

Bijaya Adhikari

From: Lloyd Gruben <Lloyd_Gruben@gov.nt.ca>
Sent: July 27, 2018 3:01 PM
To: Joshua Clark; Bijaya Adhikari
Cc: smcintyre@matrix-solutions.com
Subject: RE: Aklavik Water Treatment Results - July 17, 2018

I just went through the water license, You meet or beat the criteria so with this email you have approval. Approval letter will follow

Lloyd Gruben

From: Joshua Clark [mailto:jclark@ntpc.com]
Sent: Friday, July 27, 2018 2:42 PM
To: Lloyd Gruben; Bijaya Adhikari (adhikarib@inuvwb.ca)
Cc: smcintyre@matrix-solutions.com
Subject: Aklavik Water Treatment Results - July 17, 2018

Good afternoon Lloyd and Bijaya,

Please see the attached analytics for our water treatment system. All concentrations are below release criteria. Can you please reply with approval to discharge the treated water?

Thanks,

Joshua Clark
Environmental Analyst
Northwest Territories Power Corporation
4 Capital Drive
Hay River NT, X0E 1G2
Tel: 867-874-5248
Fax: 1-888-371-9433
jclark@ntpc.com

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TABLE 3

Water Quality Results - Water Characterization

Northwest Territories Power Corporation
Aklavik, N.W.T.

Sample Point Sample Date MSI Sample Number		Holding Tank 17-Jul-18 21784180717001	Site Specific Water Release Criteria*
General and Inorganic Parameters			
pH		8.02	6 to 9
Lab EC	µS/cm	845	NS
Ca	mg/L	125	NS
Mg	mg/L	35.7	NS
Na	mg/L	7.9	NS
K	mg/L	3.7	NS
Cl	mg/L	4	NS
SO ₄	mg/L	323	NS
F	mg/L	<0.05	NS
NO ₂ -N	mg/L	<0.02	NS
NO ₃ -N	mg/L	<0.02	NS
NO ₂ +NO ₃ -N	mg/L	<0.02	NS
T-Alkalinity	mg/L	130	NS
HCO ₃	mg/L	159	NS
Hardness	mg/L	459	NS
TDS	mg/L	577	NS
TSS	mg/L	4	15
Total Metals			
Cd	mg/L	<0.000016	NS
Cr	mg/L	<0.001	NS
Cu	mg/L	0.003	NS
Fe	mg/L	2	NS
Pb	mg/L	0.0009	0.007 ^H
Hg	mg/L	---	NS
Mo	mg/L	0.002	NS
Ni	mg/L	<0.003	NS
Zn	mg/L	0.25	NS
Petroleum Hydrocarbons			
Benzene	mg/L	<0.0005	0.37
Toluene	mg/L	<0.0003	0.002
Ethylbenzene	mg/L	<0.0005	0.09
Xylenes	mg/L	<0.0005	0.03
Total Petroleum Hydrocarbons	mg/L	0.6	5
Oil & Grease	mg/L	<0.2	5
Polycyclic Aromatic Hydrocarbons			
Benzo[a]pyrene	µg/L	<0.007	0.015

Notes:

- NS - not specified
- - not analyzed
- ^H - dependent on hardness value
- [†] - laboratory visual determination
- * - *Water Licence N3L8-1838* (Inuvialuit Water)
- Italics** - indicates values do not meet applicable guideline