

Table 3 - Summary of Sump Water Analytical Results
Cambridge Bay Airport, Cambridge Bay, NU

Parameter	Sample ID Collection Date Laboratory Job # Laboratory Report Date	Standard Effluent Quality Limits of Licence	Units	Sump Water 12-Aug-14 B470859 18-Aug-14	Sump Water 2 27-Aug-14 B476492 9-Sep-14
pH		nv	pH	8.23	8.37
Oil & Grease		5	mg/L	<2.0	<2.0
<i>Volatile Organic Compounds</i>					
Benzene		370	ug/L	<0.40	<0.40
Toluene		2	ug/L	<0.40	1.5
Ethylbenzene		90	ug/L	<0.40	0.58
Total Xylenes		nv	ug/L	<0.8	3.3
<i>Petroleum Hydrocarbons F1</i>					
F1 (C6 to C10)		9.9	mg/L	<0.1	<0.1
F1 (C6 to C10 minus BTEX)		nv	mg/L	<0.1	<0.1
<i>Metals</i>					
Dissolved Aluminum (Al)		3.1	mg/L	0.0053	<0.040
Dissolved Antimony (Sb)		nv	mg/L	<0.00060	<0.00060
Dissolved Arsenic (As)		nv	mg/L	0.00091	0.002
Dissolved Barium (Ba)		nv	mg/L	0.057	0.061
Dissolved Beryllium (Be)		nv	mg/L	<0.0010	<0.0010
Dissolved Boron (B)		nv	mg/L	0.51	0.56
Dissolved Cadmium (Cd)		nv	mg/L	<0.000020	<0.000020
Dissolved Calcium (Ca)		nv	mg/L	170	200
Dissolved Chromium (Cr)		nv	mg/L	<0.0010	<0.010
Dissolved Cobalt (Co)		nv	mg/L	0.001	0.00086
Dissolved Copper (Cu)		nv	mg/L	0.0039	0.0047
Dissolved Iron (Fe)		nv	mg/L	<0.060	<0.060
Dissolved Lead (Pb)		0.001	mg/L	<0.00020	<0.00020
Dissolved Lithium (Li)		nv	mg/L	0.029	0.029
Dissolved Magnesium (Mg)		nv	mg/L	91	100
Dissolved Manganese (Mn)		nv	mg/L	0.0082	0.018
Dissolved Molybdenum (Mo)		nv	mg/L	0.011	0.012
Dissolved Nickel (Ni)		nv	mg/L	0.0035	0.0037
Dissolved Phosphorus (P)		nv	mg/L	<0.10	<0.10
Dissolved Potassium (K)		nv	mg/L	20	21
Dissolved Selenium (Se)		nv	mg/L	0.00038	0.00038
Dissolved Silicon (Si)		nv	mg/L	1.4	1.1
Dissolved Silver (Ag)		nv	mg/L	<0.00010	<0.00010
Dissolved Sodium (Na)		nv	mg/L	84	81
Dissolved Strontium (Sr)		nv	mg/L	0.45	0.5
Dissolved Sulphur (S)		nv	mg/L	190	210
Dissolved Thallium (Tl)		nv	mg/L	<0.00020	<0.00020
Dissolved Tin (Sn)		nv	mg/L	<0.0010	<0.0010
Dissolved Titanium (Ti)		nv	mg/L	<0.0010	<0.0010
Dissolved Uranium (U)		nv	mg/L	0.02	0.023
Dissolved Vanadium (V)		nv	mg/L	<0.0010	<0.0010
Dissolved Zinc (Zn)		0.5	mg/L	<0.0030	<0.0030

Notes:

< - not detectable, less than laboratory instrument detection limit

nv - no standard exists

Bold - value exceeds Licence Guideline (standard 2)

Standard - Effluent Quality Limits of Licence, Part D, Item 4, 2012