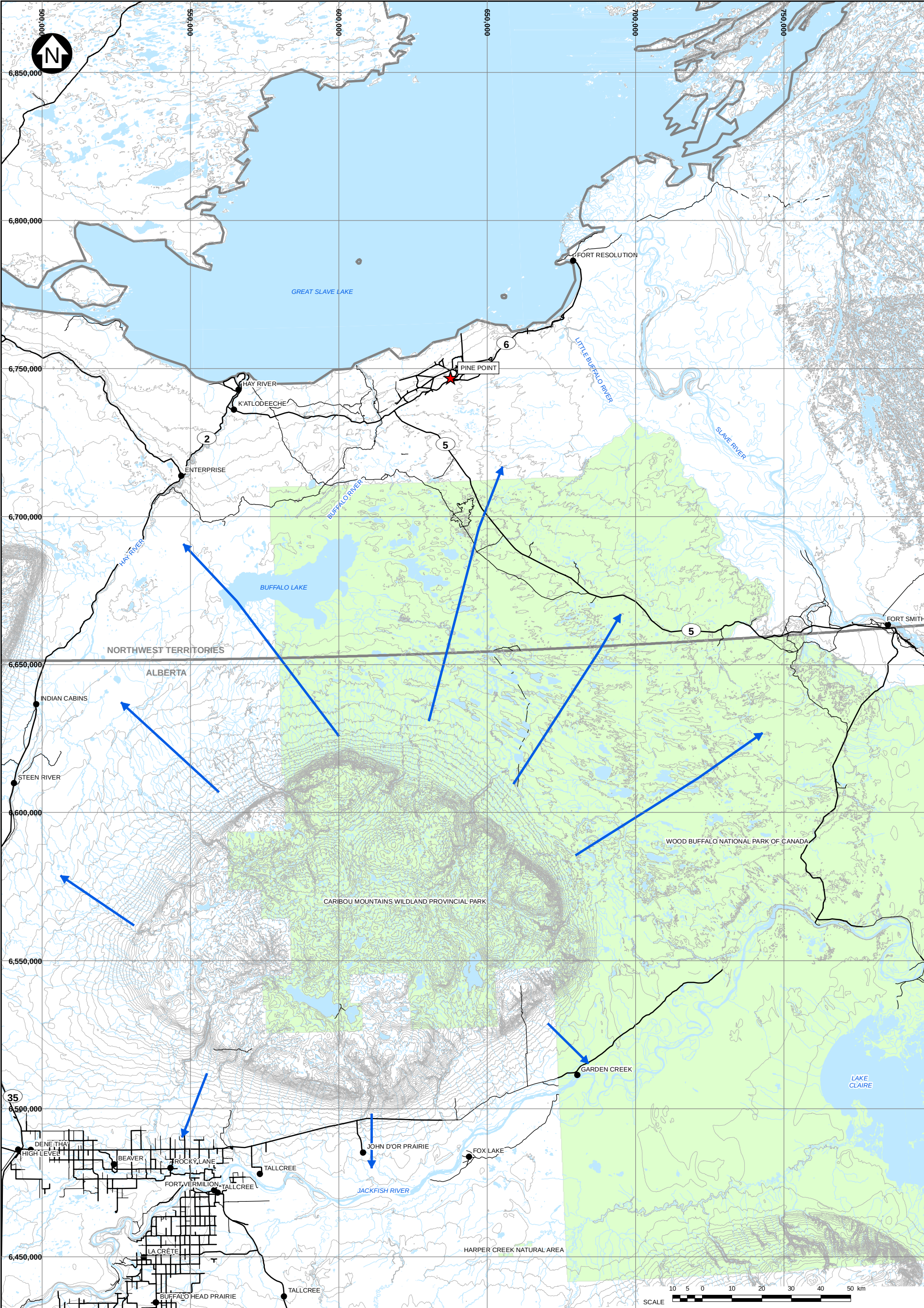




LEGEND:

●

COMMUNITY

→

REGIONAL GROUND WATER FLOW DIRECTIONS

—

ROAD

—

LIMITED-USE ROAD

—

CONTOUR

—

STREAM/RIVER/DRAINAGE

■

WATER

■

PROTECTED AREA

- NOTES:
1. BASE MAP 1:250,000 © HER MAJESTY THE QUEEN IN RIGHTS OF CANADA DEPARTMENT OF NATURAL RESOURCES (2009.) ALL RIGHTS RESERVED.

2. CO-ORDINATE GRID IS IN METRES.  
DATUM: NAD83  
PROJECTION: UTM ZONE 11

3. CONTOUR INTERVAL IS 20 METRES.

AVALON RARE METALS INC.

THOR LAKE PROJECT

PINE POINT AREA  
REGIONAL PLAN  
HYDROGEOLOGY

**Knight Piésold**  
CONSULTING

P/A NO.  
NB101-390/2

REF NO.  
NB10-00488

FIGURE 9

REV  
0

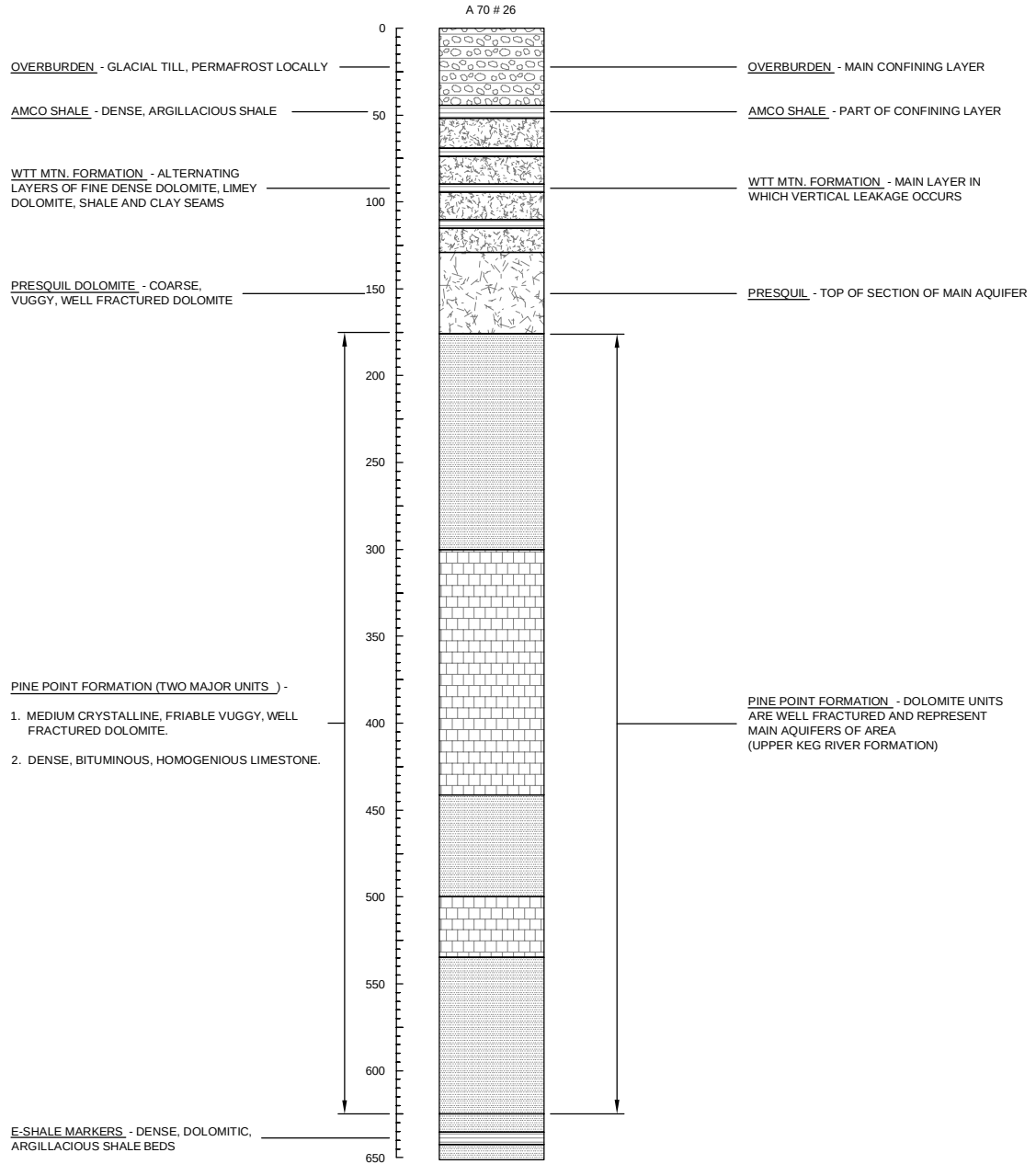
|     |         |                  |          |       |       |       |
|-----|---------|------------------|----------|-------|-------|-------|
| 0   | 03NOV10 | ISSUED WITH MEMO | MRP      | ASM   | MRP   | MRP   |
| REV | DATE    | DESCRIPTION      | DESIGNED | DRAWN | CHK'D | APP'D |

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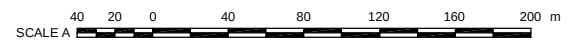
## GEOLOGICAL

## HYDROGEOLOGICAL



### NOTES:

- FIGURE BASED FROM VOGWILL, 1976, SOME PRACTICAL ASPECTS OF OPEN PIT DEWATERING AT PINE POINT



AVALON RARE METALS INC.

THOR LAKE PROJECT

**PINE POINT AREA - GEOLOGIC AND HYDROGEOLOGIC STRATIGRAPHY OF THE PRESQU'ILE BARRIER REEF COMPLEX AT THE A-70 PIT AREA**

**Knight Piésold**  
CONSULTING

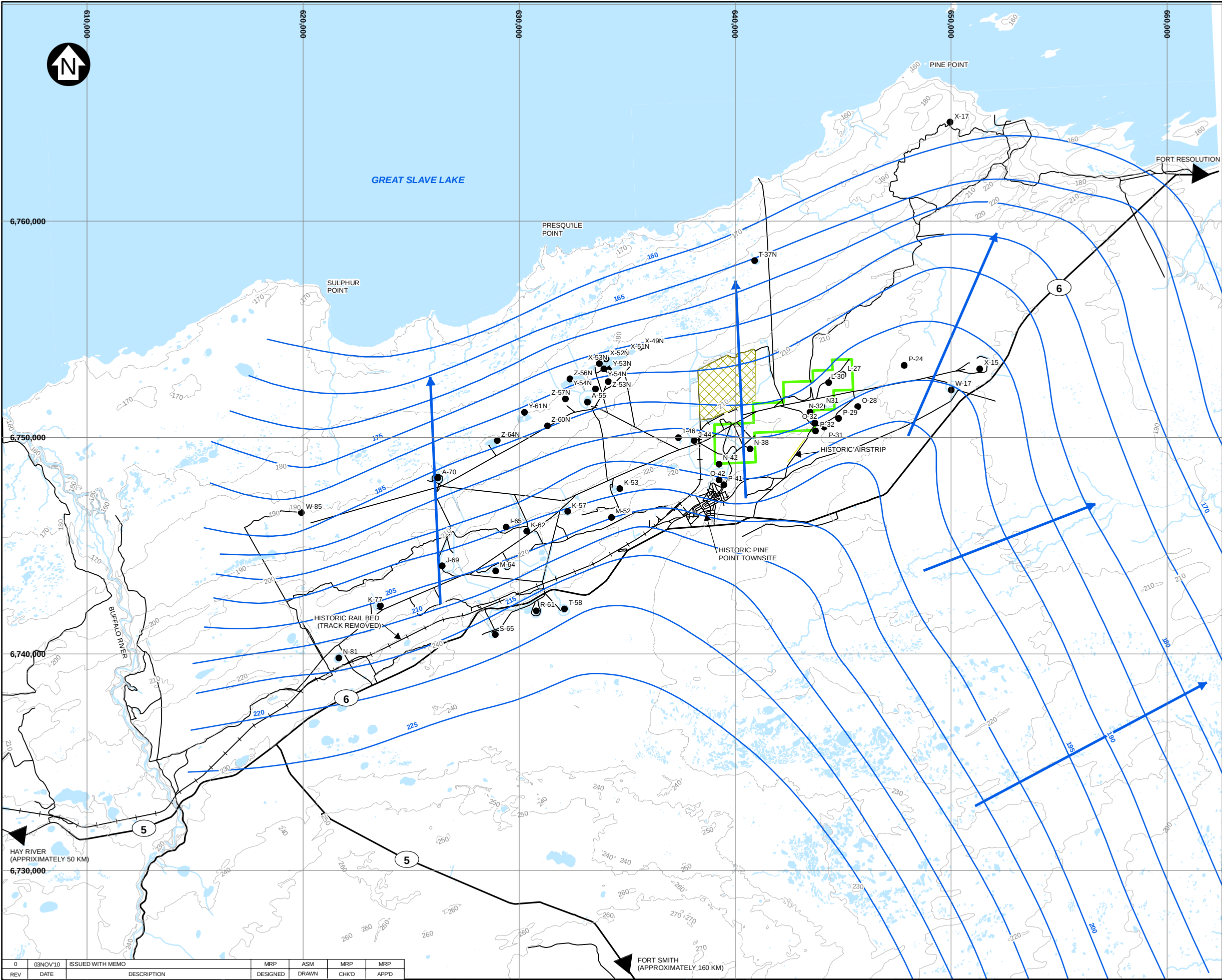
P/A NO.  
NB101-390/2

REF NO.  
NB10-00488

**FIGURE 10**

REV  
0

| REV | DATE | DESCRIPTION | DESIGNED | DRAWN | CHK'D | APP'D |
|-----|------|-------------|----------|-------|-------|-------|
|     |      |             |          |       |       |       |



**LEGEND:**

- HISTORIC OPEN PIT
- TERRITORIAL HIGHWAY
- ROAD
- RAIL BED (TRACK REMOVED)
- CONTOUR
- GROUNDWATER CONTOUR (SEE NOTE 4)
- GROUNDWATER FLOW DIRECTION
- RIVER/STREAM/DRAINAGE
- WATER
- TAILINGS AREA
- TAMERLANE CLAIM BOUNDARY
- TECK COMINCO LEASE BOUNDARY
- HISTORIC COMINCO TAILINGS

**LEGEND:**

1. BASE MAP 1:50,000 © HER MAJESTY THE QUEEN IN RIGHTS OF CANADA  
DEPARTMENT OF NATURAL RESOURCES (2009.) ALL RIGHTS RESERVED.

2. CO-ORDINATE GRID IS IN METRES.  
DATUM: NAD83  
PROJECTION: UTM ZONE 11 N

3. CONTOUR INTERVAL IS 10 METRES.

4. GROUNDWATER CONTOURS FROM STEVENSON, 1984. 'FIGURE 3 CONTOURS OF  
NATURAL PIEZOMETRIC LEVELS IN THE MAIN AQUIFER (PRESQUILLE) IN PINE POINT  
MINES PROPERTY.'

SCALE 2 1 0 2 4 6 8 10 km

AVALON RARE METALS INC.

THOR LAKE PROJECT

PINE POINT AREA  
GROUNDWATER GRADIENT PLAN

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NB101-390/2

REF NO.  
NB10-00488

REV  
0

FIGURE 11

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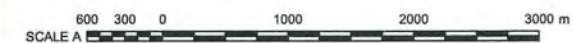
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|-----|---------|------------------|----------|-------|-------|-------|
| 0   | 03NOV10 | ISSUED WITH MEMO | MRP      | ASM   | MRP   | MRP   |
| REV | DATE    | DESCRIPTION      | DESIGNED | DRAWN | CHK'D | APP'D |





- LEGEND:**
- HISTORIC TAILINGS
  - PROPOSED WATER PONDS
  - PROPOSED HYDROMETALLURGICAL TAILINGS
  - PROPOSED ACCESS ROAD
  - HYDRO POWER SUPPLY
  - PROPOSED TAILINGS PIPELINE ROUTE
  - PROPOSED WATER SUPPLY PIPELINE
  - PROPOSED EXCESS WATER DISCHARGE ROUTE

- NOTES:**
- COORDINATE GRID IS UTM NAD83 ZONE 11N.
  - IMAGE PROVIDED BY AVALON METALS INC.



AVALON RARE METALS INC.

THOR LAKE PROJECT

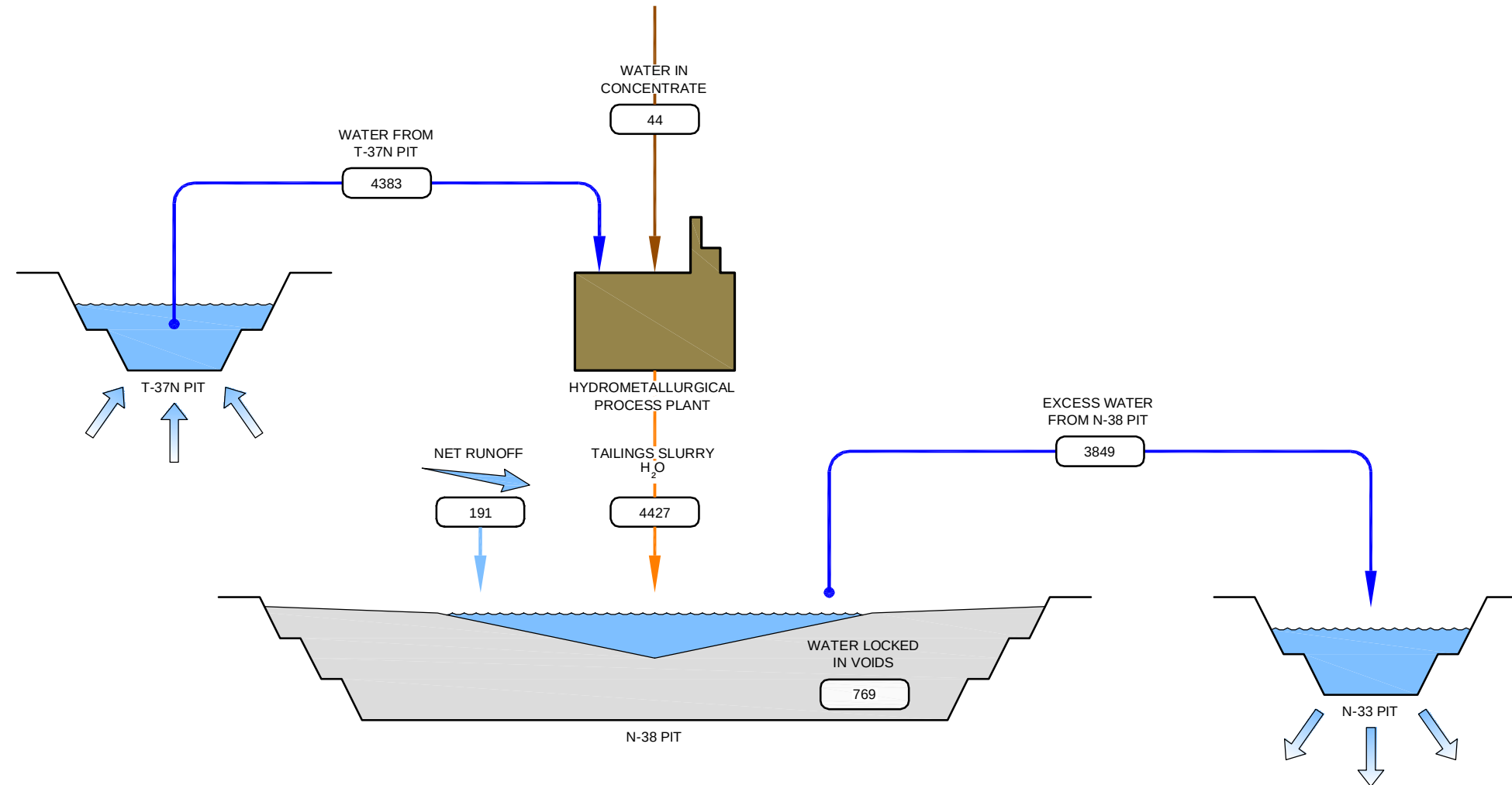
PINE POINT AREA  
HYDROMETALLURGICAL SITE  
GENERAL ARRANGEMENT

**Knight Piésold**  
CONSULTING

|                        |                       |
|------------------------|-----------------------|
| PIA NO.<br>NB101-390/2 | REF NO.<br>NB10-00488 |
| FIGURE 12              |                       |
| REV<br>0               |                       |

0 03NOV10 ISSUED WITH MEMO MRP SIR MRP MRP  
REV DATE DESCRIPTION DESIGNED DRAWN CHKD APP'D  
0 03NOV10 ISSUED WITH MEMO MRP SIR MRP MRP  
XREF FILES: MAGE FILES: ALL 385 For CA





LEGEND  
[Symbol] ESTIMATED AVERAGE FLOW (m³/DAY)

NOTES  
1. ESTIMATES ARE FOR AVERAGE PRECIPITATION CONDITIONS AND DO NOT INCLUDE EXTREME PRECIPITATION EVENTS.

|                                                         |            |           |
|---------------------------------------------------------|------------|-----------|
| AVALON RARE METALS INC.                                 |            |           |
| THOR LAKE PROJECT                                       |            |           |
| PINE POINT AREA<br>PRELIMINARY WATER BALANCE FLOW SHEET |            |           |
| Knight Piésold<br>CONSULTING                            | DATE: 2015 | REVISION: |
|                                                         | FIGURE 13  | 1         |

|            |           |            |           |
|------------|-----------|------------|-----------|
| DATE: 2015 | REVISION: | DATE: 2015 | REVISION: |
| DATE: 2015 | REVISION: | DATE: 2015 | REVISION: |