



Canada

# NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR		REPORT TIME		<input type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
	OCCURRENCE DATE: MONTH – DAY – YEAR		OCCURRENCE TIME			
C	LAND USE PERMIT NUMBER (IF APPLICABLE)			WATER LICENCE NUMBER (IF APPLICABLE)		
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION				REGION <input type="checkbox"/> NWT <input type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
E	LATITUDE			LONGITUDE		
	DEGREES	MINUTES	SECONDS	DEGREES	MINUTES	SECONDS
F	RESPONSIBLE PARTY OR VESSEL NAME		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION			
	ANY CONTRACTOR INVOLVED		CONTRACTOR ADDRESS OR OFFICE LOCATION			
H	PRODUCT SPILLED		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES		U.N. NUMBER	
	SECOND PRODUCT SPILLED (IF APPLICABLE)		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES		U.N. NUMBER	
I	SPILL SOURCE		SPILL CAUSE		AREA OF CONTAMINATION IN SQUARE METRES	
	FACTORS AFFECTING SPILL OR RECOVERY		DESCRIBE ANY ASSISTANCE REQUIRED		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT	
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS					
L	REPORTED TO SPILL LINE BY	POSITION	EMPLOYER	LOCATION CALLING FROM	TELEPHONE	
	ANY ALTERNATE CONTACT	POSITION	EMPLOYER	ALTERNATE CONTACT LOCATION	ALTERNATE TELEPHONE	

## REPORT LINE USE ONLY

N	RECEIVED AT SPILL LINE BY	POSITION	EMPLOYER	LOCATION CALLED	REPORT LINE NUMBER
		STATION OPERATOR		YELLOWKNIFE, NT	(867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					

# Kugaaruk Sewage Lagoon Spills Report

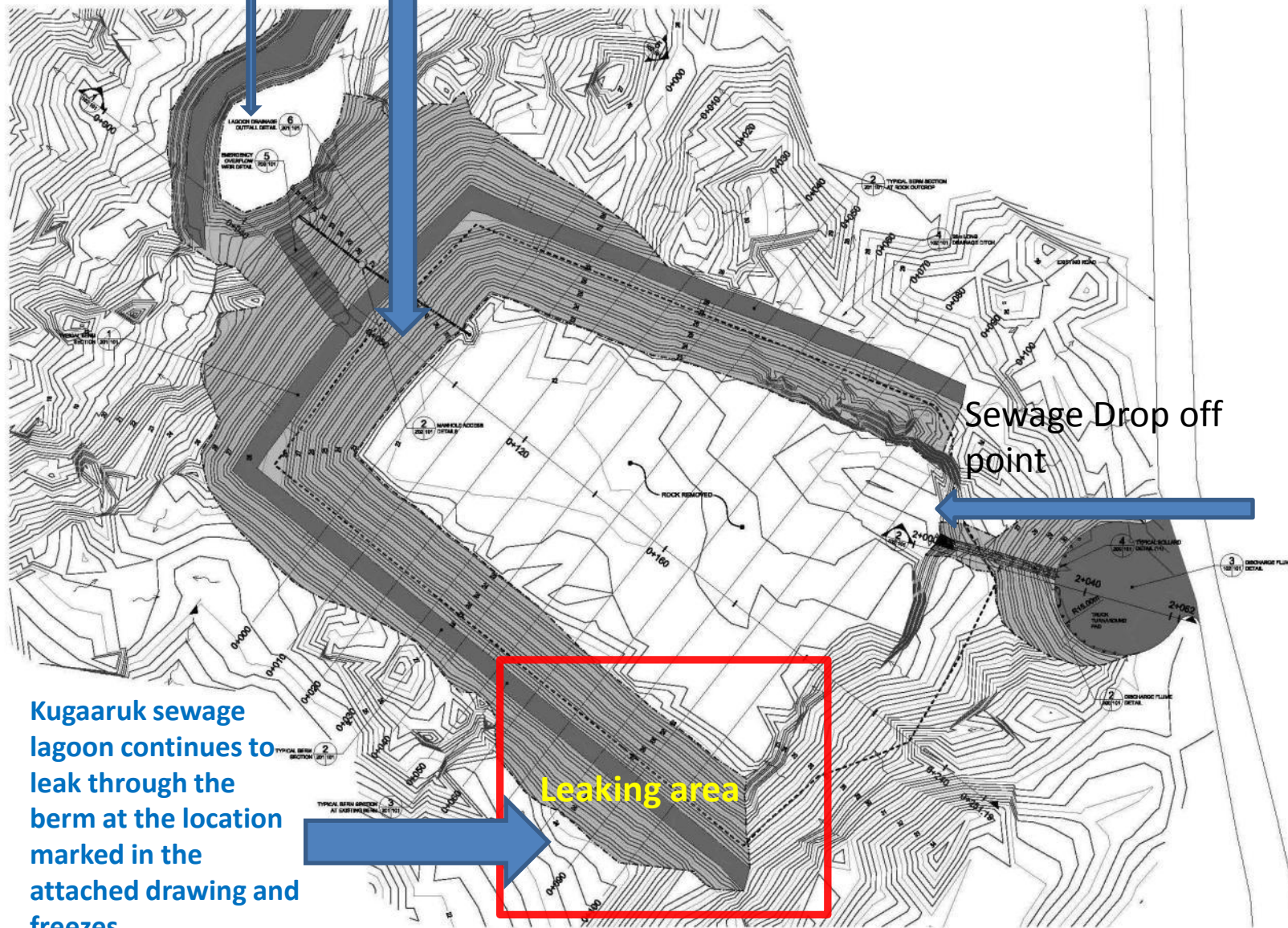
## March 26, 2015

- The lagoon leaks observed at the location of newly built gravel berm with the existing bedrock sloped section (drawing attached ).
- Substantial amount of sewage exposed outside of the main cell and freeze up there for harsh cold, but smells out.
- Loose crack line in between the frozen sewage heap signs continuous leaking from the main cell towards outside through the berm.
- The leak only observed within an area at the section of new gravel berm with existing bed rock. It is not confirm for any leaking at any other section until an inspection which can be possible when raw sewage starts melting in summer time.

Site visit by: Shah Alam,  
Municipal Planning Engineer

Secondary cell

Decanting location



Kugaaruk sewage lagoon continues to leak through the berm at the location marked in the attached drawing and freezes.

Leaking area

Sewage Drop off point

# LEGEND

## PLAN:

DESIGN:  
MINOR CONTOUR (0.2m)  
MAJOR CONTOUR (1.0m)

BERM WALLS  
BERM TOP  
SIDE OF SLOPE  
LAGOON CONTAINMENT  
DRAINAGE DIRECTION

## NOTES

DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE

DRAWING BY SET  
WHERE DETAIL IS SHOWN

DETAIL REFERENCED  
(THIS DRAWING SHEET)

## RECORD DRAWING

## DRAWING REDUCED NOT TO SCALE

THIS RECORD DOCUMENT HAS BEEN PREPARED BASED ON THE INFORMATION FURNISHED BY THE CLIENT. THE ENGINEER HAS CONDUCTED VISUAL INSPECTIONS OF THE RECORD DOCUMENT AND THERE IS NO RESPONSIBILITY FOR THE ACCURACY OF THE RECORD DOCUMENT FOR ANY OTHER ORIGIN SOURCE THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT. THESE RECORDS OF THIS RECORD DOCUMENT ARE ADDED TO DESIGN APPROPRIATE VERIFICATION OF THE RECORD DOCUMENT APPLICABLE FOR ANY PURPOSE.

6	01/07/18	RECORD DRAWING	GS
5	07/16/17	REMOVED FOR HSB APPLICATION	GS
4	01/24/17	REMOVED FOR HSB COMMENTS	GS
3	06/16/16	ISSUED FOR TENDER	GS
2	06/16/16	ISSUED FOR DESIGN REVIEW	GS
1	06/16/16	DESIGN	GS

## REVISIONS

DESIGN: GS DRAWN: TPW CHECKED: GS DATE: JAN 2009

THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLGISTS AND AGROLOGISTS OF THE NUNAVUT TERRITORIES  
PERMIT NUMBER  
P 010  
DILLON CONSULTING LIMITED



PROJECT  
SEWAGE & SOLID WASTE  
FACILITY  
KUGAARUK, NUNAVUT

TITLE  
DESIGN LAGOON SITE PLAN VIEW

DILLON CONSULTING

PROJECT NUMBER: GS-4755-3000  
CLIENT PROJECT NUMBER: NA  
DRAWING NUMBER: 101

1 LAGOON DESIGN  
10/10/17 SCALE 1:800



Kugaaruk sewage lagoon  
continues to leak through the  
berm at the location marked in  
the attached drawing and freezes.



Leaked frozen sewage displays crack line, leaking continues at Kugaaruk Sewage lagoon.

2-3 feet deep crack line

Cracks

A photograph of a frozen sewage lagoon. A deep, dark crack line runs diagonally across the frame, circled in blue. The surrounding ice is white and textured, with some brownish patches visible. A yellow pole is visible on the left side of the image.





Raw sewage leaks outside of the berm and freezes, and creates a crack line

An aerial photograph showing a large, irregularly shaped body of water, likely a lagoon, which is mostly covered in a thick layer of white ice or snow. Dark, irregular patches of brown and black are visible through the white surface, indicating areas where the ice has melted or is thinning, revealing the underlying water or sediment. Several narrow, winding channels of water cut through the frozen areas. The overall scene suggests a cold environment where a liquid substance, in this case, raw sewage, has leaked and frozen on the surface of the water.

Raw sewage inside the main Lagoon cell- remains frozen on top. Liklyhood of more leaking once it starts melting.