

Mr Eric Schwamberger
International Cyanide Management Institute (ICMI)
1400 I Street, NW, Suite 550
Washington, DC 20005, USA

Northern Star Resources – KCGM Gold Mine Corrective Action Plan Completion Report

Dear Sir,

Background

Northern Star Resources KCGM Gold Mine (KCGM) operation was found to be substantially compliant with the International Cyanide Management Code (ICMC), published in June 2022, as an outcome of the recertification audit conducted from the 23rd to the 26th of November 2021 by Ramboll Australia Pty Ltd (Ramboll).

The recertification audit found that the operation experienced limited compliance oversights during the previous three-year audit cycle in relation to Standards of Practice 4.1 and 7.6. A Corrective Action Plan (CAP) was developed by KCGM to address the identified deficiencies.

Verification of CAP Implementation

A review of the evidence provided by KCGM supporting the full implementation of the CAP was conducted by Ramboll during November 2022. The results of this review are presented in Table 1 below and support the finding that KCGM has successfully implemented the CAP actions and that the operation is now considered as being fully compliant with the ICMC.

Yours sincerely



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Signature of Lead Auditor



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Table 1 KCGM CAP Closeout

Mining Standard of Practice	Deficiency	Corrective Action	Evidence Observed	Compliance Status
<p>4.1 - Implement management and operating systems designed to protect human health and the environment including contingency planning and inspection and preventive maintenance procedures.</p>	<p>KCGM had not established an effective or systematic maintenance schedule for the calibration checks of the online Weak Acid Dissociable Cyanide (WADCN) analyser on the discharge from the Gidji tailings decant cyanide destruct process. The online analyser was inspected and calibrated by an external vendor through 2019 but this did not occur in 2020 or 2021.</p>	<p>Develop and implement a maintenance inspection and calibration program for the online WADCN analyser on the Gidji tailings decant cyanide destruct discharge sufficient to ensure reliable monitoring of the discharge.</p>	<p>The following records of maintenance inspections and calibrations over a 6 month period for the Gidji cyanide destruct facility discharge WADCN analyser were provided by KCGM for review:</p> <ul style="list-style-type: none"> • Gidji KCGM - Cynoprobe Service Report, 14 June 2022 • Gidji KCGM - Cynoprobe Service Report, 18 January 2022 • Gidji KCGM -Cynoprobe Calibration – 18/01/2022 • Gidji KCGM -Cynoprobe Calibration - 22-06-2022 <p>The evidence reviewed indicates that the required maintenance inspections and calibrations are occurring at the specified intervals over a 6 month period.</p>	<p>Full Compliance</p>
<p>4.1 - Implement management and operating systems designed to protect human health and the environment</p>	<p>A number of records of completion of maintenance inspections and checks for Gidji were incomplete. These include: Cyanide Storage Tank Level Calibration Checks – no records since 2018;</p>	<p>Retain documented records of all completed scheduled maintenance of cyanide facilities and equipment that</p>	<p>The following records of completed maintenance inspections over a 6 month period for Gidji Cyanide Storage Tank Level Calibration Checks; Gidji 26wk tank inspections and</p>	<p>Full Compliance</p>

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Mining Standard of Practice	Deficiency	Corrective Action	Evidence Observed	Compliance Status
including contingency planning and inspection and preventive maintenance procedures.	External 26 Week Tank Inspections - missing 2019-2020 records; Tank Leak Monitoring Records - missing 2019-2020.	includes: specific items observed during inspections, date of inspection, name of inspector, observed deficiencies, nature and date of any corrective actions.	Gidji tank leak monitoring records were provided by KCGM for review: <ul style="list-style-type: none"> • Cyanide Storage Tank (TK17A) Inspection, 18 January 2022 • Cyanide Storage Tank (TK17A) Inspection, 23 February 2022 • Cyanide Storage Tank (TK17A) Inspection, 9 March 2022 • Cyanide Storage Tank (TK17A) Inspection, 20 April 2022 • Cyanide Storage Tank (TK17A) Inspection, 25 May 2022 • Cyanide Storage Tank (TK17A) Inspection, 22 June 2022 • Gidji Cyanide Circuit Mechanical Inspection, 22 January 2022 • Gidji Cyanide Circuit Mechanical Inspection, 19 February 2022 • Gidji Cyanide Tailings Airborne Pumps Mechanical Inspection, 29 March 2022 	

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Mining Standard of Practice	Deficiency	Corrective Action	Evidence Observed	Compliance Status
			<ul style="list-style-type: none"> • Gidji Cyanide Tailings Airborne Pumps Mechanical Inspection, 17 April 2022 • Gidji Cyanide Tailings Airborne Pumps Mechanical Inspection, 10 May 2022 • Gidji Cyanide Tailings Airborne Pumps Mechanical Inspection, 21 June 2022 <p>The evidence reviewed indicates that the required maintenance inspections and calibrations are occurring at the specified intervals and records are being retained.</p>	
7.6 - Periodically evaluate response procedures and capabilities and revise them as needed	There is no evidence of completed cyanide emergency response drills undertaken for 2020.	Implement annual cyanide emergency response drills in accordance with the Emergency Response Plan.	<p>KCGM provided the following evidence for review:</p> <ul style="list-style-type: none"> • KCGM – Emergency Drill Schedule 2021-2022 • KCGM Gidji plant Cyanide Incident Emergency Simulation – 23 August 2022 • KCGM Fimiston plant - Cyanide Incident Emergency Simulation – 23 July 2022 <p>The records show the implement of annual cyanide emergency response drills in</p>	Full Compliance

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Mining Standard of Practice	Deficiency	Corrective Action	Evidence Observed	Compliance Status
			accordance with the Emergency Response Plan.	

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