
APPENDIX 2: CURRICULA VITAE (INCLUDING REGISTRATIONS) OF THE PROJECT TEAM



herewith certifies that

Matthew Grahame Hemming

Registration number: 400155/17

is registered as a

Professional Natural Scientist

in terms of section 20(3) of the Natural Scientific Professions Act, 2003
(Act 27 of 2003)

in the following field(s) of practice (Schedule 1 of the Act)

Environmental Science

Effective 15 November 2017

Expires 31 March 2019



A handwritten signature in black ink, appearing to read 'Botha'.

President

A handwritten signature in black ink, appearing to read 'M. J. ...'.

Executive Director

CURRICULUM VITAE



MATTHEW HEMMING

TECHNICAL DISCIPLINE MANAGER

Environmental Management Planning & Approvals,
South Africa

QUALIFICATIONS

MSc	2001	MSc (Conservation Biology), with distinction, from University of CapeTown
BSc (Agric)	1999	BSc (Agriculture) in Wildlife Science, with Zoology major, from University of Natal

EXPERTISE

- Environmental legislation
- Environmental Impact Assessment
- Environmental planning & licensing
- Waste management
- Stakeholder engagement
- Environmental training

Matthew is a Senior Environmental Consultant with SLR and has over 13 years' experience as an Environmental Assessment Practitioner within the environmental consulting field. Matthew is well versed in the authorisation and compliance requirements of all South African environmental legislation. He is currently the Technical Discipline Manager for SLR's Environmental & Social Impact Assessment team in Africa.

He has managed a wide range of licensing projects including environmental authorisations, water use license and waste management license applications, mainly in the waste management, gas exploration, mining, industrial and electricity generation sectors. His role included project management and co-ordination; specialist and engineering team management; environmental impact assessment; and co-ordination, facilitation and undertaking of stakeholder engagement processes, including for contentious projects.

In recent years Matthew has focussed on assisting clients with waste management legislation and implementing projects up the waste management hierarchy and also in the onshore oil and gas sector. He also conducts or manages feasibility assessments, compliance audits, risk assessments, performance assessments, closure cost estimates and due diligence work.

PROJECTS

**The South African
Breweries – Glass Bottle
Manufacturing Plant,
Gauteng (2018)**

Industry

SAB proposed the development of a glass bottle manufacturing plant on the farm Leeuwkuil 596 IQ in Vereeniging, Gauteng. The proposed glass bottle manufacturing plant would produce approximately 290 000 tons of green and amber coloured glass bottles using two gas fired furnaces. The facility would comprise a batch plant, main manufacturing building and warehouse.

Matthew was the Environmental Assessment Practitioner responsible for the integrated EIA process required to inform the applications for authorisation made in terms of NEMA, NEMWA and NEMAQA. An application for general authorisation under the NWA was also made.

<p>RHDHV for Quidenica Investments – Thornridge Waste Park Conservancy (2018)</p>	<p>Quidenica Investments has proposed the development of a waste park conservancy on a property at Cato Ridge, KwaZulu-Natal.</p> <p>Matthew provided environmental inputs into an initial desktop environmental screening of the property and subsequent Master Plan development.</p>
<p>Dundee Precious Metals - Tsumeb Smelter, Namibia (2017)</p>	<p>As part of plans to increase the capacity of the Tsumeb Smelter, DPM appointed SLR to provide a high-level overview and opinion on current waste management strategies and operational procedures at the Tsumeb Smelter, including for both general and hazardous waste.</p> <p>Matthew managed the project which included the assessment of waste management strategies relative to national and international legislation and a review of current waste management practices and impacts of managed and unmanaged wastes at the site.</p>
<p>EnviroServ Waste Management - Holfontein Extension: Integrated Waste Management Facility, Gauteng (2014 to 2017)</p>	<p>EnviroServ intended to expand the facilities at their Holfontein Hazardous Waste Disposal Facility to include a range of additional disposal, recycling, recovery and treatment activities. The project was withdrawn.</p> <p>Matthew was the Environmental Assessment Practitioner responsible for the integrated EIA process required to inform the applications for authorisation made in terms of NEMA, NEMWA, NWA and NEMAQA.</p>
<p>Rappa Holdings - Homestead Road operations, South Africa (2014 to 2017)</p>	<p>Rappa operates a facility that specialises in the recovery of gold from various materials and wastes acquired from mining and mineral processing operations. Some of the facilities and activities may pose risk to the water resource and thus require a water use licence.</p> <p>Matthew was the project manager responsible for the integrated water use licence application made in terms of the NWA.</p>
<p>EnviroServ Waste Management - Shongweni Landfill Site, Durban (2012 to 2017)</p>	<p>EnviroServ own and operate the Shongweni Landfill Site in terms of a waste management licence. EnviroServ made application to the Department of Water and Sanitation for a water use licence in terms of the National Water Act.</p> <p>Matthew was the project manager responsible for the integrated water use licence application made in terms of the NWA.</p>
<p>EnviroServ Waste Management – Holfontein Hazardous Waste Disposal Site, Gauteng (2013 to 2016)</p>	<p>EnviroServ own and operate the Holfontein Hazardous Waste Disposal Site in terms of a waste management licence. EnviroServ made application to the Department of Water and Sanitation for a water use licence in terms of the National Water Act.</p> <p>Matthew was the project manager responsible for the integrated water use licence application made in terms of the NWA.</p>
<p>Scaw South Africa - Electrical Cogeneration Power Plant and Ash Disposal Facility, Union Junction (2011 to 2015)</p>	<p>Scaw proposed to establish a 67 MW Electrical Cogeneration Power Plant and Ash Disposal Facility at their Union Junction facility. The Ash Disposal Facility was designed to cater for power plant ash and other Scaw wastes.</p> <p>Matthew was the Environmental Assessment Practitioner responsible for the integrated EIA process required to inform the applications for authorisation made in terms of NEMA, NEMWA and NEMAQA.</p>

<p>EnviroServ Waste Management – Treatment technologies at Holfontein, Port Elizabeth (2011 to 2012)</p>	<p>EnviroServ proposed to introduce a range of technologies for the recycling, recovery and treatment of wastes at the Holfontein Hazardous Waste Disposal Site, Gauteng.</p> <p>Matthew was the Environmental Assessment Practitioner responsible for the EIA process required to inform the application for authorisation made in terms of the NEMWA.</p>
<p>EnviroServ Waste Management – Treatment technologies at Aloes, Port Elizabeth (2011 to 2012)</p>	<p>EnviroServ proposed to introduce a range of technologies for the recycling, recovery and treatment of wastes at the Aloes Landfill Site, Port Elizabeth.</p> <p>Matthew was the Environmental Assessment Practitioner responsible for the EIA process required to inform the application for authorisation made in terms of the NEMWA.</p>
<p>EnviroServ Waste Management – Treatment technologies at Shongweni, Durban (2011 to 2012)</p>	<p>EnviroServ proposed to introduce a range of technologies for the recycling, recovery and treatment of wastes at the Shongweni Landfill Site, Durban.</p> <p>Matthew was the Environmental Assessment Practitioner responsible for the EIA process required to inform the application for authorisation made in terms of the NEMWA.</p>
<p>Oil and Gas</p>	
<p>Afro Energy (Pty) Ltd – Renewal of onshore exploration rights, South Africa (2018)</p>	<p>Afro Energy lodged made application with the Petroleum Agency of South Africa to renew two onshore Exploration Rights.</p> <p>Matthew prepared reports reflecting the extent of compliance with the requirements of the environmental authorisation for the exploration work programme.</p>
<p>Afro Energy (Pty) Ltd - Onshore exploration right applications, South Africa (2016 to 2017)</p>	<p>Afro Energy lodged two applications with the Petroleum Agency of South Africa for Exploration Rights to explore for petroleum products across various onshore areas.</p> <p>Matthew was the overall project manager, responsible for ensuring that the EIA process meet the legislative and client requirements.</p>
<p>Rhino Oil and Gas Exploration South Africa (Pty) Ltd - Onshore exploration right applications, South Africa (2015 to 2017)</p>	<p>Rhino Oil & Gas Exploration South Africa lodged five applications with the Petroleum Agency of South Africa for Exploration Rights to explore for petroleum products across various onshore areas in the eastern regions of South Africa.</p> <p>Matthew was the Environmental Assessment Practitioner responsible for the EIA process required to inform the application for environmental authorisation in terms of NEMA. Matthew managed the environmental impact assessment as well as an extensive public consultation process.</p>
<p>Centlube (Pty) Ltd - Blending Plant at Wadeville (2014 to 2016)</p>	<p>Centlube own an oil and lubricant blending and packaging facility in Wadeville that was operating without the required environmental authorisations.</p> <p>Matthew was the Environmental Assessment Practitioner responsible for the Section 24G process required to inform the rectification application for environmental authorisation in terms of both the ECA and NEMA.</p>
<p>Energy Oil (Pty) Ltd - Waste oil recycling plant at Wadeville (2014 to 2016)</p>	<p>Energy Oil own a waste oil recycling facility in Wadeville that was operating without the required waste management licence.</p> <p>Matthew was the Environmental Assessment Practitioner responsible for the Section 24G process required to inform the rectification application for environmental authorisation in terms of NEM:WA.</p>

<p>Afro Energy (Pty) Ltd - Onshore exploration right applications, South Africa (2013 to 2014)</p>	<p>Kinetiko Energy lodged three applications with the Petroleum Agency of South Africa for Exploration Rights to explore for petroleum products across various onshore areas in the eastern regions of South Africa.</p> <p>Matthew was the Environmental Assessment Practitioner responsible for the EIA process required to inform the application for environmental authorisation in terms of the MPRDA.</p>
<p>Badimo Gas (Pty) Ltd - Onshore exploration right applications, South Africa (2010 to 2013)</p>	<p>Kinetiko Energy lodged 12 applications with the Petroleum Agency of South Africa for Exploration Rights to explore for petroleum products across various onshore areas around Volksrust and Amersfoort, South Africa.</p> <p>Matthew was the Environmental Assessment Practitioner responsible for the EIA process required to inform the application for environmental authorisation in terms of the MPRDA.</p>
	<p>Mining</p>
<p>Tronox Limited - Port Durnford Prospecting Rights, KwaZulu-Natal (2015)</p>	<p>Tronox hold prospecting rights over an area at Port Durnford and required investigations into the environmental features of the area to inform decision-making on future mining right applications.</p> <p>Matthew was the environmental scientist responsible for Environmental Sensitivity Study, Risk Review and Findings report.</p>
<p>Tronox Limited - Port Durnford Prospecting Rights, KwaZulu-Natal (2015)</p>	<p>Tronox hold prospecting rights over an area at Port Durnford and required investigations into the environmental features of the area to inform decision-making on future mining right applications.</p> <p>Matthew undertook a gap analysis of Specialist Studies previously compiled for the Port Durnford area.</p>
<p>Kumba Iron Ore - Sishen Mine, Dingleton (2014)</p>	<p>As part of the Sishen Western Expansion Project, Kumba Iron Ore proposed to demolish Dingleton Town to make way for mining operations. Waste arising from the demolition requires to be managed.</p> <p>Matthew compiled the draft waste management strategy for the Dingleton Resettlement Project.</p>
<p>Sishen Iron Ore Company - Kolomela Mine, Postmasburg (2014)</p>	<p>The activities, infrastructure and staff supporting the mining operations at Kolomela Mine generate significant volumes of waste. All of the wastes produced at Kolomela Mine require to be managed.</p> <p>Matthew project managed the compilation of a waste management strategy for the Kolomela Mine and the development of awareness and training material on the implementation of the WMS.</p>

MEMBERSHIPS**SACNASP**

Registered with South African Council for Natural Scientific Professions as a Professional Natural Scientist (PrSciNat) in Environmental Science (400155/17)

IWMSA

Member of the Institute of Waste Management South Africa (20112082)
Committee member on the KZN branch of the IWMSA

IAIAsa

Member of the International Association of Impact Assessors (1753)

PUBLICATIONS

The EAP, EIAs and our opportunity to effect change, not climate change, Synergistics Energy. IAIA Paper, 2008

The MV Treasure oil spill and its effect on the African Penguin, Spheniscus demersus, at Robben Island, South Africa. University of Cape Town. MSc Dissertation, 2001.