

**PROVINCE OF BRITISH COLUMBIA**  
**ORDER OF THE LIEUTENANT GOVERNOR IN COUNCIL**

Order in Council No. 024 , Approved and Ordered January 30, 2017

  
Lieutenant Governor

**Executive Council Chambers, Victoria**

On the recommendation of the undersigned, the Lieutenant Governor, by and with the advice and consent of the Executive Council, orders that B.C. Reg. 243/2016 is amended in Schedule 10.1 by repealing Table 11 and substituting the attached Table 11.

<b>DEPOSITED</b>  January 31, 2017  B.C. REG. <u>12/2017</u>
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*Minister of Environment*



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*Presiding Member of the Executive Council*

(This part is for administrative purposes only and is not part of the Order.)

**Authority under which Order is made:**

Act and section: *Environmental Management Act*, S.B.C. 2003, c. 53, ss. 21 and 138

Other: OIC 747/2016; 84/2002

December 15, 2016

R/1167/2016/96

TABLE 11 – ZINC (CAS# 7440-66-6)<sup>1</sup>

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands (Natural) (WL <sub>N</sub> )	Wildlands (Reverted) (WL <sub>R</sub> )	Agricultural (AL)	Urban Park (PL)	Residential (Low Density) (RL <sub>LDR</sub> )	Residential (High Density) (RL <sub>HDR</sub> )	Commercial (CL)	Industrial (IL)	2
<b>HUMAN HEALTH PROTECTION</b>									
Intake of contaminated soil	25 000	25 000	10 000	25 000	10 000	25 000	75 000	> 1 000 mg/g	3
Groundwater used for drinking water									
pH < 5.0	200	200	200	200	200	200	200	200	4
pH 5.0 - < 5.5	250	250	250	250	250	250	250	250	4
pH 5.5 - < 6.0	300	300	300	300	300	300	300	300	4
pH 6.0 - < 6.5	450	450	450	450	450	450	450	450	4
pH 6.5 - < 7.0	600	600	600	600	600	600	600	600	4
pH 7.0 - < 7.5	1 000	1 000	1 000	1 000	1 000	1 000	1 000	1 000	4
pH 7.5 - < 8.0	3 000	3 000	3 000	3 000	3 000	3 000	3 000	3 000	4
pH ≥ 8.0	5 500	5 500	5 500	5 500	5 500	5 500	5 500	5 500	4
<b>ENVIRONMENTAL PROTECTION</b>									
Toxicity to soil invertebrates and plants	300	450	450	450	450	450	450	450	
Livestock ingesting soil and fodder			200						
Major microbial functional impairment			200						5
Groundwater flow to surface water used by aquatic life									
Freshwater									
pH < 6.5	150	150	150	150	150	150	150	150	4,6,7
pH 6.5 - < 7.0	200	200	200	200	200	200	200	200	4,7
pH 7.0 - < 7.5	350	350	350	350	350	350	350	350	4,7
pH 7.5 - < 8.0	900	900	900	900	900	900	900	900	4,7
pH ≥ 8.0	1 500	1 500	1 500	1 500	1 500	1 500	1 500	1 500	4,7
Marine									
pH < 8.0	150	150	150	150	150	150	150	150	4,6
pH ≥ 8.0	200	200	200	200	200	200	200	200	4

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Site-specific Factor	Wildlands (Natural) (WL <sub>N</sub> )	Wildlands (Reverted) (WL <sub>R</sub> )	Agricultural (AL)	Urban Park (PL)	Residential (Low Density) (RL <sub>LDR</sub> )	Residential (High Density) (RL <sub>HDR</sub> )	Commercial (CL)	Industrial (IL)	2
Groundwater used for livestock watering									
pH < 5.5			150						4,6
pH 5.5 - < 6.0			200						4
pH 6.0 - < 6.5			300						4
pH 6.5 - < 7.0			400						4
pH 7.0 - < 7.5			750						4
pH 7.5 - < 8.0			2 000						4
pH ≥ 8.0			3 500						4
Groundwater used for irrigation									
pH < 6.0			150	150	150	150			4,6
pH 6.0 - < 6.5			300	300	300	300			4
pH 6.5 - < 7.0			400	400	400	400			4
pH 7.0 - < 7.5			2 000	2 000	2 000	2 000			4
pH 7.5 - < 8.0			5 000	5 000	5 000	5 000			4
pH ≥ 8.0			9 000	9 000	9 000	9 000			4

**Notes**

1. All values in µg/g unless otherwise stated. Substances must be analyzed using methods specified in the 2015 British Columbia Environmental Laboratory Manual, as updated from time to time, a director's protocol or alternative methods acceptable to a director.
2. The site-specific factors of human intake of contaminated soil and toxicity to soil invertebrates and plants specified in this table apply at all sites. The high density residential land use standards of this table assume the prohibition of the use of the land (a) to grow plants for human consumption, and (b) as a children's playground, sports field, picnic area or any other use that promotes frequent contact by children. Consult a director for further advice.
3. Intake pathway of exposure modelled is inadvertent ingestion of soil.
4. The pH is the pH of the soil at a site.
5. Standard is set equal to the 1999 Canadian Council of Ministers of the Environment, "Nutrient and energy cycling check value".
6. Standards have been adjusted based on the 2016 reference Provincial background soil concentration for the substance.
7. Standard varies with receiving water hardness (H). H = 100 to < 200 mg/L as CaCO<sub>3</sub> is assumed. Consult a director for further advice.