From:	Nunatta Environmental
To:	Sean Joseph; Phyllis Beaulieu
Subject:	: RE: Nunatta Environmental NWB4 NUN 0511
Date:	Wednesday, October 24, 2012 2:47:22 PM
Attachments:	#12-352 - NUN-1 Water.pdf

Hi Sean

I asked my Lab for an update on what the costs will be for the testing we need to do for the new license and it has increased from $131.20 price to $344.40. See attached PDF file from Paracel Labs Ottawa.
I send out a lot of samples and this is going to drive up the cost of water disposal in Iqaluit to the point no one will bring water here but will choose to discard it in the night as they have in the past.
If the water is coming from the same source eg: cell number 4 and it is just a repeated test. (first tank is pumped out and second tank is ready) can I forgo all the extra testing as it should be just repeat values and just do the B-tex and F1-F4. (providing no additional contamination has been added to cell #4)
Is there a way to put this into the new license so I am not accused of doing wrong.
I was unable to reach Robert Eno this afternoon to discuss Nunavut discharge values with him and to have him answer a couple questions for me.
I think I am OK with most of the Values you have set forth except I would like you to note we have high copper values in local water (turns shower green)
and the Toluene value I feel is too low to reach without huge costs.
I see in the CCME standards for Marine it is listed at 215ug/L
Livestock it is listed 24ug/L
Human consumption 24ug/L
Therefore I feel the number of 2ug/L is too low for us to achieve and at a cost which does not make for good environmental sense when the costs of shipping carbon up here, the amount of fuel burned, the waste oil from the pump outweigh the Toluene value of 2ug/L, while local drinking water is 24ug/L

It takes around 60 hours of continuous filtering to clean up 40,000 L of water which has passed every test requirement except Toluene.
below is an estimate of the time and costs associated with lowering Toluene from 16ug/L to 2ug/L.
Costs are as follows: 50-60 litres of gasoline, 2 changes of activated carbon 400 pounds each(800 pounds), oil changes on pump every 20-30 hours, staff required to come back to work in evening and weekends to keep pump full of fuel, and disposal of carbon when it has become impacted. And the addition 1 or 2 retests required to get it correct.
This carbon would still be good to remove TPH from water as it has no contamination except from Toluene. It is a great waste to have to dump this out and replace it when there is no evidence of contamination except for Toluene.

In a nut shell can we move the Toluene standard up from 2ug/L to drinking water standards(24ug/L) and can we useF1-F4 and Btex on repeat tank waters instead of the large expense of doing all the additional testing over and over if the source water has not changed.

Thank You

JIM

Hi Jim,

Here is the quote to cover all of the additional parameters that you are looking for. Unfortunately, I can't change the limits that you have to compare to, but I can meet all of the limits that are in the table below.

I hope this helps. Let me know if you have any questions or need anything else.

Dale Robertson
Lab Director

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-----Original Message-----
From: Nunatta Environmental [mailto:nunatta@northwestel.net]
Sent: Wednesday, October 24, 2012 2:17 PM
To: Mark Foto; Dale Robertson; Mary Jane Cunningham
Subject: Fwd: RE: Nunatta Environmental NWB4 NUN 0511

Hi Folks

I have just been informed of additional info required for my water license and it will include the following.
In the past we have just done B-tex and F1-F4 I need to know how much more cost will be per sample.\ I have today to argue these and beg for a change in Values eg: Toluene at 2 is almost impossible to achieve, especially when drinking water standards in Canada is 24. It takes me 60 hours of filtering and almost
$1,100 worth of activated carbon to get the level down to 2 from 16.
So I am going to ask for drinking water standards on this one for sure.

Thank you for your time on this

JIM

Hi Jim,

As a follow-up to our conversation today, please see the list of parameters that may be applied to NUN-1. We cannot promise you that any of the values will be changed; however, please provide some feedback at your earliest convenience.

Regards,
Sean

Parameter	Maximum Allowable Concentration (µg/L)
pH	6 to 9 (pH units)
Oil and Grease	5000
Arsenic (total)	100
Cadmium (dissolved)	10

Chromium (dissolved) 100
Cobalt (dissolved) 50
Copper (dissolved) 200
Lead (dissolved) 50
Mercury (total) 0.6
Nickel (dissolved) 200
PCB (total) 1000
Zinc (total) 500
Benzene 370
Toluene 2
Ethyl-benzene 90

-----Original Message-----
From: Nunatta Environmental [mailto:nunatta@northwestel.net]
Sent: October-15-12 2:24 PM
To: Sean Joseph; Phyllis Beaulieu
Subject: Nunatta Environmental NWB4 NUN 0511

Good Afternoon Shawn/Phyllis. NWB

I have the information you requested about the locations of the wells and the designation assigned to each at time of installation and what is current as of October 2012.
To make it easy to follow I have done 4 maps One shows the original 6 wells installed in 2004 Map # SPG.1 Another showing wells installed in 2008 SPG.2 A third one showing the wells I installed this year 2012 as indicated in our application for new water licience. Map SPG.3 Final map is showing the monitoring wells in service as of October 2012 . these are found on map SPG.4 If there is more data you need feel free to contact me and I will get it looked after ASAP.
Winter has set in here and I have some time to work at the desk again.
Sorry for the delay in returning this info to you.
If you need pictures of the new wells during installation I can forward this to you via a website at Google called Picassa.
Thank you

Jim Wilson

VP of Operations
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Iqaluit, NU
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