

CONTACT DETAILS

Name of Company	EOH Coastal & Environmental Services
Designation	East London Branch
Profession	Principal Environmental Consultant
Years with firm	10 Years
E-mail	Greer.Hawley@eoh.co.za g.hawley@cesnet.co.za
Office number	+27 (0)43 726 7809
Nationality	South African
Professional body	SACNASP: South African Council for Natural Scientific Profession
Key areas of expertise	<ul style="list-style-type: none">• Environmental Impact Assessment (Aquaculture, renewable energy, waste water treatment, agriculture)• Environmental Management and Planning• Biodiversity/Conservation Management Planning• Biodiversity/Ecological Assessment

PROFILE

Dr Greer Hawley has a BSc degree in Botany and Zoology and a BSc Honours in Botany from the University of Cape Town. She completed her PhD thesis (Microbiology) at Rhodes University. Greer has been involved in a number of diverse activities. The core academic focus has been in the field of taxonomy both in the plant and fungal kingdom. Greer's research ranges from fresh water and marine algae, estuarine diatoms, plant species classification in the fynbos and forest vegetation and fungal species identification and ecology. Greer's study of fungi have also contributed towards an understanding of soil ecology. Greer is involved with a number of environmental impact assessments and environmental management projects, and is currently managing the review of the Eastern Cape Biodiversity Conservation Plan.

**EMPLOYMENT
EXPERIENCE**

- 1998 : Botanical consultant:
University of Cape Town
- Laboratory assistant: University of Cape Town
- 1999 : Undergraduate Tutor:
University of Cape Town
- 2000- 2001 : Temporary administrative
positions:
 - Robert Half International, London
 - Assistant Office Manager: Warwick
House, London
 - Office administration: West London
Magistrates Court, London
- 2002: Laboratory Assistant: Amphigro
- 2002- 2007: Undergraduate Tutor: Botany and
Microbiology, Rhodes University
- 2006- 2007: Laboratory researcher: Abalone
Probiotic isolation and testing, Rhodes
University
- 2007: Laboratory assistant and product quality
control: Mycoroot (Pty) Ltd, Grahamstown
- 2007- present : Principal Environmental
Consultant - Coastal & Environmental Services

POST GRADUATE STUDENT SUPERVISION

- 2005 – 2007: 3 Honours students in the
Mycology Unit, Rhodes University
- 2006: MSc student in the Mycology Unit,
Rhodes University.
- Current: Co-supervisor of a PhD student in the
Mycology Unit, Rhodes University

**ACADEMIC
QUALIFICATIONS**

- *PhD Microbiology Rhodes University 2008*
- *BSc Hons Botany University of Cape Town
1999*
- *BSc Natural Science (Botany and Zoology)
University of Cape Town 1998*
- *Training in Greenhouse Gas Accounting for
Forest Inventories Greenhouse Gas
Management Institute 2009*

PUBLICATIONS

2016 (June): Hawley, G, Berliner, D and Desmet P. *Eastern Cape Biodiversity Sector Plan and Biodiversity Strategy and Action Plan. Biodiversity Planning Forum.*

2016: Hawley, G, Berliner, D and Desmet P. *Eastern Cape Biodiversity Sector Plan and Biodiversity Strategy and Action Plan. Thicket Forum*

2016: Hawley, G, Berliner, D and Desmet P. *Eastern Cape Biodiversity Sector Plan and Biodiversity Strategy and Action Plan. International Association of Impact Assessment, South Africa.*

2010: Hawley, GL, McMaster AR and Carter AR. *The Environmental and Social Impact Assessment, and associated issues and challenges associated with Biofuels. African, Caribbean and Pacific Group of States (ACP), Science and Technology Programme, Sustainable Crop Biofuels in Africa.*

2009: Hawley, GL, McMaster AR and Carter AR. *Carbon, carbon stock and life-cycle assessment in assessing cumulative climate change impacts in the environmental impact process. International Association of Impact Assessors.*

2008: Hawley GL and Dames JF. *Ectomycorrhizal species diversity above- and below ground comparison in Pinus patula (Schlecht et Cham) plantations, South Africa. South African Society for Microbiology (Poster presentation).*

2006: Hawley, GL and Dames, JF. *Morphological and molecular identification of ectomycorrhizal fungi in Pinus plantations. South African Society of Microbiology.*

COURSES

*Rhodes University-Coastal & Environmental Services:
Environmental Impact Assessment Course 2008*

**CONSULTING
EXPERIENCE**

ENVIRONMENTAL MANAGEMENT EXPERIENCE

Specialist studies

- Eastern Cape Biodiversity Conservation Plan review and Biodiversity Strategy and Action Plan (2016-ongoing)

I am currently undertaking a number of roles on this project, including the following:

- Project manager
- Biodiversity data collection and analysis
- Part of planning team
- One of the report writing authors
- Client and stakeholder liaison

- Waaihoek Wind Energy Facility (2013-2015): EIA and Ecological Sensitivity Assessment

This assessment, located just east of Utrecht in KZN, involved two elements: an EIA and a detailed vegetation survey of Grassland and Thornveld (Savanna) culminating in an ecological sensitivity map.

- Olivewood Golf Estate (2014): EIA and Ecological Sensitivity Assessment

This assessment, located 25km north of East London in the Eastern Cape, involved two elements: an EIA and a detailed vegetation survey of Thicket, Thornveld (Savanna) and Forest vegetation culminating in an ecological sensitivity map.

- Eastern Cape Biofuel Strategic Environmental Assessment (2014-2016)

This assessment involved the detailed assessment of optimal grow areas against environmental constraints. The product was aimed at selecting the best clustered areas of growth potential, outlining the respective

environmental constraints within these clusters, in order to guide investor interests. Detailed mapping analysis was undertaken.

- Balama Graphite Mine and Tete Iron Mine, Mozambique (2013): Biodiversity Survey and Ecological Sensitivity Assessment

These assessments were both located in Mozambique. Detailed biodiversity surveying and assessment of ecological sensitivity (identify NO-GO areas) were undertaken.

- Addax BioEnergy (2009/2010), Biodiversity and Ecological Impact Assessment AND Carbon Stock Impact Assessment, Sierra Leone.

The above specialist studies were submitted as separate deliverables and are described separately.

Biodiversity and Ecological Impact Assessment: This study involved the survey of a 60 000 ha site in Sierra Leone. The vegetation types were described and assessed in terms of biodiversity and overall ecological sensitivity. In addition, the area was surveyed by local experts for the presence of rare and endangered faunal species, for inclusion into the report. All vegetation types were mapped using GIS. The assessment was compiled for international review in accordance with World Bank standards.

Carbon Stock Impact Assessment: In accordance with the EU directive, Biofuel production needs to demonstrate a 30% reduction in carbon emissions compared to fossil fuels. For this reason, a Carbon Stock study was carried out to determine site specific carbon stocks. This study included field calculations, vegetation and soil sampling and carbon stock calculations according to internationally accepted standards and using best practice guidelines. Using the detailed GIS vegetation maps, total carbon stocks could be calculated. Sample collection included local academic soil scientists. This study and associated methodology was compiled according to the International Panel on Climate Change (IPCC) standards.

- Wild Coast Forest Survey: (2009-2010) Department of Water and Forestry / Eastern Cape Parks Board initiative

The forest survey included substantial field work and data collection of the following: plant species identification, GPS mapping of forest boundaries, forest-typing and identifying and quantifying disturbance impacts.

- Mncwasa Water Scheme (2009): Ecological Sensitivity Assessment

This assessment involved a detailed vegetation survey of forest vegetation and wetlands along anticipated and alternative pipeline routes. The survey included an assessment of the environmental sensitivity along the route and recommendations for mitigation and environmentally acceptable alternatives.

- Peregrine Dunes Golf Estate (2009): Vegetation Rehabilitation Plan and Ecological Impact Assessment
The Ecological Impact Assessment and Rehabilitation Plan were represented as two reports for the same project. The work carried out on the Ecological Impact Assessment included report revision writing.

The Rehabilitation Plan was submitted as part of the Environmental Management Plan and incorporated elements of re-vegetation, alien plant removal and rehabilitation, landscape restoration, based on widely accepted concepts of soil ecology and plant succession ecology.

Feasibility studies

- Coega IDZ Aquaculture Feasibility Study:
Aspects of this study included the consideration of the environmental sustainability, economic and financial viability of the proposed project as well as an assessment of environmental risks and alternative project designs.

- Ndakana Wind farm Feasibility Study:

- Nkanya Lodge Feasibility Study: Eastern Cape Development Corporation (ECDC) initiative
Aspects of this study included the consideration of the economic and financial viability of the proposed project as well as the environmental risks and alternative technologies.

Full Scoping and Environmental Impact Assessments (South African National Environmental Management: EIA regulations)

- Buffalo City Municipality R72 national road re-alignment (2007-2008): Sleeper site
Responsibilities included: Project Management, budget management, written report, public participation and engagement with key stakeholders throughout the EIA process. Environmental approval obtained.

- Wild Coast Abalone expansion and processing plant (2008)
Responsibilities included: Project management, budget management, written reports, public participation and stakeholder engagement with key stakeholders. Environmental approval obtained.

- Qolora Aquaculture Development Zone (2011)
Responsibilities included: Project management, budget management, written reports, public participation and stakeholder engagement with key stakeholders. Environmental approval obtained.

- All Saints Hospital Waste Water Treatment Works (2012)
Responsibilities included: Project management, budget management, written reports, public participation and stakeholder engagement with key stakeholders. Environmental approval obtained.

- Jamestown Waste Water Treatment Works (2012)
Responsibilities included: Project management, budget management, written reports, public participation and stakeholder engagement with key stakeholders.

Environmental approval obtained.

- Ntabankulu Waste Water Treatment Works (2012)
Responsibilities included: Project management, budget management, written reports, public participation and stakeholder engagement with key stakeholders.
Environmental approval obtained.

- Qamata: No-gate Waste Water Treatment Works (2012)
Responsibilities included: Project management, budget management, written reports, public participation and stakeholder engagement with key stakeholders.
Environmental approval obtained.

- St Patricks Hospital Waste Water Treatment Works (2014)
Responsibilities included: Project management and report review.

State of Environment (SoER) and Environmental Management Plans (EMP) for:

- OR Tambo District Municipality, Eastern Cape Province, South Africa (2009-2010). Accepted by council.
- Joe Gqabi District Municipality, Eastern Cape Province, South Africa. (2011)
- Mquma Local Municipality, Eastern Cape Province, South Africa (2012)

Activities:

- Field survey of district municipality through aerial surveying and field work reporting of whole district municipality (incorporating 4-7 local municipalities).
- Continued interaction with municipal representatives and key stakeholders
- Workshops held with key role-players and decision-makers
- Review of planning document and integrated development programs.
- Identification of key environmental issues
- Selection of priority environmental issues

- Development of Environmental Management Action Plans directly aimed at mitigated priority issues.

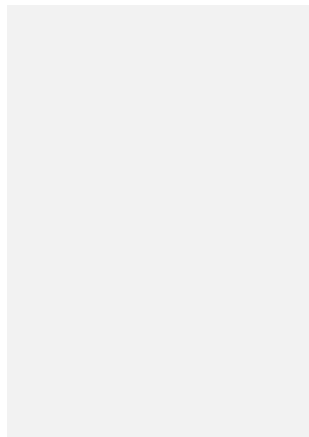
Responsibilities:

- Overall project manager,
- Budget management,
- Report writing,
- Team delegation and management and
- Client liaison.

Additional Specialist studies

- Sensitive Ecology Assessment: Mncwasa Water Scheme
- Vegetation Rehabilitation Plan: Peregrine Dunes Golf Estate
- Ecological Impact Assessment: Peregrine Dunes Golf Estate
- Vegetation Assessment: Atterbury Development

- Wild Coast Forest Survey: (current) DWAF/EC Parks initiative
- Biodiversity and Ecological Impact Assessment, Sierra Leone, Addax Biofuels
- Land use Impact Assessment, Sierra Leone, Addax Biofuels
- Thyspunt – Melkhout Eskom Power line, Ecological Impact Assessment
- Ecological Impact Assessment: Chaba Wind Energy Facility
- Ecological Impact Assessment: Chaba Wind Energy Facility
- Ecological Impact Assessment: Qunu Renewable Energy Facility
- Ecological Impact Assessment: Ncora Renewable Energy Facility
- Ecological Impact Assessment: Ngqamakwe Renewable Energy Facility
- Ecological Impact Assessment: Qumbu Wind Energy Facility
- Terrestrial Ecology Impact Assessment: Qolora



- Aquaculture Zone
- Toboshane Valley Estate: Ecological Impact Assessment
- Toboshane Valley Estate: Conservation Management Plan
- Floral Biodiversity and Impact Assessment: Niassa Green Resource, Mozambique
- Floral Biodiversity and Impact Assessment: Balama Graphite Mine
- Floral Biodiversity and Impact Assessment: Tete Iron Ore Mine

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.

GREER HAWLEY-McMASTER

Date: 1st April 2017