Appendix C

ETL Enviro-Test LABORATORIES

PRELIMINARY RESULTS

DILLON LIMITED
ATTN: ROB KUTA
PO BOX 1409
YELLOWKNIFE NT X1A 2P1

DATE: 13-JUL-05 11:32 AM

Lab Work Order #: L284184 **Sampled By:** RK **Date Received:** 06-JUL-05

Project P.O. #:

Project Reference: 05_4755_1000

Comments:

DOUG JOHNSON
Director of Operations, Edmonton

RACHEL JONES
Account Manager

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
L284184-1 20050705_05_4755_WL1 WETLANDS OCEAN								
Sample Date: 05-JUL-05 10:30								
Matrix: SEWAGE								
Ammonia-N	42.3		0.05	mg/L		07-JUL-05	WNG	R300756
Biochemical Oxygen Demand	19		2	mg/L		06-JUL-05	FY	R301814
MF - Fecal Coliforms	90		1	CFU/100mL		08-JUL-05	PB	R302425
Total Suspended Solids	8		3	mg/L		07-JUL-05	SVG	R300750
L284184-2 20050705_05_4755_WL2 WESTLANDS MIDSLOPE								
Sample Date: 05-JUL-05 10:35								
Matrix: SEWAGE								
Ammonia-N	39.3		0.05	mg/L		07-JUL-05	WNG	R300756
Biochemical Oxygen Demand	34		2	mg/L		06-JUL-05	FY	R301814
MF - Fecal Coliforms	2000		1	CFU/100mL		08-JUL-05	PB	R302425
Total Suspended Solids	11		3	mg/L		07-JUL-05	SVG	R300750
L284184-3 20050705_05_4755_WL3 WETLANDS LOWER B								
Sample Date: 05-JUL-05 10:40								
Matrix: SEWAGE								
Ammonia-N	65.7		0.05	mg/L		07-JUL-05	WNG	R300756
Biochemical Oxygen Demand	73		2	mg/L		06-JUL-05	FY	R301814
MF - Fecal Coliforms	12000		1	CFU/100mL		08-JUL-05	PB	R302425
Total Suspended Solids	46		3	mg/L		07-JUL-05	SVG	R300750
L284184-4 20050705_05_4755LC1 LOWER CELL								
Sample Date: 05-JUL-05 10:45								
Matrix: SEWAGE								
Ammonia-N	52.2		0.05	mg/L		07-JUL-05	WNG	R300756
Biochemical Oxygen Demand	70		2	mg/L		06-JUL-05	FY	R301814
MF - Fecal Coliforms	21000		1	CFU/100mL		08-JUL-05	PB	R302425
Total Suspended Solids	20		3	mg/L		07-JUL-05	SVG	R300750
L284184-5 20050705_05_4755_UC1 UPPER CELL NORTH								
Sample Date: 05-JUL-05 10:50								
Matrix: SEWAGE								
Ammonia-N	64.9		0.05	mg/L		07-JUL-05	WNG	R300756
Biochemical Oxygen Demand	152		2	mg/L		06-JUL-05	FY	R301814
MF - Fecal Coliforms	68000		1	CFU/100mL		08-JUL-05	PB	R302425
Total Suspended Solids	25		3	mg/L		07-JUL-05	SVG	R300750
L284184-6 20050705_05_4755_UC2 UPPER CELL NORTH WATER								
Sample Date: 05-JUL-05 10:55								
Matrix: SEWAGE								
Ammonia-N	63.9		0.05	mg/L		07-JUL-05	WNG	R300756
Biochemical Oxygen Demand	116		2	mg/L		06-JUL-05	FY	R301814
MF - Fecal Coliforms	120000		1	CFU/100mL		08-JUL-05	PB	R302425
Total Suspended Solids	22		3	mg/L		07-JUL-05	SVG	R300750
L284184-7 20050705_05_4755_UC3 UPPER CELL SOUTH								
Sample Date: 05-JUL-05 11:00								
Matrix: SEWAGE								

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
L284184-7 20050705_05_4755_UC3 UPPER CELL SOUTH								
Sample Date: 05-JUL-05 11:00								
Matrix: SEWAGE								
Ammonia-N	71.0		0.05	mg/L		07-JUL-05	WNG	R300756
Biochemical Oxygen Demand	133		2	mg/L		06-JUL-05	FY	R301814
MF - Fecal Coliforms	62000		1	CFU/100mL		08-JUL-05	PB	R302425
Total Suspended Solids	19		3	mg/L		07-JUL-05	SVG	R300750
L284184-8 20050705_05_4755_WSI1 WEST SLOPE UPPER CELL								
Sample Date: 05-JUL-05 11:05								
Matrix: SEWAGE								
Ammonia-N	0.06		0.05	mg/L		06-JUL-05	WNG	R300309
Biochemical Oxygen Demand	<2		2	mg/L		06-JUL-05	FY	R301814
MF - Fecal Coliforms	<1		1	CFU/100mL		08-JUL-05	PB	R302425
Total Suspended Solids	37		3	mg/L		07-JUL-05	SVG	R300750
L284184-9 20050705_05_4755_PWL1 UPPER PROPOSED WET LAND								
Sample Date: 05-JUL-05 14:10								
Matrix: WATER								
Ammonia-N	<0.05		0.05	mg/L		06-JUL-05	WNG	R300309
Biochemical Oxygen Demand	<2		2	mg/L		06-JUL-05	FY	R301814
MF - Fecal Coliforms	<1		1	CFU/100mL		08-JUL-05	PB	R302425
Total Suspended Solids	<3		3	mg/L		07-JUL-05	SVG	R300750
L284184-10 20050705_05_4755_PWL2 LOWER PROPOSED WET LAND								
Sample Date: 05-JUL-05 14:15								
Matrix: WATER								
Ammonia-N	<0.05		0.05	mg/L		06-JUL-05	WNG	R300309
Biochemical Oxygen Demand	<2		2	mg/L		06-JUL-05	FY	R301814
MF - Fecal Coliforms	<1		1	CFU/100mL		08-JUL-05	PB	R302425
Total Suspended Solids	<3		3	mg/L		07-JUL-05	SVG	R300750
L284184-11 20050705_05_4755_LF1 LANDFILL RUNOFF								
Sample Date: 05-JUL-05 11:10								
Matrix: WATER								
Biochemical Oxygen Demand	2		2	mg/L		06-JUL-05	FY	R301814
Total Suspended Solids	8		3	mg/L		07-JUL-05	SVG	R300750
L284184-12 20050705_05_4755_LF2 LANDFILL PONDING								
Sample Date: 05-JUL-05 11:15								
Matrix: WATER								
Biochemical Oxygen Demand	322		2	mg/L		06-JUL-05	FY	R301814
Total Suspended Solids	37		3	mg/L		07-JUL-05	SVG	R300750
L284184-13 BLANK COOLER 1 CONT. CONTROL								
Sample Date: 05-JUL-05 13:00								
Matrix: WATER								
MF - Fecal Coliforms	<1		1	CFU/100mL		08-JUL-05	PB	R302425

ENVIRO-TEST ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Extracted	Analyzed	By	Batch
L284184-14 BLANK COOLER 2 CONT. CONTROL Sample Date: 05-JUL-05 13:00 Matrix: WATER								
MF - Fecal Coliforms	<1		1	CFU/100mL		08-JUL-05	PB	R302425

Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Methods Listed (if applicable):

ETL Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)
BOD-ED	Water	Biochemical Oxygen Demand (BOD)		APHA 5210 B-5 day Incub.-O2 electrode
FCC-MF-PB	Water	Fecal Coliform Count-MF		APHA 9222D MF
NH4-ED	Water	Ammonia-N		APHA4500NH3F Colorimetry
SOLIDS-TOTSUS-ED	Water	Total Suspended Solids		APHA 2540 D-Gravimetric

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

Chain of Custody numbers:

204285 204286

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
ED	Enviro-Test Laboratories - Edmonton, Alberta, Canada	PB	PBR LABARATORIES

GLOSSARY OF REPORT TERMS
Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in enviromental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.
The reported surrogate recovery value provides a measure of method efficiency. The Laboratory warning units are determined under column heading D.L.
mg/kg (units) - unit of concentration based on mass, parts per million
mg/L (units) - unit of concentration based on volume, parts per million
< - Less than
D.L. - Detection Limit
N/A - Result not available. Refer to qualifier code and definition for explanation

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
UNLESS OTHERWISE STATED, SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.
Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

Enviro-Test Laboratories has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, Enviro-Test Laboratories assumes no liability for the use or interpretation of the results.

ANALYTICAL REPORT

GOVERNMENT OF NUNAVUT
ATTN: NAVIJIT SIDHU

Reported On: 31-AUG-06 06:11 PM

BAG 200, 2ND FLR

CAMBRIDGE BAY NU X0B 0C0

Lab Work Order #: L425715 **Date Received:** 24-AUG-06

Project P.O. #:
Job Reference: COMMUNITY & GOVERNMENT SERVICES
Legal Site Desc:
CofC Numbers: 271507

Other Information:

Comments:

ROY JONES
General Manager

For any questions about this report please contact your Account Manager:

CATHERINE EVARISTO-CORDERO

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	By	Batch
L425715-1 25M U/S OF OCEAN KUGARRUK								
Sampled By: NAVJIT SIDHU								
Matrix: WATER								
Ammonia-N	36.6		0.05	mg/L		25-AUG-06	LDC	R434683
Biochemical Oxygen Demand	13		2	mg/L		24-AUG-06	JL1	R435728
MF - E. Coli	7		1	CFU/100mL		24-AUG-06	PB	R436936
MF - Fecal Coliforms	7		1	CFU/100mL		24-AUG-06	PB	R436936
Total Kjeldahl Nitrogen	40.4		0.2	mg/L	28-AUG-06	29-AUG-06	SHC	R435968
Total Suspended Solids	8		3	mg/L		25-AUG-06	SVG	R434619
L425715-2 MIDDLE OF LAGOON KUGARRUK								
Sampled By: NAVJIT SIDHU								
Matrix: WATER								
Ammonia-N	38.7		0.05	mg/L		25-AUG-06	LDC	R434683
Biochemical Oxygen Demand	10		2	mg/L		24-AUG-06	JL1	R435728
MF - E. Coli	10		1	CFU/100mL		24-AUG-06	PB	R436936
MF - Fecal Coliforms	10		1	CFU/100mL		24-AUG-06	PB	R436936
Total Kjeldahl Nitrogen	40.0		0.2	mg/L	28-AUG-06	29-AUG-06	SHC	R435968
Total Suspended Solids	8		3	mg/L		25-AUG-06	SVG	R434619
L425715-3 OUTSIDE OF LAGOON KUGARRUK								
Sampled By: NAVJIT SIDHU								
Matrix: WATER								
Ammonia-N	50.4		0.05	mg/L		25-AUG-06	LDC	R434683
Biochemical Oxygen Demand	54		2	mg/L		24-AUG-06	JL1	R435728
MF - E. Coli	90000		1	CFU/100mL		24-AUG-06	PB	R436936
MF - Fecal Coliforms	110000		1	CFU/100mL		24-AUG-06	PB	R436936
Total Kjeldahl Nitrogen	64.8		0.2	mg/L	28-AUG-06	29-AUG-06	SHC	R435968
Total Suspended Solids	48		3	mg/L		25-AUG-06	SVG	R434619

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)
BOD-ED	Water	Biochemical Oxygen Demand (BOD)		APHA 5210 B-5 day Incub.-O2 electrode
ECC-MF-PB	Water	Escherchia coli Count (E.coli)-MF		APHA 9221F MF
FCC-MF-PB	Water	Fecal Coliform Count-MF		APHA 9222D MF
N-TOTKJ-ED	Water	Total Kjeldahl Nitrogen		APHA 4500N-C -Dig.-Auto-Colorimetry
NH4-ED	Water	Ammonia-N		APHA4500NH3F Colorimetry
SOLIDS-TOTSUS-ED	Water	Total Suspended Solids		APHA 2540 D-Gravimetric

** Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

Chain of Custody numbers:

271507

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
ED	ALS LABORATORY GROUP - EDMONTON, ALBERTA, CANADA	PB	PBR LABORATORIES

GLOSSARY OF REPORT TERMS
Surr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in environmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.
The reported surrogate recovery value provides a measure of method efficiency. The Laboratory control limits are determined under column heading D.L.
mg/kg (units) - unit of concentration based on mass, parts per million.
mg/L (units) - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
UNLESS OTHERWISE STATED. SAMPLES ARE NOT CORRECTED FOR CLIENT FIELD BLANKS.
Although test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

ALS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by checks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus cannot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

ALS Laboratory Group Quality Control Report

Workorder: L425715 Report Date: 31-AUG-06

Client: GOVERNMENT OF NUNAVUT
BAG 200, 2ND FLR
CAMBRIDGE BAY NU X0B 0C0

Contact: NAVIJIT SIDHU

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BOD-ED	**Water**							
Batch R435728								
WG488789-4 DUP		**L425460-1**						
Biochemical Oxygen Demand		9	9	J	mg/L	0	8	24-AUG-06
WG488789-3 IRM		**BOD SEED**						
Biochemical Oxygen Demand			0.8		mg/L		0.2-1.7	24-AUG-06
WG488789-2 LCS								
Biochemical Oxygen Demand			108		%		85-115	24-AUG-06
WG488789-1 MB								
Biochemical Oxygen Demand			<0.2		mg/L		0.2	24-AUG-06
N-TOTKJ-ED								
Batch R435968								
WG488547-5 DUP		**L425392-10**						
Total Kjeldahl Nitrogen		1.0	0.8	J	mg/L	0.1	0.8	29-AUG-06
WG488547-2 LCS								
Total Kjeldahl Nitrogen			92		%		82-115	29-AUG-06
WG488547-3 LCS								
Total Kjeldahl Nitrogen			91		%		69-131	29-AUG-06
WG488547-4 LCS								
Total Kjeldahl Nitrogen			92		%		83-118	29-AUG-06
WG488547-1 MB								
Total Kjeldahl Nitrogen			<0.2		mg/L		0.2	29-AUG-06
WG488547-6 MS		**L423487-3**						
Total Kjeldahl Nitrogen			97		%		61-140	29-AUG-06
NH4-ED	**Water**							
Batch R434683								
WG487121-5 DUP		**L424783-1**						
Ammonia-N		<0.05	<0.05	RPD-NA	mg/L	N/A	10	25-AUG-06
WG487121-7 DUP		**L425607-1**						
Ammonia-N		<0.05	<0.05	RPD-NA	mg/L	N/A	10	25-AUG-06
WG487121-9 DUP		**L425392-10**						
Ammonia-N		0.56	0.56		mg/L	0.16	10	25-AUG-06
WG487121-2 LCS								
Ammonia-N			103		%		90-111	25-AUG-06
WG487121-1 MB								
Ammonia-N			<0.05		mg/L		0.05	25-AUG-06
WG487121-10 MS		**L425392-20**						
Ammonia-N			108		%		84-120	25-AUG-06
WG487121-4 MS		**L423772-3**						

ALS Laboratory Group Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
NH4-ED	**Water**							
Batch R434683								
WG487121-4 MS		L423772-3						
Ammonia-N			110		%		84-120	25-AUG-06
WG487121-6 MS		L424792-7						
Ammonia-N			107		%		84-120	25-AUG-06
WG487121-8 MS		L424792-1						
Ammonia-N			109		%		84-120	25-AUG-06
SOLIDS-TOTSUS-ED	**Water**							
Batch R434619								
WG487067-3 DUP		L425393-6						
Total Suspended Solids		<3	<3	RPD-NA	mg/L	N/A	14	25-AUG-06
WG487067-4 DUP		L425647-1						
Total Suspended Solids		3	<3	RPD-NA	mg/L	N/A	14	25-AUG-06
WG487067-2 LCS								
Total Suspended Solids			102		%		83-111	25-AUG-06
WG487067-1 MB								
Total Suspended Solids			<3		mg/L		3	25-AUG-06

ALS Laboratory Group Quality Control Report

Legend:

Limit	99% Confidence Interval (Laboratory Control Limits)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Qualifier:

RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.
A	Method blank exceeds acceptance limit. Blank correction not applied, unless the qualifier "RAMB" (result adjusted for method blank) appears in the Analytical Report.
B	Method blank result exceeds acceptance limit, however, it is less than 5% of sample concentration. Blank correction not applied.
E	Matrix spike recovery may fall outside the acceptance limits due to high sample background.
F	Silver recovery low, likely due to elevated chloride levels in sample.
G	Outlier - No assignable cause for nonconformity has been determined.
J	Duplicate results and limit(s) are expressed in terms of absolute difference.
K	The sample referenced above is of a non-standard matrix type; standard QC acceptance criteria may not be achievable.

PBR Laboratories Inc.

MICROBIOLOGY ANALYSIS REPORT

REPORT #: 060830-6 ***FILE:*** ALS-060830-6

WO #: 06-CDL

P.O #: 425715

CLIENT: ALS Laboratory Group
9936-67 Ave
Edmonton, AB, T6E 0P5

ATTENTION: ALSED Reporting
PH: 780-413-5227
Fax: 780-437-2680

SAMPLE DESCRIPTION: Water Samples.

DATE & TIME OF SAMPLE RECEIPT: August 24, 2006 / 4:00 PM.

TESTS PERFORMED: Fecal Coliform & *E. coli* by MF.

TEST START DATE: August 24, 2006

COMPLETION DATE: August 26, 2006

CERTIFICATE OF ANALYSIS: Please see page 2.

CERTIFICATE OF ANALYSIS

Table 1. Water Samples: Fecal Coliform & *E. coli*.

PBR ID	Client Sample No.	Client ID	CFU / 100ml (APHA -9222D & 9222G) Fecal Coliform	*E. coli*
06-CDL-01	L425715-1	25M U/S OF OCEAN KUGARRUK	7	7
06-CDL-02	L425715-2	MIDDLE OF LAGOON KUGARRUK	10	10
06-CDL-03	L425715-3	OUTSIDE OF LAGOON KUGARRUK	1.1×10^5	9.0×10^4

Note: Microbial count is expressed as CFU (Colony Forming Unit).
****No Counts were detected.***

Warren Schmidt (Analyst)
DATE: 060830

Approved by: Narayan Pokharel, Ph.D.
DATE: 30 Aug 06

PBR

ETL Enviro-Test LABORATORIES

CHAIN OF CUSTODY / ANALYTICAL REQUEST FORM

CANADA TOLL FREE 1-800-668-9878

WWW.ENVIROTEST.COM

COC # 271507

Pg.____of____.

DATE:

LAB WORK ORDER # L425715

REPORT TO: Navjit Sidhu

COMPANY: (Community & Government Servi N

CONTACT:

ADDRESS: Nunavut

PHONE: 867-983-4142 FAX:

CELLPHONE:

REPORT DISTRIBUTION ALL FINAL RESULTS WILL BE MAILED

EMAIL____ FAX____

EMAIL 1:

EMAIL 2:

DIGITAL EMAIL:

SELECT: pdf___ digital___ both___

SERVICE REQUESTED

- ✓ REGULAR SERVICE (DEFAULT)
- PRIORITY SERVICE (50% SURCHARGE)
- EMERGENCY SERVICE (100% SURCHARGE)

INVOICE TO: SAME (Y) / N

COMPANY:

CONTACT:

ADDRESS:

PHONE: FAX:

JOB #

PO/AFE:

LSD:

QUOTE #

INDICATE BOTTLES: FILTERED/PRESERVED (F/P) ▶

ANALYSIS REQUEST

SAMPLE ID	SAMPLING LOCATION	SAMPLED BY / DATE / TIME	SAMPLING METHOD	SAMPLE TYPE	BOD	TKN	NH4	TSS	FCC	ECC					HAZARDOUS ?	NUMBER OF CONTAINERS	HIGHLY CONTAMINATED ?	LAB SAMPLE #
~~Ka~~25m u/s of ocean	Kugarruk	—	—	Water	✓	✓	✓	✓	✓	✓								
Middle of Lagoon	Kugarruk	—	—	↓	✓	✓	✓	✓	✓	✓								
Outside of Lagoon	Kugarruk	—	—	↓	✓	✓	✓	✓	✓	✓								

GUIDELINES / REGULATIONS	SPECIAL INSTRUCTIONS / NATURE OF HAZARDOUS MATERIAL	SAMPLE CONDITION
		FROZEN / ✓ COLD / AMBIENT — MEAN TEMPERATURE

Failure to complete all portions of this form may delay analysis. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the reverse of the white report copy.

RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME:	SAMPLE CONDITION ACCEPTABLE UPON RECEIPT ? (Y/N)
			24-Aug-06	
RELINQUISHED BY:	DATE & TIME:	RECEIVED BY:	DATE & TIME: 1231	

SAMPLING INFORMATION & REGIONAL LOCATIONS WHITE - REPORT COPY, PINK - FILE COPY, YELLOW - CLIENT COPY GENF04.01