August 27, 2015

Executive Director
Inuvialuit Water Board
P.O. 2531
Inuvik, NT, Canada
X0E 0T0

Attention: Executive Director

Subject: Water Licence Application Questionnaire for the Hamlet of Paulatuk

To whom it may concern:

At the request of the Hamlet of Paulatuk, Dillon Consulting Limited (Dillon) has prepared their Water Licence Renewal Application (attached).

As part of the application, detailed scale plan drawings of the sewage treatment system and solid waste disposal area were requested; however, these have not been included within the application. The sewage treatment facility uses a natural lake for disposal; therefore, it is expected that engineered drawings for the facility are not available. Similarly, engineered drawings were not located for the solid waste facility.

Other documentation that has been included as part of the water licence application includes an updated operations and maintenance manual, an abandonment and reclamation plan, and a spill contingency plan for the sewage lagoon and solid waste facilities.

Should you have any questions or concerns, please feel free to contact the undersigned at (867) 920 - 4555 ext. 4110.

Yours sincerely,

Dillon Consulting Limited

Jennifer Spencer-Hazenberg, P.Eng.

Associate

BMP:clw

Dillon File No. 15-1920

/att. (Water licence application and relevant attachments)

- Spr- Hamily



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Dillon Consulting Limited



Water Licence Application Questionnaire for Municipal Undertakings

'To provide for the conservation, development and utilization of waters in a manner that will provide the optimum benefit there from for all Canadians and for the residents of the Inuvialuit Settlement Region in particular.'

October 2014

The purpose of this questionnaire is to solicit supplemental information from an applicant to support his/her application for a water licence (or its renewal). It is anticipated that the completion of this questionnaire will reduce delays arising from the Inuvialuit Water Board having to solicit additional information after an application has already been submitted. This information will also be useful during the pre-screening of your application, which must be undertaken prior to development and approval of a water licence to determine if the project needs to be referred for further environmental assessment.

The applicant should complete the questionnaire to the best of his/her ability, recognizing that some questions may not be relevant to the project under consideration. For questions that do not relate to the operation undertaking, the applicant is requested to indicate "N/A" (Not Applicable).

NOTE: If space is insufficient for any of the responses on this questionnaire, use the back of the sheet or an attachment.

If any questions arise while completing the questionnaire, the applicant may wish to contact the Inuvialuit Water Board at (867) 678-2942.

This questionnaire can be sent with the application for a new licence or the renewal of an existing licence to the following contact information:

Executive Director Inuvialuit Water Board P.O. 2531 Inuvik, NT, Canada X0E 0T0 Email: info@nwtwb.com

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SECTION 1: GENERAL

Jaus				
Applicant: Hamlet of I	Paulatuk			
Hamlet of Paulatuk				
Company, Corporation,	Hamlet, Town)		· - -	
Greg Morash, Superviso	r for the Hamlet o	f Paulatuk		
(Name of contact / Title)		<u> </u>		
Hamlet of Paulatuk Box	98 Paulatuk NT,)	K0E 1N0		
(Mailing address)				
(867) 580-3531		(867) 580-3703	
(Phone #)		Ţ.	Fax #)	
Community Status:	:			
City Villa	age	Town	Camp	
Other Hamlet	· · · · · · · · · · · · · · · · · · ·			-
Population (accord				ne Estimated Growti
According to the most r grow to 361 by 2016 ar Statistics.	recent census resind to 380 by 2021	uits the population. This information	on of Paulatuk was 3 n was obtained by th	41 in 2011, it is projected te NWT Bureau of
Indicate the status	of the munic	ipality's licen	ice on the date	of application:
New Application:	YesX	No		
If yes, please subm	it your Water L	icence Numb	er and the date ti	he licence was issued
Renewal of Water t	icence Numbe	N7L3-1619		
Date of Issuance:				
Has any baseline	data been col	lected for the	main water bo	dies in the area?
Yes	No	_ Unkno	wnx	

If yes, please attach:

- All data gathered on the physical, biological and chemical characteristics at each sampling location;
- A summary or program details indicating sampling locations, description of waste at each location, sampling frequency, and parameters analyzed;
- An outline of Quality Assurance/Quality Control methods being applied to sampling, preservation and analysis within the program.

Has any baseline data collection and evaluation been undertaken with respect to the various biophysical components of the environment potentially affected by the project (e.g., wildlife, soils, air quality) in addition to water related information requested in this questionnaire?

Yes	Х	No	Unknown
		140	CHRICANI

If yes, please attach copies of reports or cite titles, authors and dates (prepared by, title and completion date).

If no, do you plan on doing such studies? If you do plan on doing such studies, please describe the proposals.

Biogenie S.R.D.C. Inc., Soil Treatment at the Paulatuk Landfill following Environmental Remediation at the the Dispenser Cabinet – Progress Report, produced for the Petroleum Products Division of the Government of the Northwest Territories, February 2009.

Government of the Northwest Territories, Department of Public Works and Services, Review of Community Water Management and Water System Infrastructure, Paulatuk, NT, April 2005.

Level 1 Environmental Screening by INAC (1994), on behalf of the NWT Water Board.

Attach detailed maps which show the relative locations of the:

- raw water intake;
- water treatment facilities:
- fuel & chemical storage;
- sewage treatment facilities:
- wastewater treatment area and discharge outlets:
- solid waste disposal areas and drainage patterns;
- hazardous waste disposal area;
- transportation access routes; and
- existing waterbodies/courses and any changes to these water bodies/courses which have or may occur as a result of water use of waste disposal facilities, locations of environmental monitoring sites.

Attach detailed scale plan drawing(s) of the proposed (or present) sewage treatment system. The drawing(s) must be stamped by an engineer registered in NWT and include the following:

- details of pond size and elevation;
- precise details of all retaining structures (dimensions, materials of construction, etc.):
- details of the drainage basin, and existing and proposed drainage modifications;
- details of all decant, siphon mechanisms etc, including sewage treatment facilities;
- details regarding direction and route followed by wastewater flow from the area;
- indications of the distance to nearby major watercourses, and fish bearing waters;
- location and construction of liners:
- leachate and groundwater collection systems; and
- control structures.

Attach detailed scale plan drawings of the proposed (or present) solid waste disposal area. The drawings must include the following:

- precise details of all retaining structures (dimensions, materials of construction, etc.):
- details of the drainage basin, and existing and proposed drainage modifications;
- details regarding direction and route followed by wastewater flow from the area;
- indications of the distance to nearby major watercourses, and fish bearing waters;
- all sources of seepage presently encountered in the vicinity of these areas:
- the volume of each seepage flow (m³/day); and
- the direction of each flow.

Attach the present or proposed contingency plan which will be used for each portion of the waste control system in the event it falls to operate properly.

Attach the present or proposed spill contingency plan which will be employed in case a spill of hazardous materials occurs. Describe courses of action, mitigative methods and equipment available for use.

NOTE: Individual detailed large scale drawings of all facilities (dam, decant system, ditch, dike, water treatment plant, etc) constructed or proposed must be attached. Specific details with regard to the methods of construction, materials used, etc. are required.

SECTION 2: WATER SUPPLY

Volume of water use (m³/day): Approximately 47 m³/day					
Type of source:					
Lake: X River:	Well:	Other:			
Name of raw water source New Water Lake	and alternative, i	fany:			
Usual break-up & freeze-u	p months:				
Break-up: Mid June	Break-up: Mid June Freeze-up: Late October				
Please provide short desc	criptions for the fo	illowing:			
Freshwater intake facility:	is a truck refill station,	there is no storage tan	k, the intake line is		
approximately 50 m long and cor					
Operating capacity of the p	oumps used: A subm	ersible pump (a Myers	64C3225 3-hp submersible		
turbine pump) at a depth of appr	oximately 5 m draws w	vater from the lake.			
Type of water storage fac provide a description):	ility (ie: Reservoi	r, storage, tank, no	one. For other, please		

What is the capacity of the water storage facility? (m³ meters)

The water treatment facility does not have water storage. Water is pumped directly from the lake, treated and then pumped directly into the water delivery truck.

What is the rate of withdrawal from the source? (m³/day)

Approximately 47 m³/day

is water drawn from the source?

If yes, during what month(s) is it drawn? And for what period of time is it drawn (days/weeks/months)?

Water is withdrawn using the truckfill station and is delivered Monday to Friday. Water is withdrawn continuously throughout the year, as there is no water storage facility.

What is the rate of flow of source (if river) or size (if lake)?

New Water Lake is approximately 450 m \times 350 m. Information on the volume of New Water Lake is not available but it is estimated to be roughly 742,000 m3.

At the intended rate of water usage, describe the effects on the river or lake from which water will be drawn.

General condition of: Water supply facility: Satisfactory Unsatisfactory
If unsatisfactory, explain:
Storage facility: Satisfactory N/A Unsatisfactory
If unsatisfactory, explain:
Distribution system: Satisfactory Unsatisfactory
If unsatisfactory, explain:
Are there any changes planned in the water supply system?
Yes NoX
If yes, please attach a copy of the plan, or describe changes.

SECTION 3: WATER TREATMENT

G000	Fair	Poor
		of high quality, meeting the criteria set out in the Guidelines for
		blished by Health Canada. Please see attached results.
Indicate the ca	spacity of the tr	reatment facility (L/minute)
There are two wa The truck fill rate	iter trucks in Paulatu is approximately 100	uk, each in good condition, with a capacity of 1600 gallons (6056 L). 00 L/minute.
	treatment facili , please describ	ity (ie: Filtration & Chlorination, Chlorination only, UV, pe)
Chlorine disinfect	tion is the only mear	ns of water treatment.
sedimentation	n, chemicais u	hod of water treatment (ie: backwash, flocculation used) and provide the results of the most recen I analysis. Attach a diagram if possible.
		hod of treatment used. Most recent results of the chemical and jound in Appendix A.
Have there be	een any problen ent facilities?	ns or health and environmental concerns with the
Yes	NoX	<u> </u>

Are th	ere any	changes	planned in the water	treatment facilities	?
Yes	X	No	_		
If yes,	please	attach a co	py of the plan or indic	ate change	
Prelimin this poi		ning for a nev	v water treatment facility h	as begun. No further info	ormation is available at
			SECTION 4: SEWA	AGE DISPOSAL	
			atment the sewage v e describe)	vill be receiving (pr	imary, secondary or
Primary	<i>'</i>				
Pre-tr	eatmer	nt (if applic	abie)		
Scree	ning	N/A	MacerationN/A	_	
Lago	ons (if a	applicable)		
Anaer	robic		aerobic	facultative_	<u> </u>
	•		f the sewage treatm	• •	•
	Lake is a unknow		250 m x 350 m with an un	кпоwп серти. Ппе сара	city of the
Indic	ate the	retention	time of the sewage v	vhile in the treatme	nt facility (days)
with n	o infrastr	ucture in piac	vn for the sewage lagon a .e. The lake has a natural .spring, summer and fall s	outflow of sewage into the	e Hamlet is dumping in ne wetland which occurs at

Indicate the estimated rate of discharge of wastewater

The rate of discharge is unknown. There is a natural outflow from the lagoon through a wide vegetated corridor before it reaches Damley Bay.

Indicate the location of the discharge point

The discharge point from the lagoon to the wetland is located on the northwest side of the lagoon. See attached figures.

Will the discharge be seasonal or continuous?					
If seasonal, during what month(s) will it occur?					
What is the duration of the discharge (days/weeks/months)					
Comment on the general condition of the:					
Sewage collection systemSewage is collected from the community by vacuum truck five days a					
week and disposed at the sewage lagoon, the trucks are in good condition and are checked regularly.					
The trucks discharge sewage using one of the two chutes at the facility.					
Dams, diversion, dykes or berms. There is no dams, dykes, diversions or berms. The sewage					
exfiltrates through a natural wetland adjacent to the lagoon.					
Have there been any problems or health and environmental concerns with the sewage disposal facilities?					
Yes NoX					
If yes, please describe:					
The average depth of the wastewater lagoon is (m³ meters)					
Average depth of the lagoon is unknown.					
100 cm					

What is the design freeboard? (m³ meters)

The sewage lagoon (lake) has no freeboard. As the lagoon is a natural lake, there are no berms surrounding the lagoon and therefore no freeboard.

discharged?	Y
if yes, pleas	e indicate species harvested, and estimate amounts.
	nicipality be using a honey bag pit?
YesX	No
If yes, desc	ribe its location, drainage and operation & maintenance
There are a and deposited	very small number of homes still using honey bags; these are collected as required in a designated pit near the lagoon. They are covered over with dirt as often as required.
	ny sources of commercial or industrial liquid waste being discharged or the municipal system which may affect the quality of the effluent or oduced?
Yes	NoX
If yes, pleas	se describe:
Have any s	pills occurred in the past five years?
Yes	NoX
	se submit a list of all spills with the date of the spill, the type of spill, the illed, the location of the spill, the method used to clean the spill and the results a-up.
Have there	e been any operating problems with the lagoon?
	NoX
lf ves. plea	se describe: Hamlet is concerned about the state of the lagoon, but no emergencies or
	ve been encountered

Are ti	iere any c	changes planned in the sewage disposal facilities?	
Yes_		No	
lf yes	, please d	escribe and if possible, attach a copy of the plan:	
	ntly the Ham n are require	atet is having an assessment of the lagoon completed to determine if upgrades to the ed.	
		SECTION 5: SOLID WASTE DISPOSAL	
Indica	ite the cap	pacity of the disposal area (m³ meters)	
landfil		Il currently available for solid waste disposal. Based on current ods being employed by the Hamlet, the total capacity of the cell is 5427 m ³ .	
The a	verage de	pth of the solid waste disposal site is (m³ meters)	
The s	olid waste d	lisposal cell is approximately 67 m by 18 m, with a depth of approximately 4.5 m.	
the r prod Yes_	nunicipal luced?	sources of commercial or industrial solid waste being deposited in system which may affect the quality of the effluent or leachate NoX describe:	
Brie ares	•	ibe how the solid waste will be picked up & delivered to the disposal	
durir	ng peak time	ollected from the community by a truck twice weekly, with increased pickup as required as such as near Christmas holidays.The waste is transported to the solid waste disposal public access road to the disposal site.	
is ti	ne solid w	/aste site fenced? There is a partial fence across the access road that requ	ires
Yes	<u> </u>	No repairs. The entire site is not fenced.	

Will the municipality be using a dead animal pit?

Yes_	<u> </u>	No	
If yes,	please o	iescribe its loca	ation, drainage and operation & maintenance:
The m	unicipality i		nimal incinerator. The animals are placed in a metal bin with a lid and
Will t	he muni	cipality be usi	ing a bulky metal waste disposal area?
Yes_	X	No	
If yes	, please	describe its loc	cation and operation & maintenance:
Large bulky	non-comb metal was	oustible items such te disposal area. I	n as white goods, automobiles, snowmobiles, etc. are placed in the Bulky waste is segregated as per the site plan in the attached figures.
Will	the mun	icipality be us	sing a hazardous waste disposal area?
Yes_	X	. No	·
lf ye	s, please	describe it loc	ation, structure and operation & maintenance:
Ther	e is some	secrecation of ha	zardous wastes at the bulky waste site, but a disposal area has not tis looking into developing an area for this.
sys	tem?		commercial wastes entering the solid waste disposal
Yes	<u> </u>	_ No	<u>x</u>
if ye	es, pleas stes):	e describe (so	urce, volume, special handling and disposal methods for these

If any natural watercourse may gain access to the proposed solid waste disposal area, what methods will be used to decrease the amount of runoff water entering these areas? Indicate the volume of water which may enter these areas from the source(s) in question and attach all pertinent details of proposed diversions

Please describe the nature of any diversions of watercourses

The bulky waste area has been partially sorted but has had no processing of the items completed. There is a concern that leachate is getting into old water lake, east of the site and the sewage lagoon. The Hamlet is looking into the need for an upgrade and modifications to site. Until further sampling is completed knowledge of leachate flow cannot be established.

	Have there been any problems or health and environmental concerns with the solid waste disposal facilities?					
Yes_	X	No				
			mmunity is concerned that there may be leachate going into Old			
Water	Lake locate	d northeast of the	e site.			
Are a	iny chang	es planned ir	n the solid waste disposal system?			
Yes_	<u> </u>	No				
If yes	s, please de	escribe and, if	f possible, attach a copy of the plan:			
Curre	ntly the Ham	let is having an a	assessment completed to determine what changes are required.			
			ANDONMENT AND RESTORATION PROGRAM tions of abandoned or restored water treatment facilities.			
	and desci ities.	ibe the locat	tions of abandoned or restored sewage treatment			
lago	on). See atta	ched figures. Wr	n from the community in another natural lake (not an engineered hen the Hamlet decided to move to the current site, the original site was ration activities were completed.			
List	and desc	ribe the local	tions of abandoned or restored soild waste disposal			

The original site was about 350 m from the community and approximately 3 km from the current site. Please see attached figures.

Do you have an abandonment and restoration plan?
YesX No
If yes, please attach a copy of the plan.
The Hamlet has just updated their plan. A copy has been included with this application.
SECTION 7: WATER QUALITY MONITORING PROGRAM
Briefly describe the methodology that is presently used to sample the raw water supply
Raw water is sampled by the hamlet annually.
Briefly describe any monitoring that is done on wastewater effluent and leachate
Currently bi-annual testing of the wastewater effluent is required, however, this has not been completed in a couple of years.
Recognized laboratory performing analysis of samples
Name of the laboratory:
Contact name:
Postal address:
Postal address:
Telephone number:
•
Are any changes planned in the water quality monitoring program?
YesX No
If yes, please describe

The Hamlet is going to begin a SNP monitoring program that will include three sites for the sewage effluent, one sample will be taken where the sewage effluent enters the wetland, the second site will be midway through the wetland and the third site will be where the effluent enters Damley Bay.

The Hamlet is also considering a sampling of the water northwest of the Solid Waste Facility, called Old Water Lake. This is to see if any runoff from the facility is affecting the lake close to the Hamlet centre.

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SECTION 8: ENVIRONMENTAL ASSESSMENT AND SCREENING

Has this proj pravious own	ect ever underg ners?	jone an initial environmental review, including
Yes	NoX	Unknown
If yes, b / who	m and when?	
Has apt roval Oceans for us waste?	been obtained sing any fish be	or sought from the Department of Fisheries and paring water bodies for containment or disposal of
Yes	NoX	-
Are ther : any	environmental	studies ongoing or planned?
Yes	NoX	
if yes, ple ase p	provide a list of t	hese studies.
Prepared by:	Greg Morash	Supervisor, Hamlet of Paulatuk
	Printed Name	Title
	ignature	Completion Date

SECTION 9: LIST OF ATTACHMENTS

Reference to the question in the questionnaire	Title of the documents	Date of the documents	Author(s) of the documents	Number of pages of the documents
Question No: Section 3	Water Chemistry Raw Intake 2014 Results.pdf	2011, 2014	NT Drinking water quality database	2
Question N ^o :	Most Recent Water Chemistry and Bacteriological Results.pdf	2014, 2015	NT Drinking water quality database	2
Question N°:	Haz Mat Database_Paulatuk.pdf	2015	ENR	1
Question N°:	Figures 1-3	July 2015	Dillon Consulting Limited	3
Question N°:	Contingency Plan	July 2015	Diflon Consulting Limited	25
Question No:	Schedule C	July 2015	Dillon Consulting Limited	3
Question N°:	Paulatuk Sewage Lagoon Operations and Maintenance Manual.pdf	July 2015	Dillon Consulting Limited	36
Question No:	Paulatuk Solid Waste Facility Operations and Maintenance Manual.pdf	July 2015	Dillon Consulting Limited	156
Question N°:	Paulatuk Abandonment and Reclamation Plan.pdf	July 2015	Dillon Consulting Limited	35
Question N°:				
Question Nº:				
Question N°:				

Most recent water intake results

Northwest Territories Drinking Water Quality Database

Raw Water Test Results - Paulatuk

Sample Source:	New Water La	ke	Sample ID:	Z79588		
Sample Location	: Intake		Sample Date (m/d/y):	04/02/20	11	
Location Detail:	ı		Laboratory:	Maxxam A	nalytics	
					<u>Back</u>	
					GCDWQ	
	Physicals	Value	Units	<u>MAC</u>	<u>IMAC</u>	<u>AO</u>
	* pHec	7.89				6.5 - 8.5
	* True Colour		TCU			<=15
	* Turbidity	0.9	NTU	0.3/1.0/0.1		
					<u>GCDWQ</u>	
	Nutrients	Value	Units	MAC	<u>IMAC</u>	<u>AO</u>
	* Nitrate-N	0.013	mg/L	45		
	* Total Dissolved Solidsa	310	mg/L			
					<u>GCDWQ</u>	
	Organics	Value	Units	MAC	<u>IMAC</u>	<u>AO</u>
	* Cyanide		mg/L	0.20		
ъ	* THM-		mg/L			0.016
	dichloromethane		&			
* Tota	<u>ll Trihalomethanes</u> (THM's)		mg/L	0.1		
					GCDWQ	
י	Major Ions	Value	Units	<u>MAC</u>	IMAC	<u>AO</u>
	* Chloride	9	mg/L	1 17 10	27 17 10	<=250
	* Fluoride	0.08	mg/L	1.5		
	* Sodium	7.3	mg/L			<=200
	* Sulphate	951	mg/L			<=500
					<u>GCDWQ</u>	
M	letals - Total	Value	Units	<u>MAC</u>	IMAC	<u>AO</u>
<u>-</u>	* Aluminum		mg/L		<u> </u>	0.1/0.2

* Arsenic	0.0003	mg/L	0.01		
* Barium	0.07	mg/L	1.0		
* Cadmium		mg/L	0.005		
* Chromium		mg/L	0.05		
* Copper	0.0014	mg/L			<=1.0
* Iron		mg/L			<=0.3
* Lead		mg/L	0.010		
* Manganese		mg/L			<=0.05
* Mercury		mg/L	0.001		
* Selenium		mg/L	0.01		
* <u>Uranium</u>	0.0001	mg/L		0.02	
* Zinc	0.010	mg/L			<=5.0

GCDWQ - Guidelines for Canadian Drinking Water Quality
MAC - Maximum Acceptable Concentration
IMAC - Interim Maximum Acceptable Concentration
AO - Aesthetic Objective
ND - Not Defined

Most recent waster Intake results

Northwest Territories Drinking Water Quality Database

Treated Water Test Results - Paulatuk

Sample Source:	New Water Lake	Sample ID:	LI0740
Sample Location:	Intake	Sample Date (m/d/y):	28/11/2014
Location Detail:		Laboratory:	Maxxam Analytics

Back

				<u>GCDWQ</u>	
Organics	Value	Units	<u>MAC</u>	<u>IMAC</u>	<u>AO</u>
* THM- Bromodichloromethane	0.0051	mg/L			0.016
* THM-Bromoform	< 0.0005	mg/L			
* THM-Chlorodibromomethane	< 0.001	mg/L			
* THM-Chloroform	0.013	mg/L			
* Total Trihalomethanes (THM's)	0.018	mg/L	0.1		

GCDWO - Guidelines for Canadian Drinking Water Quality

MAC - Maximum Acceptable Concentration

IMAC - Interim Maximum Acceptable Concentration

AO - Aesthetic Objective ND - Not Defined

Most recent bacteriological analysis. (Raw water house, water treatment plant)

Northwest Territories Drinking Water Quality Database

Raw Water Test Results - Paulatuk

Sample Source:

New Water Lake

Sample ID:

colilert report

Sample Location:

Water Treatment Plant

Sample Date (m/d/y):

29/06/2015

Location Detail:

raw water hose

Laboratory:

No

In House (Colilert System)

Ecoli Present (Yes/No)

<u>Total Coliforms Present (Yes/No)</u> Yes

Public Drinking Water Supply Systems

- 1. No sample should contain Escherichia coli. E. coli indicates recent faecal contamination and the possible presence of enteric pathogens that may adversly affect human health. If E. coli is confirmed, the appropriate agencies should be notified, a boil water advisory should be issued, and corrective actions taken.
- 2. No consecutive samples from the same site or not more than 10% of samples from the distribution system in a given calendar month should show the presence of total coliform bacteria. The ability of total coliforms to indicate the presence of faecal pollution is less reliable than E. coli. However, this group of bacteria is a good indicator of quality control. The presence of total coliforms does not necessarily require the issuance of a boil water advisory but corrective actions should be taken.

For more information please visit the GCDWQ website.

Most recent bacteriological analysis. (Water Truck)

Northwest Territories Drinking Water Quality Database

Treated Water Test Results - Paulatuk

Sample Source:

New Water Lake

Sample ID:

colilert report

Sample Location:

Water Truck

Sample Date (m/d/y):

29/06/2015

Location Detail:

Laboratory:

In House (Colilert System)

Ecoli Present (Yes/No) No
Total Coliforms Present (Yes/No) No

Public Drinking Water Supply Systems

- 1. No sample should contain Escherichia coli. E. coli indicates recent faecal contamination and the possible presence of enteric pathogens that may adversly affect human health. If E. coli is confirmed, the appropriate agencies should be notified, a boil water advisory should be issued, and corrective actions taken.
- 2. No consecutive samples from the same site or not more than 10% of samples from the distribution system in a given calendar month should show the presence of total coliform bacteria. The ability of total coliforms to indicate the presence of faecal pollution is less reliable than E. coli. However, this group of bacteria is a good indicator of quality control. The presence of total coliforms does not necessarily require the issuance of a boil water advisory but corrective actions should be taken.

For more information please visit the GCDWQ website.



Hazardous Materials Spill Database

Environment Division of ENR Scotia 6, 5102-50th Avenue; Yellowknife, NT X1A 3S8 Phone: (867) 873-7654 Fax: (867) 873-0221

Sorted By: SpillNo for the year(s):

Spill No.	Date	Ter	Region	Location	Site Description	Commodity	Quantity	Source	Agency
2010429	2010-10-27	NT	INU	Paulatuk	Paulatuk Landfill Site	Dump Fire	0 L	UK	GNWT
2010456	2010-12-09	NT	INU	Paulatuk	NTPC Power Plant	Glycol	15 L	PL	GNWT
2011052	2011-03-09	NT	INU	Paulatuk	Paulatuk Power Plant	Glycol	150 L	PL	GNWT
2011058	2011-03-15	NT	INU	Paulatuk	Paulatuk Power Plant	Glycol	180 L	PL	GNWT
2011086	2011-03-29	NT	INU	Paulatuk	Lot 80, Plan 3538, Paulatuk NT	Fuel Oil	10 L	ST<	GNWT
2012349	2012-08-27	NT	INU	Paulatuk	PPD Tank Farm Fuel Dispenser Building	Jet A-1	200 L	TRU	GNWT
2012353	2012-08-28	NT	INU	Paulatuk	PPD Airport Tank Farm - Paulatuk Airport	Jet A-1	20 L	AIR	GNWT
2012426	2012-10-31	NT	INU	Paulatuk	G385 RCMP - 54 Hamlet Road	P50 - Heating Fuel	5 L	ST<	EPS
2013154	2013-05-16	NT	INU	Paulatuk	Paulatuk	Heating oil	0 L	ST<	GNWT
2013383	2013-11-18	NT	INU	Paulatuk	Paulatuk	Heating Fuel	0 L	PL	GNWT
2014059	2014-02-27	NT	INU	Paulatuk	Paulatuk NTPC Power Plant	Diesel Fuel	400 L	ST<	GNWT
2014129	2014-04-30	NT	INU	Paulatuk	Housing Units 67-70, LT04365, Block 106-107 Lot 98	Heating Fuel	1650 L	PL	GNWT
2014182	2014-05-29	NT	INU	Paulatuk	Housing Units 67-70, LT04365, Block 106-107, Lot 98	Heating Fuel	700 L	PL	GNWT
2015084	2015-03-09	NT	INU	Paulatuk	Airport Terminal Tank	Diesel	1000 L	PL	GNWT
2015209	2015-05-20	NT	INU	Paulatuk	Radio Station, Paulatuk	Diesel Oil	20 L	UK	GNWT
2015252	2015-06-12	NT	INU	Paulatuk	Hamlet of Paulatuk	Diesel	15 L	ST<	GNWT

Total Spills on this Report: 16

This report contains information regarding spills that were reported to the NWT 24-Hour Spill Line. The absence of information on any particular location in no way guarantees that contamination has not occurred at that location.

LECEND

		LEGEND		
Region: BAF - Baffin DEH - Deh Cho INU - Inuvik KEE - Keewatin KIT - Kitikmeot NSL - North Slave SAH - Sahtu SSL - South Slave	Source: AIR - Aircraft DRUM - Drum or Barrel MV - Marine Vessel NS - Natural Seepage OTH - Other Transportation	PL - Pipe or Line RT - Rail Train SL - Sewage Lagoon ST< - Storage Tank <4000 litres ST> - Storage Tank >4000 litres	TP - Tailings Pond TRU - Truck UK - Unkown WELL - Wet Wells, Flaring	Agency: CCG - Canadian Coast Guard EP - Environment Canada GN - Government of Nunavut GNWT - Government of Northwest Territories ILA - Inuvialiut Land Administration INAC - Indian and Northern Affairs Canada NEB - National Energy Board



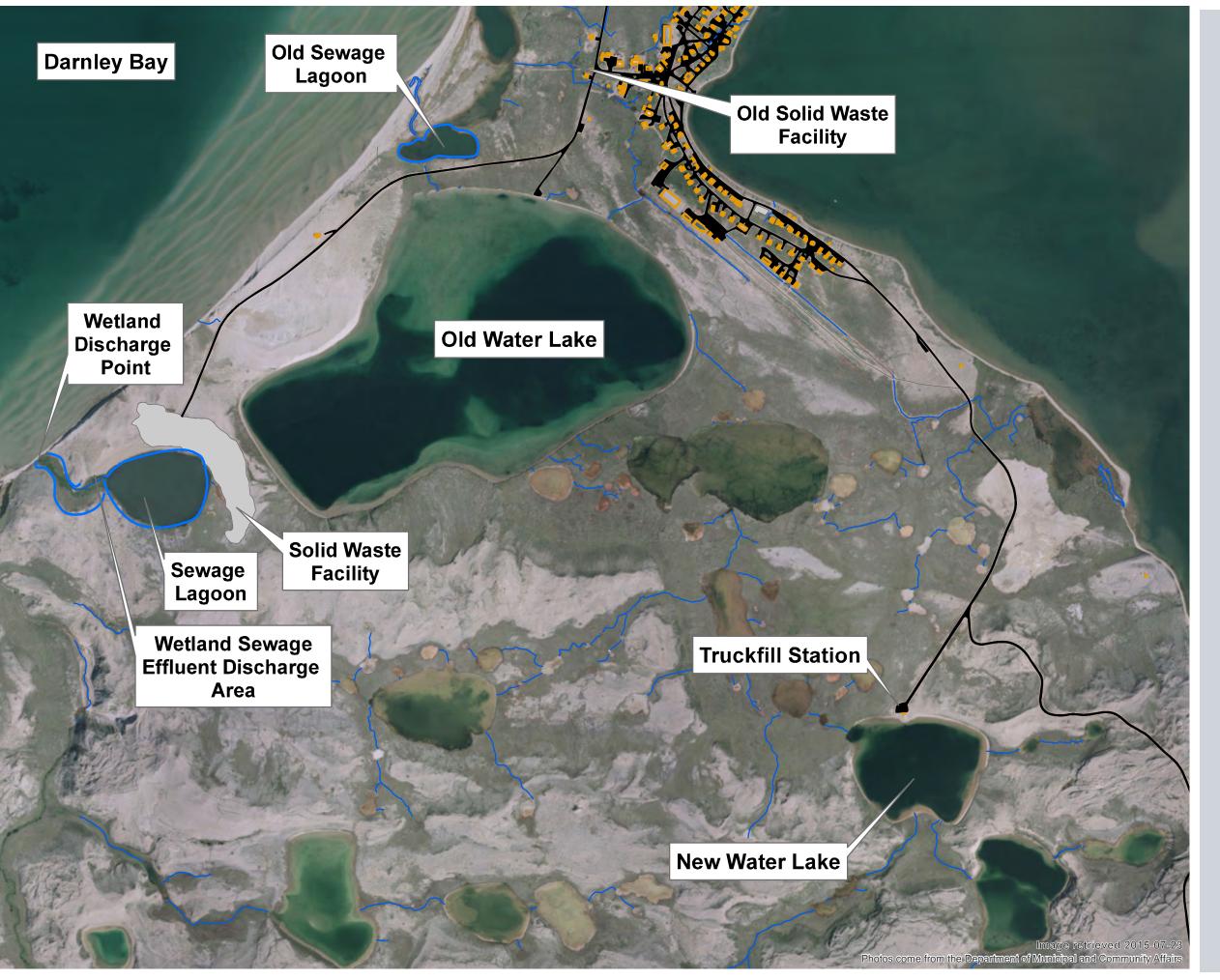




FIGURE 2 SITE OVERVIEW

BUILDING FOOTPRINT

ROADS

SOLID WASTE FACILITY

DRAINAGE PATHS

SCALE 1:12,000

MAP DRAWING INFORMATION: DATA PROVIDED BY GNWT

MAP CREATED BY: PMH MAP CHECKED BY: AC MAP PROJECTION: NAD 1983 UTM Zone 10N

FILE LOCATION: \\DILLON.CA\DILLON_DFS\SASKATOON\CAD\GIS\
151920 WATER LICENCE RENEWAL\PAULATUK\
PAULATUK FIGURE 2 SITE OVERVIEW .MXD



PROJECT: 151920

STATUS: DRAFT

DATE: 2015-07-24





DRAINAGE PATHS

SCALE 1:6,000

0 0.05 0.1

MAP DRAWING INFORMATION:
DATA PROVIDED BY GNWT

MAP CREATED BY: PMH
MAP CHECKED BY: AC
MAP PROJECTION: NAD 1983 U

MAP CREATED BY: PMH MAP CHECKED BY: AC MAP PROJECTION: NAD 1983 UTM Zone 10N

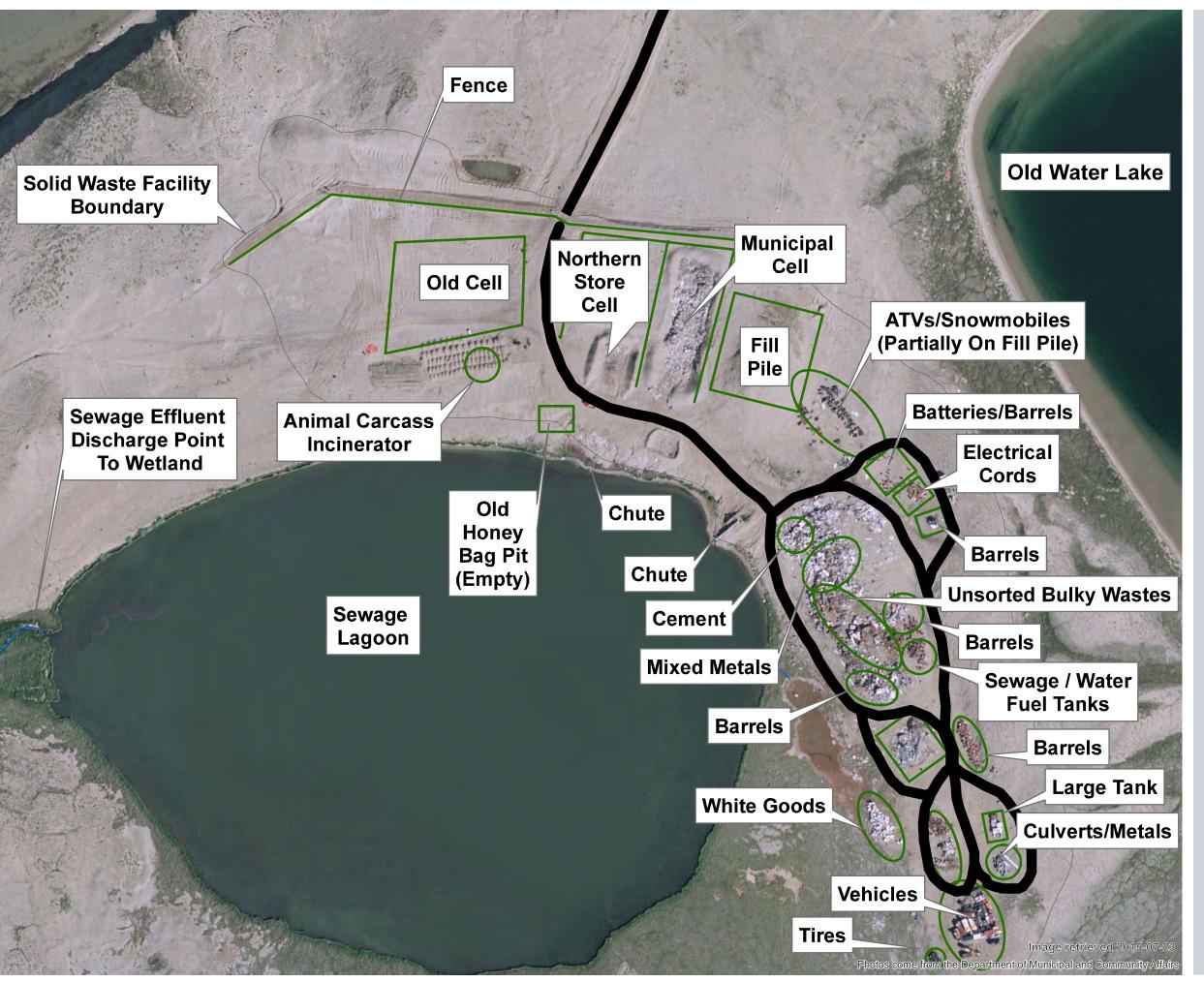
FILE LOCATION: \\DILLON.CA\DILLON_DFS\\SASKATOON\CAD\\GIS\\ 151920 WATER LICENCE RENEWAL\\PAULATUK\\ PAULATUK FIGURE 3 OLD FACILITIES SITE PLAN .MXD



PROJECT: 151920

STATUS: DRAFT

DATE: 2015-07-24





DRAINAGE PATHS

LANDFILL FEATURES

SCALE 1:1,750

0 12.5 25 50 Meters
MAP DRAWING INFORMATION:
DATA PROVIDED BY GNWT

MAP CREATED BY: PMH MAP CHECKED BY: AC MAP PROJECTION: NAD 1983 UTM Zone 10N

FILE LOCATION: \\DILLON.CA\DILLON_DFS\\SASKATOON\CAD\GIS\
151920 WATER LICENCE RENEWAL\PAULATUK\
PAULATUK FIGURE 4 SOLID WASTE SITE DETAILED SITE PLAN.MXE



PROJECT: 151920

STATUS: DRAFT
DATE: 2015-07-24