

APPENDIX-B

SEWGAE LAGOON PERFORMANCE INDICATOR

Lab test Results of the treated wastewater quality of the community Municipality of Pond inlet

The Municipality of Pond Inlet has an account with the Canduceon Environmental lab in Ottawa to get their wastewater samples tested. During decanting of the lagoon, they try to follow the guidelines of the water licence. They also conduct testing in case of emergency like possible leakage or seepage of the lagoon .

The Water License regulates that BOD₅ and TSS of the treated water at the compliance point are 120mg/L and 180mg/L respectively. Since lab test started in 2007, it shows that the lagoon is functioning satisfactorily. In 2007, it was suspected possible leakage of the Lagoon . Tests were conducted on the samples taken inside the lagoon and from the source of possible leakage spot located outside of the lagoon. The results do not support that the Lagoon was leaking. However multiple tests are necessary to make a decision whether this facility is leaking or not. The Community is maintaining QA/QC with this accredited lab in Ottawa.

Performance indicator of the Sewage Lagoon

Parameter	Guidelines	Dump site 2009	Inside lagoon 2009	Leakage water ,2007	Middle of Beach and Land, 2008	Middle of Beach and Land, 2009	Remark
BOD ₅	120mg/L	276	56	54	67	14	satisfactory
TSS	180mg/L	170	40	156	36	18	satisfactory

The test results of dated Oct. 15, 2007 and Oct.23, 2007 show clearly that the sewage lagoon was not leaking. However, further investigation is necessary. Please see pages 3 and 4 of this appendix-B.

C.O.C.: ---

REPORT No. B07-34682

Report To:

Hamlet of Pond Inlet
P.O Box 379
Pond Inlet, Nunavut, X0A 0S0

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa, Ontario, K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

Attention: Jonah Koonark

DATE RECEIVED: 12-Nov-07

JOB/PROJECT NO.:

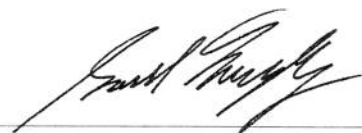
DATE REPORTED: 20-Nov-07

P.O. NUMBER:

SAMPLE MATRIX: Water

WATERWORKS NO.

			Client I.D.:	Truck Dumping Place				
			Sample I.D.:	B07-34682-1				
			Date Collected:					
Parameter	Units	M.D.L.	Reference Method	Date Analyzed				
Total Suspended Solids	mg/L	3	SM 2540	18-Nov-07	180			
BOD	mg/L	3	SM 5210	13-Nov-07	427			



Gord Murphy
Lab Supervisor

M.D.L. = Method Detection Limit

Accredited by the Standards Council of Canada and CAEAL for specific tests.

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior written consent from Caduceon Environmental Laboratories.

C.O.C.: ---

REPORT No. B07-31475

Report To:

Hamlet of Pond Inlet
P.O Box 379
Pond Inlet, Nunavut, X0A 0S0

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa, Ontario, K1V 7P1
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Fax: 613-526-1244

Attention: Bhabesh Roy

DATE RECEIVED: 12-Oct-07

JOB/PROJECT NO.:

DATE REPORTED: 15-Oct-07

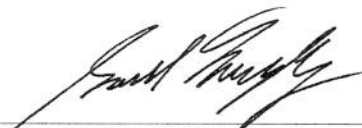
P.O. NUMBER:

SAMPLE MATRIX: Water

WATERWORKS NO.

Parameter:		Total Coliform	E coli			
Units:		cts/100mL	cts/100mL			
M.D.L.:		1	1			
Reference Method:		MOE E3371	MOE E3371			
Date Analyzed:		12-Oct-07	12-Oct-07			
Client I.D.	Sample I.D.	Date Collected				
Lagoon Raw Water	B07-31475-1		> 200000	> 200000		
Leakage Water	B07-31475-2		53000	< 10 ¹		
Fresh Water from Water Reservoir	B07-31475-3		5	< 1		
Treated Water from Supply Line	B07-31475-4		1	< 1		

1. Diluted due to matrix interference



Gord Murphy
Lab Supervisor

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C.O.C.: ---

REPORT No. B07-31475

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Pond Inlet, Nunavut, X0A 0S0

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2378 Holly Lane
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Attention: Bhabesh Roy

DATE RECEIVED: 12-Oct-07

JOB/PROJECT NO.:

DATE REPORTED: 23-Oct-07

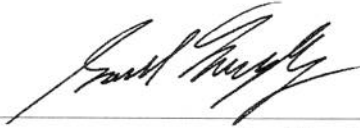
P.O. NUMBER:

SAMPLE MATRIX: Water

WATERWORKS NO.

Client I.D.:					Lagoon Raw Water	Leakage Water	Fresh Water from Water Reservoir	Treated Water from Supply Line
Sample I.D.:					B07-31475-1	B07-31475-2	B07-31475-3	B07-31475-4
Date Collected:								
Parameter	Units	M.D.L.	Reference Method	Date Analyzed				
Total Coliform	cts/100mL	1	MOE E3371	12-Oct-07	> 200000	53000	5	1
E coli	cts/100mL	1	MOE E3371	12-Oct-07	> 200000	< 10 ¹	< 1	< 1
BOD	mg/L	3	SM 5210	17-Oct-07	99	54	--	--
Total Suspended Solids	mg/L	3	SM 2540	16-Oct-07	34	156	--	--

1. Diluted due to matrix interference


Gord Murphy
Lab Supervisor

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C.O.C.: ---

REPORT No. B08-35297

Report To:

Hamlet of Pond Inlet
P.O Box 379
Pond Inlet, Nunavut, X0A 0S0

Caduceon Environmental Laboratories

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Ottawa, Ontario, K1V 7P1
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Attention: Jonah Koonark

DATE RECEIVED: 22-Oct-08

JOB/PROJECT NO.:

DATE REPORTED: 27-Oct-08

P.O. NUMBER:

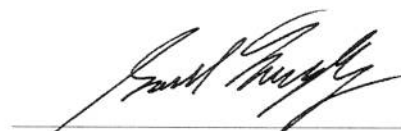
SAMPLE MATRIX: Water

WATERWORKS NO.

			Client I.D.:		Beach Sample			
			Sample I.D.:		B08-35297-1			
			Date Collected:					
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
Total Suspended Solids	mg/L	3	SM 2540	23-Oct-08/O	36			
BOD	mg/L	3	SM 5210	22-Oct-08/O	67			

M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,P-Peterborough,M-Moncton



Gord Murphy
Lab Supervisor

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

C.O.C.: ---

REPORT No. B09-32686

Report To:

Hamlet of Pond Inlet
P.O Box 379
Pond Inlet, Nunavut, X0A 0S0

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa, Ontario, K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

Attention: Jonah Koonark

DATE RECEIVED: 19-Oct-09

JOB/PROJECT NO.:

DATE REPORTED: 26-Oct-09

P.O. NUMBER:

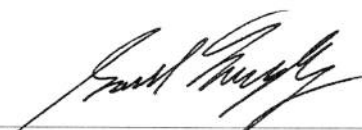
SAMPLE MATRIX: Water

WATERWORKS NO.

			Client I.D.:		Middle of Beach and Land			
			Sample I.D.:		B09-32686-1			
			Date Collected:		30-Sep-09			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
BOD	mg/L	3	SM 5210	21-Oct-09/O	14			
Total Suspended Solids	mg/L	3	SM 2540	22-Oct-09/O	18			

M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,P-Peterborough,M-Moncton



Gord Murphy
Lab Supervisor

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C.O.C.: C18494

REPORT No. B09-32860

Report To:

Hamlet of Pond Inlet
P.O Box 379
Pond Inlet, Nunavut, X0A 0S0

Attention: Jonah Koonark

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Fax: 613-526-1244

DATE RECEIVED: 20-Oct-09

JOB/PROJECT NO.:

DATE REPORTED: 26-Oct-09

P.O. NUMBER:

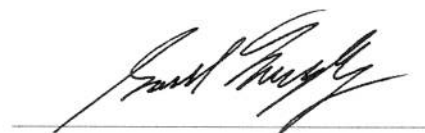
SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.:		Dumping Site	Sewage Lagoon		
			Sample I.D.:		B09-32860-1	B09-32860-2		
			Date Collected:		09-Oct-09	09-Oct-09		
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
BOD	mg/L	3	SM 5210	21-Oct-09/O	276	56		
Total Suspended Solids	mg/L	3	SM 2540	24-Oct-09/O	170	40		

M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,P-Peterborough,M-Moncton



Gord Murphy
Lab Supervisor

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