FILTER STRIP WETLANDS
±41ha

ABSOLUTELY NO CONSTRUCTION EQUIPMENT PERMITTED IN THIS AREA

PHASE I
PHASE III

PHASE III
PHASE II

NEW LAGOON

EXISTING SWALE
EXISTING BERM
TOE OF SLOPE

R16.5m
R13.3m
R13.0m

3.25:1

21.0m–150mmø HDPE PIPE
300mmø HDPE PIPE
600mmø NESTED PIPE
PROPOSED SILT FENCE
EMERGENCY SPILLWAY
TRUCK TURNING PAD AND PUMPING AREA
16.0m–150mmø HDPE PIPE
LAGOON DECANTING INLET
TOE OF SLOPE
SITE BM TOP OF CUT PIPE ELE: 26.68m
SITE BM TOP OF CUT PIPE ELE: 27.42m
TRUCK DISCHARGE LOCATION #3
TRUCK DISCHARGE LOCATION #4
TRUCK DISCHARGE LOCATION #5
TRUCK DISCHARGE LOCATION #6
MATCH INTO EXISTING ACCESS ROAD
NEW CHAIN LINK FENCE
EXISTING FENCE TO BE REMOVED AND DISPOSED OF

R10.0m
21.90
21.82
4.0m
3:1
6.0m

ELEV.=27.10m
ELEV.=23.35m
ELEV.=23.50m
ELEV.=23.40m
ELEV.=23.20m
ELEV.=22.45m

NEW LAGOON CELL 'B'
ACTIVE VOLUME 35,500m³
LENGTH OF LAGOON ≈ 250m
WIDTH OF LAGOON ≈ 83m

NEW LAGOON CELL 'C'
ACTIVE VOLUME 35,500m³
LENGTH OF LAGOON ≈ 203m
WIDTH OF LAGOON ≈ 86m

SLUDGE MANAGEMENT SITE

REHABILITATED LAGOONS

PHASE I
PHASE III

PHASE III
PHASE II

28.00
30.00
32.00
34.00
36.00

LEGEND

- EXISTING SWALE
- GABION MAT
- TOP OF BERM
- TRUCK ROUTE
- DIRECTION OF OVERLAND FLOW (WETLANDS)
- 600mm PERFORATED NESTED PIPE
- EROSION CONTROL – SILT FENCE
- NEW FENCE LOCATION
- 76.58 PROPOSED GRADES
- STONE BOULDERS–SEE DETAIL SHEET FOR SPACING
- 4.0% SLOPE
- EXISTING DITCH LINE

NOTES

DISTANCES AND ELEVATIONS ARE EXPRESSED IN METERS AND ARE HORIZONTAL AT GROUND LEVEL.

ALL GRID REFERENCES REFER TO THE CENTRAL MERIDIAN OF UTM ZONE 17.

ELEVATION DATUM: COORDINATE CONTROL MONUMENT – IGLOOLIK CBM MO09001, ELEVATION – 46.74 METERS ABOVE MEAN SEA LEVEL–SEE SITE PLAN FOR LOCATION.

CONTOUR INTERVAL = 0.5m.

THE RE–USE OF BERM MATERIALS FROM THE EXISTING SEWAGE LAGOON SHALL BE ON CONDITION THAT THEY DO NOT POSE UNACCEPTABLE ACUTE HEALTH RISKS TO SITE WORKERS. PRIOR TO RE–USE SAMPLES OF THE BERM MATERIALS SHALL BE SUBMITTED FOR LABRATORY TESTING FOR BACTERIOLOGICAL PATHOGENS (INCLUDING AT A MINIMUM–E.COLI, TOTAL COLIFORMS, AND FECAL COLIFORMS). SITE WORKERS SHOULD USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT WHEN HANDLING BERM MATERIALS FROM EXISTING SEWAGE LAGOONS.

PERMIT TO PRACTICE
EXP SERVICES INC.
Signature
Date Nov 13, 2015
PERMIT NUMBER: P 483
NT/NU Association of Professional Engineers and Geoscientists

NOTES

THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

ISSUED FOR TENDER PURPOSES ONLY
DATE: NOVEMBER 12, 2015

NO.	REVISION DESCRIPTION	DATE	BY	APPD
6	ISSUED FOR TENDER	12/11/15	IPC	SLB
5	ISSUED FOR NWB REVIEW	27/03/15	IPC	SLB
4	ISSUED FOR 100% REVIEW	05/03/15	IPC	SLB
3	ISSUED FOR 99% REVIEW	19/01/15	IPC	SLB
2	ISSUED FOR 75% REVIEW	21/11/14	IPC	SLB
1	ISSUED FOR REVIEW	13/03/12	MEB	SLB

SCALE
HORZ 1:750
0 5m 10m 30m
HORIZONTAL 1:750

DESIGNED BY

REVIEWED BY
REGISTERED PROFESSIONAL ENGINEER
S. L. BURDEN
LICENSEE
NWT.

CLIENT
GOVERNMENT OF NUNAVUT
DEPARTMENT OF COMMUNITY AND GOVERNMENT SERVICES

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DESIGN IPC
CHECKED SLB
CAD IPC
PROJ. MAN SLB
APPROVED SLB

PROJECT
WASTEWATER TREATMENT FACILITY
IGLOOLIK, NUNAVUT

TITLE
NEW LAGOON CELLS 'B' & 'C'
PHASE II & PHASE III

PROJ. NO. OTCD000198 38A
SURVEY exp.
DATE NOV. 2014
DRAWING NO. IGL–5

Filename: c:\1000001985\191838 &g&d-cold create mgt igloolik - temp working drawings\2014 ww\04-05 - new lagoon.dwg
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