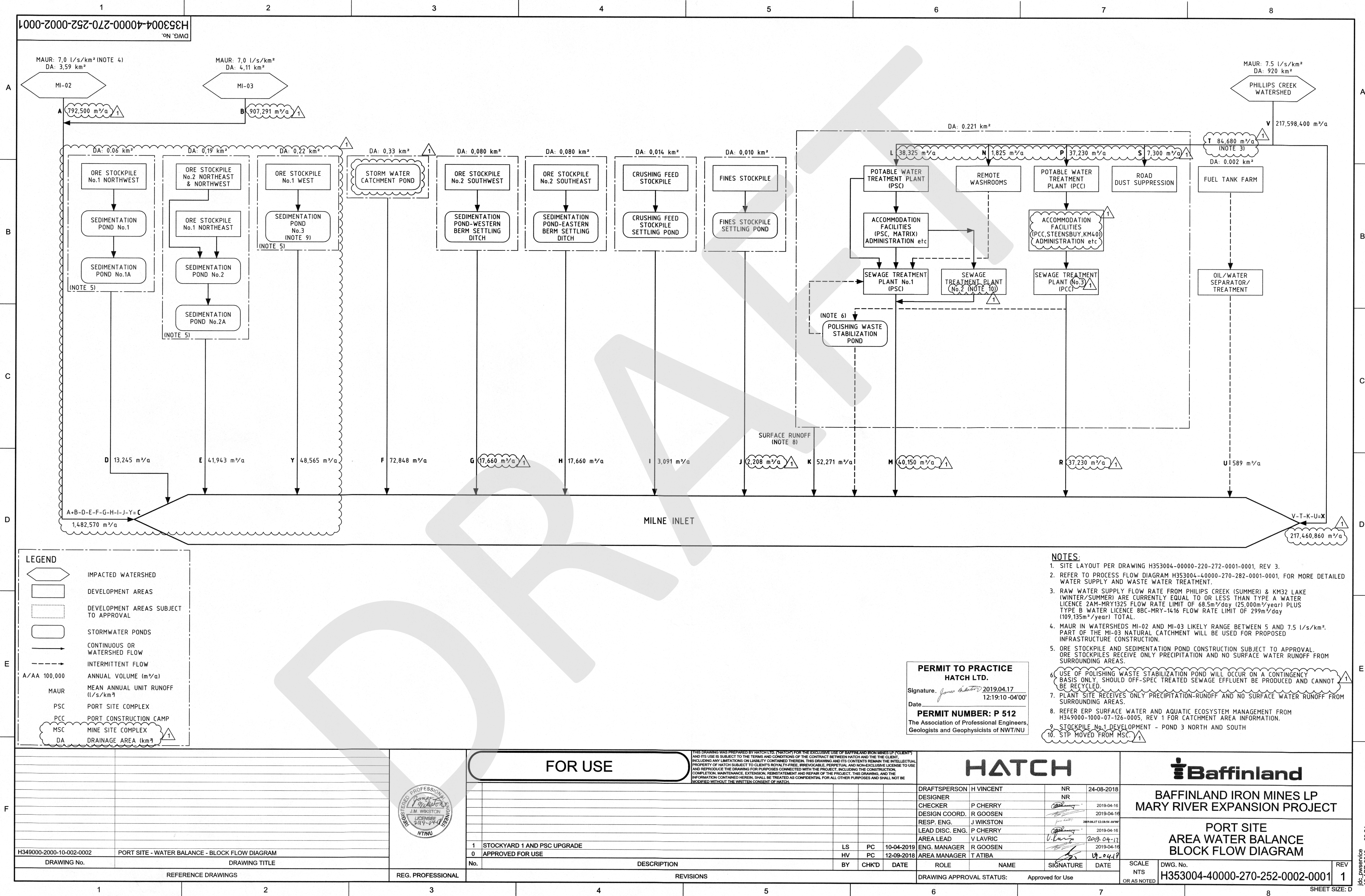




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Signature *James Mikulic*
Date *2019-04-11*

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

OVERFLOW

POND 3S
CAPACITY - 5830m³

OVERFLOW

FOR USE

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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

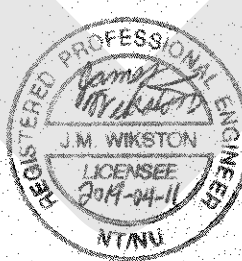
H349000-2720-75-031-0001

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

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

NR 2019-04-08

NR 2019-04-09

NR 2019-04-11

NR 2019-04-08

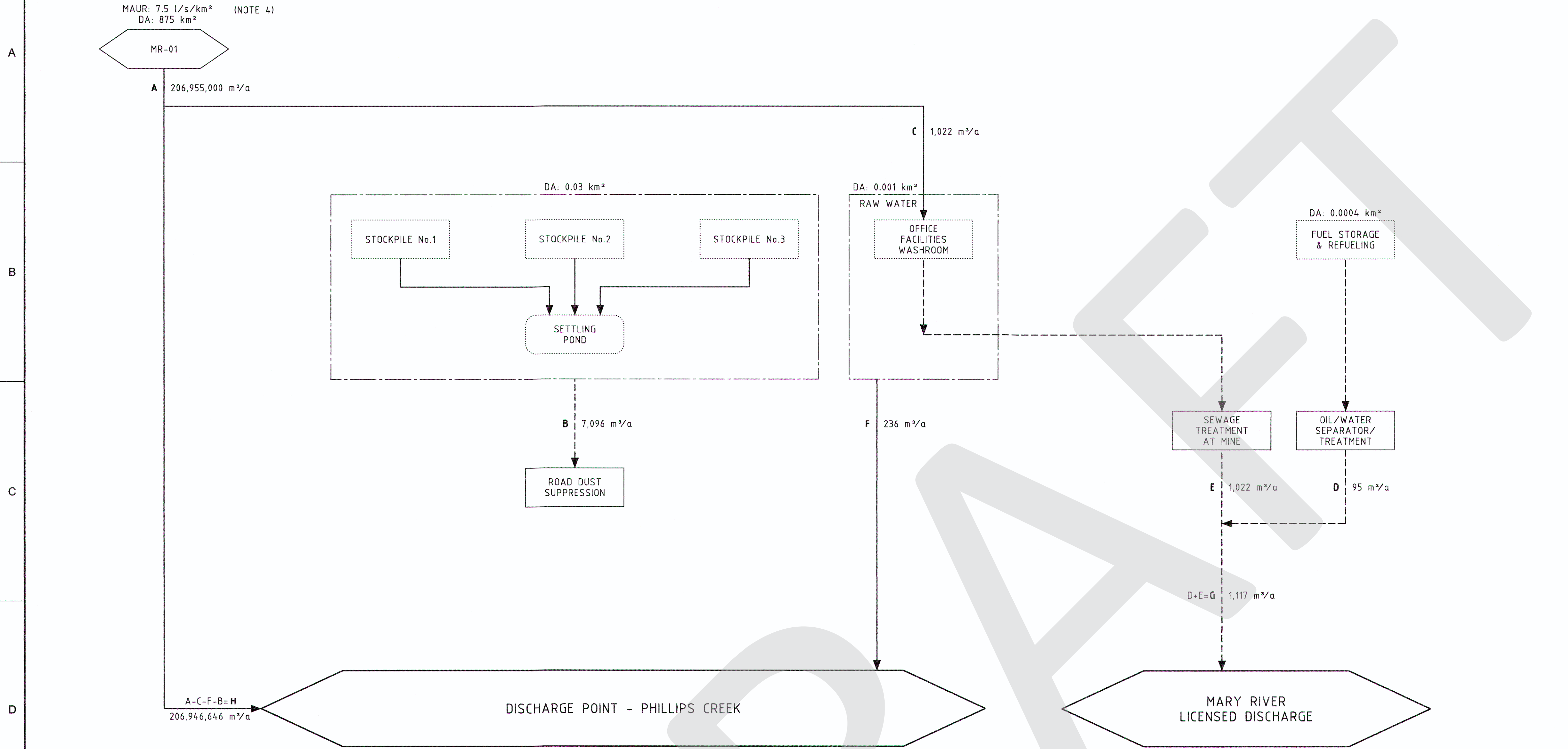
NR 2019-04-12

SCALE

NTS

OR AS NOTED

13:35
08-APR-2019
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LEGEND

IMPACTED WATERSHED

DEVELOPMENT AREAS

DEVELOPMENT AREAS SUBJECT TO APPROVAL

STORMWATER PONDS

CONTINUOUS OR WATERSHED FLOW

INTERMITTENT FLOW

A/AA 100,000

MAUR

ANNUAL VOLUME (m³/a)

MEAN ANNUAL UNIT RUNOFF (l/s/km²)

- NOTES:**
- SITE LAYOUT PER DRAWING H353004-30000-224-271-0029-0001, REV 0.
 - FLOW 'C' IS BASED ON 6 PERSONS/DAY AT THE OFFICE FACILITIES USING 50 l/day AND 250 trucks/day OF ORE USING 10 l PER TRUCK LOAD PER DAY.
 - MAUR IN WATERSHED MR-01 IS LIKELY IN THE RANGE BETWEEN 5 AND 7.5 l/s/km².
 - ORE STOCKPILE AND SETTLING POND CONSTRUCTION SUBJECT TO APPROVAL. ORE STOCKPILES RECEIVE ONLY PRECIPITATION AND NO SURFACE WATER RUNOFF FROM SURROUNDING AREAS.
 - 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.

PERMIT TO PRACTICE
HATCH LTD.

Signature *RS*

Date *2018-09-14*

PERMIT NUMBER: P 512

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						DRAFTSPERSON H VINCENT DESIGNER NR 24-08-2018 CHECKER P CHERRY 2018-09-13 DESIGN COORD. R GOOSEN 2018-09-14 RESP. ENG. P JIM 2018-09-14 LEAD DISC. ENG. P CHERRY 2018-09-13 AREA LEAD F v BILJON ENG. MANAGER D STANGER 2018-09-14 AREA MANAGER F PITTMAN 2018-09-17			BAFFINLAND IRON MINES LP MARY RIVER EXPANSION PROJECT					
									ORE STAGING RAIL SITE AREA WATER BALANCE BLOCK FLOW DIAGRAM					
DRAWING No.			DRAWING TITLE			0 APPROVED FOR USE			HV PC 12-09-2018					
			No.			DESCRIPTION			BY CHK'D DATE					
			REG. PROFESSIONAL			REVISIONS			DRAWING APPROVAL STATUS: Approved for Use					
1			2			3			4					
5			6			7			8					
REFERENCE DRAWINGS			SHEET SIZE											