

Mackenzie Valley Land and Water Board
7th Floor - 4910 50th Avenue
P.O. Box 2130
YELLOWKNIFE NT X1A 2P6
Phone (867) 669-0506
FAX (867) 873-6610

FILE NUMBER: MV2009L3-0007

Date: June 30, 2015
To: Distribution List
Organization: Various
Fax Number: Various
Copied To: _____
From: Elaine for Miki Ehrlich, Regulatory Officer

Number of pages including cover 10

Remarks:

Request for review and comment on the Proposed Revisions to the Surveillance Network Program submitted by the City of Yellowknife

** Proposed revisions attached

- Enclosures
- As requested
- For your information
- For your comment
- For your approval

Delivered by **Date**

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 Fax Jun. 30, 15
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Sent by _____

MVLWB Registry

From: ORS Administrator <lwbors@yk.com>
Sent: Tuesday, June 30, 2015 12:00 PM
To: Undisclosed Recipients
Cc: mehrlich@mvlwb.com; tyree@mvlwb.com; walexander@yellowknife.ca; mauge@yellowknife.ca
Subject: Request for Comments on MVLWB Item - City of Yellowknife - Proposed Revisions to the Surveillance Network Program (MV2009L3-0007)

The Mackenzie Valley Land and Water Board invites reviewers to submit comments on **City of Yellowknife - Proposed Revisions to the Surveillance Network Program (MV2009L3-0007)** via the LWB Online Review System.

- To access **City of Yellowknife - Proposed Revisions to the Surveillance Network Program (MV2009L3-0007)**, please follow this link: [LWB Online Review System](#).
- The deadline for reviewers to submit comments is Jul 21 at 9:59pm Mountain Time.
- The deadline for the proponent to submit responses is Jul 28 at 9:59pm Mountain Time.
- The User Manual for the LWB Online Review System is available [here](#).

This request is being distributed by email only. If you require materials to be mailed or faxed, or require other assistance, please contact the Mackenzie Valley Land and Water Board.

- Miki Ehrlich: 867-766-7469 mehrlich@mvlwb.com
- Tyree Mullaney: 867-766-7464 tyree@mvlwb.com

Please sign in to update your notification preferences and note that this is a system generated email, so any feedback should be directed to permits@mvlwb.com.

MVLWB Registry

From: Miki <mehrlich@mvlwb.com>
Sent: Wednesday, January 7, 2015 2:53 PM
To: permits@mvlwb.com
Subject: FW: SNP Station Additions
Attachments: DOCS-#403951-v1-
LETTER_TO_MVLWB_REQUESTING_CHANGE_TO_SNP_FOR_THE_ADDITION_OF_2
_MORE_SAMPLING_POINTS_-_NOVEMBER_2014.pdf

Please post email and attachment to MV2009L3-0007 – Permit-Lic-Other Issuance – SNP Program
Title: City of Yk - SNP Revision Proposal – Dec2-14

From: Michael Auge [mailto:mauge@yellowknife.ca]
Sent: December 2, 2014 11:52 AM
To: Miki Ehrlich
Cc: Alison Ryan
Subject: SNP Station Additions

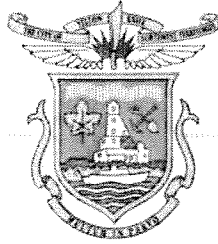
Hi Miki,

Please see the attached letter from the City of Yellowknife in response to the recommendations from the Surface Metals Study concerning the addition of new SNP sampling locations.

If there are any questions or concerns, feel free to contact me.

Thanks,

Mike Auge
Municipal Works Engineer
Public Works & Engineering
City of Yellowknife
T: 867.920.5639
F: 867.920.5649
yellowknife.ca



CITY OF YELLOWKNIFE

November 24, 2014

Mackenzie Valley Land and Water Board
Box 2130, 7th Floor - 4910 50th Avenue
Yellowknife, NT X1A 2P6

Attention: Miki Ehrlich, Regulatory Officer

**RE: Water Licence No. MV2009L3-0007
Revision of Surveillance Network Program (SNP Proposal)**

Dear Ms. Ehrlich,

This letter is being submitted in accordance with the City of Yellowknife's Water Licence as a request to revise the Surveillance Network Program (SNP) by adding two additional sample locations. On March 20, 2014 the City of Yellowknife submitted to the MVLWB a Study of the Impact of the Solid Waste Facility on Surface Water Metal Concentrations (SWF Metals Study) in accordance with the requirements of our Water Licence. This study recommended that two additional SNP sampling points be added to the City's SNP with sampling to begin in 2015. On July 17, 2014 the MVLWB approved the SWF Metals Study with a request that the "City work with the Inspector to determine suitable locations for two new SNP sites as proposed in the study". The original deadline for the proposal was September 30, 2014 but after a request for an extension from the City, this deadline was extended to November 30, 2014 (see letter from MVLWB dated August 28, 2014).

On October 31, 2014 Carl Grabke (acting SWF Superintendent, City of Yellowknife), Nahum Lee (Water Resource Officer, ENR), and myself investigated potential locations for the sampling points. As a result of this investigation, two additional sampling locations were selected as shown on the attached maps and as described below.

SNP Station 0032-19

- Located at the south end of Fault Lake where the run-off enters the lake.
- Approximate coordinates – Latitude: N 62°28'38.6", Longitude: W 114°21'52.5".
- Rationale: To determine if run-off from the SWF is affecting the chemistry parameters of Fault Lake.

SNP Station 0032-20

- Located at Vicinity Lake #3 within the boundaries of the SWF.
- Approximate coordinates – Latitude: N 62°28'28.5" Longitude: W 114°23'11.4".
- Rationale: To help determine the effectiveness of the remediation of the former landfill cell.

The sampling frequency and parameters for both of these new SNP sites will be the same as it currently is for SNP points 0032-13 through 0032-16. The points will be sampled twice each year during the months of June and September and will be analyzed for the parameters listed in B.3 of the SNP.

Sincerely,



Mike Auge
Municipal Works Engineer, Public Works and Engineering



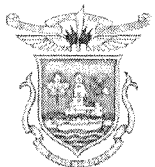


PROPOSED 0032-20

PROPOSED 0032-19

N.W.T. HIGHWAY NO. 4

N.W.T. HIGHWAY NO. 3



City of Yellowknife

PROJECT:
SNP Proposal

TITLE:
Proposed Additional SNP Sites

CREATED BY:
MA

FILE/DOCS#:

DATE:
24-Nov-2014

SCALE:
1:6,971



From: [Nahum Lee](#)
To: mehrllich@nwlwb.com
Cc: mauge@yellowknife.ca; phouweling@yellowknife.ca; [Robert Jenkins](#); [Fred J Mandeville](#); [Heather E. Beck](#); [Nathen Richea](#); [Mike Martin](#)
Subject: Inspector request for addition to City of Yellowknife SNP
Date: Wednesday, June 10, 2015 8:56:12 AM
Attachments: [PhosphorusAdditiontoMV2009L3-0007SNP09-Jun-15.pdf](#)

Hello Miki,

Please find attached, a letter requesting the addition of parameters to the City of Yellowknife SNP. As stated in the letter, if there are any questions or if board staff wish further discussion regarding this request, please contact Heather Beck at 867-873-7476 or myself at the numbers below. Take care and have a good day.

Sincerely,

Nahum Lee
Water Resource Officer
Environment and Natural Resources – North Slave Region
Government of the Northwest Territories
Box 2668
Yellowknife, NT X1A 2P9

Phone: 867-873-7443
Mobile: 867-444-8491
nahum_lee@gov.nt.ca



North Slave Region
P.O. Box 2668
Yellowknife, NT X1A 2P9

Telephone: 867 873-7443
Fax: 867 873-6230

June 9, 2015

Mackenzie Valley Land and Water Board
7th Floor, 4922 48th Street
PO Box 2130
Yellowknife, NT X1A 2P6

Attn: Miki Ehrlich

RE: Addition of nutrient parameters to MV2009L3-0007 Surveillance Network Program

Dear Ms. Ehrlich,

The undersigned Inspector has been reviewing past data for the City of Yellowknife SNP and has noted the lack of some key parameters in the SNP Stations associated with the surface runoff from the Yellowknife Solid Waste Disposal Facility (YSWDF).

Phosphorus and phosphates are likely to be high in landfill runoff and may have significant impacts associated with nutrient loading in downstream watercourses. The SNP stations 0032-13A, 0032-14, 0032-15A, 0032-16, and two new stations 0032-19 and 0032-20 (names yet to be made official) are in place to monitor surface water quality as it leaves the YSWDF and reports downstream. The current SNP does not require analysis for phosphorus, phosphates and other important nutrient parameters.

This request is directly related to changes that have been noted in the aquatic ecosystem in Jackfish Lake over the last two seasons. North Slave Regional Water Resource Officers have confirmed algal blooms this spring as well as last spring and water quality samples collected in May this year, indicate that phosphorus levels in Jackfish Lake are 213µg/L which, according to the CCME factsheet for Phosphorus is indicative of a hyper-eutrophic aquatic ecosystem. This combined with past water quality results that indicate a relatively high phosphorus concentration in runoff destined for Jackfish Lake suggest that the requested addition to the City of Yellowknife Licence MV2009L3-0007 is justified.

During informal discussions with City of Yellowknife representatives in May 2015, the Inspector informed the licensee that this request would be forthcoming. Please consider this letter, a formal request from Environment and Natural Resources, North Slave Regional Water Resource Officers for the immediate addition of Total Phosphorus, Ortho-Phosphorus, and Dissolved Organic Carbon to the parameters required under the above mentioned SNP Stations.

If the MVLWB has any questions or concerns, or wishes to discuss the request in greater detail, please contact Heather Beck at 867.873.7476 or myself at 867.873.7443. Take care and have a good day.

Sincerely,

A handwritten signature in black ink, appearing to read 'Nahum Lee', with a long horizontal flourish extending to the right.

Nahum Lee
Water Resource Officer
North Slave Regional Office
Environment and Natural Resources

Cc: Fred Mandeville – Regional Superintendent – North Slave Region – ENR
Peter Houweling – Superintendent – YK Solid Waste Facility
Mike Auge – Department of Public Works – City of Yellowknife

June 30, 2015

File Number: MV2009L3-0007

AKAITCHO REGION DISTRIBUTION LIST

Organization	Contact Name	Contact Position/Title	Email/Fax
Fort Resolution Métis Council	Trudy King		(867)394-3322; Fieldworker.frmc53@northwestel.net;
Hay River Metis Council	Wally Shuman	President	(867)874-4472; hrmc@northwestel.net;
[NWT Metis Nation - Not for Canadian Zinc Files]	Tim Heron	NWTMN IMA Coordinator	(867)872-3586; rcc.nwtmn@northwestel.net;

Broadcast Report

Date/Time	06-30-2015	01:40:36 p.m.	Transmit Header Text	
Local ID 1	873-6610		Local Name 1	MVLWB

Abbreviations:

HS: Host send	PL: Polled local	MP: Mailbox print	CP: Completed	TS: Terminated by system
HR: Host receive	PR: Polled remote	RP: Report	FA: Fail	G3: Group 3
WS: Waiting send	MS: Mailbox save	FF: Fax Forward	TU: Terminated by user	EC: Error Correct