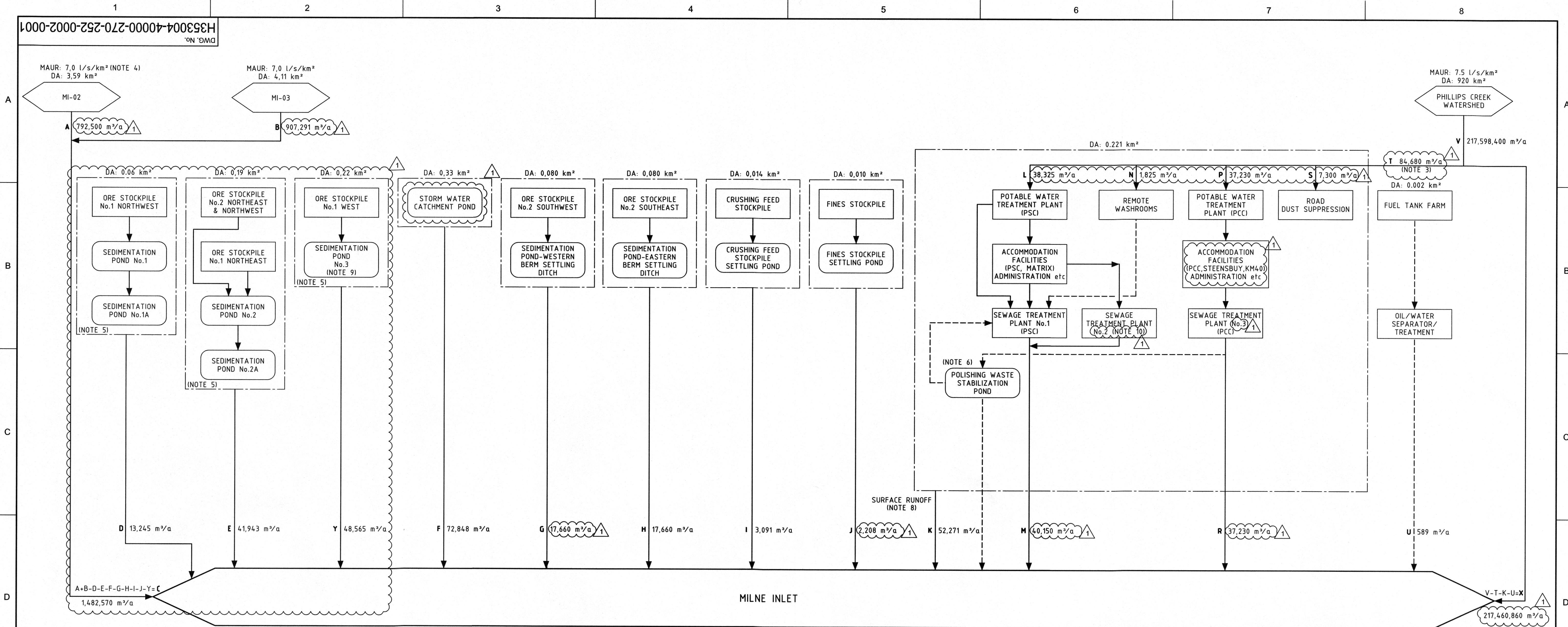




LEGEND

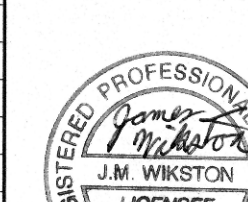
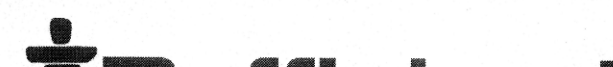
- IMPACTED WATERSHED
- DEVELOPMENT AREAS
- DEVELOPMENT AREAS SUBJECT TO APPROVAL
- STORMWATER PONDS
- CONTINUOUS OR WATERSHED FLOW
- INTERMITTENT FLOW
- A/AA 100,000 ANNUAL VOLUME (m³/a)
- MAUR MEAN ANNUAL UNIT RUNOFF (l/s/km²)
- PSC PORT SITE COMPLEX
- PCC PORT CONSTRUCTION CAMP
- MSC MINE SITE COMPLEX
- DA DRAINAGE AREA (km²)

PERMIT TO PRACTICE HATCH LTD.

Signature: *James Johnston* 2019.04.17
Date: 12:19:10 -04'00'

PERMIT NUMBER: P 512
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- NOTES:**
- SITE LAYOUT PER DRAWING H353004-00000-220-272-0001-0001, REV 3.
 - REFER TO PROCESS FLOW DIAGRAM H353004-40000-270-282-0001-0001, FOR MORE DETAILED WATER SUPPLY AND WASTE WATER TREATMENT.
 - RAW WATER SUPPLY FLOW RATE FROM PHILLIPS CREEK (SUMMER) & KM32 LAKE (WINTER/SUMMER) ARE CURRENTLY EQUAL TO OR LESS THAN TYPE A WATER LICENCE ZAM-MRY1325 FLOW RATE LIMIT OF 68.5m³/day (25,000m³/year) PLUS TYPE B WATER LICENCE BBC-MRY-1416 FLOW RATE LIMIT OF 299m³/day (109,135m³/year) TOTAL.
 - MAUR IN WATERSHEDS MI-02 AND MI-03 LIKELY RANGE BETWEEN 5 AND 7.5 l/s/km². PART OF THE MI-03 NATURAL CATCHMENT WILL BE USED FOR PROPOSED INFRASTRUCTURE CONSTRUCTION.
 - ORE STOCKPILE AND SEDIMENTATION POND CONSTRUCTION SUBJECT TO APPROVAL. ORE STOCKPILES RECEIVE ONLY PRECIPITATION AND NO SURFACE WATER RUNOFF FROM SURROUNDING AREAS.
 - USE OF POLISHING WASTE STABILIZATION POND WILL OCCUR ON A CONTINGENCY BASIS ONLY. SHOULD OFF-SPEC TREATED SEWAGE EFFLUENT BE PRODUCED AND CANNOT BE RECYCLED.
 - PLANT SITE RECEIVES ONLY PRECIPITATION-RUNOFF AND NO SURFACE WATER RUNOFF FROM SURROUNDING AREAS.
 - REFER ERP SURFACE WATER AND AQUATIC ECOSYSTEM MANAGEMENT FROM H349000-1000-07-126-0005, REV 1 FOR CATCHMENT AREA INFORMATION.
 - STOCKPILE No.1 DEVELOPMENT - POND 3 NORTH AND SOUTH
 - STP MOVED FROM MSC.

			FOR USE		THIS DRAWING WAS PREPARED BY HATCH LTD. ("HATCH") FOR THE EXCLUSIVE USE OF BAFFINLAND IRON MINES LP ("CLIENT") AND ITS USE IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT BETWEEN HATCH AND THE CLIENT, INCLUDING ANY LIMITATIONS ON LIABILITY CONTAINED THEREIN. THIS DRAWING AND ITS CONTENTS REMAIN THE INTELLECTUAL PROPERTY OF HATCH SUBJECT TO CLIENT'S ROYALTY-FREE, IRREVOCABLE, PERPETUAL AND NON-EXCLUSIVE LICENSE TO USE AND REPRODUCE THE DRAWING FOR PURPOSES CONNECTED WITH THE PROJECT, INCLUDING THE CONSTRUCTION, COMPLETION, MAINTENANCE, EXTENSION, REINSTATEMENT AND REPAIR OF THE PROJECT. THIS DRAWING, AND THE INFORMATION CONTAINED HEREIN, SHALL BE TREATED AS CONFIDENTIAL FOR ALL OTHER PURPOSES AND SHALL NOT BE MODIFIED WITHOUT THE WRITTEN CONSENT OF HATCH.		HATCH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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PERMIT TO PRACTICE
HATCH LTD.

Signature *James M. Wilson*

Date 2019-04-11

PERMIT NUMBER: P 512

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NOTES:

1. ONCE TESTED TO ENSURE COMPLIANCE WITH DISCHARGE REQUIREMENTS AS PER EDC.
2. HOSE ARRANGEMENT IS PART OF THE TRUCK SHOWN FOR REFERENCE ONLY.
3. POND 3N STAGE 1 DEVELOPMENT
POND 3S STAGE 2 DEVELOPMENT
CAPACITIES SHOWN AFTER COMPLETION

CRUSHER FEED STOCKPILE

STORM WATER CATCHMENT POND
CLEAN STORM WATER CAPACITY - 5000m³

TREATED WATER TRUCK

OVERFLOW DISCHARGE TO ENVIRONMENT

STORM WATER
RUNOFF

CRUSHER FEED SETTLING POND
CAPACITY - 528m³

TREATED WATER TRUCK

OVERFLOW DISCHARGE TO ENVIRONMENT

STOCKPILE STORMWATER
TO LICENSED
DISCHARGE POINT (NOTE 1)

STOCKYARD 2 - EAST STOCKPILE

STOCKYARD 2 EASTERN DITCH
CAPACITY - 3075m³

TREATED WATER TRUCK

OVERFLOW DISCHARGE TO ENVIRONMENT

STOCKPILE STORMWATER
TO LICENSED
DISCHARGE POINT (NOTE 1)

STOCKYARD 2 - WEST STOCKPILE

STOCKYARD 2 WESTERN DITCH
CAPACITY - 3904m³

TREATED WATER TRUCK

OVERFLOW DISCHARGE TO ENVIRONMENT

STOCKPILE STORMWATER
TO LICENSED
DISCHARGE POINT (NOTE 1)

FINES STOCKPILE

FINES STOCKPILE SETTLING POND
CAPACITY - 413m³

TREATED WATER TRUCK

OVERFLOW DISCHARGE TO ENVIRONMENT

STOCKPILE STORMWATER
TO LICENSED
DISCHARGE POINT (NOTE 1)

STOCKYARD 1

POND 2
CAPACITY - 2577m³

PORTABLE PUMPS

POND 2A
CAPACITY - 4394m³

PORTABLE PUMPS

POND 1
CAPACITY - 3075m³

PORTABLE PUMPS

POND 1A
CAPACITY - 3709m³

PORTABLE PUMPS

POND 3N
CAPACITY - 2725m³

PORTABLE PUMPS

POND 3S
CAPACITY - 5830m³

PORTABLE PUMPS

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HATCH

Baffinland

BAFFINLAND IRON MINES LP
MARY RIVER EXPANSION PROJECT

PORT SITE
STOCKYARD SETTLING PONDS
PIPING & INSTRUMENTATION DIAGRAM

SCALE NTS
DWG. No. H353004-40000-270-276-0006-0001
REV 1

H349000-2540-75-031-0001

MILNE PORT - WASTE MANAGEMENT - PIPING & INSTRUMENTATION DIAGRAM

H349000-2720-75-031-0003

MILNE PORT - BUILDING UTILITIES - PIPING & INSTRUMENTATION DIAGRAM

H349000-2731-75-031-0001

MILNE PORT - SEWAGE WATER TREATMENT - PIPING & INSTRUMENTATION DIAGRAM

H349000-2720-75-031-0002

MILNE PORT - POTABLE WATER SYSTEM - PIPING & INSTRUMENTATION DIAGRAM

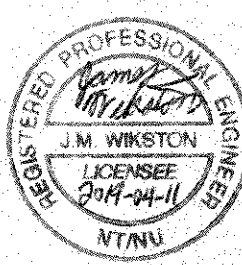
H349000-2720-75-031-0001

MILNE PORT - RAW/FIRE WATER SYSTEM - PIPING & INSTRUMENTATION DIAGRAM

DRAWING No.

DRAWING TITLE

REFERENCE DRAWINGS



REG. PROFESSIONAL

1 ADDITION OF STOCKYARD No.1 AND POND CAPACITY UPDATES

0 APPROVED FOR USE

No. DESCRIPTION

REVISIONS

LS PC 04-04-2019

HV PC 26-07-2018

BY CHK'D DATE

DRAFTSPERSON H VINCENT

DESIGNER

CHECKER P CHERRY

DESIGN COORD. R GOOSEN

RESP. ENG. J Wikston

LEAD DISC. ENG. P CHERRY

AREA LEAD V LAVRIC

ENG. MANAGER R GOOSEN

AREA MANAGER T ATIBA

ROLE NAME SIGNATURE DATE

DRAWING APPROVAL STATUS: Approved for Use

NR 13-06-2018

NR 2019-04-09

2019-04-08

2019-04-09

2019-04-11

2019-04-08

2019-04-12

SCALE

NTS

OR AS NOTED

SHEET SIZE: D