

## Appendix A

### Monitoring Program Station No. ALT-1

Year: 2014

Name: Water Supply at Raw Water Intake

Licence Daily Water Use (to not exceed) Limit: 185 cubic metres [m<sup>3</sup>].

Results for: All Purpose Water Monitoring

Daily Water Usage Quantity: 406 cubic metres [m<sup>3</sup>].

Annual Water Usage Quantity: 148,034\* cubic metres [m<sup>3</sup>].

Note 1: \*Water Usage Data is monitored and collected daily; however, as of October 22<sup>nd</sup>, 2014, the water intake flow meter was out of service. The Department of National Defence is working to correct this metering outage.

Average Daily Water Usage at CFS Alert - 3BC-ALT1015										
Year [yr]	Month [mo]	Days [day]	Average Daily Intake (Usage) [m3/day]	Maximum Daily Intake [m3/day]	Average Daily Returned [m3/day]	Maximum Daily Return [m3/day]	Average Daily Utilized (Consumed) [m3/day]	Maximum Daily Utilized (Consumed) [m3/day]	Metered [Y/N]	Quantity Utilized [m3]
2014	JAN	31	486	676	376	543	111	163	Y	15,073
2014	FEB	28	484	678	363	522	121	179	Y	13,553
2014	MAR	31	457	493	312	341	145	169	Y	14,170
2014	APR	30	442	533	301	359	141	184	Y	13,258
2014	MAY	31	467	553	322	423	146	180	Y	14,485
2014	JUN	30	453	580	346	452	106	155	Y	13,577
2014	JUL	31	477	531	382	426	95	143	Y	14,782
2014	AUG	31	406	474	310	368	95	130	Y	12,579
2014	SEP	30	407	730	302	598	105	145	Y	12,199
2014	OCT	31	275	454	156	324	119	133	Y*	8,513
2014	NOV	30	262	281	143	187	120	130	Y*	7,863
2014	DEC	31	257	323	142	162	116	145	Y*	7,981
Annual Average [m3/day]:			406	526	288	392	118	155	Total Annual [m3]:	148,034
Observed Minimum [m3/day]:			257	281	142	162	95	130		
Observed Maximum [m3/day]:			486	730	382	598	146	184		

**\*Note#1:** A) Intake flow meter was not in service in the water treatment plant as of 06 October 2014 due to corrosion. B) Spare intake flow meter was installed on 06 October 2014; the location of the intake flow meter changed from the water treatment plant to the lower water pump house. C) Intake and return flow meter values from the lower water pump house were used as of 06 October 2014. D) Values are rounded to nearest whole digit.

Average Daily Water Intake (Usage) from Source: 406 cubic metres [m<sup>3</sup>].

Average Daily Water Return to Source: 288 cubic metres [m<sup>3</sup>].

Average Daily Water Utilized (Consumed): 118 cubic metres [m<sup>3</sup>].

As the usage for 2014 exceed the Licence Daily Water Use Limit, DND is submitting, at the same time as this Annual Report submission, an renewal and amendment application to the NWB to increase the usage quantity limits at CFS Alert for the next water licence based on the observed maximum daily intake value.