



HAMLET OF FORT LIARD

GENERAL DELIVERY
FORT LIARD, NT X0G 0A0
Phone: 867 770-4104 Fax: 867 770-4004

August 26, 2011

MACKENZIE VALLEY LAND AND WATER BOARD
P.O. Box 2130
YELLOWKNIVE, NT X1A 2P1
Fax: 867 873 6610

Mackenzie Valley Land
& Water Board

File

SEP 12 2011

Application # MV2009L3-0025

Copied To KGI Reg

Licence Number: MV2009L3-0025
Sewage Effluent Decant

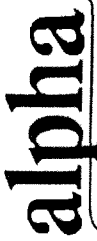
The Hamlet of Fort Liard requests permission to decant the out of service sewage lagoon, Old Cell #1, removed from service February 25, 2008. Please find attached the Technical Report of sample tests submitted to Alpha Labs for testing.

Samples of effluent were sent for testing with Alpha Laboratory Services in June 2011 to ensure effluent quality standards stated in per Part D (2), Maximum average concentration, of our water licence are met. The planned discharge is to free up Sewage Lagoon Treatment area for the containment of fluid to be transferred from the Solid Waste Disposal Area. The planned decant will be performed transferring fluid to drainage ditching recently completed with the construction of the new Waste Disposal Site.

The undersigned may be reached at 867-770-4104 ext. 103 should you require further information.

Alan Harris
Manager Municipal Operations
Hamlet of Fort Liard
Phone 867 770 4104
Fax 867 770 4004
mws@fortliard.com

Cc: INAC
South Mackenzie District Manager
140 Bristol Ave.
Yellowknife NT X1A 3T2
Fax: 867 669 2720



ALPHA LABORATORY SERVICES LTD.
Analytical and Consulting Services

17225 - 109 Avenue
 Edmonton, Alberta T5S 1H7
 Phone: (780) 489-9100 Fax: (780) 489-9700

TECHNICAL REPORT

To: **Hamlet of Fort Liard**
General Delivery
Fort Liard NT X0G 0A0

File: **34556**
 Date Reported: **July 13, 2011**
 Date Received: **June 30, 2011**
 Client PO: **1800**
 Attention: **Alan Harris**

Project: **Sewage Lagoon Testing**

Parameter	Unit	Sample ID: Lagoon #3	Old Cell #1	Date Analyzed	Analyst Initials
		0430 Hrs.	0430-1630 Hrs.		
		Date Sampled: Jun. 28/11	Jun. 28/11		
pH @ 24°C		9.59	8.81	Jun. 30/11	T.H.
Conductivity @ 25°C	mg/L	801	669	Jun. 30/11	T.H.
Biochemical Oxygen Demand	mg/L	21	11	Jun. 30/11	S.F.
Carbonaceous Biochemical Oxygen Demand	mg/l.	24	13	Jun. 30/11	S.F.
Total Dissolved Solids	mg/L	540	460	Jul. 6/11	S.F.
Total Suspended Solids	mg/L	19	12	Jul. 6/11	S.F.
Ammonia	mg/L N	0.08	0.22	Jul. 5/11	E.W.
Fecal Coliforms	CFU/100 mL	<1	<1	Jun. 30/11	T.H.

Parameter	Unit	Sample ID: Test Methods
		ⓐ
		Date Sampled: N/A
pH @ 25°C		4500H* B
Conductivity @ 25°C	mg/L	2510 B
Biochemical Oxygen Demand	mg/L	5210 B
Carbonaceous Biochemical Oxygen Demand	mg/L	5210 B
Total Dissolved Solids	mg/L	2540 C
Total Suspended Solids	mg/L	2540 D
Ammonia	mg/L N	4500-NH ₃ D
Fecal Coliforms	CFU/100 mL	9222 A,D

ⓐ Modified from Standard Methods for the Examination of Water and Wastewater, 21st Edition.

Note: Results relate only to the item tested.

alpha

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TECHNICAL REPORT

To: Hamlet of Fort Liard

File: 34556

Project: Sewage Lagoon Testing

Analysis Verified and
Report Authorized by:

Tuula Barclay
for Lisa Reinbolt
Supervisor

Note: All samples will be disposed of 30 days after analysis. Please advise the laboratory if you require additional sample storage time.