

Capability Statement

Sustainability | Strategy | Metallurgy | Process Innovation

Resourceful Paths is a sustainability and engineering consulting firm incorporated in Vancouver, BC, Canada focused on responsible mining. Principal Consultant, Laurie Reemeyer, has almost 30 years of experience in mining and metals operations, project and technical management, due diligence and consulting. In country experience: Australia, Canada, Mongolia, USA

Sustainability, Strategy and Process Innovation

- Study management for mining and metals projects with a focus on concept and pre-feasibility phases
- Mergers and acquisitions and commodities diversification strategies
- Metallurgy, financial and environmental due diligence: Site based - Australia, Canada, North Macedonia, USA; Desktop based: Bolivia, Botswana, Brazil, Chile, China, Ecuador, Finland, Laos, Mauritania, Mexico, New Caledonia, Norway, Papua New Guinea, Peru, Portugal, Romania, Spain, Sweden, Turkey, Zambia
- Development of mining sustainability strategy and metrics – water and energy efficiency, GHG reduction and climate change mitigation, tailings management
- Value driver tree analysis – revenues, costs, energy and water use, GHG emissions
- Resource recovery and beneficial reuse assessment
- Preparation of financial and business cases - sustainability and business improvement initiatives
- Project alternatives SWOT, risk assessment, decision tree analysis and project stage gate facilitation
- Evaluation of emerging process technologies to reduce GHG and water intensity and mitigate water quality risks
- NI 43-101 report preparation and Qualified Person (QP)

Metallurgy

- Commodities: Cu, Pb-Zn-Ag, Au, Ni, PGM, Sn, W, polymetallic base metals
- Unit operations: Crushing and grinding, sulphide flotation, gravity, fine regrinding, dewatering, smelting
- Pre-concentration, grind size, throughput, concentrate grade, recovery economic trade-offs
- Base metals value chain analysis and optimization – mine, concentrator, smelter and refinery including concentrate marketing or alternative processing strategies, and selective mining
- Brownfield process plant modification and debottlenecking and business case preparation
- Integration of mine, process, waste management production, cost and financial plans
- Tailings retreatment and beneficial use assessment
- Metallurgical accounting review including assessment of unaccounted metal losses

Professional Qualifications – Laurie Reemeyer:

- Bachelor of Engineering (Minerals Process, Honours), University of Queensland, 1993
- MBA (Honors, Certificate Engineering and Business Sustainability), UC Berkeley, 2010
- Professional Engineer, B.C., Fellow CP(Met), Australasian Institute of Mining and Metallurgy

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