

Table 1. Mass of Cu, Zn, and Pb in upper 50 cm of sediment in Lake Junín relative to annual output from mining activities in Cerro de Pasco

Core	Average Cu in upper 50 cm (ppm)	Average Zn in upper 50 cm (ppm)	Average Pb in upper 50 cm (ppm)
F	220	8511	223
C	1805	17977	1009
G	2448	16104	1560
2002	192	12827	162
B	75	10226	48
D	94	6162	270
average concentration in upper 50 cm of sediments in Lake Junín (ppm)	806	11968	545
average dry bulk density of sediment ( $\text{g cm}^{-3}$ )		1	
surface area of lake ( $\text{km}^2$ )*		150	
surface area of lake ( $\text{cm}^2$ )*		$1.5\text{E} + 12$	
volume of sediment ( $\text{cm}^3$ )		$7.5\text{E} + 13$	
mass of sediment (g)		$7.5\text{E} + 13$	
mass of metal (g)	$6.0\text{E} + 10$	$9.0\text{E} + 11$	$4.1\text{E} + 10$
mass of metal (metric tons)	60,425	897,588	40,900
Cerro de Pasco mining output (metric tons; average 2009–2011) <sup>†</sup>	n/a	177,000	55,333
2009–2011 average mining output from Cerro de Pasco in upper 50 cm of Lake Junín mud (per year)	n/a	5.1	0.7

Note: n/a—not applicable.

\* Does not include area of fringing wetlands.

<sup>†</sup> From Volcan (2013).