

Appendix J: Fluid Sample Analysis Post-Incident

Samples were taken after the incident from the Fernie Memorial Arena refrigeration and brine systems as well as from a trench under the brine pipe with the separated coupling. Lab analysis of these samples are summarized below.

Table J-1: Summary of fluid samples taken from Fernie Memorial Arena by WorkSafeBC (via RAM Mechanical)

FLUID ANALYSIS REPORTS				TSBC	
No.	DATE SAMPLED	SAMPLE ORIGIN	TEST RESULT	SYSTEM	Ammonia concentration as ppm
1	20-Oct-2017	1-curling chiller oil pot	(N) 410,000 mg/L	Ammonia	382,000 ppm
2	20-Oct-2017	"3-filter"	(N) 130,000 mg/L	Curling	113,400 ppm
3	20-Oct-2017	"4-sump"; "Trench"	(N) 2300 mg/L	Mech Room	1925 ppm
4	21-Oct-2017	"Arena filter housing"	Nil	Arena	0 ppm
5	22-Oct-2017	"Arena filter housing"	(N) 170 mg/L	Arena	142 ppm
6	22-Oct-2017	"Arena filter housing"	(N) 150 mg/L	Arena	125 ppm
7	23-Oct-2017	"hot tap"	Ammonia 0.54% 5395ppm	Curling	5395 ppm