

SLUDGE

Compound Sequence when tested	Elk Falls ? 100% clo2	Powell River 50-80% clo2	Celgar (100% clo2)	
TCDD/F TEQ	100 ng/kg (eg. 100 ppt)	Approx 200 ppt Secondary	.4 ppt	
PCBs	nd			
Chlorobenzenes	10-20 ug/kg (1,2,3 & 1,24)			
Chlorophenols	10-100 ug/kg (penta, 2,4, & 2,5)			
PAH	9 at 1 ug to 1 mg/kg*			
Total organic halogens	.7 g/kg			
Chlorides	.7 g/kg			
Metals				
Aluminium, Calcium, Iron	1 g/kg			
Manganese	100 mg to 1 g/kg			
Barium, Chromium, copper, vanadium and zinc	10 to 100 mg/kg		25 ug/g copper	
cadium			.4 ug/g	
boron and nickel	1 to 10 mg/kg			

*PAHs detected in Elk Falls sludge at between 1 ug/kg and 1 mg/kg:

- acenaphthene
- fluorene
- 2-methyl-fluorene
- phenanthrene

fluoranthene
pyrene
benzo (a) fluorene
benzo (b) fluorene
1-methyl-pyrene

Note titanium is found in hgh concentrations in sludge from 100% clo2 mills eg) .
100ug/g