

Table S1. Results (*W* statistic and p-values) from Shapiro-Wilk tests to assess data normality for reactive Cr(VI) concentrations (µg/kg). Bold, italicized p-values indicate data do not meet normality assumption and thus were analyzed using nonparametric tests. The number of soil core replicates used to calculate means and standard errors (SE) for each soil type (same for surface and control depths) is reported as *n* and detailed in **Extended Data Table 1**.

			<u>Near Surface (0-2 cm)</u>				<u>Control Depth (10-16 cm)</u>			
Geology	Fire Severity	<i>n</i>	Mean (µg/kg)	± SE (µg/kg)	W	p-value	Mean (µg/kg)	± SE (µg/kg)	W	p-value
<u>Fire-Affected Sites</u>										
Serpentinite	Low	3	73.0	16.5	0.780	0.068	18.5	2.9	0.985	0.768
	Mod/High	4	226.3	10.5	0.785	0.078	63.1	27.3	0.903	0.444
	All	7	160.6	32.1	0.841	0.100	44.0	17.2	0.725	0.0069
Rhyolite	Low	4	12.2	4.1	0.870	0.297	3.9	1.0	0.801	0.104
Mélange	Low	9	40.7	10.4	0.910	0.316	11.0	3.2	0.929	0.476
<u>Unburned Sites</u>										
Serpentinite	-	3	35.1	15.9	0.991	0.823	16.5	8.1	0.768	0.040
Rhyolite	-	3	6.5	1.4	0.802	0.120	1.5	1.3	0.754	0.0087
Mélange	-	7	25.2	3.9	0.847	0.116	10.7	3.8	0.825	0.071