

RYAN EMSLIE JONAS



Profession	Environmental Scientist
Position in Firm	Senior Environmental Scientist
Area of Specialisation	Environmental Impact Assessments, Environmental Management Programmes, Environmental Monitoring & Compliance, Water Use Authorisations, Waste Management Licences
Qualifications	M.Sc (Environmental Science) B.Sc (Natural Sciences)
Years of Experience	17
Years with Firm	3

SUMMARY OF EXPERIENCE

Ryan Emslie Jonas is a professionally registered Environmental Scientist and works in the field of environmental management for large infrastructure-related developments, mining and Renewable Energy projects (solar and wind energy facilities) within Africa. He has acquired 17 years (full time) consulting experience in managing and executing various application processes for a diverse range of large infrastructure developments, mining and renewable energy (solar and wind energy facilities) projects in order to obtain environmental authorisations, licenses for waste management, water uses, air emissions release and compiling and implementing environmental management programmes.

Ryan has also fulfilled numerous environmental compliance monitoring functions for infrastructure-related developments (e.g. roads, pipelines, airport developments, housing and mixed-used projects), renewable energy and various mining and industrial sites throughout Southern Africa. His project management experience includes client liaison, scheduling, professional services contract (i.e. NEC3) management, progress reporting, managing sub-consultants and junior staff, invoicing and ensuring the quality of deliverables to a Client. Also proficient in tender, expression of interest and proposal writing for local as well as IFC / World Bank projects. Ryan has gained an excellent working knowledge of African (i.e. South Africa, Zambia, Kenya, Lesotho, Mauritius, Namibia) and International Finance Corporation / World Bank environmental legislative requirements for major infrastructure, renewable energy and mining developments.

EDUCATION

2008 – M.Sc (Environmental Science), North-West University, South Africa.

2002 - BSc (Natural Sciences), North-West University (formally PU vir CHO), South Africa

EMPLOYMENT RECORD

Date (from – to)	2022 - present
Location	Cape Town, Western Cape, South Africa
Employer	Terratest (Pty) Ltd
Position	Senior Environmental Scientist
Date (from – to)	2021 – 2022
Location	Cape Town, Western Cape, South Africa
Employer	CES (EOH Group)
Position	Principal Environmental Consultant
Date (from – to)	2019 – 2021
Location	Cape Town, Western Cape, South Africa
Employer	Terramanzi Group
Position	Senior Environmental Consultant
Date (from – to)	2015 - 2018
Location	Cape Town, Western Cape, South Africa
Employer	Advisian -Worley Parsons
Position	Senior Environmental Consultant
Date (from – to)	2012 - 2015
Location	Cape Town, Western Cape, South Africa
Employer	GIBB
Position	Senior Environmental Scientist
Date (from – to)	2010 - 2012
Location	Pretoria, Gauteng, South Africa
Employer	Clean Stream Environmental Consultants
Position	Environmental Scientist
Date (from – to)	2008 - 2010
Location	Pretoria, Gauteng, South Africa
Employer	Aurecon
Position	Environmental Specialist
Date (from – to)	2007 - 2008
Location	Rustenburg, North West, South Africa
Employer	K2M Technologies
Position	Environmental Consultant
Date (from – to)	2006 - 2007
Location	Potchefstroom, North West, South Africa
Employer	North West University
Position	Research Assistant, Persistent Organic Pollutants & Toxicants (POPT) Group
Date (from – to)	2002 - 2006
Location	Potchefstroom, North West, South Africa
Employer	North West University
Position	Practical Demonstrator (Microbiology)

SPECIFIC EXPERIENCE

Coastal Water Discharge Permits

- Compilation and submission of Coastal Water Discharge Permits for the Strandfontein, Monwabisi and V&A site Desalination Plants, City of Cape Town, 2017 – 2018
- Coastal Water Discharge Permit Amendment for the OTMS Oil Terminal, MOGS (Pty) Ltd, 2018

Environmental Authorisation Amendment applications / EA conditions review

- Langhoogte Wind Energy Facility Part 2 Substantive EA Amendment, Ceres, SAGIT, 2019 – 2020
- Wolseley Wind Energy Facility Part 2 Substantive EA Amendment, Caledon, SAGIT, 2019 - 2020
- 150MW Haga Haga Wind Energy Facility EA Conditions review, WKN Windcurrent 2019 – 2020

Environmental Feasibility Assessments

- Water Resilience project: Site selection for the Strandfontein, Monwabisi and V&A Desalination Plants. City of Cape Town, 2017
- Simons Town Housing Development. Department of Rural Development & Land Reform, 2018

Environmental Liability Closure & Rehabilitation quantification

- Calculation of financial provision for rehabilitation activities upon mine closure for LA FARGE Tygerberg, Peak, Dortsberg and Saldanha quarries, LA FARGE, 2012-2014

Environmental Impact Assessments

- ESIA for the Network Reinforcement and Access Project (NRAP). Eswatini Electricity Company, 2021 – 2022
- Mine Residue Facilities Expansion project. Glencore, 2022 -Current
- EIA for Wind Energy Facility Cluster, Northern Cape. Client – Confidential 2022 – Current
- 230MW Doornfontein PVSEF project, Veldrift, Bergrivier Local Municipality, Western Cape. GPIPD Holding (Pty) Ltd, 2019 -2020
- 150MW Kruispad PVSEF project, Bergrivier Local Municipality, Western Cape. GPIPD Holding (Pty) Ltd, 2019 – 2020
- Expansion of the Saldanha Bay oil jetty and the construction of new crude oil pipeline system for the crude oil storage facility, Saldanha Bay, MOGS, 2017 – 2018
- HDPE Pipeline for Crude Oil Storage Tank Farm, Saldanha Bay, MOGS, 2017
- Blanco 400/132kV substation and powerline project, Eskom, 2015
- EIA for the Leeuwenkuil Vineyard Waste Water Treatment Works, Leeuwenkuil Family Vineyards, 2013-2014
- EIA for the Pearly Beach Sewage Treatment Works, GIBB, 2013-2014
- Xstrata Vekeerdepán Coal Mine Extension project, Xstrata, 2010-2012
- Waste Management Licence and assistance with completion of an Air Emissions Licence for the Flexilube Meyerton Oil Re-refinery expansion project, Flexilube, 2010-2012
- Construction of Ekangala Waste Water Treatment Works, Department of Water Affairs, 2009-2010
- Upgrade (expansion) to the Sunderland Ridge Waste Water Treatment Works, City of Tshwane, 2008-2009
- Construction of Morgenzon Waste Water Treatment Works, Lekwa Municipality, 2009-2010
- Tembisa-link gas pipeline realignment project, SASOL, 2009-2010
- Gas pipeline realignment through Ekurhuleni and Mogale City, SASOL, 2009-2010
- Soland Park residential development, Masingita Developments, 2008-2010
- Construction of Mankwe Hotel and Conference Centre, Mankwe Hotels, 2007-2008

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- Construction of Particle Board Manufacturing Plant, William Tell 2007-2008

Basic Assessments for the following projects:

- Witzenberg Regional Cemetery Sites, Witzenberg Municipality. 2021 - Current
- Borrow Pits project, Clarkebury, Eastern Cape, Eastern Cape Department of Transport, 2021
- 140 MW Wind Energy Facility project, Western Cape Client – Confidential, 2020
- Car Park Extension at Koeberg Nuclear Power Station, Eskom, 2017
- Hout Bay Dune area rehabilitation, City of Cape Town, 2014- 2015
- Sea Point and Mouille Point promenade upgrade, City of Cape Town, 2014 -2015
- Paardevlei Integrated Storm Water & Ecological Management System (ISW&EMS), Somerset West, Paardevlei Properties, 2013-2014
- Eskom Wolfkop 66/22kV substation and powerline, Eskom 2012-2013
- Rehabilitation of Blaauwpan and associated stormwater channel, Airports Company South Africa, 2008-2009
- Northern Access Road Development at OR Tambo International Airport, Airports Company South Africa, 2008-2009
- Cradle of Pilanesberg Lodge, Pilanesberg National Park, 2007-2008
- Construction of Staff Houses in Pilanesberg National Park, 2007-2008
- Bellevue residential development in GeelhoutPark, Rustenburg, Private Developer, 2007-2008
- Villa Del Country Estate, Private Developer, 2007-2008
- Marang Motor Retail, Hotel and Residential Development, Marang Estate, 2007-2008
- Olifants River Bridge upgrade, Aurecon, 2015

Environmental Management Plans / Programmes

- ESMP for the Network Reinforcement and Access Project (NRAP). Eswatini Electricity Company, 2021 – 2022
- Water Resilience project: Environmental Management Programme, City of Cape Town, 2017 –2018
- Simandou Port and Infrastructure (IFC/ World Bank) Bank Feasibility project, Guinea. WorleyParsons, 2015
- Anglo Greenside Colliery Environmental Management Programme Amendment for an expansion to the existing Co-Disposal Facility, Anglo American, 2012
- De Beers Kimberley Mines Environmental Management Programme Revision, De Beers Mines Consolidated, 2012
- Environmental Management Programme compilation for Xstrata Tweefontein Mine Optimisation project, Xstrata, 2010-2012
- Annual revision (update) of Exxaro's Zincor Industry Environmental Management Master Plan Upgrade, Exxaro, 2010-2012

Environmental Project Management

- Bird and Bat Monitoring for Wind Energy Facilities, Eastern Cape. Client Confidential 2022
 - Mine Residue Facilities Expansion project. Glencore, 2022 -Current
 - EIA for WEF Cluster, Northern Cape. Client Confidential, 2022
 - Witzenberg Regional Cemetery Sites, Witzenberg Municipality, 2021
 - Borrow Pits project, Clarkebury, Eastern Cape, Eastern Cape Department of Transport, 2021
 - 230MW Doornfontein PVSEF project, Veldrift, Bergrivier Local Municipality, Western Cape. GPIPD Holding (Pty) Ltd, 2019 -2020
 - 150MW Kruispad PVSEF project, Bergrivier Local Municipality, Western Cape. GPIPD Holding (Pty) Ltd, 2019 - 2020
 - 140 MW Wind Energy Facility project, Western Cape Client – Confidential 2020
 - Langhoogte Wind Energy Facility Part 2 Substantive EA Amendment, Ceres, SAGIT, 2019 – 2020
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- Wolseley Wind Energy Facility Part 2 Substantive EA Amendment, Caledon, SAGIT, 2019 – 2020
 - Expansion of the Saldanha Bay Oil Jetty and the construction of new crude oil pipeline system for the crude oil storage terminal, Saldanha Bay, MOGS, 2018
 - Koeberg Nuclear Power Station Wellfields Optimisation project & WULA, Eskom, 2018
 - Transient Interim Storage Facility project at Koeberg Nuclear Power Station, Eskom, 2015 – 2018
 - Car Park Extension at Koeberg Nuclear Power Station, Eskom, 2017
 - Coastal Water Discharge Permit at Koeberg Nuclear Power Station, Eskom, 2017 – 2018
 - Geotechnical & Land surveyor assessment of the Car Park Extension at Koeberg Nuclear Power Station project, Eskom, 2018

Gap Analysis

- A comparative analysis of New Denmark Colliery's existing environmental authorization applications with regards to current environmental legislation and new FEL3 requirements, specifically for the North Shaft Re-opening project. Anglo American, 2010

Waste Management Licence applications

- Compilation and submission of waste management licence applications and Basic Assessment Process for the closure of seven landfill sites within the Matzikama Local Municipality and three landfill sites in the Overstrand Local Municipality, Department of Environmental Affairs, 2013-2014

Water Use Licence applications

- Magareng, Thorncliffe & Helena Mines WUL Amendments, Glencore, 2022
- SANRAL Olifants River Bridge upgrade project, Aurecon, 2015
- Eskom's Vierfontein – Viljoenskroon 88kV Refurbishment project, Eskom, 2014
- Apollo Brick Manufacturing Plant, Apollo Brick, 2014
- Eskom's Wolfkop 66/22kV substation and powerline project, Eskom, 2014
- Proposed Langeberg Residential Development, C5I, 2015
- Atlantis Housing Development, City of Cape Town, 2015
- Pearly Beach Sewage Treatment Works, GIBB, 2015
- Proposed Beacon Valley Housing Development, City of Cape Town, 2015
- Proposed Erf 3418 Industrial Development, VDMV Property Group, 2014
- Inyanda Mine Siding development, Exxaro, 2011

Air Emission Licence Process

- Compilation of an Air Emission Licence application (AEL) for the Gascon combustion installation, Gascon, 2022
- Compilation of an Air Emission Licence application (AEL) for the Maitland Crematorium, City of Cape Town, 2014

Environmental Compliance monitoring

- Project oversight of ECO services for Copperton Wind Energy Facility, Northern Cape, Elawan, 2019 -2020
 - Annual IFC external compliance audit for operational Wind Energy Facility, Worcester, Client – Confidential, 2019 -2020
 - Project oversight of ECO services for Val De Vie Estate, Paarl, Val De Vie Estate, 2019 -2020
 - Upgrade to SANRAL National Road 7 between Melkbos and Atlantis, SANRAL, 2013-2015
 - Housing Development on ERF 934, Pelican Park, Cape Town, POWER Development, 2014-2015
 - MR302 road realignment and upgrade project, Aurecon, 2012-2015
 - De Velde Residential Development, Somerset West, Balwin Properties, 2012-2015
 - Elgin Anaerobic Digester Installation project, Bau Afrika Engineers, 2014
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- Construction of a retaining wall structure for the Silwerstroom Resort, C2C Engineers, 2014
- Construction and installation of a 66kV electrical cable within the Stellenbosch municipal area, Aurecon, 2013-2014
- Construction of a 66kV underground electrical cable from an existing substation to the proposed 66/11kV substation, Hermanus, Aurecon, 2014 -2015
- Audit of Xstrata Alloys Carbon Division five industrial site operations situated between Witbank and Middelburg, Xstrata, 2012
- Audit of the Exxaro Tshikondeni mine clean and dirty water management measures as per Regulation GN704 of NWA, 1998 and the issued Water Use Licence, Exxaro, 2011
- Auditing for the construction of remote aprons on Taxiway Papa, Northern Ring Road, extension of Charlie Taxiway and extension of Golf Apron at OR Tambo International Airport. Airports Company South Africa, 2008-2010
- Auditing for Sunderland Ridge Waste Water Treatment Works upgrade project. City of Tshwane, 2008-2009
- Auditing for Dan Nkabinde Bridge reconstruction, Tembisa, City of Johannesburg, 2008-2009
- Auditing for PetroNet St James Transfer Station construction, PETRO SA, 2008
- Pre-construction monitoring to establish an environmental baseline of the biophysical environmental aspects (namely baseline geophysical, geotechnical, geohydrological, surface water and ecological survey) and to compile an Environmental Management Plan as input into the Construction Specification for the TCTA Mokolo Crocodile Water Augmentation Project (MCWAP), Trans Caledon Tunnel Authority, 2009-2010

CONTINUED PROFESSIONAL DEVELOPMENT

Courses, Conferences & Workshops

- Master's project poster presentation at Zoological Society of South Africa (Rhodes University)
- IAIA Annual Conference attendance

PERSONAL DETAILS

Nationality – South African

Date of Birth – 1979-11-20

Domicile – Cape Town, South Africa

Languages

English – Fluently spoken and written

Afrikaans – Fluently spoken and written

isiZulu - Basic comprehension

Spanish - Basic comprehension

German- Basic comprehension

PROFESSIONAL REGISTRATION AND INSTITUTE MEMBERSHIP:

IAIA - International Association of Impact Assessment (Membership number: 5065)

SACNASP - Professional Natural Scientist (Environmental Science) Registration no: 400159/15

EAPASA - Environmental Assessment Practitioner Association (Membership number: 2019/1674)