

CRC ORE PROJECT PIPELINE

March 2021



Development Projects (timeline is calendar year)	Partners	2015		2016				2017				2018				2019				2020				2021					
		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
IMPLEMENTATION																													
☰ S2-060.A: Los Bronces Advanced Concept Study	Anglo American, COMET			TRL5-TRL7 S2-060.A																									
☰ S2-060.E: Mantoverde Grade Engineering® Study	Anglo American	TRL5-7 S2-060.E																											
☰ S2-079: Los Bronces Grade Engineering® Blast Trial	Anglo American, Davey Bickford, Jerricho, SGS			TRL5-TRL7 S2-079																									
☰ S2-082: THM Livengood GE Opportunity Assessment	Tower Hill Mines			TRL5-TRL7 S2-082																									
☰ S2-085: Gruyere GE Opportunity Assessment	Gold Road Resources			TRL5-TRL7 S2-085																									
☰ P5-001.A: Escondida Differential Blasting Study	BHP, SGS			TRL5-TRL7 P5-001.A																									
☰ P5-001.B: Escondida Integrated Extraction Simulation (IES) Implementation	BHP, JKTech				TRL5-TRL7 P5-001.B				PHASE 2																				
☰ P5-001.C: Escondida As-Is Mapping	BHP				TRL5-TRL7 P5-001.C																								
☰ P5-005.A: Advanced Fragmentation Technologies	Anglo American, JKTech			TRL5-TRL7 P5-005.A																									
P5-005.B: Advance Production Modelling and Control	Anglo American, JKTech			TRL5-TRL7 P5-005.B																									
☰ P5-007.C: Lihir Opportunity Assessment	Newcrest, Bear Rock			TRL5-TRL7 P5-007.C																									
☰ P5-009: Linking Grade Engineering® and Whittle EOC	Whittle Consulting			TRL5-TRL7 P5-009																									
☰ P5-010 & ☰ P5-037: Minera San Cristóbal GE Study and Production Trial	Sumitomo, JKTech, METSO					TRL5-TRL7 P5-010				TRL5-TRL7 P5-037																			
☰ P5-011: Detour Gold GE Opportunity Assessment	Detour Gold				TRL5-TRL7 P5-011																								
P5-012: Los Bronces IES Implementation Project	Anglo American, JKTech							TRL5-TRL7 P5-012																					
☰ P5-015: Kalgoorlie-Boulder Mining Innovation Hub	WASM				TRL5-TRL7 P5-015				TRL4-TRL7 P5-041																				
☰ P5-016 & ☰ P5-040: Carmen de Andacollo Screening Assessment	Teck				TRL5-TRL7 P5-016				TRL5-7 P5-040																				
P5-018: Sierra Gorda Grade Engineering Study	Sumitomo, KGHM							TRL5-TRL7 P5-018																					
☰ P5-019: CRC ORE - ORICA Differential Blasting Partnership	ORICA					TRL5-TRL7 P5-019																							
P5-021: Surge Slave Separator-Sensing Opportunity Assessment at Minera Escondida Limitada	BHP, Hatch, Mining³					TRL5-TRL7 P5-021																							
P5-022: Los Bronces Opportunity Assessment and Surge Slave Separator	Anglo American, Hatch							TRL5-TRL7 P5-022																					
☰ P5-023: Gramalote Grade Engineering PFS Review	Anglo American, CSIRO, Advisian					TRL5-TRL7 P5-023																							
P5-025: Instrumenting the Bench	Imdex, Orica, Sodern, Atlas Copco									TRL 5 P5-025	TRL 5 P5-025.d																		
P5-026: Bonikro Stockpile Preferential Department Sampling Study	Newcrest									TRL 6 P5-026	TRL5-TRL7 P5-027																		
☰ P5-027: Los Bronces Blasting Study	Anglo American										TRL5-TRL7 P5-027																		
P5-028: MEL Grade Heterogeneity Study	BHP									TRL 5 P5-028																			
☰ P5-042: BHP Heterogeneity Partnership	BHP										TRL5-7 P5-042																		
P5-044: Data analytics for integrated sensor trials at Escondida	BHP										TRL5-TRL6 P5-044																		
P5-045: Analysis of Extended BIMM at MEL	BHP										TRL5-TRL7 P5-045																		
P5-048: BlastOre Applicability	BHP										TRL5-TRL6 P5-048																		
P5-049: Escondida Mine to Mill value quantification	BHP										TRL6 P5-049																		
P5-050: Simulation of movement and mixing during blast and excavation	BHP										TRL5-TRL6 P5-050																		
P5-051.A: Throughput improvement support at Escondida ; P5-051.L-O M2M Flowsheets calibration and validation for MEL	BHP										TRL6-8 P5-051				TRL6-8 P5-051.L-O														
P5-051.B-K: M2M Risk Management	BHP										TRL P5-051.A																		
P5-052: Mogalakwena Sensor Fusion Trial	Anglo American										TRL 6 – TRL 8 P5-052																		
P5-057: Brown Book	CRC ORE															TRL 7 – TRL 8 P5-057													
P5-058: CADIA	Newcrest										TRL 5 - TRL 7 P5-058																		
P5-059: Collahuasi CTM Study	Anglo American										TRL5 P5-059																		
P5-063: Bulk Ore Sorting Implementation	Anglo American															TRL 7 P5-063													
P5-064: Escondida Test Track Data for LIBS Mineralogy Prototype Development	BHP										TRL5-6 P5-064																		
P5-065: Assessing the AG department in 4 samples of San Cristobel tailings	UTAS										TRL P5-065																		
P5-066: Telfer Grade Engineering Production Trial	Newcrest										TRL5-TRL7 P5-066																		
P5-067: BHP Value Study for Next Generation Processing Technologies	BHP										TRL2 -TRL3 P5-067																		

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P5-068: Multi Stage Impactor Development	Sumitomo																	TRL2-TRL3 P5-068								
P5-070: Data Analytics for RTI Validation and High-Resolution Ore Control (Hi-ROC)	BHP																		TRL5 P5-070							
P5-073: Flowsheet Configuration and Block Model Value Quantification for Mount Keith M2M Initial Assessment	BHP																									
P5-074: Olympic Dam Bulk Sensor Deployment Assessment	BHP																									
P5-075: New Technologies Opportunity Assessment for Amandelbult	AA																									
P5-077: MSC De-Risking Project – GE Operationalisation	Sumitomo																									
P5-078.A: IES Flowsheet Enhancement – Neural Net Retraining	AA																									
P5-078.B: IES Flowsheet Enhancement - Flowsheet Configuration (Platreef)	AA																									
P5-078.C: IES Flowsheet Enhancement – Additional UFRJ Models (Minas Rio)	AA																									
P5-078.E: IES Flowsheet Enhancement - Flotation Flowsheet Configuration for Mogalakwena	AA																									
P5-079: MSC De-Risking Project – GE Waste	Sumitomo																									
P5-080: De-Risking Study of MSC Sulphide Plant Optimisation	Sumitomo																									
P5-081: MSC De-risking Project – Ultra Fine Silver Recovery	Sumitomo																									
P5-082: MSC De-Risking Project Reporting	Sumitomo																									
P5-087: CDA Flowsheet Development	CDA																									
KAL HUB																										
KH-005.A: GE investigation into the relationship between ore grade & size in the Kal Hub region	CRC ORE																									
KH-005.B: Meso scale screening equipment	Curtin University																									
KH-007: Integrated screening & sorting	KalHub/Curtin University																									
KH-007.A: Integrated screening & sorting (Saracen)	KalHub/Curtin University																									
KH-007.B: Integrated screening & sorting (BHP)	KalHub/Curtin University																									
KH-007.C: Integrated screening & sorting (Paddington Gold)	KalHub/Curtin University																									
KH-007.D: Integrated screening & sorting (Evolution)	KalHub/Curtin University																									