

Curriculum Vitae (CV)

1. **Position:** Lead Environmental Assessment Practitioner

2. **Name of Firm:** Envirodu Consulting & Training Solutions cc

3. **Name of Staff:** Mr. Twalinohamba Akawa

4. **Date of Birth:** 15 March 1982 **Nationality:** Namibian

5. Education

Qualification	Specialization/Subjects	Completion Date	Institution (Mini-thesis title)
Master of Philosophy (MPhil) (Environmental Management)	Specialization: Development Planning and Environmental Analysis	March 2012	Stellenbosch University “Sustainability analysis of the Namibian marine fishing sector”.
Bachelor of Science in Natural Resources & Conservation	Specialization: Fisheries and Marine Sciences	April 2005	University of Namibia “Influence of environmental factors on distribution of Cape hake”.
International General Certificate of Secondary Education	Subjects: Development Studies (A), Physical Science (A), Biology (B), English (C) and Mathematics (C)	November 2000	Oshigambo High School

6. Membership in professional bodies:

EAPAN (Environment Assessment Professionals of Namibia) as **Apprentice Practitioner**
(Membership #130)

Vantage Africa Monitoring & Evaluation Professionals Associations as **Associate Member**

7. Other Training

Qualification	Completion Date	Institution (Mini-thesis title)
Certified Monitoring and Evaluation Certificate	July 2024	Vantage Africa School of Leadership
ISO/IEC 17025: 2017 testing and calibration	July 2024	Spectrum Laboratories & Consultancy Namibia
ISO 9001: 2015 Quality Management System	November 2022	Worldwide Engineering Systems (SAQI Membership Number: WOR001)

8. Countries of Work Experience: Namibia

9. Languages Language:

	Speaking	Reading	Writing
English	Good	Good	Good
Oshindonga	Good	Good	Good

10. Employment Record

June 2013, until now (12 years): ENVIRODU CONSULTING & TRAINING SOLUTIONS

CC as *Lead Environmental Assessment Practitioner/Owner*

Project development planning and environmental analysis. Project scoping (pre-feasibility study and risk analysis), scheduling, procurement, budgeting and preparations of tender documents. Project appraisals. Undertake SEAs (Strategic Environmental Assessments) and EIAs (Environmental Impacts Assessments) as well as compilations of EMPs (Environmental Management Plans). Support CRSs (Climate Resilient Solutions) to Climate Change. Complete ESIA (Environmental Social Impact Analysis), RAs (Risk Analysis) and BFS (Baseline Feasibility Studies). Undertake ecosystem/biodiversity assessments; maritime pollution and monitoring. Hiring/sub-contracting and support internal and external Consultants. Project implementation; ensuring projects are planned and delivered effectively and timely. Compliance and review of projects with relevant statutory and regulatory requirements. Line management and development responsibilities for sub-contracted Consultants, EAPs and Field Assistants. Project monitoring and evaluation using KPIs (key performance indicators).

November 2007-October 2025 (18 years): UNIVERSITY OF NAMIBIA as *Senior*

Marine Science Technologist

General Laboratory management. Procurement logistics; sourcing of laboratory consumables and non-consumable items. New research project design and development of SOPs (standard operations procedures) for laboratories and equipment operations. Research project implementation/appraisal and preparation to ensure compliance to relevant statutory and regulatory requirements. Implementation of ISO (International Organisation for Standardization) requirements including ISO 9001: 2015 Quality Management System and BLMPs (best laboratory management practices).

April 2006-October 2007 (1 year and 6 months): MINISTRY OF FISHERIES AND MARINE RESOURCES as *Fisheries Research Technician*

Worked for the project under the UNOPS to support new project activities for the CUFES (Continuous Underwater Fish Egg Counter) project under the Ministry of Fisheries and Marine Resources (MFMR). Ensure the sub-contractor awarded the engineering tender to mount the CUFES on the Namibian Research Vessel (RV) (RV/*Welwitchia*) complies to regional and international requirements so that data collected meets international standards. Support regional and international Consultants from elsewhere to be able to inspect the new Namibian CUFES for benchmarking and quality control purposes. Participate in regional marine surveys (South Africa/August 2005 onboard the Research Vessel/*Africana*) and international surveys (Norway/September 2005 onboard the Research Vessel/*Fridtjof Nansen*) to witness CUFES operations. The CUFES project was later successfully integrated into the MFMR's activities and Mr. Akawa was later appointed as the Fisheries Research Technician responsible for CUFES along with other line duties.

11. Work undertaken that Best illustrate Capability to handle the tasks assigned

May 2025-August 2025

Assignment name: Environmental and Social Impact Assessment (ESIA) Report and Development of Environmental and Social Impacts (ESMP) Reports for the proposed orchards development activities in Etunda, Uvhungu-Vhungu And Sikunda Green-Scheme Irrigation Projects.	
Country: Namibia	Duration of assignment: 6 months
Reference: AIJ Consulting Engineers & Infrastructure Managers (Pty) Ltd Private Bag 13184 Windhoek P.O. Box 20261 T: +264 61 208 7486 Windhoek E: h.amutenya@mawlr.gov.na T: +264 61 308 106 E: egineering@aijceim.com	Total No of staff-months of the assignment: 4 months
Narrative description of Project: Undertake the ESIA process and development of ESMP for the proposed cultivation and harvesting of fruits in orchards in spaces between pivot irrigation systems. The Proponent proposed construct low-cost housing under the NHE Social Housing Programme. The Programme needed funding from the Development Bank of Southern Africa (DBSA) and Development Bank of Namibia (DBA). For the Programme to qualify, the NHE needed to meet requirements by these funding institutions including: - Completion and submission of the ESIA and ESMP Reports. - Development of the Environmental, Social and Governance Report. - Development of the ISO 14001: 2016 Environmental Management System (EMS). The following Lead Environmental Assessment Practitioner consulting under ECUTS provided the above environmental services: Mr. Twalinohamba Akawa (Lead EAP): responsible for overall project management, project screening and scoping as well as support to team members.	

- These Reports were completed in May 2025 and funding for the Programme is provisionally approved by DBN and DBSA.

November 2024-June 2025

Assignment name:

- Environmental and Social Impact Assessment (ESIA) Reports and Development of Environmental and Social Impacts (ESMP) Reports for the proposed NHE Social Housing Programme
- Development of the Environmental, Social and Governance Report for the proposed NHE Social Housing Programme.
- Development of the ISO 14001: 2016 Environmental Management System (EMS) for the proposed NHE Social Housing Programme.

Country: Erongo Region, Namibia

Duration of assignment: 5 months

Reference:

National Housing Enterprise
P. O. 20192, Windhoek
Contact: Mr. Indileni Set-Sam lipinge

Total No of staff-months of the assignment:

6 months

Narrative description of Project:

Undertake the ESIA process and development of ESMP for the proposed NHE Social Housing Programme. The Proponent proposed construct low-cost housing under the NHE Social Housing Programme. The Programme needed funding from the Development Bank of Southern Africa (DBSA) and Development Bank of Namibia (DBA). For the Programme to qualify, the NHE needed to meet requirements by these funding institutions including:

- Completion and submission of the ESIA and ESMP Reports.
- Development of the Environmental, Social and Governance Report.
- Development of the ISO 14001: 2016 Environmental Management System (EMS).

The following Lead Environmental Assessment Practitioner consulting under ECUTS provided the above environmental services:

- **Mr. Twalinothamba Akawa (Lead EAP):** responsible for overall project management, project screening and scoping as well as support to team members.
- These Reports were completed in May 2025 and funding for the Programme is provisionally approved by DBN and DBSA.

October 2024-February 2025

Assignment name: Scoping Report (including assessment) and EMP for provision of underwater cleaning services in the port of Walvis Bay	
Country: Erongo Region, Namibia	Duration of assignment: 4 months
Reference: Walvis Bay Diving & Salvage cc P. O. Box 2769 Walvis Bay Contact: Tari van De Merwe	Total No of staff-months of the assignment: 3 months
Narrative description of Project: Scoping Report (including assessment) and EMP for Walvis Bay Diving & Salvage cc. The Proponent proposed to provide in-water cleaning service to vessel operators within the Walvis Bay port using underwater ROVA-CART cleaning technology. This underwater technology reclaims marine debris (also called bio-film) removed from the vessels and this allows for the biofilm to be easily managed and controlled. The ECC was first approved (January 2022) and got expired on January 2025. The proponent requested Envirodu Consulting & Training Solution to renew the ECC and the application for renewal was approved in February 2025. The following Lead Environmental Assessment Practitioner consulting under ECUTS provided the environmental services required to support application for the renewal ECC: • Mr. Twalinothamba Akawa (Lead EAP): responsible for overall project management, project screening and scoping as well as support to team members. Launch application for the ECC. • The ECC was approved in February 2025.	

March 2022-May 2024

Assignment name: Scoping Report (including a Full EIA) and EMP Report for the proposed construction and operation of a fin-fish cage farm in Lüderitz, //Karas Region, Namibia.	
Country: Namibia	Duration of assignment: 9 months
Reference: Benguela Blue Aqua Farm (PTY) LTD P. O. Box 2558 Windhoek Contact: Mr. Johannes Aldrian (0812230841)	Total No. of staff-months of the assignment: 8 months
Key Tasks	Mr. Twalinothamba Akawa (Team Leader), responsible for: ➤ Project initiation, scoping, tendering, coordination, costing, scheduling, staffing/sub-contracting and submission of tender document to the Client for evaluation and approval. ➤ Contract negotiation and signing. Attend inception meeting to validate methodologies and approaches in undertaking project activities including a water quality/environmental survey in Lüderitz. ➤ Plan, co-ordinate and participate in a water quality/ environmental survey as well as compilations of Reports (EIA, EMP and speciality study Reports). ➤ Support the Public Participation Process. Stakeholder consultations, obtain consent letters, reporting, feedback and monitoring and evaluation. ➤ Support activities in the permitting process and application to obtain ECC and Aquaculture licence: It was our key achievement when the ECC and Aquaculture licences were approved.

September to December 2022

Assignment name: Provision of underwater hull cleaning services using the Scomberg Vacu-Cart and Reclamation Filtration System in Walvis Bay, Erongo region, Namibia.	
Country: Erongo Region, Namibia	Duration of assignment: 4 months
Reference: Ufudu Marine Namibia cc P. O. 2184, Windhoek Contact: Mr. Martiens Boysen (+27824499541) or martiens@ufudumarine.com	Total man-days on the assignment: 3 months

Start date (month/year): September 2022 Completion date (month/year): October 2022	
Name of associated Consultants, if any: N/A	Name of senior professional of ENVIRODU CONSULTING & TRAINING SOLUTIONS cc involved and functions performed (indicate most significant profiles such as Project Director/Coordinator, Team): MR. TWALINOHAMBA AKAWA (LEAD ENVIRONMENTAL ASSESSMENT PRACTITIONER) responsible for overall project management, project screening and scoping as well as support to team members. Launch application for the ECC.
Narrative description of Project: Scoping Report (including assessment) and EMP for Ufudu Marine Namibia cc, Walvis Bay. The Proponent would like to provide in-water cleaning service to vessel operators within the Walvis Bay port using underwater cleaning technologies. This underwater technology reclaims marine debris (also called bio-film) removed from the vessels and this allows for the biofilm to be easily managed and controlled. The ECC was approved (December 2022). The following Consulting Team consulting under ECUTS provided the environmental services required to support application for the ECC: • Mr. Twalinhamba Akawa (Lead EAP): responsible for overall project management, project screening and scoping as well as support to team members. Launch application for the ECC. • Ms. Naemi Nelumbu (Public Consultation facilitator): she facilitated the public meeting in Uis. She compiled issues and concerns raised at the meeting and compiled the public participation report as part of the Scoping EIA Report. Assisto make follow regarding progress on the ECC approval by MEFT. • Mr. Michael Matues (Biodiversity Expert): was responsible for compiling the biodiversity and baseline report as part of the Scoping EIA and compiled the EMP.	
Description of actual services project provided by your staff within the assignment: <u>UP-STREAM PROJECT SERVICES</u> THE FOLLOWING STAKEHOLDERS WERE APPROACHED TO REQUEST FOR CONSENT LETTERS: • Ministry of Environment, Forestry and Tourism (Permitting Authority). • Ministry of Fisheries and Marine Resources (Competent Authority). • Ministry of Works and Transport (Key Stakeholder). REVIEW THE FOLLOWING KEY LEGAL INSTRUMENTS: • Environmental Management Act (No. 7 of 2007) and EIA regulations of 2012. • Marine Traffic Act (no. 2 of 1981). • Merchant Shipping Act (no. 57 of 1951). • Pollution Control and Waste Management Bill. CATEGORIZE THE PROJECT UNDER TARGET ECONOMIC SECTOR & ACTIVITY: • Maritime transport.	

- Waste Management.

UNDERTAKE THE PUBLIC PARTICIPATION PROCESS IN A PHASED APPROACH AS FOLLOW:

SEPTEMBER 2022 (phase I):

- Advert in the *Namib Times newspaper and Confidente newspaper*: 02 September 2022.
- Advert in the *Namib Times newspaper and Confidente newspaper*: 09 September 2022.
- Release of BID to Client and registered IAPs.
- Release of draft EIA and EMP Reports and request for consent letters from the Competent Authorities.

OCTOBER 2022 (phase III):

- Public meeting in Walvis Bay.
- Launch application with MEFT and upload all documents on the EIA portal.

NOVEMBER- 30 DECEMBER 2022 (phase III):

- Waiting period for GRN/MEFT and the EC to issue a Record Decision.

DOWN-STREAM PROJECT SERVICES

- Prepare and submit bi-annual environmental monitoring and evaluation reports.
- Implementation of the EMP and undertake water quality surveys, co-ordinate sampling, analysis and reporting of results.
- Assist with the permitting for renewal of ECC, by starting the process 2-3 months before ECC expires in December 2025.

September to May 2023

Assignment name: Scoping Report (including assessment) and EMP for Brandberg White Lady Lodge, Daures Constituency	
Country: Erongo Region, Namibia	Duration of assignment: 5 months
Reference: Brandberg White Lady Lodge P. O. Box 158 Henties Bay Contact person: Mr. Eric Xaweb Cell: 0813479255	Total No of staff-months of the assignment: 3 months
Name of associated Consultants, if any: N/A	Name of senior professional of your firm involved and functions performed (indicate most significant profiles such as Project Director/Coordinator, Team): Mr. Matteus Hanghome (Lead EAP) responsible for overall project management, project screening and scoping as well as support to team members. Launch application for the ECC.
Narrative description of Project: The Proponent would like to construct and operate a private landing strip to facilitate landing and taking-off of light aircrafts in order to boost tourism. The following Consulting Team consulting under ECUTS was appointed to prepare environmental services required to support application for the ECC: Mr. Matteus Hanghome (Lead EAP): responsible for overall project management, project screening and scoping as well as support to team members. Launch application for the ECC. Ms. Naemi Nelumbu (Public Consultation facilitator): she facilitated the public meeting in Uis. She compiled issues and concerns raised at the meeting and compiled the public participation report as part of the Scoping EIA Report. Assist to make follow regarding progress on the ECC approval by MEFT. Mr. Michael Matues (Biodiversity Expert): was responsible for compiling the biodiversity and baseline report as part of the Scoping EIA and compiled the EMP.	

Consulting Firm: Envirodu Consulting & Training Solutions (ECUTS) cc

January 2023-August 2023

Assignment name: Scoping Report (including assessment) and EMP for the proposed construction of	
Country: Erongo Region, Namibia	Duration of assignment: 4 months
Reference: BRUKKAROS HYDROPONIC FARMING (PTY) LTD P. O. BOX 1137 KEETMANSHOOP	Total No of staff-months of the assignment: 3
Name of associated Consultants, if any: N/A	Name of senior professional of your firm involved and functions performed (indicate most significant profiles such as Project Director/Coordinator, Team): Mr. Matteus Hanghome (Lead Environmental Assessment Practitioner): responsible for overall project management, project screening and scoping as well as support to team members. Launch application for the ECC.
Narrative description of Project: The Ministry of Agriculture, Water and Land Reform supports the <i>Bring Back Better Agriculture</i> (BBBA) Project which focuses on increasing food sufficiency in urban areas. The initial pilot sites of the BBBA project were Erongo, Hardap, Khomas and Kavango Regions. The Proponent would like to apply the concept in Karas region (Keetmashoop) by constructing and operating an aquaponic urban farm with complete solar. The following Consulting Team consulting under ECUTS was appointed to prepare environmental services required to support application for the ECC: • Mr. Matteus Hanghome (Lead EAP): responsible for overall project management, project screening and scoping as well as support to team members. Launch application for the ECC. • Ms. Naemi Nelumbu (Public Consultation facilitator): she facilitated the public meeting in Uis. She compiled issues and concerns raised at the meeting and compiled the public participation report as part of the Scoping EIA Report. Assisto make follow regarding progress on the ECC approval by MEFT. • Mr. Michael Mateus (Biodiversity/GIS Consultant): was responsible for compiling the biodiversity and baseline report as part of the Scoping EIA and compiled the EMP.	

May 2022-December 2022

Assignment name: Development of a National Oil Dispersant Policy for Namibia.	
Country: Erongo Region, Namibia	Duration of assignment: 6 months
Reference: Ministry Works and Transport Private Bag 5004 Walvis Bay Contact: Mr Shapua Kalomo (0811482667)	Total No of staff-months of the assignment: 6 months
Name of associated Consultants: NYEPEZ CONSULTANCY CC - Mr. Gift M. Sinyepe (Back-Stopping Consultant) GLOBAL INITIATIVE FOR WEST, CENTRAL AND SOUTHERN AFRICA (GI WACAF) - Mrs. Anaïs Guillou (International Consultant) - Mrs. Rim Al Amir (International Consultant) - Mrs. Lindsay Page-Jon (International Consultant)	Name of senior professionals of ENVIRODU CONSULTING & TRAINING SOLUTIONS cc involved and functions performed: - Mr. Twalinohamba Akawa (Team Leader) - Mr. Abednego Ekandjo (Workshop Facilitator) - Mr. Divine Chakombera (Legal Consultant)
Narrative description of Project: The Client (Ministry of Works and Transport) needed to develop a NATIONAL OIL DISPERSANT USE POLICY FOR NAMIBIA in order to be able to use oil dispersants at sea to be prepared in combating oil spills. Currently the use of oil dispersants is unregulated and this policy, when approved, will enable the Client do regulate use of oil dispersants. The Client appointed ECUTS to develop the policy and facilitate stakeholder engagements and conduct workshops required during the policy development process.	
Description of actual services project provided by your staff within the assignment: Consultancy Activities PHASE 1 (May to July) Inception meetings: - First inception meeting was between the Team Leader and the Deputy Director of Marine Pollution Control and SAR (representing the main Client: Ministry of Works and Transport) in May 2022. - Second meeting was with the sponsoring agency (Benguela Current Commissioner) team to present proposed approaches and methodologies in May 2022. - Inception Report was prepared and submitted to the Client. Situational analysis was conducted to identify stakeholders and key issues related to oil spills:	

- A draft stakeholder Analysis Report was prepared and submitted to the Clients.

Awareness raising: access to information is key in environmental governance in order to bridge the gap between science and policy-making. For example, due to the chemistry science of oil dispersal as well the effects of oil spills on marine life; awareness was important to understand these interrelationships:

Stakeholders identified were visited in July 2022 in all 4 coastal regions and in Windhoek (Khomas Region):

- Stakeholders in **Kunene Region** (Venue, Boardroom of the Kunene Regional Council): Kunene Regional Council, Opuwo Town Council and other stakeholders.
- Stakeholders in **Khomas Region** (Venue, Board of the Ministry of Works and Transport): City of Windhoek, Namibia University of Science and Technology, Ministry of Mines and Energy, University of Namibia, Ministry Environment, Forestry and Tourism, Ministry of Agriculture, Water and Land Reform, Namibia Nature Foundation, and other stakeholders.
- Other stakeholders visited in **Erongo, Hardap and //Karas Regions** were: Hardap Regional Council, Mariental Town Council, //Kara Regional Council, Luderitz Town Council, Namibia Ports Authority, Ministry of Health, Ministry of Mines and Energy and others.

PHASE 2 (August to September)

Key activities: Inception workshop, stakeholder engagements and mid-term performance review workshop.

Inception Workshop was held in Swakopmund to present findings from project activities from phase I. This was presented not only to Clients but also Steering Committees on Marine Pollution in Namibia. The Marine Pollution Steering Committee is composed of Representatives from GRN Entities, universities, town councils, municipalities, local authorities and civil societies. They meet regularly to discuss issues related to marine pollution.

Issues raised during the workshop were incorporated into the **Inception Workshop Report** with the purpose for it to inform the **National Oil Use Dispersant for Namibia** development policy process.

It was noted that not all stakeholders were consulted during Leg 1 consultations. Leg 2 consultation process was launched again to conduct more stakeholder engagements and this time with more focus in Erongo and Khomas Regions. ECUTS change the strategy from boardroom meetings to field visits by conducting door-to-door personal interview. This was after Consultants realised that many stakeholders affected by the use of oil dispersants especially those in the oil & gas industry were too busy to attend meetings or workshops. This strategy worked; however, it was time consuming and more Field Assistants were needed to undertake interviews.

While consultations were on-going, the legal team in the background was busy drafting the **National Oil Use Dispersant for Namibia**. This draft was shared with the main Client and the sponsoring agency as well as all members of the Steering Committees on Marine Pollution in Namibia. This was to ensure that a national policy is developed with inputs by all Namibians. Inputs and suggestions on the documents were attended immediately and incorporated in order to make sure the document is ready for review at the Mid-term Workshop in September 2022. The **mid-term performance review Workshop** was the last opportunity to refine the document before its **validation and approval** at the National Validation Workshop in November.

PHASE 3 (October to December)

Key activities: quality assurance & control, regional and international bench-marking and back-stopping support

For **back-stopping** a legal Consultant (Mr. Divine Chakombera) from Zimbabwe was also part of the consultation team. Most communications were virtual but he was eventually able to facilitate the National Validation Workshop on Dispersant Use Policy.

For **quality control** and **international inputs**, assistance was sought from the **Global Initiative for West, Central and Southern Africa (GI WACAF)**. Initially, discussions between GI WACAF, ECUTS and Ministry of Works and Transport were mainly online (emails, whassup, Microsoft teams, etc). However, towards the end it was recommended that GI WACAF Consultants should be availed to co-facilitate the National Validation Workshop in Namibia (Windhoek) which took place in November 2022 (). The following Consultants co-facilitated the National Validation Workshop ([report \(giwacaf.net\)](https://giwacaf.net)) together with Consultants from ECUTS at which the draft **National Oil Use Dispersant for Namibia** was approved:

- Mrs. Anais Guillou (International Consultant)
- Mrs. Rim Al Amir (International Consultant)
- Mrs. Lindsay Page-Jon (International Consultant)

While development of the National Dispersant Use Policy for Namibia was a lengthy process Consultants enjoyed doing it. This Policy will contribute to a cleaner Namibian marine environment by promoting responsible use of oil dispersants in waters and prevent marine pollution. And it is always ECUTS [philosophy](#) to protect our fragile environmental for the future generations without compromising on benefits of the present generation.

Consulting Firm: Envirodu Consulting & Training Solutions (ECUTS) cc

12. References

Mr Shapua Kalomo (0811482667)

Ministry Works and Transport

Private Bag 5004

Walvis Bay

Mr. Natangwe Ndakunda

Nghivelwa Planning Consultants

Mobile: 0814127359

Mr. Indileni Set-Sam lipinge

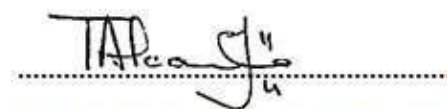
National Housing Enterprise

Mobile: 0811405428

14. Certification:

I, the undersigned, certify that to the best of knowledge and belief, these data correctly describe me, my qualification and experience.

Date: 26 June 2025

A handwritten signature in black ink, appearing to read 'Twalino Hamba Akawa', is written over a horizontal dotted line.

TWALINOHAMBA AKAWA