted]
4.	EIA Neptune-Poseidon 400kV Power Line	Eskom Holding SOC Ltd	Mamokete Mafume (PM) [redacted]
5.	ECO Ankerlig – Sterrekus 400kV Transmission Line	Eskom Holding SOC Ltd	Puseletso Sedibana (PM) [redacted]
6.	ECO Watershed Strengthening Project	Eskom Holding SOC Ltd	Allen Masuku (PM) [redacted]
7.	EIA uMkhomazi Water Project Phase 1 – Raw Water Component	Department of Water and Sanitation (DWS)	J L Enslin (Engineer) [redacted]
8.	EIA Hazelmere Dam	Department of Water Affairs (DWA)	K Bester [redacted]
9.	EIA Berths 203 to 205 Expansion Project	Transnet National Ports Authority (TNPA)	Ivan Moonsamy (PM) [redacted]
10.	EIA Foxwood Dam	DWS	S van Jaarsveld (PM) [redacted]

11.	EIA Mokolo and Crocodile River Water Augmentation Project Phase 2A	DWS	J Enslin (Engineer) [redacted]
12.	EIA Vaal Gamagara Regional Water Supply Scheme Phase 2	Pro-Plan Consulting Engineers (Pty) Ltd	Walter van der Westhuizen (Engineer) [redacted]
13.	ECO Olifants River Water Resource Development Project Phase 2C	TCTA	Shaun Davis (Environmental Manager) [redacted]
14.	ECO Mooi Mgeni Transfer Scheme Phase 2	TCTA	James Nyakale (PM) [redacted]
15.	SEA Port of Durban	Transnet National Ports Authority	Nelson Mbatha [redacted]

12 Language

English - Excellent speaking, reading, and writing.

Afrikaans – Excellent speaking, reading, writing

13 Certification

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience.

Name of Candidate …..…… Donavan Henning ……..

Signature ……. **Date** ……14/02/2024……..

Environmental Assessment Practitioners Association of South Africa



Registration No. 2020/1217

Herewith certifies that

DONAVAN HENNING

is registered as an

Environmental Assessment Practitioner

Registered in accordance with the prescribed criteria of Regulation 15. (1) of the Section 24H Registration Authority Regulations (Regulation No. 849, Gazette No. 40154 of 22 July 2016, of the National Environmental Management Act (NEMA), Act No. 107 of 1998, as amended).

Effective: 01 April 2026

Expires: 31 March 2027

Chairperson

Registrar

SAQA

SACNASP

South African Council for Natural Scientific Professions

herewith certifies that

Donavan Henning

Registration Number: 400108/17

is a registered scientist

in terms of section 20(3) of the Natural Scientific Professions Act, 2003
(Act 27 of 2003)
in the following field(s) of practice (Schedule 1 of the Act)

Environmental Science (Professional Natural Scientist)

Effective **19 July 2017** Expires **31 March 2027**

SOUTH AFRICAN POLICE SERVICE
COMMUNITY SERVICE CENTRE
2026 -08- 03
LINDEN
SUID-AFRIKAANSE POLISIEDIENS

President of Council

Chief Executive Officer

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