

From: [Miki Ehrlich](#)
To: [Permits](#)
Subject: FW: Sewage Discharge Rate in Fort Providence
Date: Thursday, June 16, 2016 11:42:15 AM

Please post to MV2016L3-0001 – Renewal app – App and related docs
Ft Providence – Clarification on sewage treatment discharge information – Jun16-16

From: Peters, Ann [<mailto:apeters@dillon.ca>]
Sent: June 16, 2016 10:31 AM
To: Heather Scott <heather.scott@mvlwb.com>
Cc: 152261 <152261@dillon.ca>
Subject: Re: Sewage Discharge Rate in Fort Providence

Hi again

yes, 120,000 l/hour is the flow rate of the pump.

I had both Jenn Spencer and Crystal Sabel check the calculations.

thanks!

Ann



Ann Peters
Associate
Dillon Consulting Limited
4920 - 47th Street Suite 303
Yellowknife, Northwest Territories, X1A 2P1
T - 867.920.4555 ext. 4108
F - 867.873.3328
APeters@dillon.ca
www.dillon.ca

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On Thu, Jun 16, 2016 at 9:56 AM, Heather Scott <heather.scott@mvlwb.com> wrote:

Thanks.

So, is 120,000L/hour the flow rate of the pump? It still seems rather high if it takes 20 days to pump?

No need to update the application.

Cheers and have a great day-
Heather

Heather Scott, [M.A.Sc.](#), P.Chem.

Technical Advisor

Mackenzie Valley Land and Water Board

7th Floor, 4922 48th St, PO Box 2130 | Yellowknife, NT | X1A 2P6

ph [867.766.7463](tel:867.766.7463) | fax [867.873.6610](tel:867.873.6610)

heather.scott@mvlwb.com | www.mvlwb.com

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From: Peters, Ann [mailto:apeters@dillon.ca]
Sent: June 16, 2016 9:47 AM
To: Heather Scott <heather.scott@mvlwb.com>
Cc: 152261 <152261@dillon.ca>
Subject: Re: Sewage Discharge Rate in Fort Providence

HI again -

- typo - discharge rate should read 120,000 l/hour (should I send in a correction - or is this email adequate?)

cells 4 and 5 are not typically at capacity (full) given the amount of sewage going in annually (between 27,000 and 30,000 m³)

the total of (18,958 + 27,370) m³ (cell 4 + cell 5) would be an absolute maximum that could ever be discharged and population projections are showing stable or declining
ann

Ann Peters
Associate
Dillon Consulting Limited
4920 - 47th Street Suite 303
Yellowknife, Northwest Territories, X1A 2P1
T - [867.920.4555](tel:867.920.4555) ext. 4108
F - [867.873.3328](tel:867.873.3328)
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On Thu, Jun 16, 2016 at 8:49 AM, Heather Scott <heather.scott@mvlwb.com> wrote:

Thanks Ann.

1 - So to be conservative, I would assume that a total of (18,958 + 27,370) m³ (cell 4 + cell 5) might be discharged over a 20 day period?

2 - Would it be safe to assume that the discharge rate of 120,000 L/sec quoted in the application is incorrect?

3 – Is there a pump used for discharge? If so, what is it rated to pump?

Thanks-
Heather

Heather Scott, [M.A.Sc.](#), P.Chem.

Technical Advisor

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From: Peters, Ann [mailto:apeters@dillon.ca]

Sent: June 15, 2016 5:50 PM

To: Heather Scott <heather.scott@mvlwb.com>

Cc: Miki Ehrlich <mehrich@mvlwb.com>; Erica Janes <ejanes@mvlwb.com>; 152261 <152261@dillon.ca>

Subject: Re: Sewage Discharge Rate in Fort Providence

Hi Heather

answer to 1 - the amount should approximate the total annual sewage disposal amount which was recorded at 27,000 m³ in the 2014-15 annual report - and typically effluent in cell 5 (total capacity of 18,958 m³) and cell 4 (total capacity of 27,370 m³) would be treated by September of each year.

answer to 2 - length of time to discharge is 20 to 25 days (questionnaire 4.10)

Ann

Ann Peters
Associate
Dillon Consulting Limited
4920 - 47th Street Suite 303
Yellowknife, Northwest Territories, X1A 2P1
T - [867.920.4555](tel:867.920.4555) ext. 4108
F - [867.873.3328](tel:867.873.3328)
APeters@dillon.ca

www.dillon.ca

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On Wed, Jun 15, 2016 at 3:11 PM, Heather Scott <heather.scott@mvlwb.com> wrote:

Hi Ann-

I was wondering if you could verify some of the sewage treatment discharge information for Fort Providence. The water licence application indicates a rate of 120,000L/sec for the discharge of wastewater. Can you confirm:

- 1 – The approximate volume of sewage discharged each year; and
- 2 – The approximate length of time (min and max) that it takes to discharge the sewage.

This will help Board staff look at the effluent quality criteria and flow of sewage with respect to the water quality and flow of the Mackenzie River, where the discharged sewage ultimately flows to.

Thanks very much-
Heather

Heather Scott, [M.A.Sc.](https://www.dillon.ca), P.Chem.

Technical Advisor

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