

## CONTACT DETAILS

<b>Name of Company</b>	<b>EOH Coastal &amp; Environmental Services</b>
<b>Designation</b>	<b>Executive Consultant (UK)</b>
<b>Profession</b>	Environmental Consultant Environmental & Social Risk Management Specialist
<b>Years with firm</b>	11
<b>E-mail</b>	k.whittington-jones@eoh.co.za k.whittington-jones@cesnet.co.za
<b>Office number</b>	+44 1794 651 210
<b>Nationality</b>	South African / British
<b>Professional body</b>	South African Council for Natural Scientific Profession (SACNASP): Environmental Scientist  Associate Member - Institute of Environmental Management & Assessment (IEMA)  Member - Institute of Waste Management of South Africa (IWMSA)
<b>Key areas of expertise</b>	<ul style="list-style-type: none"><li>➤ Environmental &amp; Social Due Diligence and Compliance Auditing</li><li>➤ International E&amp;S Safeguards and Standards (IFC, AfDB, EIB, RSB etc)</li><li>➤ Environmental &amp; Social Management Systems</li><li>➤ Waste Management</li><li>➤ Environmental Monitoring</li><li>➤ Environmental Management Training</li></ul>

## PROFILE

Kevin holds a PhD in Environmental Biotechnology and has provided E & S advisory and auditing services to clients across a wide range of industry sectors including mining, forestry, agro-industry, energy & electrical distribution, ports, tourism and finance & banking across Africa. While maintaining active involvement in Environmental Impact Assessments and projects related to waste management, sanitation and environmental management training, he has specialized in E&S auditing and risk management and has a comprehensive understanding of international E&S safeguards and standards. Kevin has worked extensively with a number of international Development Finance Institutions including the DEG, FMO, AATIF and FINNFUND and work has included E&S due diligence assessments

and provision of post-EIA technical assistance to their clients. He is currently serving as the Lenders' long-term independent E&S Advisor on two international projects.

In addition to work in South Africa, his experience also covers projects in Botswana, DRC, Egypt, Ghana, Lesotho, Malawi, Madagascar, Mozambique, Namibia, Nigeria, Sierra Leone, Swaziland, Tanzania, Uganda, Zambia, and Zimbabwe.

Prior to joining EOH CES, Kevin held a number of academic posts at Rhodes University, South Africa. The most recent was the post of Senior Lecturer at the Rhodes Business School where he was responsible for the development, management and delivery of the sustainability modules of the Master of Business Administration programme.

## **CERTIFICATION**

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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.

Kevin Whittington-Jones

Date: 1<sup>st</sup> April 2017

**EMPLOYMENT  
EXPERIENCE**

**Executive Consultant & UK Branch Manager, EOH**

Coastal & Environmental Services

*January 2017 – Present*

- Provision of E&S advisory services to wide range of clients
- Internal technical review and quality control
- Development of business opportunities
- Mentorship of junior colleagues

**Executive and Head Office Manager, EOH Coastal & Environmental Services**

*June 2014 – December 2016*

**Director & Head Office Manager, Coastal & Environmental Services**

*January 2013 – June 2014*

**Director, Coastal & Environmental Services**

*March 2009 – June 2014*

**Principal Environmental Consultant, Coastal & Environmental Services**

*January 2006 – February 2009*

**Senior Lecturer & Coordinator of the MBA Environmental Management Elective Programme, Rhodes Business School, Rhodes University**

*January 2007 – February 2009*

**Senior Lecturer, Dept. of Environmental Science, Rhodes University (Grahamstown, South Africa)**

*January 2004 – December 2006*

- Acting Head of Department (Aug – Dec 2006)

**Lecturer in Biotechnology, Dept. Biochemistry, Microbiology & Biotechnology, Rhodes University (Grahamstown, South Africa)**

*January 2002 – January 2004*

- Acting Head of Department (May – Dec 2003)

**Research Assistant and Course Coordinator for Environmental Biotechnology MSc Programme, Dept. Biochemistry, Microbiology & Biotechnology, Rhodes University**

*January 2001 – January 2002*

**ACADEMIC  
QUALIFICATIONS**

**Accounts Assistant**, Skandia Life, Southampton, UK.  
2000 – 2001

- Carbon tax assessment

**Rhodes University**, Grahamstown, South Africa

2005 - Post Graduate Diploma in Higher Education

2000 - Ph.D. Biotechnology

1997 - M.Sc. Zoology

1994 - B.Sc. Hons. Marine Biology with distinction

1993 - B.Sc. Microbiology & Zoology (Rhodes University)

**PUBLICATIONS**

1. Hoossein, S., Whittington-Jones, K.J & Tandlich, R. 2014. Sanitation policy and prevention and environmental contamination in South Africa. *Environmental Engineering and Management Journal*, 13(6): 1335 – 1340.
2. Hoossein, S., Tandlich, R., Laubscher, R.K., Whittington-Jones, K.J., Ahmed, M. and Saif- Al-Adawi. Disaster management, climate change and urban sanitation in South Africa. *Journal of Disaster Research* (In Press)
3. Whittington-Jones, K., Tandlich, R., Hoossein, S., Villet, M., Luyt, C.D., Jonsson, H. Performance of pilot-scale mulch tower system in treatment of greywater for reuse in the Buffalo City Municipality, South Africa, *Greywater: Removal, Reuse and Ecology*. Book Chapter: (In press)
4. Turk, B.K., Shackleton, C.M. & Whittington-Jones, K. 2013. Prevalence of sustainability reporting practices of a sample of listed companies on established and emerging stock exchanges. *SA JEMS NS*, 16(1): 75 – 82.
5. Whittington-Jones, K.J., Tandlich, R., Zuma, B.M., Hoossein, S. and Villet, M.H. 2011. Performance of the pilot-scale mulch tower system in treatment of greywater from a low-cost housing development in the Buffalo City, South Africa. *International Water Technology Journal*, 1(2): 165 – 181.
6. Amutenya, N., Shackleton, C.M. and Whittington-Jones, K. 2009. Paper recycling patterns and potential interventions in the education sector: A case study of paper streams at Rhodes University, South Africa.

Resources, Conservation & Recycling, 53: 237 – 242.

7. Zuma, B.M., Tandlich, R., Whittington-Jones, K.J. & Burgess, J.E. 2009. Mulch tower treatment system. Part I: Overall performance in greywater treatment. *Desalination*, 242: 38-56.
8. Tandlich, R., Zuma, B.M., Whittington-Jones, K.J. & Burgess, J.E. 2009. Mulch tower treatment system. Part 2: Destructive testing and effluent treatment. *Desalination*, 242: 57-69.
9. Whittington-Jones, K.J., Rose, P.D., Leukes, W., Lok, G., Naidoo, S. and Lok, D. Development of a Knowledge Management System for Operation of the Algal Integrated Ponding System (AIPS). 2008. Water Research Commission, Project Report TT372.
10. Neba, A., Whittington-Jones, K.J. & Rose, P.D. 2007. Salinity, sanitation and sustainability Part 4: Process scale-up in the treatment of mine drainage wastewaters and the disposal of sewage sludge. Water Research Commission, Project Report TT 198/07.
11. Whittington-Jones, K.J., Molwantwa, J.B. and Rose, P.D. 2006. Enhanced hydrolysis of carbohydrates in primary sludge under biosulfidogenic conditions. *Water Research*, 40: 1577-1582.
12. Rose, P.D., Corbett, C.J., Whittington-Jones, K.J. & Hart, O.O. 2004. Salinity, sanitation and sustainability (Report 9): Rhodes BioSURE process: biodesalination of mine drainage wastewaters. Water Research Commission, Project Report TT195/04.
13. Molwantwa, J.B., Whittington-Jones, K.J. and Rose, P.D. 2004. An Investigation into the mechanism underlying enhanced hydrolysis of complex carbon in a biosulfidogenic recycling sludge bed reactor (RSBR). *Water SA*, 30(5): 155-159.
14. Whiteley C., Pletschke B., Rose P., Tshivhunge S., Watson S. and Whittington-Jones, K. (2004). Activation of proteases in an anaerobic sulphidogenic bioreactor, *Biotechnology Letters*, 26 (1): 55-59.

15. Whiteley, C.G., Pletschke, B.I., Burgess, J.E., Tshivunge, A.S., Ngesi, N., Whittington-Jones, K., Enongene, G., Van Jaarsveld, F., Heron, P., Rashamuse, K. & Rose, P.D. 2004. Investigation into the enzymology of accelerated primary sewage sludge solubilisation and digestion in sulphate reducing systems. Water Research Commission, Project Report TT1170/1/04.
16. Whiteley, C.G., Enongene, G., Pletschke, B.I., Rose, P. and Whittington-Jones, K. 2003. Co-digestion of primary sewage sludge and industrial wastewater under anaerobic sulphate reducing conditions. Enzymatic profiles In a Recycling Sludge Bed Reactor (RSBR). Water Science and Technology, 48(4): 129 – 139.
17. Whittington-Jones, K.J., Corbett, C.J. & Rose, P.D. 2002. Salinity, sanitation and sustainability (Volume 4): The Rhodes BioSURE Process. Part 2: Enhanced hydrolysis of organic carbon substrates – development of the Recycling Sludge Bed Reactor (Report 10). Water Research Commission, Project Report TT196/02.
18. Ristow, N.E., Corbett, C., Whittington-Jones, K.J., Rose, P.D. & Hansford, G. 2002. Modelling of a recycling sludge bed reactor using AQUASIM. Water SA, 28(1): 111-120.
19. Rose, P.D., Corbett, C.J., Whittington-Jones, K.J. & Hart, O.O. 2002. The Rhodes BioSURE Process. Water Research Commission, Project Report TT195/02.
20. Whiteley, C.G., Heron, P., Pletschke, B., Rose, P.D., Tshivunge, S., van Jaarsveld, F.P. & Whittington-Jones, K.J. 2002. The enzymology of sludge solubilization utilizing sulphate reducing systems: properties of proteases and phosphatases. Enzyme and Microbial Technology, 31: 419-424.

#### **COURSES**

1. Roundtable on Sustainable Biomaterials (RSB) – Auditor / Lead Auditor Course, AB Training (Madrid). 2013
2. Teaching the Practice of Management Short Course. Gordon Institute of Business Science, University of Pretoria (South Africa). 2007
3. Integrated Environmental Management (Core Module) and IEMA Associate Membership Course. Bath University (UK). 2006.
4. Integrating ISO 14001, ISO 9001 & OHSAS 18001. IIR

**CONSULTING  
EXPERIENCE**

- Training. Cape Town. 2001.
5. Industrial Environmental Management Short Course. Rhodes University (South Africa). 2001.
  6. Environmental Law and Policy Short Course. Rhodes University (South Africa). 1996.

**E&S Due Diligence / Compliance Monitoring**

- Obuasi Gold Mine (Ghana) - E&S risk and rehabilitation costing review (2016)
- Copperbelt Energy Corporation (Zambia & Nigeria) – Lenders’ Independent E&S Performance Verification Auditor (2014 – ongoing)
- Green Resources AS plantation operations (Uganda, Tanzania and Mozambique) – Lenders’ Independent E&S Performance Verification Auditor (2014 – ongoing)
- Zambeef agro-industrial operations (6 facilities) (Zambia) - E&S Due Diligence Assessment (2016)
- Beefmaster beef feedlot and abattoir operations (South Africa) – E&S Due Diligence Assessment (2015)
- Graphite mine and processing plant (Cabo Delgado, Mozambique) - E&S Due Diligence Assessment (2015)
- Green Willows Hotel Development (Cape Town, South Africa) E&S Due Diligence Assessment (2015)
- Kenmare Resources’ Moma Heavy Mineral Sands Mine (Mozambique) - IFC Performance Standards (2006, 2012, 2014, 2016 and 2017) and Operational EMP Audits.
- Forestry Plantation development (Mozambique) – IFC PS and Forest Stewardship Council Opinion Audit. Global Solidarity Forest Fund.
- Gas Power plant and Transmission Line (Mozambique) – Rapid E&S Due Diligence Review. Cennergi.
- Forestry Plantation Developments (Uganda) – IFC PS, CCBA and FSC Environmental and Social Due Diligence Audit.

- Forestry Plantation Development & Pulp Mill (Swaziland) – New Forest Company.
- Farmsecure agro-industrial operations (South Africa) – IFC PS Compliance Audit.
- Port of Port Elizabeth (South Africa) - Environmental Risk Assessment of Alternative Bunkering Modes. Transnet National Ports Authority.
- Salt works operations risk assessment (Velddrif, South Africa). Cerebos Salt (South Africa).
- Salt works odour nuisance assessment (Velddrif, South Africa). Cerebos Salt (South Africa).
- Port of Durban Environmental Liability Assessment. Transnet National Ports Authority.
- Environmental due diligence (Phase 1 and 2) assessment for Zones 5, 6 and 13 of the Coega Industrial Development Zone (South Africa).
- Phase 1 and 2 contaminated land assessment (Port Elizabeth). Confidential Client.
- Phase 1 and 2 contaminated land assessment (Port Elizabeth). Confidential Client.

**Environmental & Social Technical Assistance and Management Systems**

- Africa Agriculture Trade and Investment Fund (AATIF): Development of an E&S Management System for BancABC to manage E&S risks in their investment portfolio across five countries.
- National Agricultural Research Organization (Uganda): Development of Environmental and Social Safeguard System to manage E&S risks in their associated research and development portfolio (Atacama Consulting).
- Development of Biodiversity Action Plan and Stakeholder Engagement Plan for multiple farming operations



(Zambia). Zambeef Products Plc / Deutsche Investitions- und Entwicklungsgesellschaft (DEG).

- Environmental and Social Management Systems Audit and Development (IFC Compliant) (Zimbabwe). Econet Wireless Zimbabwe (EWZ).
- Moma Heavy Mineral Sands Mine (Mozambique):
- Management of the environmental compliance component of Technical Completion Test (2010 – 2011). Kenmare Resources.
- Moma Heavy Minerals Sands Mine (Mozambique): Long-term ad-hoc E&S sustainability advisory services to company Directors / Senior Management (2010 – ongoing). Kenmare Resources.
- Moma Heavy Minerals Sands Mine (Mozambique): Development of IFC 2006 compliant Environmental and Social Management System. Kenmare Resources.
- Moma Heavy Minerals Sands Mine (Mozambique): Management of upgrade of camp sewage treatment plant. Kenmare Resources.

#### **Environmental Impact Assessments**

##### *South Africa*

- EIA for Kamiesberg Heavy Mineral Sands Mine - Zirco Resources (*Reviewer / Waste Specialist*)
- EIA for Waainek Wind Energy Facility (24MW), Grahamstown - InnoWind (*Project Manager*)
- EIA for Cookhouse Wind Energy Facility (~400MW) - TerraPower Solutions (*Project Leader*)
- Environmental Pre-Feasibility Assessment for 14 wind farms - G7 Renewable Energy. (*Project Manager*)
- Basic Assessment for Grahamstown Wood-to-Energy Power Station (3MW) - Nollen Group (*Project Manager*)
- EIA for Umhlatuzi Central Industrial Area, Richards Bay

(Umhlatuzi Municipality). (*Project Leader*)

- Basic Assessment for Roodepan Cattle Feedlot. North-West Province. Ranch Estates. (*Project Manager*)
- EIA for Exxaro AlloyStream manganese smelter, Coega IDZ. Exxaro Resources. (*Project Manager*)
- EIA for Kalagadi manganese smelter, Coega IDZ. Kalagadi Manganese. (Project Manager / Waste Specialist)
- EIA for Addo Regional Hazardous Waste Landfill. Coega Development Corporation. (Project Manager)
- Basic Assessment Pure Vacuum Dried Salt Processing Plant, Coega IDZ. Cerebos. (Project Manager)
- EMPR revision Sundays River Salt Works. Cerebos Salt (Project Manager)
- Basic Assessment for Stainless Steel Precision Strip Mill, Coega IDZ. Southern Cross. (Project Manager)

*Mozambique*

- ESHIA for Pilivili Heavy Mineral Mine, Nampula Province (Mozambique). Kenmare Resources (2016 – ongoing). (*Project Leader*)
- Simplified Assessment for Medium-density fiberboard (MDF) Plant, Lichinga. Green Resources AS. (*Project Leader*)
- Simplified Assessment for woodchip mill, Nacala Port. Green Resources AS. (*Project Leader*)
- Simplified Assessment for Woodchip mill, Namina. Green Resources AS. (*Project Leader*)
- Scoping studies for Phase 3 expansion: Congolone and Pilivili heavy mineral deposits. Kenmare Resources. (*Project Leader*)
- ESHIA for Syrah Graphite Mine. Syrah Resources.

(Reviewer / Rehabilitation Strategy)

- ESHIA for Baobab Iron Ore Mine. Capitol Resources. (Reviewer / Rehabilitation Strategy)
- Rapid E&S assessment for Anadarko resettlement village. WorleyParsons. (Project Leader)
- ESIA and Resettlement Policy Framework for Lurio Commercial Forestry Plantation (120 000ha). Lurio Green Resources. (Project Leader)
- ESIA for 20 000ha Niassa plantation development. Niassa Green Resources. (Project Leader)
- ESIA for 20 000ha organic sugar and beef production facility. Ecofarm Lda. (Technical Specialist / Client Liaison)
- E&S assessment for slimes settling pond breach, Mozambique (confidential client). (*Project Leader*)
- ESIA for 1 million m<sup>3</sup> per year sugarcane-to-ethanol biofuel development, Chemba, Mozambique. Grown Energy Lda. (*Project Leader*)

*Zambia*

- ESHIA for Enterprise Copper Mine, Zambia. First Quantum Minerals. (*Reviewer / Waste Specialist*)
- ESHIA for Sentinel Copper Mine, Zambia. First Quantum Minerals. (*Reviewer / Waste Specialist*)
- ESHIA for Trident Copper Mine, Zambia. First Quantum Minerals. (*Reviewer / Waste Specialist*)

*Other*

- ESIA for Bavuma Vegetable Oil Development Project 2 (Uganda). Ministry of Agriculture Animal Industry and Fisheries. (*Reviewer*)
- ESIA for Garoua Cotton mill upgrade (Cameroon).

Société de Développement du Coton du Cameroun.  
(*Project Leader*)

- ESIA for Maroua Cotton mill upgrade (Cameroon).  
Société de Développement du Coton du Cameroun  
(*Project Leader*)
- ESIA for Renobe Heavy Mineral Sands Mine  
(Madagascar), World Titanium Resources (*Technical  
Specialist*).

#### **Strategic Environmental Assessments**

- Port of Mossel Bay, South Africa. Transnet National Ports  
Authority
- Ports of Port Elizabeth, South Africa. Transnet National  
Ports Authority
- Port of East London, South Africa. Transnet National  
Ports Authority

#### **Climate change**

- GHG Inventory and Climate Change Risk Assessment,  
Toliara Sands Heavy Mineral Mine (Madagascar). World  
Titanium Resources. 2017.
- GHG Inventory and Climate Change Risk Assessment,  
Kenmare Resources Heavy Mineral Mine, Moma  
(Mozambique). 2017.
- Climate change adaptation and mitigation policy for the  
Eastern Cape Province – South Africa. Provincial  
Department of Environmental Affairs
- Climate change risk assessment for South African  
Commercial Ports. Transnet National Ports Authority.
- Carbon Footprint for Moma Heavy Mineral Mine,  
Mozambique. Kenmare Resources. 2010.

#### **Waste Management**

*South Africa*

- Makana Refuse Disposal Facility – audit
- Exxaro AlloyStream Manganese Smelter – Waste Management Specialist Report, Coega IDZ. Exxaro Resources
- Kalagadi Manganese Smelter – Waste Management Specialist Report, Coega IDZ. Kalagadi Manganese
- Port of Mossel Bay - Integrated Waste Management Plan. Transnet National Ports Authority.
- Scenery Park Biological Grey Water Treatment System, Buffalo City Municipality – Development & Monitoring. Swedish International Development Agency (SIDA).

*Mozambique*

- Suni Resources S.A. Graphite Project - Waste Management Specialist Report.
- Moma Heavy Mineral Sands Mine (Mozambique) - Sanitation Assessment Report. Kenmare Resources.
- Syrah Graphite Mine – Waste Management Specialist Report. Syrah Resources
- Baobab Iron Ore Mine and Steel Plant – Waste Management Specialist Report. Capitol Resources
- EcoFarm organic sugar and beef production facility – Waste Management Specialist Report. EcoFarm
- Grown Energy 1 million m<sup>3</sup> per year sugarcane-to-ethanol biofuel development - Grown Energy
- Nampula Brewery – Waste Management Specialist Study. South African Breweries.

*Zambia*

- Enterprise Copper Mine - Waste Management Specialist Report. First Quantum Minerals
- Sentinel Copper Mine - Waste Management Specialist

Report. First Quantum Minerals

- Trident Copper Mine - Waste Management Specialist Report. First Quantum Minerals

*Other*

- Bisi Tin Mine (Democratic Republic of Congo) - Waste Management Specialist Report. Alphamin
- Samshi Steel Mill (Sierra Leone) - Waste Management Specialist Report. Samshi Afrika Limited.
- Palm Oil Plantation and Mill (Liberia) - Waste Management Specialist Assessment Report. Equatorial Palm Oil.
- Addax Sugarcane-to-Ethanol Development (Sierra Leone) – Waste Management Specialist Study. Addax Bioenergy.
- Kangankunde Monazite Mine (Malawi) - Waste Management Specialist Report. Lynas Corporation.
- El Burulus Heavy Mineral Sands Mine (Egypt) - Waste Management Specialist Report. Nuclear Materials Authority (Egypt).
- Renobe Heavy Mineral Sands Mine (Madagascar) - Waste Management Specialist Report. World Titanium Resources.
- Toliara Sands Heavy Mineral Sands Mine (Madagascar) - Waste Management Specialist Report. Exxaro Resources.
- Biomass Power Plant Project (Ghana) - Waste Management Specialist Report. African Plantation for Sustainable Development.
- Rabai power station (Kenya) - Waste Management Specialist Report. Rabai Power Limited.

### **Policy and Guidelines**

- Municipal Sanitation Policy. Buffalo City Municipality.
- Environmental Impact Assessment Guidelines for the Roundtable on Sustainable Biofuels. RSB.

### **Environmental Auditing & Compliance**

- Multiple environmental and social audits (including EMP compliance) for Kenmare Resources' heavy mineral mine, Mozambique.
- IFC Performance Standards deviation assessment for Kenmare heavy mineral mining project, Mozambique (2010, 2012 and 2013)
- Environmental audit for mechanical sugarcane harvesting operation, Swaziland
- Development, implementation and auditing of industry-specific environmental management system for brick manufacturing companies in the Eastern cape, South Africa (2001 – 2004)
- Internal ISO 14001 audits at SAB Ibhayi Brewery (Port Elizabeth, Eastern Cape) [2001 – 2004]
- Trainee Auditor: Certification audit of car component manufacturer.

### **Miscellaneous**

- Environmental Management Plans for Renobe Heavy Mineral Sands Mine (Madagascar), World Titanium Resources (*Technical Specialist*). 2017
- Community Health Impact Assessment, Acuabe Graphite Mine, Cabo Delgado Province, Mozambique. Graphit Kropfmühl (reviewer function). 2016.
- Community Health Impact Assessment, Nicanda Hills Graphite Mine, Cabo Delgado Province, Mozambique. Grefex Limitada. (*Reviewer*) 2017.

- Demolition EMP, Erf 20, Kenton-on-Sea (South Africa). Ndlambe District Municipality
  - Moma Heavy Mineral Sands Mine (Mozambique) - Annual Marine Monitoring Survey (2010, 2012, 2014). Kenmare Resources. (*Project Leader / Reviewer*).
  - Moma Heavy Mineral Sands Mine (Mozambique) - Annual Terrestrial Monitoring Survey (2012, 2013, 2014). Kenmare Resources. (*Project Leader / Reviewer*).
  - Moma Heavy Mineral Sands Mine (Mozambique) - Annual Wetland Bio-monitoring Survey (2010 - 2014). Kenmare Resources. (*Project Leader / Reviewer*).
  - UNEP / GEF - South African Technical Demonstration Project. West Indian Ocean Land Based Marine Pollution (WIO-LaB) Project. (*Project Leader*).
-