



**INTERNATIONAL CYANIDE MANAGEMENT INSTITUTE**

**AUDITOR CREDENTIALS FORM**

**Facility Audited:** Pt Nusa Halmahera Minerals – Mine Supply Chain - Indonesia

**Date:** April 2019

**Lead Auditor:** Phil Ashton

**Phone Number:** +61 409 689 392

**Auditor Certification Number:** 121573

**Certification Organisation:** Exemplar Global

**Telephone:** +61 2 4728 4600

**Address:** Suite 12, 308 High Street, Penrith, NSW, Australia 2750

Web Address: [www.exemplarglobal.org](http://www.exemplarglobal.org)

**Cyanide Related Operations Experience - Career**

Years	Relevant Positions Held	Types of Operations
2 years	Technical Officer/Hygienist  Water Corporation Western Australia	<ul style="list-style-type: none"> <li>• Industrial waste water collection and treatment operations</li> <li>• Provision of advice and support in relation to industrial wastes to sewer and the environment, and chemical treatment processes and safety</li> <li>• Regulated hazardous waste transporters</li> <li>• Audits and inspections of licensed facilities and preparation of reports.</li> </ul>
4 years	Clean Air Inspector/Safety Specialist  State Health Department Western Australia	<ul style="list-style-type: none"> <li>• Industrial air pollution assessment and control</li> <li>• Provision of advice and support in relation to emissions to air and within the occupational environment</li> <li>• Audits and inspections of licensed facilities and preparation of reports.</li> </ul>
4 years	Senior Environmental Officer/Manager  Environmental Protection Authority Western Australia	<ul style="list-style-type: none"> <li>• Environmental management and pollution control in Perth and the Kwinana Heavy Industrial Area</li> <li>• Responsible for provision of advice and safety/environmental regulation of heavy industry, many of which were designated Major Hazard Facilities</li> <li>• Audits and inspections of licensed facilities and preparation of reports</li> <li>• Assessed proposals for chemical transport, inclusive of cyanide manufacture, transport and use</li> <li>• Regulated hazardous waste transporters</li> </ul>



Years	Relevant Positions Held	Types of Operations
		<ul style="list-style-type: none"> <li>• Represented the EPA on numerous committees related to management of individual risk, macro risk and emergency response</li> <li>• Developed policies and procedures.</li> </ul>
1 year	Environmental Manager  Pollution Monitoring and Control Unit, Medan, North Sumatra	<ul style="list-style-type: none"> <li>• Responsible for establishing a provincial environmental regulatory office</li> <li>• Developed environmental policies and procedures</li> <li>• Audits and inspections of industrial facilities and preparation of reports</li> <li>• Developed education and training strategies.</li> </ul>
26 years	Principal HSE Consultant and Director	<ul style="list-style-type: none"> <li>• Refer client listing next table</li> <li>• Dangerous goods compliance audits and licensing for numerous industrial, mining and commercial clients, inclusive of gold mining and processing operations</li> <li>• Process safety reviews of Major Hazard Facilities associated with oil and gas, and refining operations, inclusive of chemical transport risk</li> <li>• Dangerous goods and hazardous substances training.</li> </ul>

**Key Dangerous Goods Clients/Activities – Philip Ashton (inclusive of Gold Mining Operations)**

Year	Client	Activity
2015-2018	Selection only: Simcoa Operations Fero Group Western Areas Growers Rural WA Museum Synergy Energy TW Power Services Big Bell Gold Mining APA Group  Western Australia	<ul style="list-style-type: none"> <li>• General Dangerous Goods Audits and licensing</li> <li>• Audits carried out against relevant Australian Standards.</li> </ul>
2015 - 2018	Selection only: John Hughes Group Tellus Holdings Key Petroleum R&D Solutions  Western Australia	<ul style="list-style-type: none"> <li>• Safety System Audits and development (Supervised).</li> </ul>
2018	Goldfields Ltd – St Ives Mining  Western Australia	<ul style="list-style-type: none"> <li>• Carried out a complete audit of dangerous good facilities, inclusive of PGI sodium cyanide solution</li> <li>• Reported on areas worthy of note and areas for improvement in additional to occupational hygiene issues</li> <li>• Audit was carried out against x6 Australian Standards, inclusive of AS4452: The Storage and Handling of Toxic Substances.</li> </ul>



Year	Client	Activity
		<ul style="list-style-type: none"> <li>• Provided on site advice as required.</li> </ul>
2018	AngloGold Ashanti Tropicana Gold Mine  Western Australia	<ul style="list-style-type: none"> <li>• Carried out a complete audit of dangerous good facilities, inclusive of PGI sodium cyanide solution</li> <li>• Reported on areas worthy of note and areas for improvement in additional to occupational hygiene issues</li> <li>• Audit was carried out against x6 Australian Standards, inclusive of AS4452: The Storage and Handling of Toxic Substances</li> <li>• Provided on site advice as required.</li> </ul>
2018	Gascoyne Resources	<ul style="list-style-type: none"> <li>• Complete assessment of design and dangerous goods licensing of a large gold mine in accordance with relevant Australia Standards and AS4452 for cyanide</li> <li>• Provision of advice on cyanide and other dangerous goods transport and storage.</li> </ul>
2018	Doray Minerals – Deflector Mine Site  Western Australia	<ul style="list-style-type: none"> <li>• Carried out a complete audit of dangerous good facilities, inclusive of PGI sodium cyanide solid and related mixing activities</li> <li>• Reported on areas worthy of note and areas for improvement in additional to occupational hygiene issues</li> <li>• Audit was carried out against x6 Australian Standards inclusive of AS4452: The Storage and Handling of Toxic Substances</li> <li>• Provided on site advice as required.</li> </ul>
2017	Carnegie Gold  Western Australia	<ul style="list-style-type: none"> <li>• Complete assessment of design and dangerous goods licensing of a large gold mine in accordance with relevant Australia Standards and AS4452 for cyanide</li> <li>• Provision of advice on cyanide and other dangerous goods transport and storage.</li> </ul>
2017	Mount Morgans WA Mining  Western Australia	<ul style="list-style-type: none"> <li>• Complete assessment of design and dangerous goods licensing of a large gold mine in accordance with relevant Australia Standards and AS4452 for cyanide</li> <li>• Provision of advice on cyanide and other dangerous goods transport and storage.</li> </ul>
2017	Integra Mining - Silver Lake Gold Mine  Western Australia	<ul style="list-style-type: none"> <li>• Complete assessment of design and dangerous goods licensing of a large gold mine in accordance with relevant Australia Standards and AS4452 for cyanide</li> <li>• Provision of advice on cyanide and other dangerous goods transport and storage.</li> </ul>
2016	Saracen Metals – Thunderbox Mine Site  Western Australia	<ul style="list-style-type: none"> <li>• Complete assessment of design and dangerous goods licensing of a large gold mine in accordance with relevant Australia Standards and AS4452 for cyanide</li> <li>• Provision of advice on cyanide and other dangerous goods transport and storage.</li> </ul>
2016	Big Bell Gold Operations  Western Australia	<ul style="list-style-type: none"> <li>• Carried out a complete audit of dangerous good facilities, inclusive of PGI sodium cyanide solid and related mixing activities</li> <li>• Reported on areas worthy of note and areas for improvement in additional to occupational hygiene issues</li> </ul>



Year	Client	Activity
		<ul style="list-style-type: none"> <li>• Audit was carried out against x6 Australian Standards.</li> </ul>
2014	Pt Energy Logistics Indonesia	<ul style="list-style-type: none"> <li>• ICMI Pre-Operational Cyanide Audit</li> </ul>
2014	AngloGold Ashanti Tropicana Gold Mine Western Australia	<ul style="list-style-type: none"> <li>• Complete assessment of design and dangerous goods licensing of a large gold mine in accordance with relevant Australia Standards and AS4452 for cyanide</li> <li>• Provision of advice on cyanide and other dangerous goods transport and storage</li> <li>• Facilitated risk assessment for external and internal transport of cyanide and other dangerous goods</li> <li>• Developed and presented cyanide safety training.</li> </ul>
2013	Goldfields Gold Mine – Kambalda and Agnew Western Australia	<ul style="list-style-type: none"> <li>• Complete assessment of design and dangerous goods licensing of gold mining and processing in accordance with relevant Australia Standards and AS4452 for cyanide</li> <li>• Provision of advice on cyanide and other dangerous goods transport and storage.</li> </ul>
2013	Andy Well Gold Project Western Australia	<ul style="list-style-type: none"> <li>• Complete assessment of design and dangerous goods licensing of gold mining and processing in accordance with relevant Australia Standards and AS4452 for cyanide</li> <li>• Provision of advice on cyanide and other dangerous goods transport and storage.</li> </ul>
2008/2009 /2011/2013	AngloGold Ashanti Sunrise Dam Gold Mine Western Australia	<ul style="list-style-type: none"> <li>• Complete assessment of design and dangerous goods licensing of gold mining and processing</li> <li>• Provision of advice on cyanide and other dangerous goods transport and storage</li> <li>• Ongoing dangerous goods compliance audits and system reviews.</li> </ul>
2013	Barrick Gold – Kanowna Gold Belle Gold Mine Western Australia	<ul style="list-style-type: none"> <li>• Complete assessment of design and dangerous goods licensing of gold mining and processing</li> <li>• Provision of advice on cyanide and other dangerous goods transport and storage</li> <li>• Ongoing dangerous goods compliance audits and system reviews.</li> </ul>
2011	Avoca Resources – Higginsville Gold Project Western Australia	<ul style="list-style-type: none"> <li>• Complete assessment of design and dangerous goods licensing of gold mining and processing</li> <li>• Provision of advice on cyanide and other dangerous goods transport and storage.</li> </ul>
2012	A1 Minerals – Beta Gold Mine Western Australia	<ul style="list-style-type: none"> <li>• Complete assessment of design and dangerous goods licensing of gold mining and processing</li> <li>• Provision of advice on cyanide and other dangerous goods transport and storage.</li> </ul>
2012	Integra Mining - Kalgoorlie Gold Mine Western Australia	<ul style="list-style-type: none"> <li>• Complete assessment of design and dangerous goods licensing of gold mining and processing in accordance with relevant Australia Standards and AS4452 for cyanide</li> <li>• Provision of advice on cyanide and other dangerous goods transport and storage.</li> </ul>



Year	Client	Activity
2012	Millennium Minerals - Nullagine Gold Project Western Australia	<ul style="list-style-type: none"> <li>• Complete assessment of design and dangerous goods licensing of gold mining and processing in accordance with relevant Australia Standards and AS4452 for cyanide</li> <li>• Provision of advice on cyanide and other dangerous goods transport and storage.</li> </ul>
2012	Reed Resources Gold Mine - Meekatharra Western Australia	<ul style="list-style-type: none"> <li>• Complete assessment of design and dangerous goods licensing of gold mining and processing in accordance with relevant Australia Standards and AS4452 for cyanide for processing plant re-start</li> <li>• Provision of advice on cyanide and other dangerous goods transport and storage.</li> </ul>
2010/2011	St Barbara - Marvel Loch Gold Mine and Leonora Gold Mine Western Australia	<ul style="list-style-type: none"> <li>• Complete assessment of design and dangerous goods licensing of gold mining and processing in accordance with relevant Australia Standards and AS4452 for cyanide for new and old processing plant re-start</li> <li>• Provision of advice on cyanide and other dangerous goods transport and storage.</li> </ul>
2010	Catalpa Resources - Edna May Gold Project Western Australia	<ul style="list-style-type: none"> <li>• Complete assessment of design and dangerous goods licensing of gold mining and processing in accordance with relevant Australia Standards and AS4452 for cyanide</li> <li>• Provision of advice on cyanide and other dangerous goods transport and storage.</li> </ul>
2004	Barrick Gold Mine Tanzania	<ul style="list-style-type: none"> <li>• Environmental compliance audit for regulator submission</li> </ul>

**Statement of No Conflict:**

I certify that I have not audited any component of this facility for which I was responsible for design or development; nor have I within the past year been an employee of the facility, its parent company, or associated affiliates. Excluding audits, I have not derived more than 30% of my income within the past 5 years from this facility, its parent, or associated affiliates. I have not participated in more than two consecutive Cyanide Code audits of this facility. I have participated in at least 3 health, safety and/or environmental audits in the past 7 years and am familiar with standard audit procedures as well as with the protocols developed by the International Cyanide Management Institute for implementation of the Code.

Signed

Name

Signature

Date

Lead Auditor

Philip Ashton

5<sup>th</sup> April 2019

Signature Certified by:

*JOANNE TEOH.*  
B Pharm MBS.

VIM & CO  
PHARMACY 5/4/19.

ICMC Credentials Form - April 2018

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Shop 1, 154-156 Newcastle St T 08 9328 9447  
Northbridge WA 6003 F 08 9328 9441