

Site Factors					ROI 1	ROI 2	ROI 3	ROI n	EZ1 SUM
Science Site Criteria	Astrobio	Threshold	AND/OR	Potential for past habitability					
				Potential for present habitability/refugia					
		Qualifying	Potential for organic matter, w/ surface exposure						
	Atmospheric Science	Threshold	Noachian/Hesperian rocks w/ trapped atmospheric gases						
		Qualifying	Meteorological diversity in space and time						
			High likelihood of surface-atmosphere exchange						
			Amazonian subsurface or high-latitude ice or sediment						
		High likelihood of active trace gas sources							
	Geoscience	Threshold	Range of martian geologic time; datable surfaces						
			Evidence of aqueous processes						
			Potential for interpreting relative ages						
		Qualifying	Igneous Rocks tied to 1+ provinces or different times						
			Near-surface ice, glacial or permafrost						
			Noachian or pre-Noachian bedrock units						
			Outcrops with remnant magnetization						
Primary, secondary, and basin-forming impact deposits									
Structural features with regional or global context									
Diversity of aeolian sediments and/or landforms									
ISRU and Civil Engineering Criteria	Engineering		Meets First Order Criteria (Latitude, Elevation, Thermal Inertia)						
	Water Resource	Threshold	AND/OR	Potential for ice or ice/regolith mix					
				Potential for hydrated minerals					
			Quantity for substantial production						
		Potential to be minable by highly automated systems							
		Located less than 3 km from processing equipment site							
		Located no more than 3 meters below the surface							
		Accessible by automated systems							
	Qualifying	Potential for multiple sources of ice, ice/regolith mix <b>and</b> hydrated minerals							
		Distance to resource location can be >5 km							
		Route to resource location must be (plausibly) traversable							
	Civil Engineering	Threshold	~50 sq km region of flat and stable terrain with sparse rock distribution						
			1–10 km length scale: <10°						
		Qualifying	Located within 5 km of landing site location						
	Located in the northern hemisphere								
	Food Production	Qualifying	Evidence of abundant cobble sized or smaller rocks and bulk, loose regolith						
			Utilitarian terrain features						
			Low latitude						
			No local terrain feature(s) that could shadow light collection facilities						
	Metal/Silicon Resource	Qualifying	Access to water						
			Access to dark, minimally altered basaltic sands						
		Threshold	Potential for metal/silicon						
Potential to be minable by highly automated systems									
Located less than 3 km from processing equipment site									
Located no more than 3 meters below the surface									
Qualifying	Accessible by automated systems								
	Potential for multiple sources of metals/silicon								
	Distance to resource location can be >5 km								
Route to resource location must be (plausibly) traversable									

Key	
●	Yes
○	Partial Support or Debated
	No
?	Indeterminate

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