

Minerals Processing Solutions

Zink - Lead
Montenegro

Customer: Gradir

Project type: Brownfield

Plant: Montenegro

Ore: Zn – Pb sulphide low grade ore, waste rock andesit

Scope of supply: Primary and secondary crushing 200t/h, Dense media plant feed 60t/h 3-55mm, Float rejection 25t/h, tertiary cruching of preconcentrate, Flotation feed 35t/h, 0-6mm, Hydravlic transport 550m to flotation plant.

Equipment & Processes:

Primary crusher C80, vibrating feeders (4), Screens CVB1540 P-2 (4), Secondary crusher GP100S, Tunnel reclaiming system, tertiary crusher VI200, Densemedia plant Dyna Whirl Pool(DWP) 15,5", Densifier, magnetic separator WS1218DMHG two stage, vertical tank pumps, Media pump VASA HD455-100, Media screen Low Head LH1500x4800 SD devided, Hydraulic transport 550m Trellex surry hoses to flotation plant, Ball mills SRR2,1x4,2 (3) , regrinding ball mill SRR1,2x2,4, Flotation cells RCS10(11), RCS5 (5), RCS0,8 (3), pumps, Froth pumps, Reagent mixing and storage tanks with reagent pumps, Press filter VPA1040-20, Air blower (2), Automated control of the plant, Conveyors, Cyclones, Agitators IPS thickeners LTE 220-6,3/6-F (2), Concentrate thickeners.



Comments: Introduction of hydraulic transport from the preconcentration at mine site to the flotation. Press filtration of tailings and maximum recirculation of process water with separate process water circuit for Pb-flotation circuit and and Zn-flotation circuit.

Benefits: Preconcentration of low grade Zn-Pb ore in Dense media system DWP Rejecting over 40weight % of hard waste rock andesit at over 93% metal recovery, contributing to lower grinding energy input and increasing feed grade to the flotation.

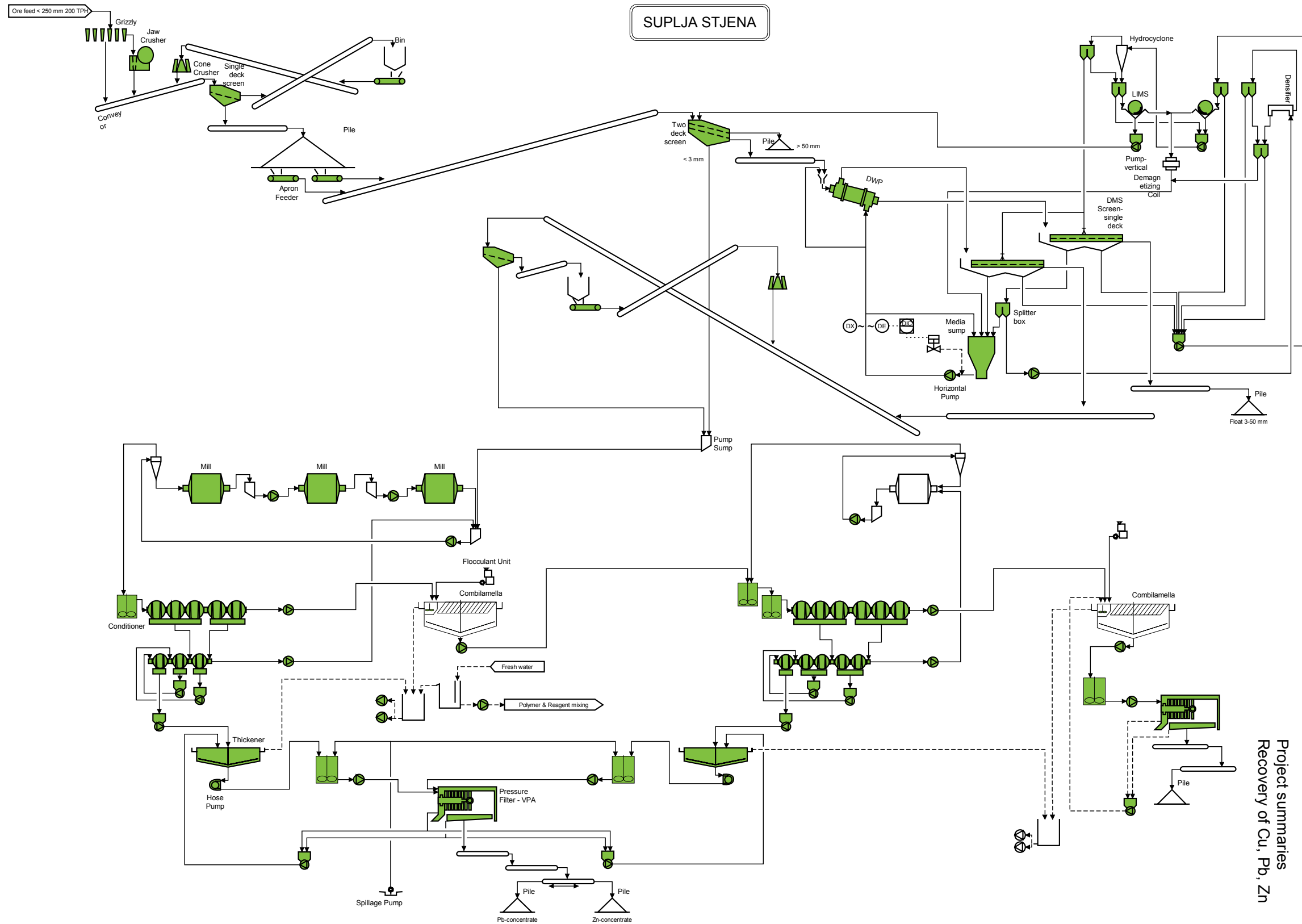
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Project summaries
Recovery of Cu, Pb, Zn