



APPENDIX 1: CVs of EAP and Key Team Members

DRAFT ENVIRONMENTAL IMPACT ASSESSMENT REPORT

**SCOPING & ENVIRONMENTAL IMPACT ASSESSMENT (S&EIA) FOR THE
PROPOSED 2 MEGALITRES PER DAY (MLD) SOLAR POWERED SEAWATER
DESALINATION PLANT IN THE PORT OF EAST LONDON, BUFFALO CITY
METROPOLITAN MUNICIPALITY, EASTERN CAPE PROVINCE, BY TRANSNET
NATIONAL PORTS AUTHORITY**

DFFE Pre-Application Reference Number: 2026-04-0038

July 2026



ANCHOR
environmental

PART OF



CURRICULUM VITAE

CHERUSCHA SWART

DATE OF BIRTH: 3 November 1988

NATIONALITY: South African

ACADEMIC QUALIFICATIONS

- MSc (Cum Laude) Zoology, Stellenbosch University, 2015 – 2017
- BSc (Hons) Biodiversity and Ecology, Stellenbosch University, 2013
- BSc Biodiversity and Ecology, Stellenbosch University, 2010 – 2012

SCIENTIFIC REGISTRATIONS:

- EAPASA – Environmental Assessment Practitioner: Number 2021/3298
- SACNASP – Pr.Sci.Nat. Environmental Science: 155305
- IAIAsa – Member: Membership number 7398

OTHER TRAINING

- Environmental Impact Assessments, Environmental Legal Compliance, Auditing and Monitoring Training Course, Cape Town, 2020, 2023, 2024 & 2025. Business Success Solutions in association with Janice Tooley Attorneys. Accredited with SACNASP and EAPASA.
- Practical Implementation of Environmental Auditing and Monitoring Training Course, Cape Town, 2024. Business Success Solutions in association with Umhlaba Environmental Consulting. Accredited with SACNASP and EAPASA.
- First Aid Level 1.

COUNTRY EXPERIENCE: South Africa

LANGUAGE PROFICIENCY: English (Excellent), Afrikaans (Excellent)

POSTAL ADDRESS: 8 Steenberg House, Silverwood Close, Tokai 7945

PHONE: +27-21-701 3420

E-MAIL: cher@anchorenvironmental.co.za

EMPLOYMENT HISTORY:

2026-current — Team Lead Environmental Management: Anchor Environmental Consultants Part of SLR

2022–2026 — Senior Consultant & Head Environmental Assessment Practitioner in Environmental Impact Assessment Department: Anchor Environmental

2019–2022 — Consultant and Environmental Assessment Practitioner: Anchor Environmental

2018 – 2019 — Junior Consultant and Taxonomist: Anchor Environmental

2014 – 2017 — Assistant Research Consultant: Stellenbosch University

2014 – 2015 — Research Intern: National Research Foundation

SUMMARY PROFILE

Cheruscha holds a Master of Science (MSc) in Zoology and a Bachelor of Science (BSc) Honours degree in Biodiversity and Ecology from Stellenbosch University. She is a Registered Environmental Assessment Practitioner (EAP) with 14 years of research and consulting experience. Cheruscha is the Team Lead and Head EAP of the Environmental Management Department at Anchor Environmental Consultants, where she leads and manages a wide range of environmental projects. Her expertise includes Environmental Impact Assessments (EIAs), applications for prospecting rights, management plan development, auditing, environmental compliance monitoring, baseline and monitoring surveys, and specialist impact assessments, all undertaken across marine, coastal, and terrestrial environments. In addition, she has specialist expertise in marine invertebrate taxonomy and rocky shore surveys. Her project portfolio spans a wide range of sectors, including land-based and offshore prospecting, offshore mining, agriculture, land- and sea-based aquaculture, solar desalination, residential and commercial developments, conservation surveys for protected areas, and long-term monitoring of bays and ports along the South African coast. Cheruscha is the author of three peer-reviewed scientific publications and numerous scientific reports, with additional projects and publications currently in preparation.

SELECT PROJECT EXPERIENCE

Period	Country	Clients	Project, Tasks
2026	South Africa	WSP	Terrestrial Biodiversity Specialist; Principal Reviewer A terrestrial biodiversity specialist assessment was conducted for the proposed expansion of the Xintong Steel facility
2026	South Africa	Greenvolts Pty (Ltd)	Terrestrial Animal Species Specialist; Principal Reviewer A terrestrial animal species compliance statement was conducted for a solar PV development in Saldanha.
2026	South Africa	Trans Atlantic Diamonds	Environmental Assessment Practitioner Reapplication process: Basic Assessment Process and application for prospecting rights in the offshore sea concession area 11C, Western Cape
2026	South Africa	Denith Engineering (Pty) Ltd	Environmental Assessment Practitioner Applicability Checklist for the Proposed Crane Installation at the Royale Cape Yacht Club, Erf RE/10256, Cape Town
2025	South Africa	Gansbaai Marine (Pty) Ltd	Marine Field Scientist Marine Rocky Shore Survey to fulfil the requirements of Gansbaai Marine's Coastal Waters Discharge Permit, Western Cape.
2025	South Africa	Enviro-EAP	Independent Reviewer Peer review of the terrestrial animal species assessment for a proposed development in Riversdal, Western Cape

Period	Country	Clients	Project, Tasks
2026	South Africa	WSP	Terrestrial Biodiversity Specialist; Principal Reviewer A terrestrial biodiversity specialist assessment was conducted for the proposed expansion of the Xintong Steel facility
2025	South Africa	CK Rumboll & Partners	Terrestrial Biodiversity/ Animal Specialist; Principal Reviewer Terrestrial animal species compliance statement as part of an EIA for phase 2 of a low-cost housing development in Darling
2025	South Africa	Enviro-EAP	Independent Reviewer Peer review and amendments of terrestrial animal species assessment for the proposed development in Yzerfontein, Western Cape
2025	South Africa	Kovaks Investments 172 (Pty) Ltd	Terrestrial Biodiversity/ Animal Specialist; Principal Reviewer Terrestrial Biodiversity Assessment for the Proposed Residential Housing Development, near Rooipan Salt Pans, Yzerfontein, Western Cape.
2025	South Africa	Kovaks Investments 172 (Pty) Ltd	Terrestrial Biodiversity/ Animal Specialist; Principal Reviewer Terrestrial Animal Species Assessment for the Proposed Residential Housing Development, near Rooipan Salt Pans, Yzerfontein, Western Cape.
2025	South Africa	Enviro-EAP Pty (Ltd)	Independent Reviewer Peer review of the Animal Species Impact Assessment for the Mixed-Use Development, Yzerfontein, Western Cape.
2025	South Africa	Enviro-EAP Pty (Ltd)	Independent Reviewer Peer review of the Animal Species Impact Assessment for the Proposed Residential Development, St Helena Bay, Western Cape.
2025	South Africa	Enviro-EAP Pty (Ltd)	Independent Reviewer Peer review of the Animal Species Compliance Statement for the Proposed Citrusdal Housing Development, Citrusdal, Western Cape.
2025	South Africa	Enviro-EAP Pty (Ltd)	Independent Reviewer Peer review of the Animal Species Compliance Statement for a new dam, Clanwilliam District, Western Cape.
2025	South Africa	ATKV Sake (RF) Pty Ltd t/a ATKV Hartenbos	Terrestrial and Animal Specialist; Principal Reviewer Terrestrial Biodiversity, Plant and Animal Compliance Statement for the Proposed Dune Stabilisation at the ATKV, Hartenbos, Western Cape Province.

Period	Country	Clients	Project, Tasks
2026	South Africa	WSP	Terrestrial Biodiversity Specialist; Principal Reviewer A terrestrial biodiversity specialist assessment was conducted for the proposed expansion of the Xintong Steel facility
2025	South Africa	Overstrand Local Municipality	Specialist and Principal Reviewer Invasive Alien Plant Species Monitoring, Control and Eradication Plan for the Onrus Catchment, Western Cape Province.
2025	South Africa	Breede Valley Municipality (Western Cape)	Terrestrial and Animal Specialist; Principal Reviewer Animal Species Specialist Assessment for the Proposed Integrated Residential Development at Touwsrivier, Western Cape Province
2025	South Africa	Breede Valley Municipality	Terrestrial and Animal Specialist; Principal Reviewer Terrestrial Biodiversity Compliance Statement for the Proposed Integrated Residential Development at Touwsrivier, Western Cape Province
2025	South Africa	Breede Valley Municipality	Terrestrial and Animal Specialist; Principal Reviewer Site Sensitivity Verification (SSV) and Report for Terrestrial Biodiversity and Animal and Plant Species for the Proposed Integrated Residential Development at Touwsrivier, Western Cape Province
2025	South Africa	Private Client	Environmental Assessment Practitioner; Terrestrial and Animal Specialist Site Sensitivity Verification (SSV) and Report for the Proposed Solar-Power Desalination Plant Jacobsbaai & Saldanha Area, Western Cape.
2025	South Africa	V&A Waterfront	Environmental Assessment Practitioner; Project Manager Basic Assessment Process for a Mixed Use Development at the V&A Waterfront, Cape Town, Western Cape
2025	Namibia	Namwaste (Pty) Ltd	Animal Specialist Invertebrate Specialist Study for the Proposed Namwaste Management Facility, Arandis, Namibia
2025	South Africa	De Beers Marine (Pty) Ltd	External Environmental Auditor; Environmental Assessment Practitioner External Environmental Compliance Audit for prospecting right NC12189 PR in South African Sea Area 6C — Phase 2 Auditing the compliance of prospecting activities, during January 2022, with the conditions and management measures stipulated in the associated Environmental Authorisation and Environmental Management Programme.

Period	Country	Clients	Project, Tasks
2026	South Africa	WSP	Terrestrial Biodiversity Specialist; Principal Reviewer A terrestrial biodiversity specialist assessment was conducted for the proposed expansion of the Xintong Steel facility
2024	South Africa	De Beers Marine (Pty) Ltd	External Environmental Auditor External Environmental Compliance Audit for prospecting right NC12189 PR in South African Sea Area 6C — Phase 1 Auditing the compliance of prospecting activities, during the period 15 April 2021 to 31 December 2021, with the conditions and management measures stipulated in the associated Environmental Authorisation and Environmental Management Programme.
2024-2026	South Africa	Overstrand Local Municipality	Environmental Assessment Practitioner Estuarine Maintenance Management Plan (MMP) for the proposed dredging and future maintenance of the Onrus Estuary—Onrus Catchment to Coast (C2C) Programme
2024- 2026	South Africa	Sunwater East London	Environmental Assessment Practitioner; Project Manager Scoping & Environmental Impact Assessment (EIA) for the proposed Solar Powered Desalination Plant in the Port of East London for Transnet National Ports Authority
2024/ 2025	South Africa	Department of Forestry, Fisheries and the Environment: Oceans and Coasts	Project Manager; Stakeholder Engagement Specialist Development of management plans for the South-East Atlantic and South-West Indian Seamounts Marine Protected Areas
2024	South Africa	Prism Environmental Management Services on behalf of property owner	Marine, Terrestrial and Animal Specialist Coastal Impact Assessment for the Proposed Property Development on two Erven in Wilderness, Western Cape.
2024	South Africa	Port Nolloth Sea Farms Ranching (Pty) Ltd	Environmental Assessment Practitioner Amendment of the Environmental Authorisation for the Port Nolloth Sea Farms ranching abalone holding and processing facility, south of Kleinzee.
2023	South Africa	Gansbaai Marine (Pty) Ltd	Marine Field Scientist Marine Impact Assessment to fulfil the requirements of Gansbaai Marine's Coastal Waters Discharge Permit

Period	Country	Clients	Project, Tasks
2026	South Africa	WSP	Terrestrial Biodiversity Specialist; Principal Reviewer A terrestrial biodiversity specialist assessment was conducted for the proposed expansion of the Xintong Steel facility
2023	South Africa	St Helena Bay Water Quality Trust	Report Editor and Reviewer The State of St Helena Bay: annual environmental monitoring and reporting campaign
2019 – present (ongoing)	South Africa	Saldanha Bay Water Quality Forum Trust	Marine Field Scientist; Co-author; Report Editor The State of Saldanha Bay and Langebaan Lagoon: Annual Monitoring and reporting campaign
2023/24	South Africa	GIZ	Co-author; Environment Legislation Section Green infrastructure options for improved waterway and catchment management for the City of Cape Town.
2023	South Africa	Impact Water Solutions and GIZ	Co-author; Environment Assessment Practitioner GIZ Green Hydrogen Desalination ESIA Scoping Study to provide strategic information on the technoeconomic, legal, environmental, and social applicability of desalination plants as water source for green hydrogen projects in South Africa.
2023	South Africa	Doug Jeffrey Environmental Consultants	Marine and Coastal Specialist Marine Specialist Study for the Residential Development in Oude Kraal, Camps Bay: Site Sensitivity and Constraints Report
2023	South Africa	African Tuna	Specialist and Lead Author Feasibility study for the commercial harvesting of periwinkles and limpets on the west coast of South Africa
2023	Angola	SHELTER (on behalf of Eni Angola)	Specialist and Co-author Preparation of a Terrestrial and Coastal Biodiversity Action Plan (BAP) as part of the Angola Northern Gas Complex Onshore Plant Project
2022/2023	South Africa	Matzikama Kaolin	Environmental Assessment Practitioner; Project Manager; Stakeholder Engagement Specialist Scoping Assessment as part of an application for prospecting rights: Prospecting of kaolin in the Western Cape
2022/2023	South Africa	Xwena Kaolin	Environmental Assessment Practitioner; Project Manager; Stakeholder Engagement Specialist Scoping Assessment as part of an application for prospecting rights: Prospecting of kaolin and silica in the Western Cape

Period	Country	Clients	Project, Tasks
2026	South Africa	WSP	Terrestrial Biodiversity Specialist; Principal Reviewer A terrestrial biodiversity specialist assessment was conducted for the proposed expansion of the Xintong Steel facility
2022 – present (ongoing)	South Africa	I&J Danger Point	Environmental Assessment Practitioner; Stakeholder Engagement Specialist Abalone ranging right application & Risk Assessment
2022 – present (ongoing)	South Africa	Drylands Farms	Terrestrial and Animal Specialist; Environmental Assessment Practitioner Terrestrial Baseline Survey as part of prefeasibility for a proposed agricultural development on a mine in the Northern Cape of South Africa
2018 – present (ongoing)	South Africa	De Beers Marine Namibia	Taxonomist; Environmental Scientist; Co-author De Beers Marine Namibia Environmental Monitoring Programme in the Atlantic 1 Mining License Area: Annual Benthic Sampling Campaign
2021/2022	South Africa	SANEK Liquidators	Environmental Site Officer (ESO) Stonehurst mountain Estate Phase 4 Development — Compliance Monitoring
2021/2022	South Africa	SRK Consulting	Marine Specialist Marine Impact Assessment for the increase in manganese handling capacity at the Multi-Purpose Terminal, Port of Saldanha, Saldanha Bay, South Africa
2021/2022	South Africa	Trans Atlantic Diamonds	Environmental Assessment Practitioner Basic Assessment Process and application for prospecting rights in an offshore sea concession 10B in the Northern Cape Basic Assessment Process and application for prospecting rights in an offshore sea concession 7C in the Northern Cape Basic Assessment Process and application for prospecting rights in the offshore sea concession area 14C, Western Cape Basic Assessment Process and application for prospecting rights in the offshore sea concession area 11C, Western Cape Basic Assessment Process and application for prospecting rights in the inshore sea concession area 14A, Western Cape
2021	South Africa	Nomalungelo Faku	Specialist and Lead Author Feasibility study for a pearl farm in the greater Nelson Mandela metropolitan area

Period	Country	Clients	Project, Tasks
2026	South Africa	WSP	Terrestrial Biodiversity Specialist; Principal Reviewer A terrestrial biodiversity specialist assessment was conducted for the proposed expansion of the Xintong Steel facility
2021	South Africa	Cliff Path Action Group	Marine Specialist Marine Environmental Impact Assessment for the Proposed Pedestrian Path to Connect the two Parts of the Hermanus Cliff Path via Poole's Bay
2018 – 2021	South Africa	Mhlathuze Water	Lab Technician and Scientist Mhlathuze Water Environmental Monitoring Programme for the Richards Bay Offshore Outfalls Region
2019/2020	South Africa	Planet Capital and Cape Nordic Corporation	Environmental Assessment Practitioner Support; Stakeholder Engagement Specialist Basic Assessment Process for the Proposed Land-based Aquaculture Facility near Elands Bay on the West Coast of South Africa
2020	South Africa	Planet Capital and Cape Nordic Corporation	Animal Specialist; Field Scientist Proposed Land-based Aquaculture Facility near Elands Bay – Bat Specialist Impact Survey and Assessment
2020	South Africa	CSIR Coastal Systems Research Group	Taxonomist CSIR Coastal Systems Research Group: Identification of benthic invertebrate macrofauna.
2020	South Africa	Department of Environmental Affairs and Development Planning	Field Scientist; Stakeholder Engagement Specialist Berg Estuary Valuation Study: Value of The Berg Estuary and Importance of Management Interventions
2019	South Africa	Department of Agriculture, Forestry & Fisheries	Environmental Assessment Practitioner Support; Stakeholder Engagement Specialist Basic Assessment Process for the Proposed Sea-Based Aquaculture Development Zone in Algoa Bay, Eastern Cape
2019	South Africa	Doring Bay Abalone	Co-Author Draft Environmental & Risk Assessment for an Application for a Right to Engage in an Abalone Ranching Pilot Project
2019	South Africa	Mozal Alumium Smelter	Taxonomist; Co-Author Estuarine Specialist Report for the Mozal Matola River Pipeline, Mozambique: Estuarine Impact Assessment

PUBLICATION RECORD

SWART C AND ROBINSON TB (2019) Horizon scanning for alien predatory crabs: insights from South Africa. *African Journal of Marine Science* 41(2): 125 – 135, DOI: 10.2989/1814232X.2019.1588782

SWART C, VISSER V AND ROBINSON TB (2018) Patterns and traits associated with invasions by predatory marine crabs. *NeoBiota* 39: 79 – 102. <https://doi.org/10.3897/neobiota.39.22002>

ROBINSON TB AND **SWART C** (2015) Distribution and impact of the alien anemone *Sagartia ornata* in the West Coast National Park. *Koedoe* 57 (1): DOI: 10.4102/koedoe.v57i1.1246

SEDICK S, CLARK B, GIHWALA K, **SWART C** (In prep.) The description of a new species of *Nereis* (Annelida, Nereididae) from the shallow waters of southern Namibia.

GIHWALA K, BICCARD A, CLARK B, **SWART C**, MAKHOSONKE A, STEFFANI N, ROOS L (In prep.). Anthropogenic disturbance and subsequent recovery of benthic habitats and associated macrofaunal communities in southern Africa.]

THESIS

SWART C (2017) An assessment of invasive predatory marine crabs and the threat they pose along the South African coastline. MSc Thesis, Stellenbosch University, 154 pp.

CONFERENCES

2014 Poster Presentation: “Distribution and impact of the alien anemone *Sagartia ornata* in the West Coast National Park”. South African Marine Science Symposium, Stellenbosch University, Stellenbosch, 15 – 18 July 2014

2015 Poster Presentation: National Research Foundation Research Day, Feb 2014; Second Prize

2017 Oral Presentation: “Horizon scanning for intertidal predatory crab invaders: South Africa as a case study”. South African Marine Science Symposium, Nelson Mandela University, Port Elizabeth, 4 – 7 July 2017

**Environmental Assessment
Practitioners Association
of South Africa**



Registration No. 2021/3298

Herewith certifies that

CHERUSCHA SWART

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



CURRICULUM VITAE

MICHAEL PHILIP ANTHONY ARMITAGE

DATE OF BIRTH: 9 September 1996

NATIONALITY: South African

ACADEMIC QUALIFICATIONS, UNIVERSITY OF CAPE TOWN (UCT):

MSc Environmental and Geographical Science (EGS), 2022—with Distinction.

BSc (Hons) EGS, 2018—First Class Pass (with Distinction).

BSc EGS and Archaeology, 2017.

OTHER TRAINING:

Environmental Impact Assessments Training Course, Cape Town, 2024. Business Success Solutions In association with Janice Tooley Attorneys. SACNASP and EAPASA accredited.

Practical Implementation of Environmental Auditing and Monitoring Training Course, Cape Town, 2024. Business Success Solutions in association with Umhlaba Environmental Consulting. SACNASP and EAPASA accredited.

PCSWMM and EPA SWMM5 Modelling Short Course, 2019. Computational Hydraulics International (CHI).

First Aid Level 1

MEMBERSHIP OF PROFESSIONAL BODIES/ORGANISATIONS:

EAPASA: Candidate EAP, Registration Number: 2024/7978

IAIAsa: Full Member, Registration Number: 7619

COUNTRY EXPERIENCE: South Africa, People's Republic of China

LANGUAGE PROFICIENCY: English (Excellent), Afrikaans (Basic)

POSTAL ADDRESS: 8 Steenberg House, Silverwood Close, Tokai 7945

PHONE: +27-21-701 3420

E-MAIL: michael@anchorenvironmental.co.za

EMPLOYMENT HISTORY:

2022-Present: Environmental Consultant: Marine Ecosystems and Resources (Anchor Environmental Consultants)

2021: Research Assistant (South African National Biodiversity Institute and Breede-Gouritz Catchment Management Agency); and University Demonstrator.

2015: Mathematics and Physical Science Tutor (Mastermaths)

SUMMARY PROFILE

Michael holds MSc and BSc (Hons) degrees in Environmental and Geographical Science (EGS), as well as a BSc in EGS and Archaeology, all from the University of Cape Town. His expertise lies in integrated environmental and water resources management—with a focus on coastal, estuarine, and freshwater systems, as well as nature-based management solutions. He thrives on unpacking the complexities of dynamic systems to develop integrated, practical, and effective management solutions. Michael works as an Environmental Assessment Practitioner (EAP) and Environmental Management Specialist, undertaking Environmental Impact Assessments (EIAs) and preparing a range of environmental management plans. He also has experience in estuarine studies, sediment quality assessment, and GIS mapping. He is a registered Candidate EAP (EAPASA: 2024/7978) and a member of the International Association for Impact Assessment South Africa (IAIAsa: 7619).

Skills: Report writing; GIS (ArcGIS and QGIS); Field surveys (terrestrial, aquatic and marine); Public speaking; Client, authorities and stakeholder Engagement; MS Office Suite.

SELECT PROJECT EXPERIENCE

Environmental Impact Assessments and Related Projects

Period	Country	Client	Project, Tasks
2024-Ongoing	South Africa	Sunwater East London	Environmental Assessment Practitioner; and GIS, Estuarine, Socio-Economic, and Stakeholder Engagement Specialist: Scoping and Environmental Impact Assessment (S&EIA) for Transnet Ports Authority (TNPAs) Proposed Solar Powered Desalination Plant in the Port of East London. Status: Resubmission Public Participation Process (PPP) imminent. Roles and Tasks: • Lead proposal writer; • Author: Site Sensitivity Verification Report (SSVr), Application form; Scoping Report, Environmental Impact Assessment Report (EIAR), Environmental Management Programme (EMPr) Marine Impact Assessment, and Socio-Economic Impact Assessment (Lead Contributor); • Lead GIS Specialist—responsible for all GIS mapping requirements; • Specialist co-ordination (both internal and external); • Engaged with client, authorities and stakeholders, and conducted PPP; • Extensive project management.
2024-Ongoing	South Africa	V&A Waterfront	Environmental Assessment Practitioner, and Socio-Economic Specialist: Basic Assessment Process for a Mixed-Use Development within the Breakwater Precinct of the, V&A Waterfront, Cape Town. Status: Pre-Application PPP imminent. Roles and Tasks: • Proposal writer; • Author: Pre-Screening Report; Site Sensitivity Verification Report (SSVr), Notice of Intent to Develop (NID) Form; Basic Assessment Report (BAR); and EMPr; • Lead GIS Specialist; • Specialist co-ordination (both internal and external); and • Client, Authorities and Stakeholder Engagement.
2026	South Africa	Trans Atlantic Diamonds	Environmental Assessment Practitioner: Resubmission Basic Assessment Process and Prospecting Rights application for Offshore Sea Concession 11C in the Western Cape. Status: Final BAR and all appendices submitted to Department of Mineral and Petroleum Resources (DMPR). Roles and Tasks • Author: Revised Basic Assessment Report (BAR), Environmental Management Programme (EMPr), Prospecting Works Programme, and Stakeholder Engagement Report; • Specialist co-ordination; and • Assisted with Public Participation Process (PPP).
2024-Ongoing	South Africa	National Sea Rescue Institute (NSRI)	Environmental Assessment Practitioner Environmental Impact Assessment (EIA) for the Proposed Upgrades the NSRI Bakoven Rescue Base. Status: Inception and Pre-Screening completed—Project awaiting funding. Roles and Tasks • Site Inspection; • Client and specialist Engagement; and • Pre-Screening and determination of EIA requirements.
2024-2025	South Africa	Port Nolloth Sea Farms Ranching (Pty) Ltd (PNSF)	Environmental Assessment Practitioner (Lead Contributor) Application for Exemption from the Off-Road Vehicle Driving Vessel Launch Regulations for PNSFs offshore abalone ranching activities. Status: Exemption granted. Roles and Tasks • Project manager; • Primary author and compiler; and • Client and authorities engagement.

Period	Country	Client	Project, Tasks
2024-2025	South Africa	Port Nolloth Sea Farms Ranching (Pty) Ltd	Environmental Assessment Practitioner and GIS Specialist Amendment of the Environmental Authorisation for the Port Nolloth Sea Farms ranching abalone holding and processing facility, south of Kleinsee. Status: Amendment granted. Roles and Tasks • Amendment application author; • Lead GIS Specialist; and • Client and authorities engagement.
2025	South Africa	Netelek	Environmental Assessment Practitioner Screening Study and SSVr for a Proposed Solar-Power Desalination Plant, Ammonium Production Plant, and Associated Infrastructure, in the Jacobsbaai & Saldanha Area, Western Cape. Status: Project terminated due to feasibility concerns. Roles and Tasks • SSVr author; • Lead GIS Specialist; and • Client Engagement.
2023-2024	South Africa	The City of Cape Town and Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)	Environmental Impact Assessment Practitioner and GIS Specialist Green Infrastructure (GI) Options for Improved Waterway and Catchment Management within the Zeekoe and Zand Catchments within Cape Town. Roles and Tasks • Lead GIS Specialist—conducted extensive spatial mapping and analysis of key socio-economic, spatial planning, and governance metrics; • Lead Contributor to the Governance and Regulatory Framework Report—which included a detailed analysis and categorisation of the viability of implementing GI interventions throughout each catchment, and determination of all necessary environmental and permitting requirements/considerations; and • Client and specialist engagement.
2023	South Africa	Impact Water Solutions (IWS) and Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)	Environmental Assessment Practitioner and GIS Specialist (Lead Contributor) Green Hydrogen Desalination Study Task 7: Example Environmental and Social Impact Assessment (ESIA) Scoping Report for a Solar-Powered Desalination Plant in Danger Bay, Saldanha—This report formed the foundation for the “The guideline document for Green Hydrogen developments in South Africa”. Roles and Tasks • Primary Author; • Lead GIS Specialist; and • Client and specialist Engagement
2022	South Africa	Trans Atlantic Diamonds	Environmental Impact Assessment Practitioner and Socio-Economic and Marine Specialist Basic Assessment Process and Prospecting Rights Application for Diamond Prospecting in Offshore Sea Concession 7C, Northern Cape. Status: Environmental Authorisation (EA) and Prospecting Right Granted. Roles and Tasks • Author: BAR, EMPr, PWP, Socio-Economic Impact Assessment (Lead contributor), and Marine Impact Assessment.
2022	South Africa	Trans Atlantic Diamonds	Environmental Impact Assessment Practitioner and Socio-Economic and Marine Specialist Basic Assessment Process and Prospecting Rights Application for Diamond Prospecting in Offshore Sea Concession 10B, Western Cape. Status: Environmental Authorisation (EA) and Prospecting Right Granted. Roles and Tasks • Author: BAR, EMPr, PWP, Socio-Economic Impact Assessment, and Marine Impact Assessment.
2022	South Africa	Matzikama Kaolin	Environmental Impact Assessment Practitioner and GIS Specialist Preparation of a Scoping Report for Kaolin Prospecting in Hendriksvlei Area, Western Cape. Status: Project terminated after Scoping Phase Completion. Roles and Tasks • Scoping Report Author and Lead GIS Specialist.

Period	Country	Client	Project, Tasks
2022	South Africa	Xwena Kaolin	Environmental Scientist and GIS Specialist Preparation of a Scoping Report for Kaolin Prospecting in the Bitterfontein area, Western Cape. Status: Project terminated after Scoping Phase Completion. Roles and Tasks Scoping Report Author and Lead GIS Specialists.

Environmental Management Plans and Processes

Period	Country	Client	Project, Tasks
2024-Ongoing	South Africa	Overstrand Local Municipality (OLM).and Breede-Gouritz Catchment Management Agency (BOCMA). Funders: United Nations Environmental Programme (UNEP), the White Desert Foundation, and BOCMA.	Lead Contributor and Functional Project Manager; Environmental Assessment Practitioner (EAP); and Environmental, Estuarine and Water Resource Management Specialist. <u>Onrus Catchment to Coast (C2C) Programme</u> Large scale, multi-year, multi-component project aimed at rehabilitating and restoring the ecological health of the Onrus Estuary and River, Palmiet peat wetland(s), and the broader Onrus Catchment. <u>Main Project Components:</u> <i>1. Ecological Health Assessment for the Onrus Estuary (Complete):</i> Determination of current estuarine ecological health status and Present Ecological State (PES), to inform management requirements. Tasks: Estuarine field survey (fish, sediment, and water quality sampling, and bird survey); Geographical Information Systems (GIS) analyses and mapping; Data analysis; literature review; and report writing. <i>2. Situation Assessment for the Onrus River Catchment (Complete):</i> Compilation of all relevant scientific information for the Onrus River Catchment, to inform future rehabilitation and restoration efforts. Tasks: Literature review, report writing, GIS mapping and analyses; and findings presentation to stakeholders. <i>3. Maintenance Management Plan (MMP) for the Onrus Estuary (Lead Contributor):</i>~500-page, 15 document, comprehensive submission package, aiming to permit key maintenance, rehabilitation, and restoration works within the Onrus Estuary and Lower Onrus River. Status: In progress 2nd PPP imminent. MMP Components: Capital Dredging and Dewatering Plan; Future Maintenance Dredging and Dewatering Plan; The Alien Invasive Plant (AIP) Eradication, Control; Indigenous Plant Rehabilitation and Revegetation Plan; and The Infrastructural and Structural Repair/ Maintenance/ Reconstruction Plan. Tasks: Literature review; Extensive GIS mapping and data analyses; Identified MMP work areas, methodologies, and dredging requirements; Impacts assessment and determination of mitigation measures; Prepared method statements for all MMP components; Liaised extensively with client, stakeholders, and government authorities (and facilitation of PPP). <i>4. Landcare EMPr Application for rehabilitation/restoration works within Palmiet Peat Wetlands—in Progress.</i> <i>5. Water Use License (WUL) application from the Onrus Estuary Mouth, upstream to the De-Bos Dam—in Progress.</i>
2025-Ongoing	South Africa	African Marine Solutions (AMSOL)	Environmental Management Specialist and Environmental Impact Assessment Practitioner Development of an Environmental Management Plan (EMP) for the offshore ship-to-ship bunkering activities in Algoa Bay. Status: Final Report Report submitted to DFFE for approval. Roles and Tasks Report author and peer reviewer.
2024-2026	South Africa	Mossel Bay Local Municipality and Southern Estuarine Rehabilitation Action Group (SERAG)	Primary Contributor and Functional Project Manager; Environmental Assessment Practitioner (EAP); and Environmental, Estuarine and Water Resource Management Specialist. Preparing a Maintenance Management Plan (MMP) for the Groot Brak Estuary. Status: Final MMP submitted to WC DEA&DP for approval. Roles and Tasks - Primary Project Manager, Report writer, and GIS Specialist; - Specialist Engagement and Coordination;

Period	Country	Client	Project, Tasks
			• Authorities, and Stakeholder Engagement, and coordinated PPP; and compiled Stakeholder Engagement Report; and • Proposal writer
2024	South Africa	Department of Forestry, Fisheries and the Environment (DFFE)	Environmental Assessment Practitioner and Stakeholder Engagement Support Development of a Marine Protected Area Management Plan for the South-East Atlantic Marine Protected Area. Roles and Tasks • Proposal writing • Stakeholder engagement coordination and organisation; and • Author of Stakeholder Engagement Report.
2024	South Africa	Department of Forestry, Fisheries and the Environment (DFFE)	Environmental Assessment Practitioner and Stakeholder Engagement Support Development of a Marine Protected Area Management Plan for the South-West Indian Seamounts Marine Protected Area. Roles and Tasks • Proposal writing; • Stakeholder engagement coordination and organisation; and • Author of Stakeholder Engagement Report.
2022-2023	South Africa	Infinity Environmental for the City of Cape Town	Estuarine Specialist and Environmental Assessment Practitioner (Co-Lead Author) Preparation of a Situation Assessment and Estuarine Management Plan for the Zandvlei Estuary. Roles and Tasks • Lead author of the Situation Assessment Report; • Key author of Estuarine Management Plan report; • Client, Authorities, and Specialist Engagement; and • Presenter at numerous public meetings, steering committee meetings, and focus groups workshops, and assisted with PPP.
2022-2023	South Africa	Lukhozi Consulting Engineers	Estuarine Specialist (Lead Author) Mouth Management Plan (MMP) for the Zandvlei Estuary. Roles and Tasks • Lead author of the MMP Report; • GIS mapping; • Extensive engagement with stakeholders and estuary management personnel to refine mouth management approaches; and • Stakeholder engagement and assisted with PPP.

Estuarine, Sediment Quality, and other Scientific Specialist Work

Period	Country	Clients	Project, Tasks
2025	South Africa	Saldanha Bay Water Quality Trust	Sediment Quality Specialist (Chapter Lead Author) 2025 State of Saldanha Bay (SOB) Annual Environmental Monitoring Report. Roles and Tasks • Lead author of the Sediment Quality Chapter; and • Sediment Quality Analyses.
2024	South Africa	Infinity Environmental for the City of Cape Town	Estuarine Specialist (Lead Contributor) and GIS Specialist Estuarine and Ichthyofaunal Specialist Impact Assessment for the Proposed Fish Ladder Construction and Alterations of Existing Weir and Bridge Infrastructure in the Zeekoevlei Estuary. Roles and Tasks • Lead contributor and report writer; • Client and management authorities engagement; • Site survey and inspection; and • GIS mapping.
2024-Ongoing	South Africa	The City of Cape Town (CCT) and Infinity Environmental	Field Scientist Marine microplastics and water quality sampling and compliance monitoring for the City of Cape Town's marine outfalls surrounding the Cape Peninsula. Roles and Tasks • Vessel-based sampling of marine water for microplastics analysis.

Period	Country	Clients	Project, Tasks
2023-2024	South Africa	Dube Tradeport Corporation	Estuarine Specialist (Lead Contributor) and GIS Specialist Estuarine Specialist Impact Assessment for the Proposed Automotive Supply Park Sewer Line Passing through the aManzimtoti Estuary. Roles and Tasks • Lead contributor and report writer; • Site survey and inspection; and • GIS mapping.
2024	South Africa	ECA Consulting	Field Scientist Updated Marine Specialist Study and Dumping at Sea Permit Application for the Berth 100A Application in the Port of Ngqura. Roles and Tasks • Fieldwork logistics coordination; • Client engagement; and • Vessel-based marine survey (incl. water and sediment quality sampling).
2023	South Africa	Sharples Environmental Services	Estuarine Specialist (Lead Contributor) and GIS Specialist Assessment of the Impacts of Building a Residential House in the Knysna Estuary, Garden Route Municipality, Western Cape. Roles and Tasks • Lead contributor and report writer; and • GIS mapping.
2023	South Africa	Enviroworks	Estuarine Specialist (Lead Contributor) and GIS Specialist Estuarine and Coastal Impact Assessment for the Proposed SANParks Developments in the West Coast National Park, Langebaan. Roles and Tasks • Lead contributor and report writer; • Site survey and inspection; and • GIS mapping.
2023	South Africa	Guillaume Nel Environmental Consultants	Estuarine Specialist (Lead Contributor) and GIS Specialist Estuarine Specialist Assessment for the proposed upgrade of the TR77/1 (R27), Velddrif. Roles and Tasks • Lead contributor and report writer; • Site survey and inspection; and • GIS mapping.
2023	South Africa	Saldanha Bay Water Quality Forum Trust	Sediment Quality Specialist (Chapter Lead Author) 2023 State of Saldanha Bay (SOB) Annual Environmental Monitoring Report. Roles and Tasks • Lead author of the Sediment Quality Chapter; and • Sediment Quality Analyses.
2023	South Africa	St. Helena Bay Water Quality Trust	Sediment Quality and GIS Specialist (Chapter Lead Author) The State of St Helena Bay: ongoing semi-annual ecological monitoring of St Helena Bay and the lower Berg Estuary. Roles and Tasks • Lead author of the Sediment Quality Chapter; • Sediment Quality Analyses; and • GIS mapping
2023	South Africa	WSP Group Africa (Pty) Ltd	Marine Ecologist Total Energies Block 11b/12b Environmental and Social Impact Assessment (ESIA): Marine Ecology Impact Study. Roles and Tasks • Contributed to prospecting-induced noise impacts sections.
2023	South Africa	Infinity Environmental for the City of Cape Town (CCT)	Estuarine Specialist and Field Scientist Estuarine Specialist Impact Assessment for the Proposed Dredging of the Milnerton Lagoon by the City of Cape Town. Roles and Tasks • Proposal and report writing; • Client and authorities engagement; • Field survey (incl. water and sediment sampling); and • GIS mapping

Period	Country	Clients	Project, Tasks
2023	South Africa	Infinity Environmental for the City of Cape Town	Estuarine Management Specialist Remediation Plan for the Milnerton Lagoon: Ecological Risks and Benefits associated with the Proposed Remediation Options. Roles and Tasks • Report writing; and • Client and authorities engagement.
2023	South Africa	Doug Jeffery Environmental Consultants	GIS Specialist Marine Specialist Study for the Residential Development in Oudekraal, Camps Bay: Site sensitivity and Constraints Report. Roles and Tasks • GIS mapping.
2022–2023	South Africa	KSEMS Environmental Consulting	Estuarine, Water Resource, and GIS Specialist (Lead Contributor) Assessment of Impacts and Development of an Offset Plan for the Proposed Upgrade of the N2 Section 25 between the Isipingo Interchange and Umlaas Canal, and Construction of a New Drainage Canal, in the Ethekwini Municipality, Kwazulu-Natal. Roles and Tasks • Lead contributor and report writer for both the Estuarine Impact Assessment and Offset Plan; • Site survey and inspection (two surveys); and • GIS mapping.
2022	South Africa	Nemai Consulting	Estuarine Ecologist and Field Scientist Ecological Water Requirements (EWR) Update and Estuarine Impact Assessment for the uMzimkhulu Estuary, Kwa Zulu Natal. Roles and Tasks • Comprehensive “dry season” estuarine health field survey—incl. avifauna, vegetation, water and sediment quality sampling, and fish netting survey.
2022	South Africa	Lukhozi Consulting Engineers for the City of Cape Town	Estuarine Management Specialist (Lead Contributor) Zandvlei Estuary: Ecological Context and Recommendations Pertaining to Mouth Management. Roles and Tasks • Comprehensive description of present and historical estuarine mouth state and mouth management; and • Provided recommendations for improved mouth management.
2022	South Africa	Infinity Environmental for the City of Cape Town	Estuarine Specialist (Lead Contributor) Zandvlei Dredge Assessment: Current Ecological Status Report. Roles and Tasks • Description of the available ecological information on the Zandvlei estuary—incorporated into a baseline report that contextualised the associated dredge modelling report.

Work Conducted Prior to Joining Anchor Environmental Consultants

Period	Country	Clients	Project, Tasks
2021	South Africa	The Breede-Gouritz Catchment Management Agency (BGCMA) and the South African National Biodiversity Institute (SANBI).	Research Assistant: Water Resource Management (Part Time) Synthesis and analysis of 14 years of water quality data from the Breede River and its catchment—aiming to strengthen the scientific knowledge base and better inform catchment management. Roles and Tasks • Collating and standardising 14 years of water quality data; • Conducted trend analyses across individual sites and three river reaches (Downstream, Midstream, Upstream); • Assessed Resource Quality Objectives (RQO) compliance; and • Authored concise concluding report to inform future management.

THESES

Armitage M.P.A. 2022. An Assessment of the Heavy Metal Concentrations in Surface Sediments from the Knysna Estuary. MSc Thesis, The University of Cape Town, 172 pp.

Armitage M.P.A. 2018. A Current Analysis of the Heavy Metal Load in the Ashmead Channel (Knysna Lagoon) Sediments. BSc (Hons) Thesis, University of Cape Town, 39 pp.

CONFERENCES

- 2021** Joint Society of South African Geographers-Southern African Association of Geomorphologists Conference (Presentation)
- 2021** International Association for Impact Assessment South Africa: Re-Thinking IEM (Integrated Environmental Management) in Pursuit of the Sustainable Development Goals (Attendee)
- 2021** National Research Fund-National Natural Sciences Foundation of China Collaborative Research Closing Symposium with academics from East China Normal University (Presentation)
- 2019** National Research Fund-National Natural Sciences Foundation of China Collaborative Research Symposium hosted in Shanghai with academics from East China Normal University and the University of Cape Town (Presentation)
- 2019** Pollution State of the Knysna Estuary Symposium with members of the Knysna Municipality, Town Council, and stakeholders (Presentation)
- 2018** National Research Fund-National Natural Sciences Foundation of China Collaborative Research Symposium hosted in Shanghai with academics from East China Normal University and the University of Cape Town (Presentation)
- 2018** International Urban Biodiversity & Food Security conference, held in Cape Town (Volunteer & Attendee).

**Environmental Assessment
Practitioners Association
of South Africa**



Registration No. 2024/7978

Herewith certifies that

MICHAEL PHILIP ANTHONY ARMITAGE

is registered as an

Candidate 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

