

CRC ORE PROJECT PIPELINE

July 2019



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 EC	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				Potential next phase																
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																			
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: Throughput improvement support at Escondida	BHP									TRL*** P5-051																		
P5-051.A: 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 deportment 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														
P5-068: Sumitomo (MSC) Grade Engineering Crusher	Sumitomo													TRL2-TRL3 P5-068														
KAL HUB																												

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KH-005.A: GE investigation into the relationship between ore grade & size in the Kal Hub region	CRC ORE													TRL5 KH-005.A											
KH-005.B: Meso scale screening equipment	Curtin University													TRL5 KH-005.B											
KH-007: Integrated screening & sorting	KalHub/Curtin University																		TRL5-TRL7 KH-007						
KH-007.A Integrated screening & sorting (Saracen)	KalHub/Curtin University																		TRL5-TRL7 KH-007.A						
KH-007.B Integrated screening & sorting (BHP)	KalHub/Curtin University																		TRL5-TRL7 KH-007.B						
KH-007.C Integrated screening & sorting (Paddington Gold)	KalHub/Curtin University																		TRL5-TRL7 KH-007.C						