



## The Copper Mark Summary Report

### Site Information

Name of the Site	Vale Copper Cliff Nickel Refinery
Unique identifier provided by the Copper Mark	S006
Address	175 Industrial Rd, Sudbury, ON P3E 6A4
Country of Operation	Canada
Products produced on site (e.g., concentrate, anodes, cathodes, sulphuric acid, slag, etc.)	Copper cathodes, nickel pellets and powder, cobalt intermediate
Metals produced on site (e.g., copper, gold, nickel, silver, molybdenum)	Copper, nickel, cobalt
Metals included in scope (This must be all, or a sub-set of the metals produced on site)	Copper, nickel, cobalt
Metals covered by other independent assessments for Criterion 31 (e.g., RMAP, LBMA, RJC, etc.)	NA
Types of operations included in scope	
Mining	<input type="checkbox"/>
Concentrate blending	<input type="checkbox"/>
Solvent extraction and electrowinning	<input type="checkbox"/>
Smelting	<input checked="" type="checkbox"/>
Refining	<input checked="" type="checkbox"/>
Other ( <i>please explain</i> )	
Infrastructure owned or controlled by the site and included in scope	
Roads	<input type="checkbox"/>
Rails	<input type="checkbox"/>

Ports	<input type="checkbox"/>
Other (please explain)	

### Equivalency Check

Upon receiving the pre-assessment checklist, the Copper Mark did a review of equivalent certificates and third-party assurances.

The following equivalent systems were applied:

*Equivalent systems are determined by the Copper Mark to have standards and assurance requirements that are materially comparable in scope and intent to those of the Copper Mark, in accordance with the Copper Mark Recognition Process.*

Equivalent System <i>(Name, date of assurance / certification)</i>	Review Process	Criteria Covered by Equivalency
NA	NA	NA

### Independent Site Assessment Information

Name of the Lead Assessor	Kaido Katalsepp
Name of the Assessment Firm (if applicable)	Arche Advisors
Date(s) of Assessment Activities (dd/mm/yyyy – dd/mm/yyyy)	9-10 June 2022 Follow up assessment: 22 March 2023
Assessment Period	10 June 2021 – 10 June 2022
Summary of the Assessment Methodology	The assessment was conducted in accordance with ISO19001:2011 Standard. Auditor sampled 10% of primary material transactions and 10% of secondary material transactions. Sampling was not applied for supplier files review and supply chain review - meaning all supplier files and supply chains were assessed. Based on auditor`s judgment the sample was sufficient. Auditor used triangulation method, including site tour, interviews and documentation review to verify the conformance against the JDD Standard.
Summary of the Assessment Activities	On-site assessment at Vale Copper–Cliff Refinery and Smelter was conducted on June 9-10, 2022. Assessment activities started with Opening Meeting on June 9, 2022, with the presence of management representatives, responsible for implementation of Due Diligence Management System. Assessment scope, methodology and activities were explained. Access to requested information was granted by the representatives. Opening meeting was followed by Facility tour, review of Policies and Procedures, review of selected transactions, Management Interview and Closing Meeting. Assessor

	communicated preliminary findings and explained, that final report will be issued later. After the assessment additional clarifications were requested by assessor and these were provided by auditee.
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### Summary of Findings

Criteria	Rating	Comments
1. Management System	Fully meets	<p>As of the follow up assessment on 22 March 2023, this criterion is considered fully meets.</p> <p>Copper Cliff has a medium complexity supply chain, sourcing mined and recycled material from tens of suppliers worldwide. The cobalt intermediate is a byproduct of the copper and nickel production processes that is refined into electrolytic cobalt Rounds at Vale’s Port Colborne refinery.</p> <p>There is a due diligence management system in place including responsible sourcing policies embedded in numerous documents including the code of conduct, human rights policy, sustainability policy, and risk management policy, among others. There is also a dedicated Commitments Page, which can be found <a href="#">here</a>.</p> <p>The policy is supported by procedures to carry out mineral supply chain due diligence. This includes clear roles and responsibilities for accountable persons, a Metals Accounting Standard and process, demonstrated continual improvement, training, and adequate dedicated resources proportional to the size and complexity of the operations.</p> <p>Copper Cliff also has a process to receive and respond to grievances related to violations of the code of conduct. The Whistleblower Channel can be found <a href="#">here</a>.</p> <p>This was confirmed through review of policies, procedures, organizational charts, training material, records, and interviews with relevant personnel.</p> <p>The follow up assessment of 22 March 2023 confirms implementation of the improvement plan to address gaps identified in the management system, including:</p> <ul style="list-style-type: none"> <li>• Policy updates such as identifying minerals covered by the policy.</li> <li>• Defined conditions under which Vale would carry out an independent third-party audit of participating</li> </ul>

		<p>Vale smelters/refiners' due diligence of externally sourced feed.</p> <ul style="list-style-type: none"> <li>• A description of the process to audit external feed suppliers.</li> <li>• Due diligence / OECD training materials provided to relevant staff.</li> <li>• A commitment to support EITI.</li> <li>• It is recommended to sign and date the responsible sourcing policy.</li> </ul>
<p>2. Red Flag Identification Process</p>	<p>Fully meets</p>	<p>As of the follow up assessment on 22 March 2023, this criterion is considered fully meets.</p> <p>Copper Cliff has a process in place to identify red flags.</p> <p>Record review confirms Copper Cliff has a process to determine, record and confirm the weight for each batch of material received in line with the established Metals Accounting Standard.</p> <p>Copper Cliff has a process to collect information from suppliers. In particular, Vale's standard contract template includes provisions for: (i) compliance with Supplier's code of conduct which shall be aligned with Vale's Supplier Code of Conduct and the OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from conflict-affected and high risk and the ten principle of the United Nations Global compact with respect to human rights, labor, environment and anti-corruption and (ii) Vale's right to preform due diligence to assess Supplier's compliance with Vale's policies, including on responsible minerals supply chains, through site visits and inspection production, documents and records review.</p> <p>At the corporate level, Vale has a procedure to identify conflict-affected and high-risk areas using a combination of resources.</p> <p>No red flag related to material origin was identified during the assessment period.</p> <p>The follow up assessment of 22 March 2023 confirms through a review of the Vale Base Metals Standard for Responsible Sourcing of Minerals that:</p> <ul style="list-style-type: none"> <li>• There is a clear and well-defined process to identify red flags that includes the OECD and standard red flags, including transportation routes.</li> <li>• There is a process to determine CAHRAs, including criteria related to conflict, governance, and human</li> </ul>

		<p>rights. For each criteria, adequate resources have been identified and adequate thresholds have been set.</p> <ul style="list-style-type: none"> <li>There are requirements for risk assessments in high-risk supply chains, which may result with site assessments. The implementation of this will be included in the next assessment.</li> </ul>
3. Risk Assessment Process	Fully meets	<p>Copper Cliff has a process to identify risks begins with risk questionnaires, and evaluation by corporate integrity. If risks are identified, further analysis will be completed by normative areas.</p> <p>Copper Cliff has a reasonable procedure to determine the need for on-the-ground assessments for high-risk suppliers. Implementation will be verified during the next assessment, when on-the-ground assessments have already been carried out.</p> <p>No evidence of risks of adverse impacts or actual adverse impacts have been identified in company’s supply chains.</p> <p>As of the follow up assessment of 22 March 2023, the process includes requirements for risk assessments in high-risk supply chains, which may result with site assessments. The implementation of this will be included in the next assessment.</p>
4. Risk Management Process	Fully meets	<p>Copper Cliff has not identified any risks of adverse impacts or actual adverse impacts.</p> <p>Nonetheless, Copper Cliff utilizes the corporate level Risk Management Policy should risks be identified. This defines when relationships with suppliers should be suspended, terminated, or ongoing while mitigation efforts are in effect.</p>
5. Public Reporting	Fully meets	<p>Copper Cliff has a “step 5” report that meets the requirements of the standard and is available <a href="#">here</a>.</p> <p>During the follow up assessment of 22 March 2023, it was noted that revised text includes due diligence processes in external feed supply chain, a commitment statement towards EITI, site-specific information on risk assessments results and management activities where required, and procedures to collect and retain information for red flags identification (KYC, material control etc.).</p>

## Conclusions

<b>Performance Determination</b>	
The site is found to fully meet the conformance criteria of the Joint Due Diligence Standard for Copper, Lead, Nickel and Zinc (Joint Due Diligence Standard).	<input checked="" type="checkbox"/>
The site is found to fully meet or partially meet the conformance criteria of the Joint Due Diligence Standard and has committed to continuous improvement at the site to fully meet the conformance criteria by 16 May 2023.	<input type="checkbox"/>
The site is found to miss some or all of the conformance criteria of the Joint Due Diligence Standard, and has committed to continuous improvement at the site to fully meet all conformance criteria by 16 May 2023.	<input type="checkbox"/>
The site misses some or all of the conformance criteria of the Joint Due Diligence Standard and has not committed to continuous improvement.	<input type="checkbox"/>
Limitations:	
Additional comments:	

### Assurance Process Information

Date of Performance Determination (dd/mm/yyyy)	21 July 2022
Re-assessment Due Date (dd/mm/yyyy)	21 July 2025