

McPhee Creek Iron Ore Project

Proposal Content Document

Table 1: General proposal content description

Proposal title	McPhee Creek Iron Ore Project
Proponent name	Atlas Iron Ltd Pty
Short description	<p>The McPhee Creek Iron Ore Project is located approximately 30 km north of Nullagine (Figure 1). The Proposal is for the mining from five open cut pits including above water table (AWT) mining from the Crescent Moon pit and below water table (BWT) mining from the Nicholson, Ord, Murray and Avon pits (Figure 2). The Proposal includes the development of mine pits and associated infrastructure including but not limited to crushing and screening facilities, waste landforms, run of mine pad, access roads, solar field, administration, accommodation camp, stockpile and laydown areas, borrow pits, groundwater bores and transfer infrastructure, explosives magazine, fuel storage and landfill.</p> <p>Management of excess dewater is proposed via surface water discharge to three creeks (Figure 3).</p> <p>Ore will be transported by truck to the existing Roy Hill Iron Ore Project, or other third parties for processing, or may be on sold as direct shipping ore.</p>

Table 2: Proposal content elements

Proposal element	Location / description	Maximum extent, capacity or range
Physical elements		
Mine elements including: <ul style="list-style-type: none"> - Above and below water table mining of five open cut pits - Waste Rock Dumps - Topsoil stockpiles - Ore Stockpile 	Within Development Envelope and outside of the Significant Fauna Exclusion Zone (Figure 2).	Clearing of up to 1,913 ha within a Development Envelope of 4,465 ha including approximately 670.2 ha of high value fauna habitat.
Infrastructure elements including: <ul style="list-style-type: none"> - Accommodation camp - Energy supply infrastructure - Ancillary buildings (e.g. workshops, communications, offices); - WWTPs; - Landfill; - Hydrocarbon storage; - Explosive mixing and storage facility; - Laydown areas; - Above ground water storage dams to manage supply or disposal of clean or mine water. 		

Operational elements		
Groundwater abstraction	Within Development Envelope (Figure 2)	Abstraction of up to 16 GL/a groundwater for mine dewatering
Surplus water management	McPhee Creek, branch of McPhee Creek and Lionel Creek (Figure 3)	Controlled surface discharge of surplus water to three creeklines within the wetting fronts as shown in Figure 3
Proposal elements with greenhouse gas emissions		
Construction elements: Annual average		
Construction - Vegetation clearing	Scope 1 - 98,688 tonnes of CO ₂ -equivalence (t CO ₂ -e)	
Operational elements: Annual Average Life of Mine		
Operations - Production - Energy production - Wastewater emissions	Scope 1 – 57,095 t CO ₂ -e	
Rehabilitation		
<p>Where practicable, progressive rehabilitation will be undertaken over the life of the mine.</p> <p>Areas disturbed through the implementation of the Proposal will be designed to be safe and non-polluting and will be constructed so the final shape, size, stability, are comparable with the natural landforms in the area.</p>		
Commissioning		
Commissioning of the infrastructure and operational elements will be undertaken subject to the operational limits above.		
Other elements which affect extent of effects on the environment		
Proposal timeframe	Maximum project life	15 years

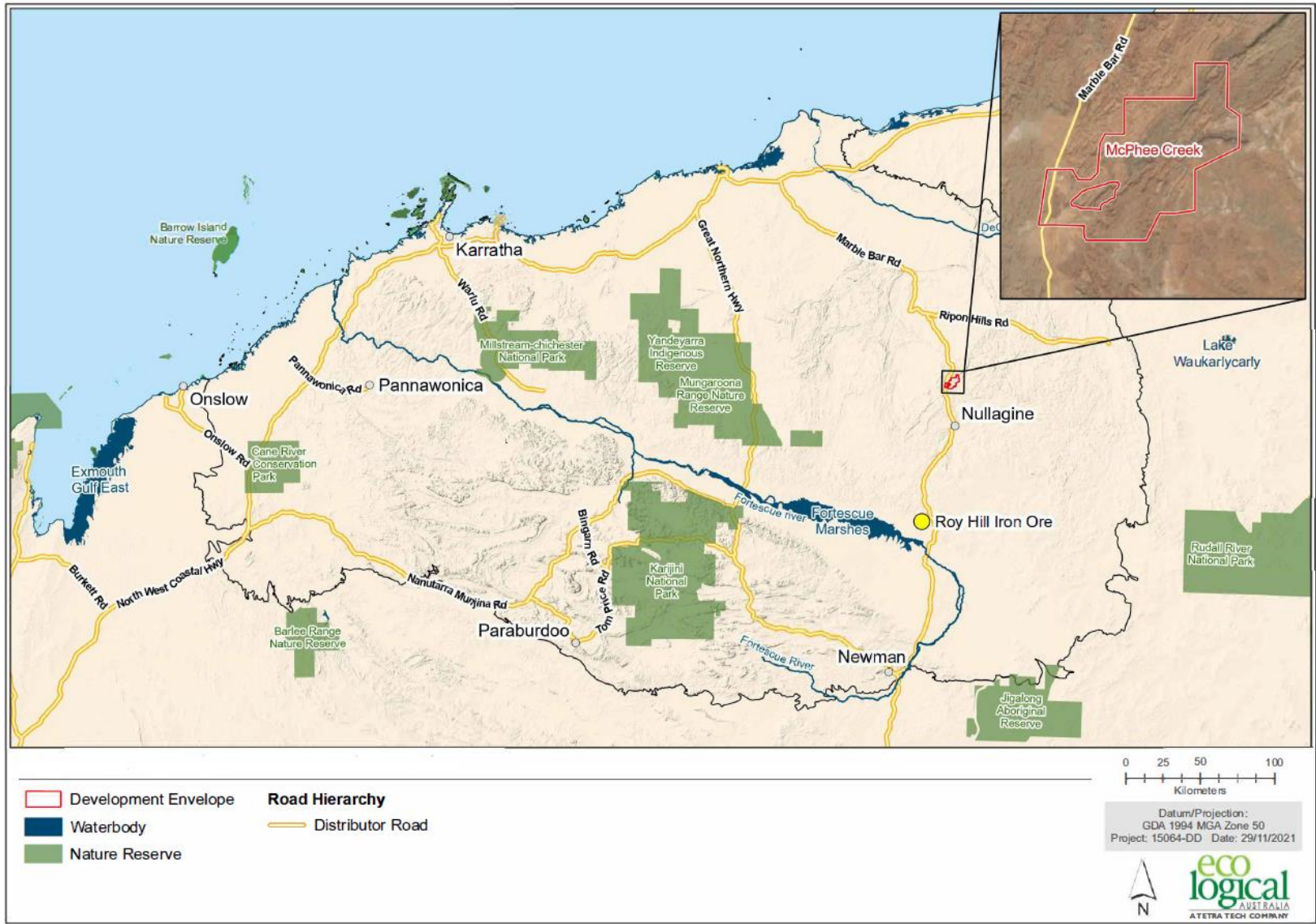


Figure 1 Regional Location of the Proposal

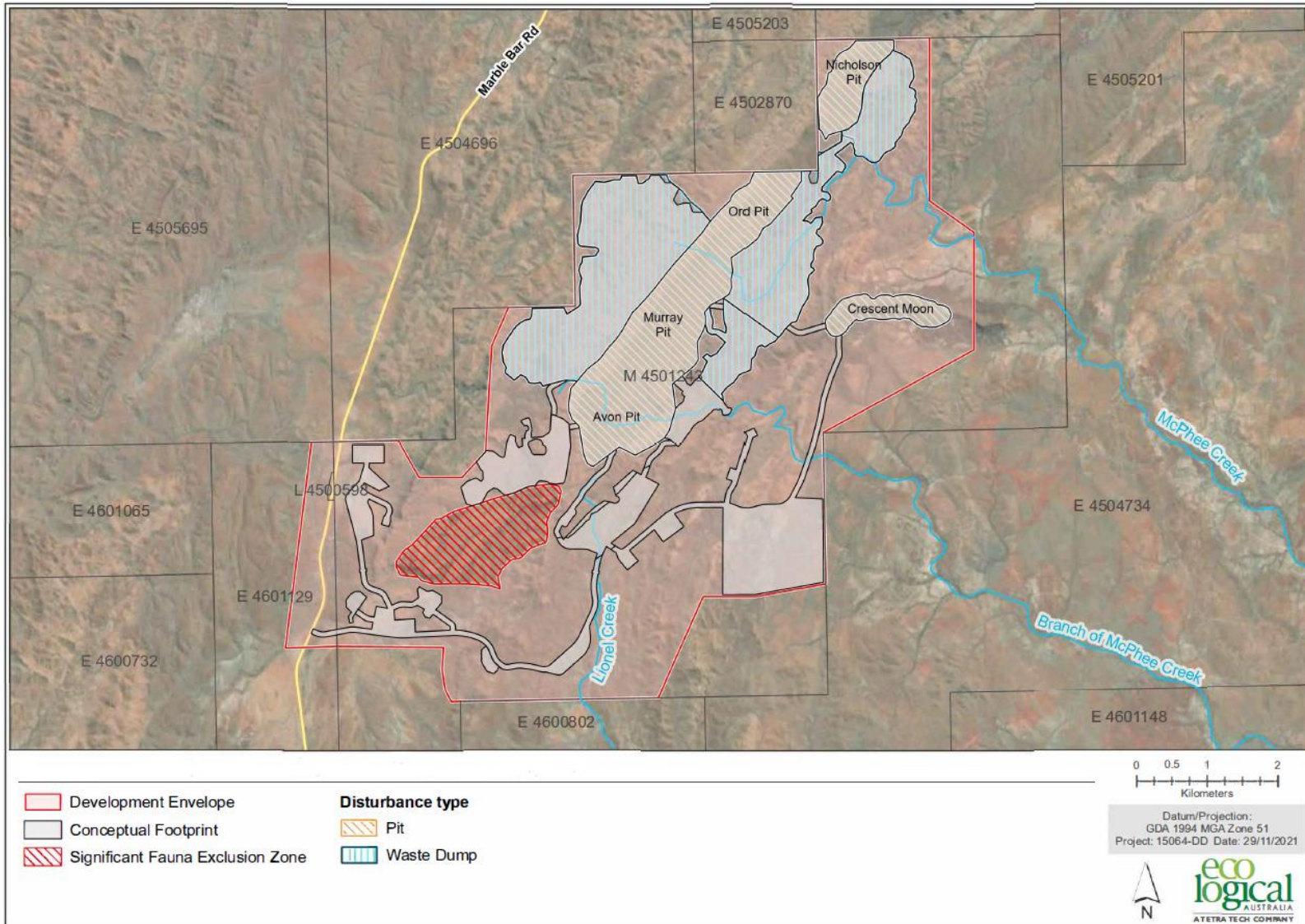


Figure 2 Development Envelope and Conceptual Footprint

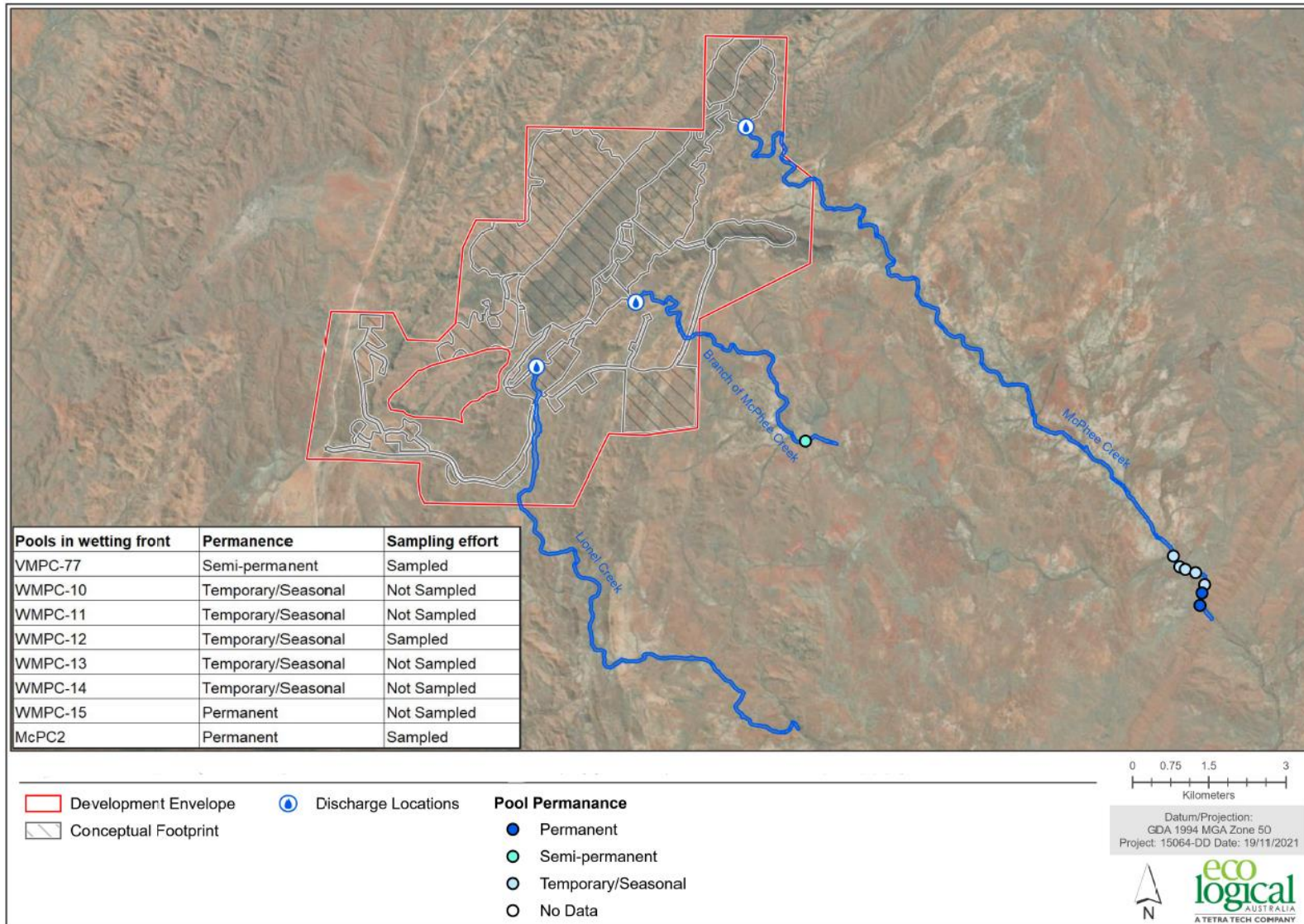


Figure 3 Maximum extent of continuous flow in creeks under natural no flow conditions due to discharge