

CURRICULUM VITAE: CATHERINE MEYER



PROFILE

Catherine is a passionate and energetic young coastal environmental scientist.

For four years, Catherine conducted biological studies in numerous estuarine systems in Kwazulu-Natal, leading to the achievement of a Masters Degree in Estuarine Ecology. She has more than five years experience in biological data collection, laboratory processing, microscopy and identification of benthic macroinvertebrates. Catherine is also an accredited SASS5 biomonitoring practitioner, focussing on invertebrate communities and riverine health.

PERSONAL

Name: Catherine Meyer
Nationality: South African
ID number: 850104 0021 080
Industry: Estuarine Ecologist / Coastal Environmental Consultant
Experience: 9 years

CONTACT DETAILS

Mobile: 082 7366 357
Tel: 031 764 4947
Email: catherine@coastwise.co.za
catherineanne.stow@gmail.com
Address: 13 Mimosa Avenue, Ashley, 3610

QUALIFICATIONS

2012 MSc Estuarine Ecology, University of KwaZulu-Natal, South Africa
2007 BSc (Hons) Marine Ecology (Cum Laude), University of KwaZulu-Natal, South Africa
2006 BSc Environmental Biology and Geology, University of KwaZulu-Natal, South Africa

MEMBERSHIPS

- International Association for Impact Assessment South Africa (IAIASa)
- Coast Watch (Coastal NGO), Member

LANGUAGES

English Native proficiency

During her time as an Environmental Consultant at Royal HaskoningDHV, Catherine provided specialist support regarding estuarine and coastal ecology to the Royal HaskoningDHV Coastal Service Line in South Africa. In so doing, Catherine has undertaken several estuarine impact assessments and aquatic biomonitoring studies, and contributed to the development of estuarine management plans, estuarine mouth management plans, coastal management programmes, environmental management frameworks, development concept planning, and state of the environment reporting.

Catherine is now an Associate of **CoastWise Consulting**, which specialises in coastal-specific work and is associated with various companies including Royal HaskoningDHV, FutureWorks, Phelamanga Projects, Groundtruth and others.

EMPLOYMENT HISTORY

May 2017 to present	t/a CoastWise Consulting	Sole proprietor
January 2013 to April 2017	Royal HaskoningDHV	Environmental Consultant
April 2011 to December 2012	Royal HaskoningDHV	Junior Consultant
February 2007 to March 2011	South African Association for Marine Biological Research: Oceanographic Research Institute	Research Assistant in the Estuary Portfolio

CORE COMPETENCIES

Catherine offers:

- Knowledge of estuarine ecology, including health, processes and functioning;
- Knowledge of estuarine-specific legislation, and relevant supporting legislation;
- Estuarine and freshwater invertebrate identification and microscopy skills; and
- Excellent report writing and communication skills.

ACCREDITATIONS / ACHIEVEMENTS/ AWARDS

- National Aquatic Ecosystem Health Biomonitoring Programme: Accredited SASS5 Biomonitoring Practitioner (latest accreditation 2015)
- Best oral presentation at the April 2011 SAMSS/ECSA international conference

ABRIDGED PROJECT EXPERIENCE (CONSULTING SINCE 2011)

Integrated Coastal Management	
Projects:	• Northern Cape Coastal Management Programme • Eastern Cape Coastal Management Programme • Alfred Nzo District Municipality Coastal Management Programme • Tongaat Hulett Developments Professional Support
Project roles:	Specialist input and guidance in respect to estuarine management, and drafting and updating of coastal management programmes.
Clients:	Provincial Departments, District Municipalities, and Private Sector
Estuarine Management and Impacts	
Projects:	• Mpenjati Estuarine Management Plan • Kleinbrak Estuarine Management Plan • Isipingo Estuarine Management Plan • eThekweni IRPTN: uMgeni Estuarine Impact Assessment • Northern Aqueduct Bulk Water Pipeline Project: uMgeni Estuarine Impact Assessment • Tinley Manor Southbanks Coastal Development: uMhlali Estuarine Impact Assessment • Tinley Manor Beach Enhancement: uMhlali Estuarine Impact Assessment • La Mercy Beach Development: uMdloti Estuarine Impact Assessment • Estuary Management Framework and Implementation Strategy for the Western Cape Province
Project roles:	• Information gathering, compilation of Situation Assessments, development of Estuarine Management Plans (EMPs), and facilitation of stakeholder engagement. • Identification and assessment of the potential impacts of the proposed

	developments on the respective estuarine systems and provide mitigation measures • Updating of Western Cape EMPs, compilation of new EMPs; contribution to the development of an Estuary Management Framework and Implementation Strategy for the Western Cape Province.
Clients:	Provincial Departments, Metropolitan Municipalities, Local Municipalities, Conservation Authorities and Environmental Consultancies

Strategic Environmental Planning & State of the Environment Reporting

Projects:	• Development of a Wetland Off-set Management Plan for the Richards Bay IDZ • Dube TradePort State of the Environment Report 2014 (Water Resources Chapter) • North West Provincial Environmental Outlook 2013 (Biodiversity Chapter) • Western Cape State of Environment Report 2013 (Biodiversity Chapter) • Gauteng State of Environment Report 2011 (Biodiversity Chapter) • Environmental Management Framework (EMF) for the iLembe District Municipality • Scottburgh Urban Renewal Project • Margate Urban Renewal Project
Project roles:	• Collation of wetland data and information, liaison with wetland specialist, and compilation of Wetland Off-set Management Plan / Mitigation Plan • Acquisition of critical information and data, and compilation of specific environmental chapters in SOERs • Preparation of estuarine status quo and desired state assessments for iLembe District Municipality EMF • Estuarine/coastal specialist input in respect to the integration of the respective estuaries and local coastal assets into the urban renewal concepts of the Scottburgh and Margate Beachfronts, and contribution to concept precinct development framework and intervention strategies
Clients:	Provincial Departments, District Municipalities, Local Municipalities, Industrial Development Zones

Environmental Assessments / Basic Assessments / Permitting

Projects:	• Coastal Waters Discharge Permit application for eThekweni Southern Waste Water Treatment Works Sea Outfall • Coastal Waste Impact Assessment: Umdoni Bitumen Spill • Virginia Beach Boma Basic Assessment
Project roles:	• Acquisition of critical information and data, client liaison, and completion of permit application forms and supporting technical documentation • Coastal and estuarine field investigation, audit of municipal maintenance depot and compilation of waste impact report • Background information gathering, high level environmental screening, identification and assessment of potential impacts associated with the proposed development, compilation of application form towards obtaining environmental authorisation, and facilitation of public participation
Clients:	Metropolitan Municipalities, Local Municipalities, Environmental Consultancies

Environmental Monitoring

Projects:	• Winkelspruit Dune Rehabilitation Environmental Control Officer (ECO) • Virginia Airport Stormwater Network ECO • Margate South Beach Tidal Pool Rehabilitation ECO • Riverside Road Cycle Track ECO • Beachfront Upgrade Phase 1: Extended in-fill ECO • eThekweni Promenade Phase 2 ECO • Mkuze River Bridge on Road D2442 Makhwela Road ECO • SAPPI Biomonitoring • Umgababa Beach Node Redevelopment EMPr
Project roles:	• As ECO, conducting basic environmental training, updating the EMPr, undertaking environmental site audits / environmental monitoring according to the EMPr, compilation of audit reports, and conducting the final close-out audits • Conducting biological sampling of estuarine and freshwater invertebrates, data analysis, comparison of biological states, and compilation of findings report • Drafting of several specific environmental plans and the final integrated EMPr for the Umgababa Beach Node Redevelopment
Clients:	Provincial Departments, Metropolitan Municipalities, Local Municipalities, Environmental Consultancies

ABRIDGED RESEARCH EXPERIENCE (PRIOR TO 2011)

- Spatial and temporal variations in macrozoobenthic communities in KwaZulu-Natal temporarily open/closed estuaries
- Ecological changes to Lake Nhlabane related to artificial level fluctuation and Indirect effects of heavy mineral dune mining on the estuarine ecology of Nhlabane Estuary
- St Lucia drought monitoring: monitoring changes in invertebrate communities
- Ecological effects of dredging and dredge disposal on the coastal environment
- Macrobenthos of the Kosi Bay Estuarine Lake System

COURSE ATTENDANCE

1. Management of Estuaries in South Africa (2014) – Institute: Nelson Mandela Metropolitan University in association with Department of Environmental Affairs.
2. Tools for Wetland Assessment (2013) – Institute: Rhodes University, Department of Environmental Science.
3. SASS5 Aquatic Biomonitoring Training (2012) – Institute: GroundTruth in association with Department of Water Affairs and Environmental Affairs.

REFERENCES

Ms Fiona Mackay	Senior Scientist Oceanographic Research Institute Tel: 031 - 328 8172 or 082 9277 890 fmackay@ori.org.za
Mrs Tandi Breetzke	CoastWise Consulting Tel: 031 - 764 4947 or 082 8737 400 tandi@coastwise.co.za
Mr Steven Weerts	Senior Researcher Council for Scientific and Industrial Research Tel: 031 - 242 2356 or 082 870 4310 sweerts@csir.co.za