



# Sahtu Land and Water Board

## Staff Report

<b>Division:</b> Water Program	<b>Report No.</b> 4
<b>Date Prepared:</b> October 15, 2013	<b>File No.</b> S12L3-006
<b>Meeting Date:</b> October 24, 2013	
<b>Subject:</b> Deline Revised SNP for New Sewage Lagoon and Landfill	

### 1. Purpose/Report Summary

To inform the Board about revisions to the Surveillance Network Program (SNP) for the new sewage lagoon and landfill.

### 2. Background

#### 2.1 Project Overview

Deline's Water Licence was amended on December 5, 2012 to allow for streamlined revisions to the SNP in anticipation of the commissioning of a new sewage lagoon and landfill.

Construction of the new sewage lagoon in Deline was completed in October 2013. The site is ready to begin receiving waste, and only minor works still need to be completed, including fencing. The new landfill is nearing completion and an exact date that it will begin receiving waste will be sent as soon as the Community knows. The O&M manual for the new sewage lagoon is being prepared and will be submitted with as-built drawings within the 90 day period set out in the Water Licence. With the site construction and design, Stantec (consultant for the Charter Community of Deline) has provided two discharge SNP locations for the new sewage lagoon.

SNP: 0555-4 is located at the point where sewage effluent is discharged to the adjacent wetland. SNP: 0555-5 is located approximately 2,000 m downstream of the discharge point. Both sites are proposed to monitor suspended solids, BOD<sub>5</sub>, and faecal coliform.

Though Stantec does not have the contract for the new landfill they did provide two surface flow points for monitoring locations at that site.

Parameters and effluent criteria to be assessed at both sites were determined by pre-existing municipal Water Licence requirements and discussions with Environment Canada.

#### 2.2 Process Requirements

Part B: 2 and 3 of Water Licence S12L3-006 are the conditions that allow the Board to revise the SNP.

Part B: 2 reads;

The Licensee shall comply with the Surveillance Network Program annexed to this Licence, and any amendment to the said Surveillance Network Program as may be made from time to time, pursuant to the conditions of this Licence.

Part B: 3 reads;

The Surveillance Network Program and compliance dates specified in the Licence may be modified at the discretion of the Sahtu Land and Water Board.

### **3. Conclusion**

The SNP should be revised to reflect the new facilities for waste disposal in Deline.

### **4. Recommendation**

It is recommended that the SLWB revise Deline's SNP as presented by staff.

### **5. Reference Material Attached**

- 5.1 Correspondence with Stantec
- 5.2 Revised SNP, S12L3-006

Respectfully submitted,



Tony Morris  
Regulatory Specialist

Executive Director Comments:

I agree with the recommendation.



Paul Dixon  
Executive Director

## Tony Morris

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**From:** Foster, Arlen [Arlen.Foster@stantec.com]  
**Sent:** October-04-13 9:23 AM  
**To:** 'Tony Morris (tony.morris@slwb.com)'  
**Cc:** Roxy Ann Tutcho (Ccd\_Finance@gov.deline.ca); Elliott, Jeff  
**Subject:** RE: 144901662 Deline Sewage Lagoon

Hi Tony,

We do not actually have a contract with the Community of Deline in regards to the landfill that is being constructed. However we are travelling to Deline next week and will take a look at the progress of the landfill. Additionally we will check to see if the retention area has been constructed. If so, we will pick up a GPS point for an appropriate location of an SNP sampling point for the landfill. I anticipate that the Community will be providing the required as-built drawings for the landfill once construction is complete.

Regards,

Arlen Foster, E.I.T.  
Civil / Environmental Engineering

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Design with community in mind

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Hey Arlen,

Do you have an exact location at the new landfill where surface water tends to flow to or was a retention area ever established to do sampling and analysis during spring melt? The O&M manual doesn't really have anything about exact location. Is the new landfill up and running yet? If so, we need the as-built drawings of that. An updated O&M manual for that too would be great, but more importantly now is determining the SNP for surface runoff.

Let me know what you have and what is possible.

Tony Morris

Regulatory Specialist

Sahtu Land and Water Board

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## Tony Morris

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**From:** Foster, Arlen [Arlen.Foster@stantec.com]  
**Sent:** October-11-13 1:59 PM  
**To:** 'Tony Morris (tony.morris@slwb.com)'  
**Cc:** Roxy Ann Tutcho (Ccd\_Finance@gov.deline.ca)  
**Subject:** Deline Landfill - Sampling Locations

**Categories:** Red Category

Hi Tony,

Even though we don't have a contract with the landfill development, we were on site and took a look at the design and construction. The two following points are the locations that the Community should be using as their sampling locations once the site is operational. All surface flow would be directed through these two locations.

I will have more info and photos to you on the progress to date late next week.

### West Drainage

#### UTM:

N: 7234154.265<<tel:7234154.265>>

E: 479833.030<<tel:479833.030>>

Z: 236.911

#### Lat/Long:

Lat: 65° 13' 47.913" N

Long: 123° 25' 52.946"

Elev: 224.75

### East Drainage

#### UTM:

N: 7234075.995<<tel:7234075.995>>

E: 479998.670<<tel:479998.670>>

Z: 237.473

#### Lat/Long:

