

RESPONSIBLE MINING CHECKLIST

This checklist can be used to assess mine projects and/or operators, and identify ways they can improve. This is not an exhaustive list, but rather summarizes the key guidelines for responsible mining contained in our report. The order of guidelines in this checklist is not prioritized. Please consult the main text of our report for more detailed information regarding these and other responsible mining guidelines, and strategies recommended to achieve them.

THE MINE PROJECT/OPERATOR...		
1	Participates in an independent third-party responsible mining assurance program	<input type="checkbox"/>
2	Obtains and maintains broad community support	<input type="checkbox"/>
3	Obtains and maintains Free, Prior, and Informed Consent (FPIC)	<input type="checkbox"/>
	Performs stakeholder engagement that:	
4	<i>i) is meaningful,</i>	<input type="checkbox"/>
5	<i>ii) is ongoing, and</i>	<input type="checkbox"/>
6	<i>iii) covers all aspects of the project that could have social/environmental repercussions.</i>	<input type="checkbox"/>
7	Adheres to the Precautionary Principle	<input type="checkbox"/>
8	Follows the mitigation hierarchy	<input type="checkbox"/>
	Performs alternatives assessments and environmental impact assessments that:	
9	<i>i) use industry-leading tools,</i>	<input type="checkbox"/>
10	<i>ii) are transparent and scientifically robust,</i>	<input type="checkbox"/>
11	<i>iii) prioritize salmon conservation,</i>	<input type="checkbox"/>
12	<i>iv) do not prioritize short-term economic benefits over long-term considerations,</i>	<input type="checkbox"/>
13	<i>v) consider costs and consequences of worst-case scenarios, and</i>	<input type="checkbox"/>
14	<i>vi) are completed before project construction begins.</i>	<input type="checkbox"/>
	Practices adaptive environmental management, including:	
15	<i>i) thorough, long-term management plans that are integrated across the mine site,</i>	<input type="checkbox"/>
16	<i>ii) extensive monitoring for early warning signs of negative impacts,</i>	<input type="checkbox"/>
17	<i>iii) implementation of pre-planned corrective actions when early warning signs are detected, and</i>	<input type="checkbox"/>

18	<i>iii) frequent review and revision of impact predictions (e.g., based on comparison with monitoring data), mitigation strategies, and management/monitoring plans.</i>	<input type="checkbox"/>
19	Performs particularly rigorous assessment, mitigation planning, and environmental management/monitoring related to mine waste, water, and reclamation/post-closure	<input type="checkbox"/>
20	Publicly reports on all aspects of the project that may impact the public, including unanticipated liability and reclamation/post-closure cost estimates, and financial assurance details	<input type="checkbox"/>
21	Facilitates independent monitoring programs	<input type="checkbox"/>
22	Undergoes a wide range of independent expert reviews (especially of waste management, water management, reclamation/post-closure, and management of important species/biodiversity)	<input type="checkbox"/>
23	Publicizes independent review findings/recommendations, and responses to them	<input type="checkbox"/>
24	Thoroughly assesses, mitigates, and manages the project's social impacts	<input type="checkbox"/>
25	Practices local employment and local procurement of goods and services	<input type="checkbox"/>
26	Contributes to self-sustaining, community-driven development initiatives	<input type="checkbox"/>
27	Posts financial security (in the form of hard security), prior to construction, to cover all anticipated reclamation and post-closure costs	<input type="checkbox"/>
28	Acquires public liability insurance, or posts additional securities, to cover costs of unexpected events and/or catastrophic accidents	<input type="checkbox"/>
29	Creates detailed reclamation/post-closure plans, prior to construction, that are based on proven technologies	<input type="checkbox"/>
30	Frequently reviews and updates reclamation/post-closure plans, and associated financial security	<input type="checkbox"/>
31	Subjects reclamation/post-closure plans and implementation, adequacy of financial assurance, and return of financial securities, to stakeholder engagement and independent expert review	<input type="checkbox"/>
32	Avoids development on or near, or other disruption of, significant surface water and groundwater	<input type="checkbox"/>
33	Avoids building over top of, diverting, or otherwise physically disrupting salmonid habitat	<input type="checkbox"/>
34	Avoids withdrawing water from, or releasing impacted water into, salmon-bearing drainages	<input type="checkbox"/>
35	Restricts the scale of the project to reduce its negative impacts	<input type="checkbox"/>
36	Extracts ore by underground methods	<input type="checkbox"/>

	During ore processing:	
37	<i>a) Minimizes consumption of water and chemical reagents.</i>	<input type="checkbox"/>
38	<i>b) Minimizes the volume of tailings produced.</i>	<input type="checkbox"/>
39	<i>c) Minimizes exposure of chemical reagents to the environment.</i>	<input type="checkbox"/>
40	Minimizes waste production (especially of waste rock and tailings)	<input type="checkbox"/>
41	Maximizes disposal of mine wastes as mine backfill	<input type="checkbox"/>
42	Eliminates surface water and minimizes inter-particle water from tailings stored above ground (e.g., by using filtered tailings, or by completely draining wet tailings)	<input type="checkbox"/>
	Uses wet tailings containment dams that are built:	
43	<i>i) following a downstream (vs. centerline, or upstream) design, and</i>	<input type="checkbox"/>
44	<i>ii) to withstand Maximum Credible Earthquake and Maximum Probable Flood events.</i>	<input type="checkbox"/>
45	Manages waste facilities based on the severity (vs. the likelihood) of their potential impacts	<input type="checkbox"/>
46	Effectively mitigates physical and chemical risks from mine wastes using leading tools/ strategies	<input type="checkbox"/>
47	Minimizes clean water consumption	<input type="checkbox"/>
48	Minimizes generation of impacted water	<input type="checkbox"/>
49	Follows a non-degradation approach to water management	<input type="checkbox"/>
50	Avoids using initial dilution zones (a.k.a., "mixing zones")	<input type="checkbox"/>
51	Follows the appropriate hierarchy for mitigating water contamination, including relying on water treatment as little as possible	<input type="checkbox"/>
52	Maximizes recycling of impacted water	<input type="checkbox"/>
53	Installs liners, and underlying drainage systems, under facilities containing mine waste and/ or impacted water	<input type="checkbox"/>
54	Stores impacted water behind a conventional water-retaining dam, not in a tailings facility	<input type="checkbox"/>
	Uses water treatment technology that:	
55	<i>i) minimizes residual impacts (e.g., produces little waste, meets baseline conditions, etc.), and</i>	<input type="checkbox"/>
56	<i>ii) is proven effective at full operational scale, and feasible long-term.</i>	<input type="checkbox"/>
57	Practices progressive reclamation to the maximum extent possible	<input type="checkbox"/>
	Holds reclamation securities in place until reclamation	
58	<i>i) is demonstrated as effective and stable, and</i>	<input type="checkbox"/>

59	<i>ii) is reviewed, and considered adequate, by stakeholders, independent experts, and the public.</i>	<input type="checkbox"/>
At closure:		
60	<i>i) Backfills mine workings.</i>	<input type="checkbox"/>
61	<i>ii) Completely drains tailings (if not already done during operations).</i>	<input type="checkbox"/>
After closure:		
62	<i>i) Restores natural habitats as closely as possible to pre-mining conditions.</i>	<input type="checkbox"/>
63	<i>ii) Holds post-closure securities as long as post-closure activities occur.</i>	<input type="checkbox"/>
64	<i>iii) Performs regular, long-term site monitoring/maintenance, and environmental monitoring.</i>	<input type="checkbox"/>