

CONTACT DETAILS

Name of Company	Coastal and Environmental Services (Pty) Ltd
Trading as	CES
Description of Company	Environmental and Social Advisory Services
Designation	Gqeberha
Profession	Senior Environmental Consultant
Years with firm	0 years
E-mail	aldi.nel@cesnet.co.za
Office number	+27 (0) 46 622 2364
Mobile	+27 (0) 65 645 7333
Nationality	South African
Professional Body	<ul style="list-style-type: none">➤ SACNASP: South African Council for Natural Scientific Profession (not yet)➤ EAPASA: not yet➤ Zoological Society of Southern Africa
Key areas of expertise	<ul style="list-style-type: none">➤ Environmental Impact Assessment➤ Marine Ecology➤ Database Management

PROFILE

Dr Aldi Nel

Aldi obtained her PhD in Fisheries Science (Aquaculture) from Rhodes University and her MSc in Zoology (*Cum laude*) from Stellenbosch University. Her background includes aquaculture research and development for ecological restoration and environmental sustainability, data science, and ecological monitoring. She applies biological and statistical theory to assess the impacts of various environmental and anthropogenic drivers on ecosystems. Her interests include animal physiology and habitat use, climate change effects on ecosystems and agriculture, climate change mitigation strategy, and stakeholder engagement in agricultural land use.

**EMPLOYMENT
EXPERIENCE**

- **Freelance Consultant**
September – November 2023
Climate Smart Information Systems for Zambian Tilapia Culture – Feasibility Study for WorldFish and RGM Environment (Pty) Ltd

- **Science and Research Coordinator – AfriCarbon (Addo area)**
May – September 2023
 - Baseline Terrestrial Vegetation Environmental Monitoring
 - GIS Mapping
 - Statistics in Carbon Sequestration
 - Database Management

- **Aquaculture Research and Development – University of Fort Hare/ Kingfish Enterprises**
October 2021 – April 2023
 - Ecophysiology and Thermal Biology in Aquatic Systems
 - Larviculture and Microalgae Culture
 - Research and Social Media Coordination

- **Microalgae and Project Technician – Biological Institute Helgoland, Alfred Wegener Institute, Germany and Native Oyster Restoration Alliance**
October 2019 – September 2021
 - Microalgae Culture Facility Implementation
 - Student Training and Technology Development
 - Oyster Culture
 - Research Development: Oyster Nutrition, Microalgae Growth, Integrated Systems and Water Purification

- **Postdoctoral Fellow – South African Institute for Aquatic Biodiversity**
October 2017 – September 2019
 - Bivalve Physiology and Ontogeny
 - Mussel Recruitment and Rock Shore Ecosystem Study
 - Ecological Modelling

- **Project Coordinator/ Postdoctoral Fellow – Department of Ichthyology and Fisheries Science, Rhodes University**
April 2016 – September 2017
 - Sustainable Abalone Culture
 - Microbial Ecology and Biochemical Assays
 - Student Supervision
 - Proposal and Report Writing
 - Project Budgeting

**ACADEMIC
QUALIFICATIONS**

- 2009 - BSc Agricultural Science (Aquaculture) (Stellenbosch University)
- 2012 - MSc Zoology (Stellenbosch University)
- 2016 - Ph.D. Fisheries Science (Rhodes University)

COURSES

- 2023 – Phase 1 Environmental Site Assessment: Real Case Study, Udemy.

**CONSULTING
EXPERIENCE**

Oyster Hatchery Facility Development – Feasibility Study for Kingfish Enterprises, 2019
Assigned the role of Bivalve Specialist and author of the Hatchery Feasibility Report.

Climate Smart Information Systems for Zambian Tilapia Culture – Feasibility Study for WorldFish and RGM Environment (Pty) Ltd, 2023

Assigned the role of Aquaculture Specialist and co-author of the Basic Assessment Report.

PUBLICATIONS

- Nel A, McQuaid CD, Duna O, Giménez L and F Porri. Similar metabolic responses of post-settlement mussels to temperature change in co-occurring mussel species despite distinct biogeographical distributions in South Africa. *Marine Biology* 2022.
- Jones CLW, Nel A, Adesola A, Shipton T, Kaiser H. 2021. The effect of fishmeal replacement with terrestrial protein sources on growth, body condition and intestinal microbiota of juvenile dusky kob *Argyrosomus japonicus*. *African Journal of Marine Science* 43: 45–52.
- Mabasa NC, Britz PJ, Jones CLW and A Nel. 2018. The effect of graded levels of carbohydrate on dusky kob *Argyrosomus japonicus*, fed pelleted diets. *African Journal of Marine Science* 40: 267–277.
- Nel A, Jones CLW, Britz PJ and S Landzela. 2018. The effect of juvenile abalone *Haliotis midae* (Linnaeus, 1758) weaning diet on gut-bacterial formation. *Journal of Shellfish Research* 37: 191–197.
- Nel A, Pletschke BI, Jones CLW, Kemp JOG, Robinson G and PJ Britz. 2017. The effect of kelp (*Ecklonia maxima*) inclusion in formulated feed on growth, feed utilisation and the gut microbiota of South African abalone (*Haliotis midae*). *African Journal of Marine Science* 39: 183–192.
- Nel A, Pletschke BI and PJ Britz. 2017. The effect of low-level kelp supplementation on digestive enzyme activity levels in cultured *Haliotis midae* abalone fed formulated feeds. *African Journal of Marine Science* 39: 175–182.
- Nel A, Pitcher G, Richoux NB and S Jackson. 2014. Culture environment and hatchery of origin influence growth, condition and feeding organ morphology in the Pacific oyster *Crassostrea gigas* in South Africa. *African Journal of Marine Science* 36: 481–49.
- Pieterse* A, Pitcher G, Naidoo P and S Jackson. 2012. Growth and condition of the Pacific oyster *Crassostrea gigas* at three environmentally distinct South African oyster farms. *Journal of Shellfish Research* 31: 1061–1076. (*Maiden name).

CERTIFICATION

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience. I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engaged.



Aldi Nel

Date: January 2024