A) XRD results

TS, BC, JC and ND were analyzed at USGS in Menlo Park, CA in 2013. CP, OP, WP and HP were analyzed at the Department of Geology at Kansas State University in 2017.



TS







B) Product of image analysis for estimating serpentine content

Images below highlight the potential serpentine bearing zones in a ~2mm x ~2mm area of thin sections.



C)	Table below sh	ow the calculation	methodology for	[•] estimating Ser	pentine conter	nt of
	each sample					

Sample	Serpentine content estimated	Serpentine content	Serpentine content	
	through image analysis of a	calculated through	corrected after whole	
	4mm ² area of thin section	image analysis of the	thin section observations	
	(Supplementary material B)	whole thin section	and rounding to the	
		$(3 \text{ cm}^2 \text{ area})$	nearest 0 or 5 %	
TS	4%	3%	5%	
BC	12%	9%	10%	
JC	26%	19.5%	30%	
ND	44%	33%	40%	
СР	68%	51%	60%	
OP	71%	53.25%	75%	
WP	90%	67.5%	85%	
HP	98%	75%	95%	