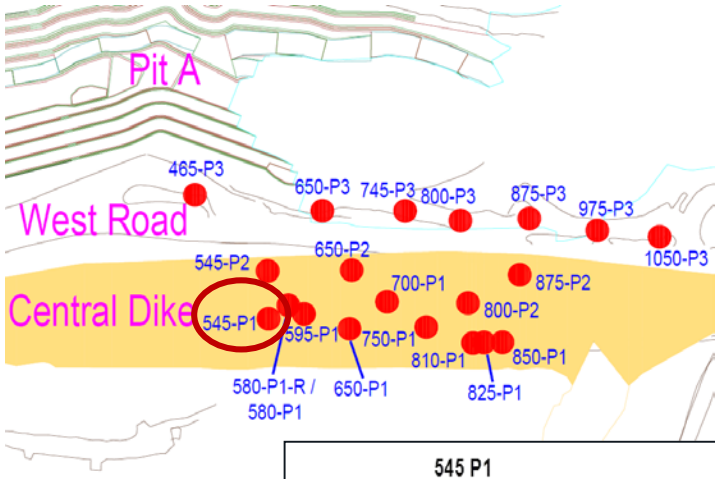
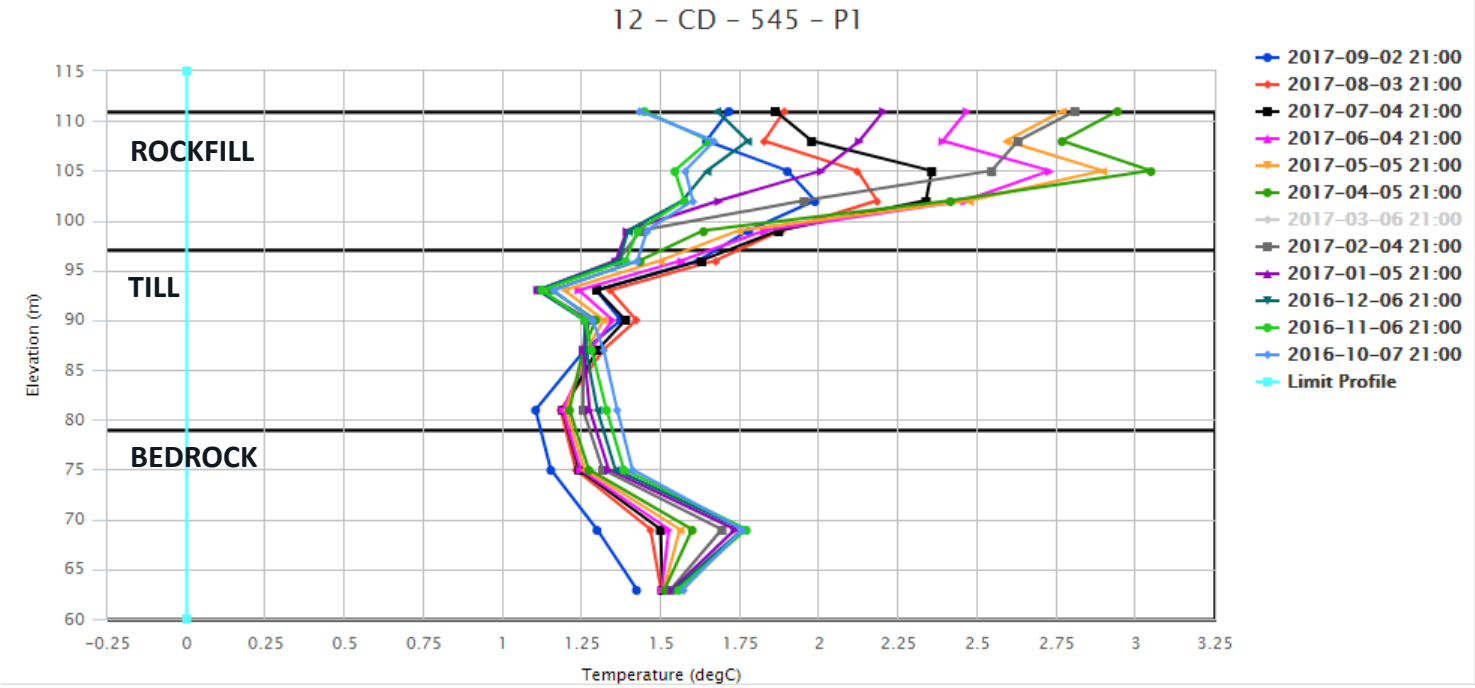
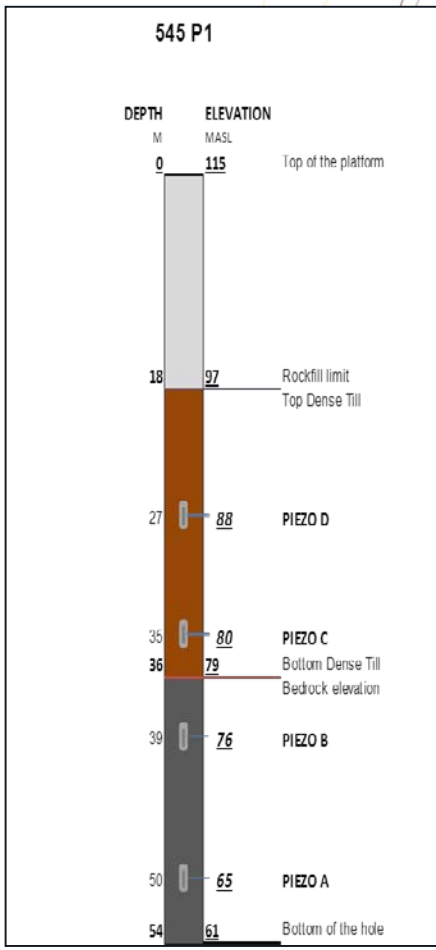
THERMISTOR 545-P1

- 545-P1 thermistor is showing the same temperature profile than last year. Warmer peak observed at elevation 70m since the installation.
- Temperature in the bedrock/till unit is in between 1.1 and 1.75º C.

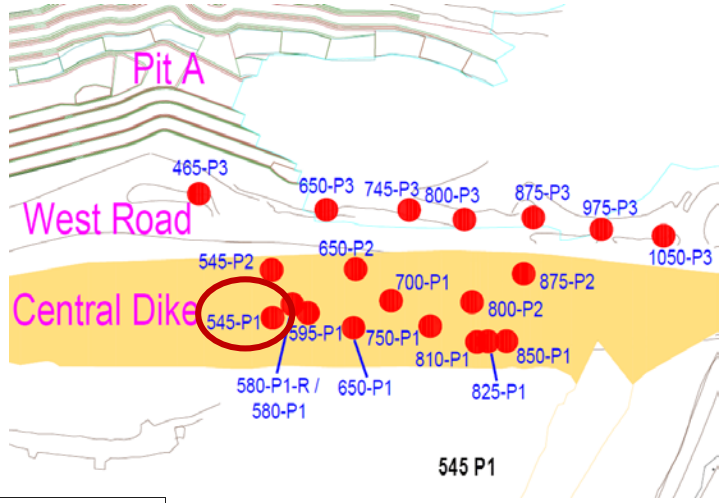


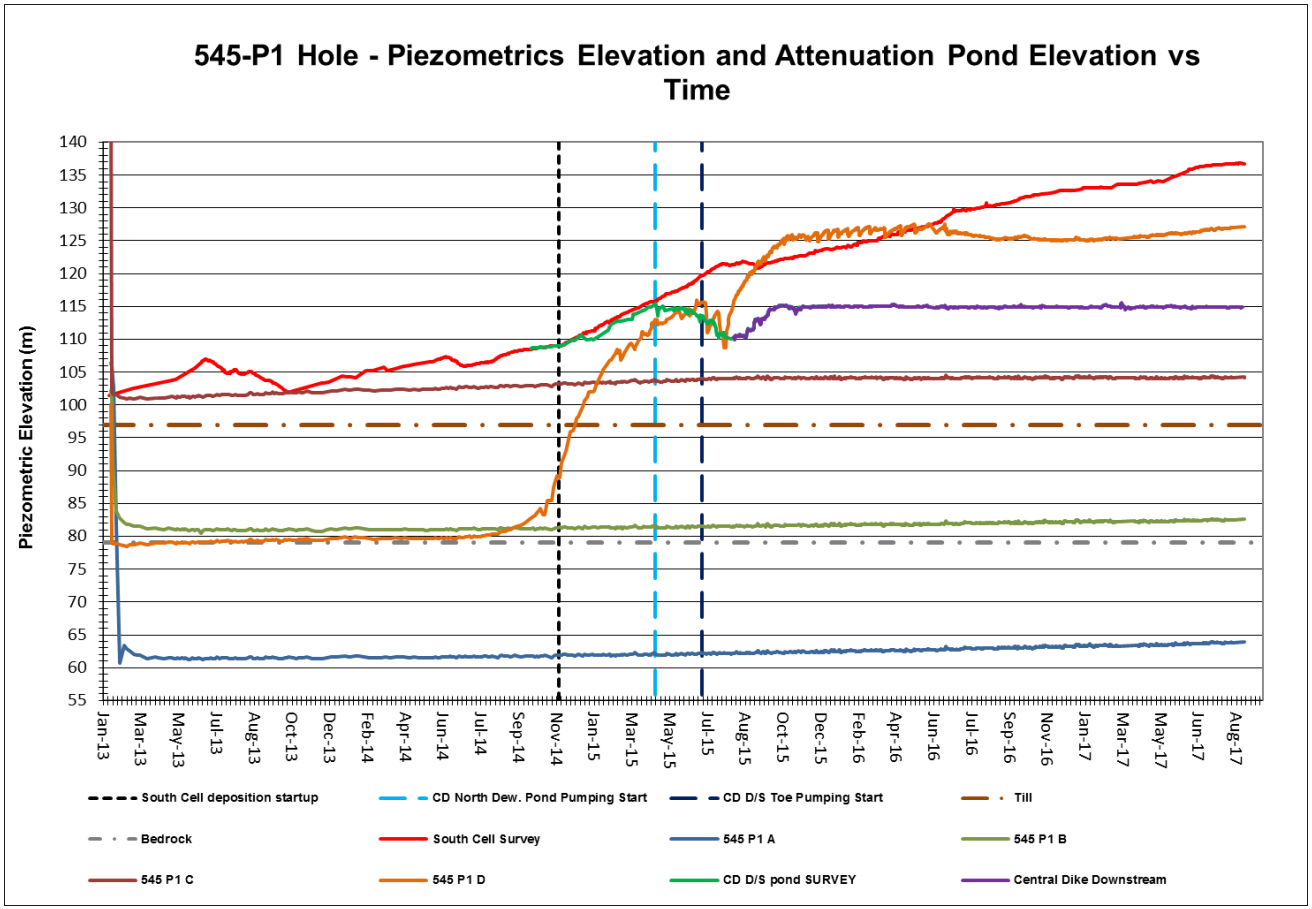


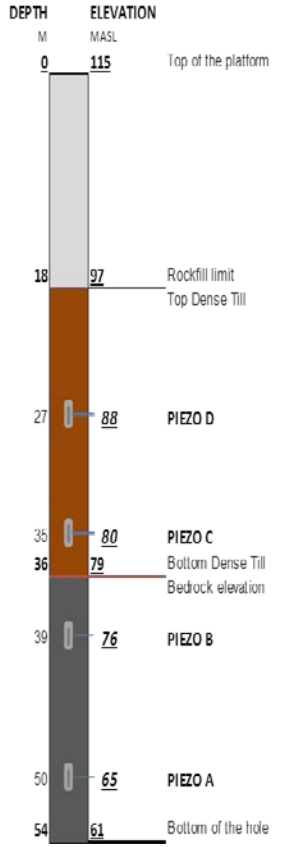


PIEZOMETER 545-P1

- Piezometer D still constant, no change since August 2015
- Piezometer A is recording suction since its installation
- Identification of the piezo on the field is confusing. Interpretation of the readings must be done with precaution.

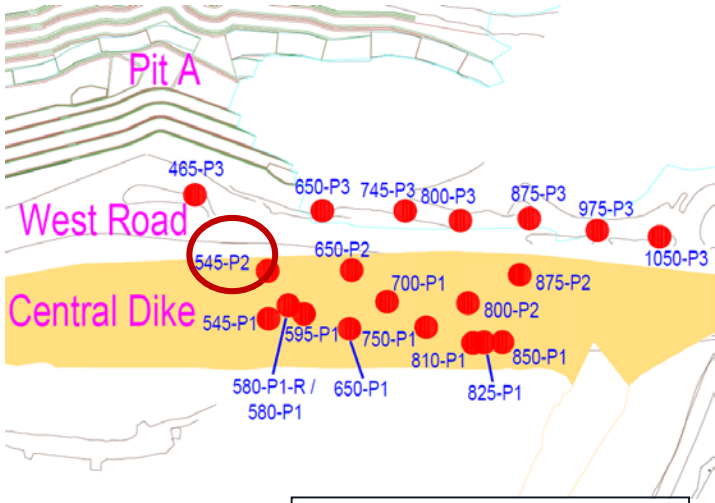


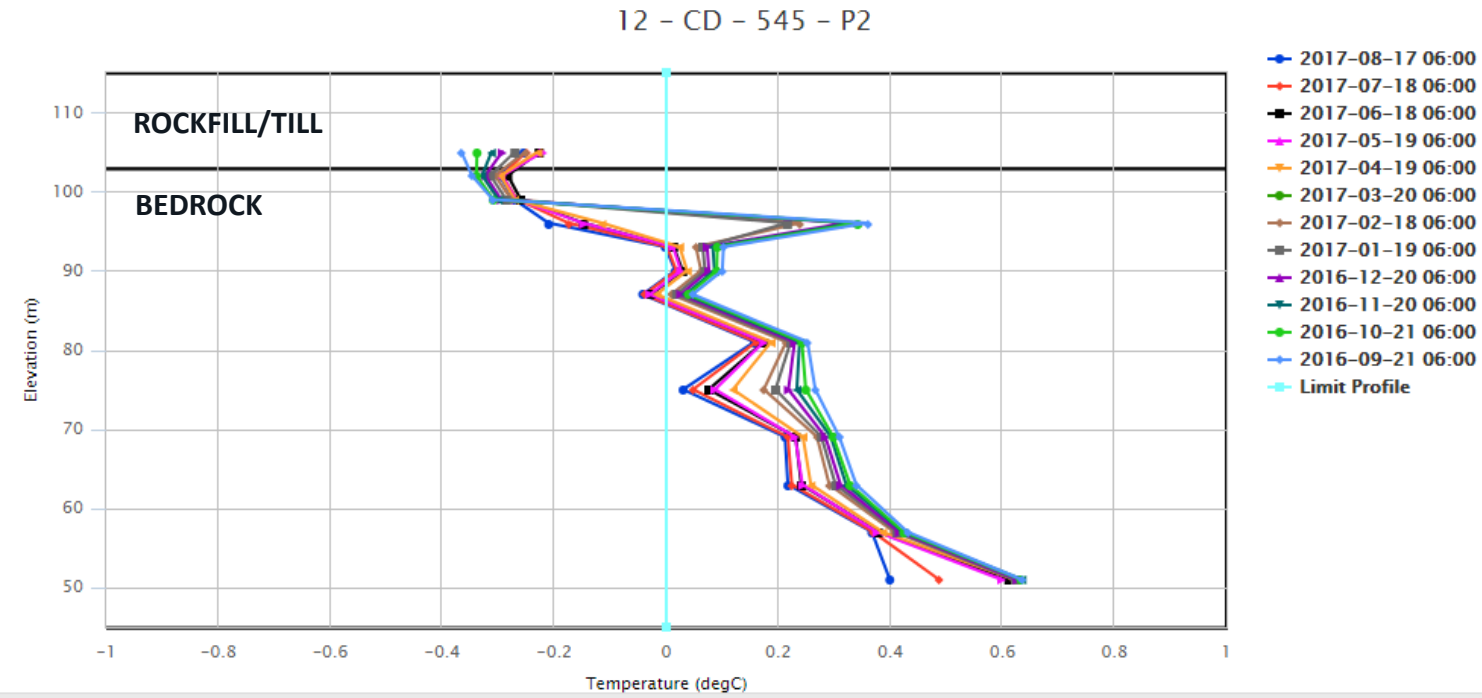


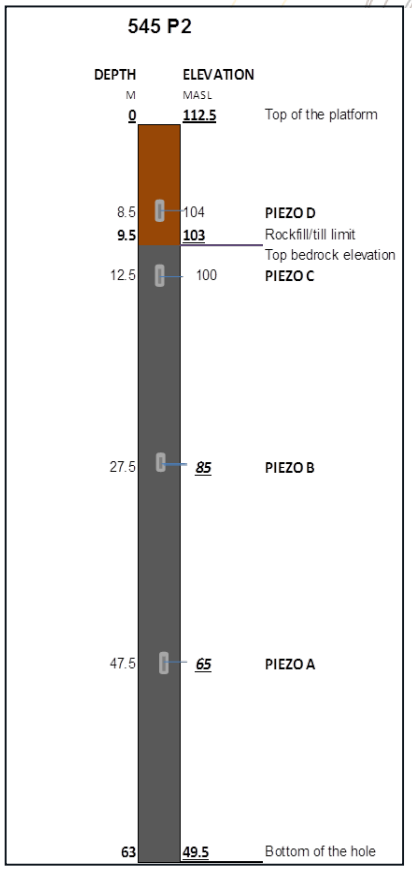


THERMISTOR 545-P2

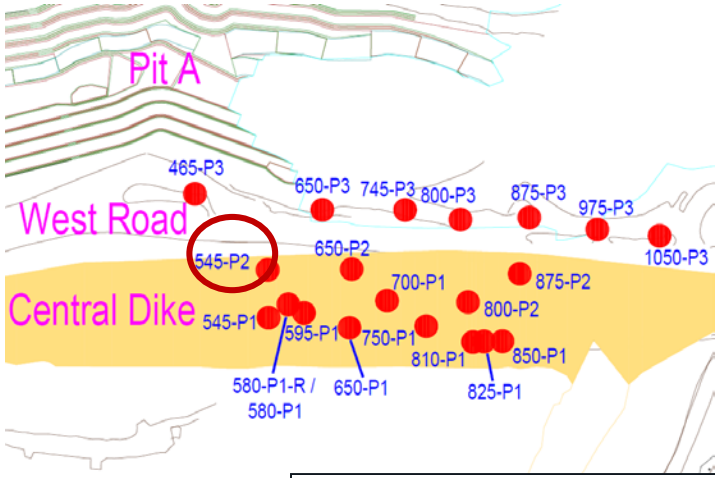
- Temperature peak observed on the bead located at El. 96m from January 2015 to March 2017;
- In January 2015 readings was switched from manual to automatic;
- In March 2017, AVW multiplexer was changed and temperature profile was back to its original profile;
- Investigation still on going – interpretation of data must be done with precaution.



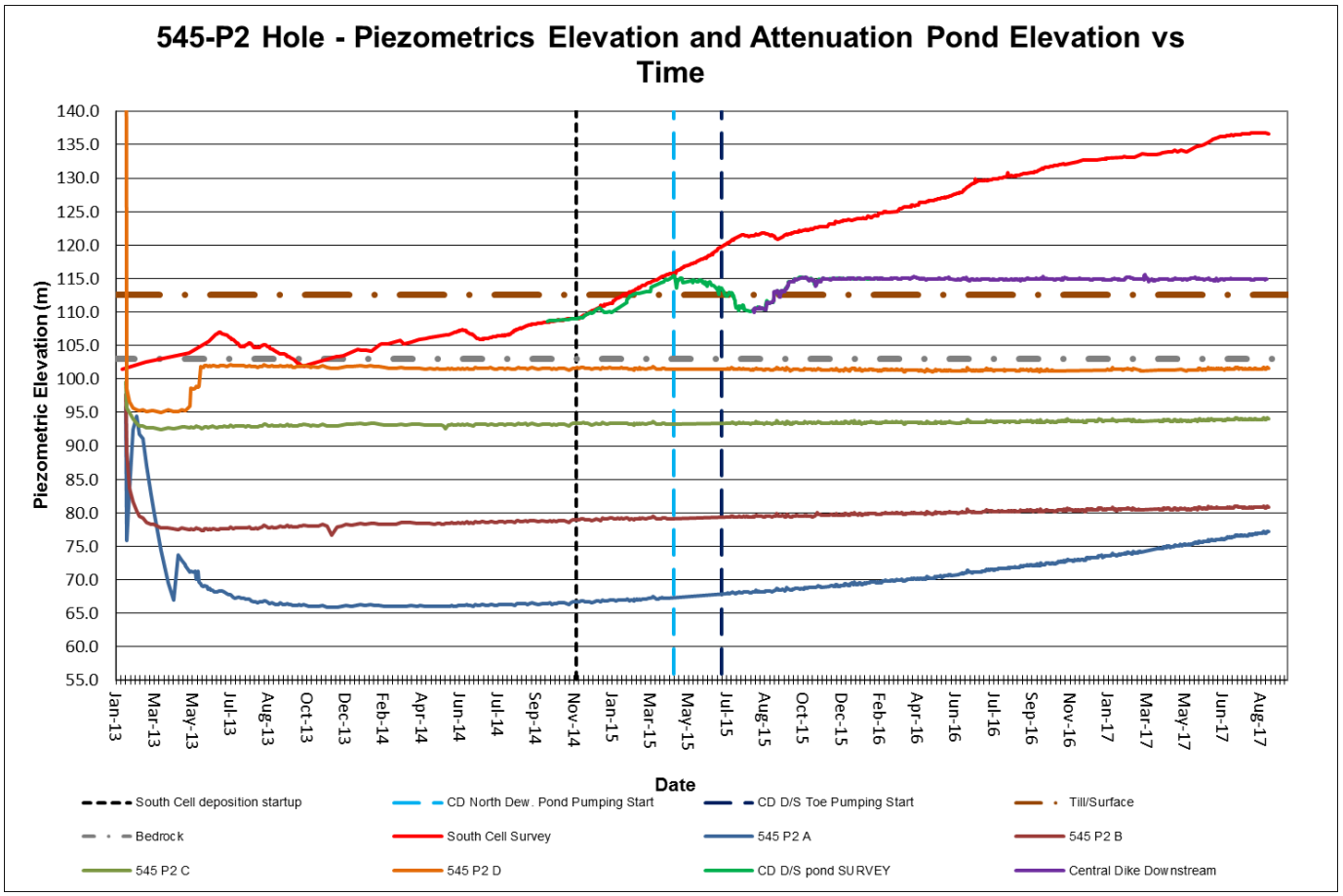


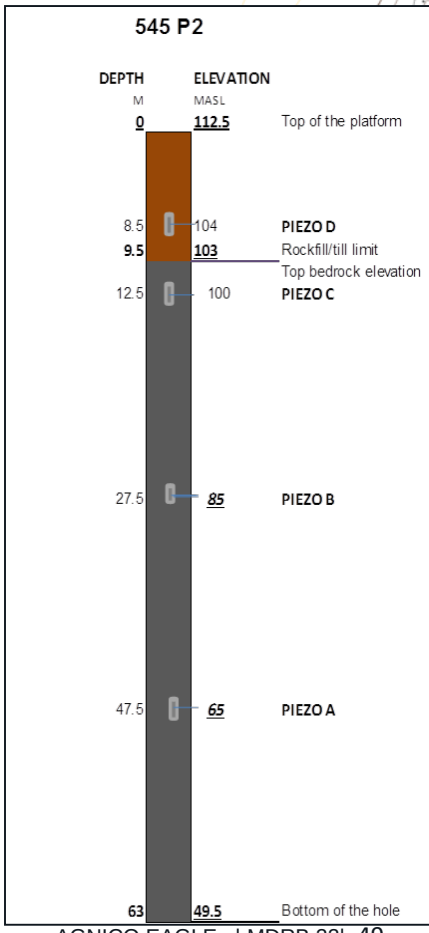


PIEZOMETER 545-P2



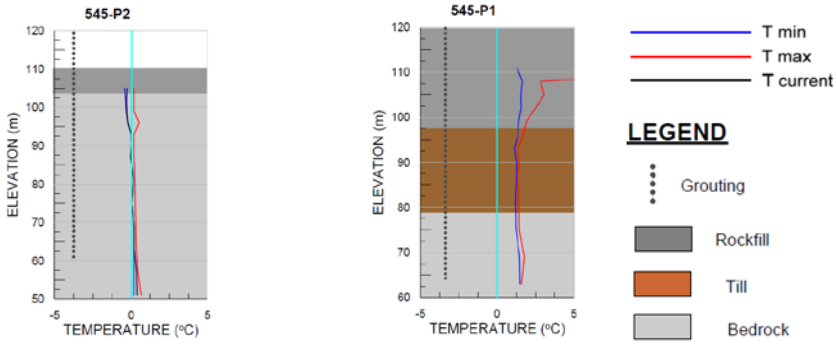
- Piezometer A reading is increasing with South Cell level
- Other piezometers are recording suction

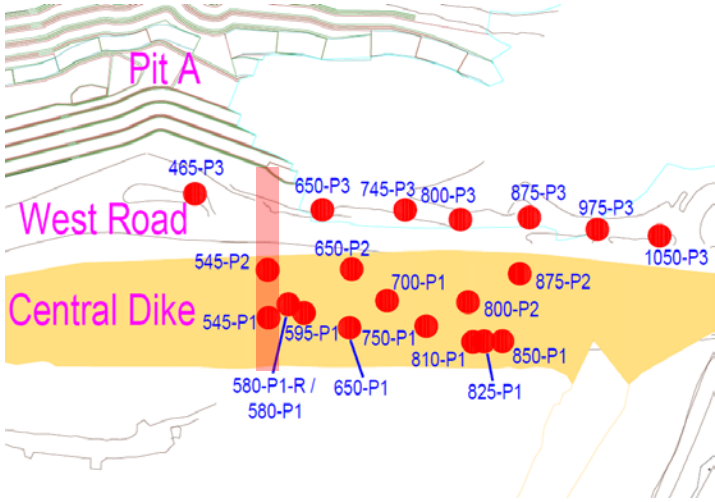




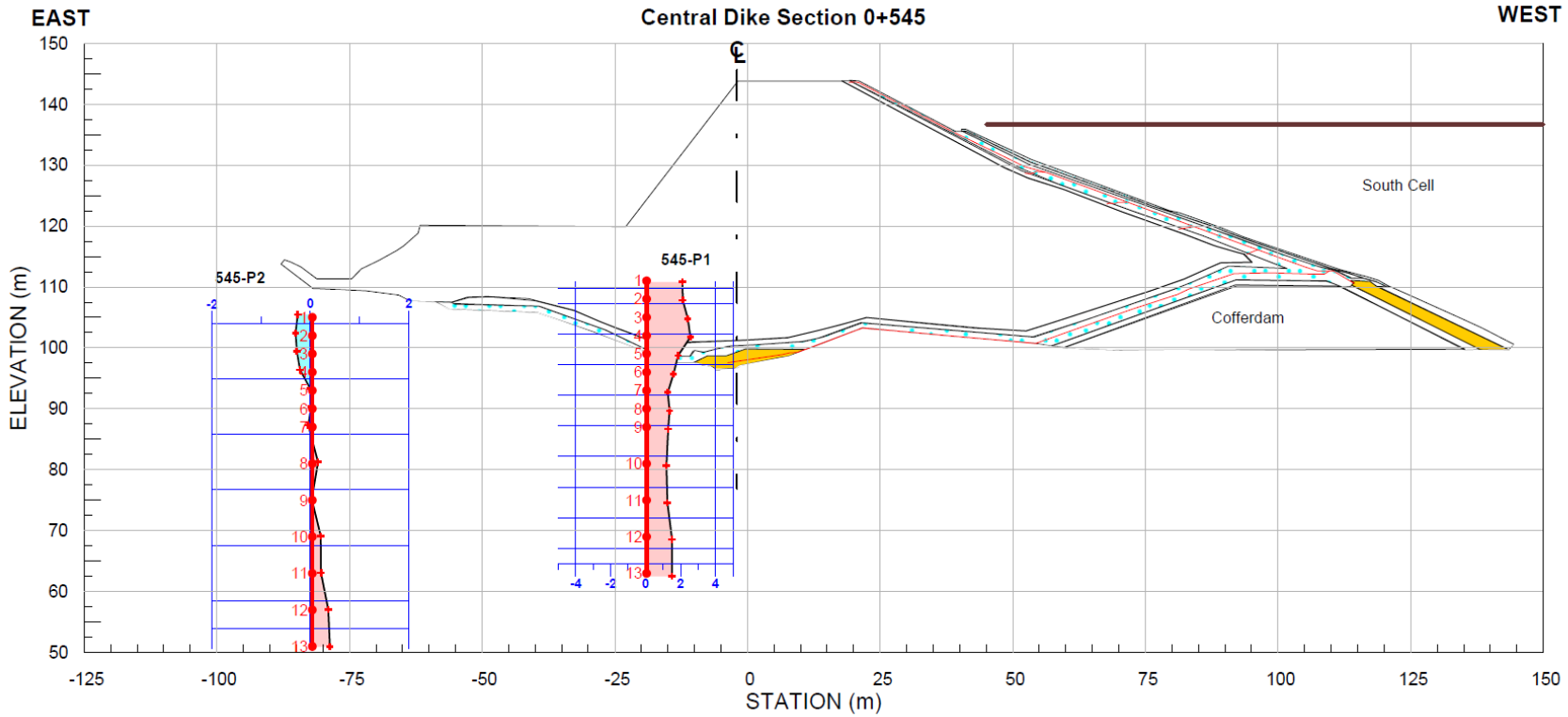
SECTION 545

THERMISTOR READINGS FROM AUGUST 2016 - 2017

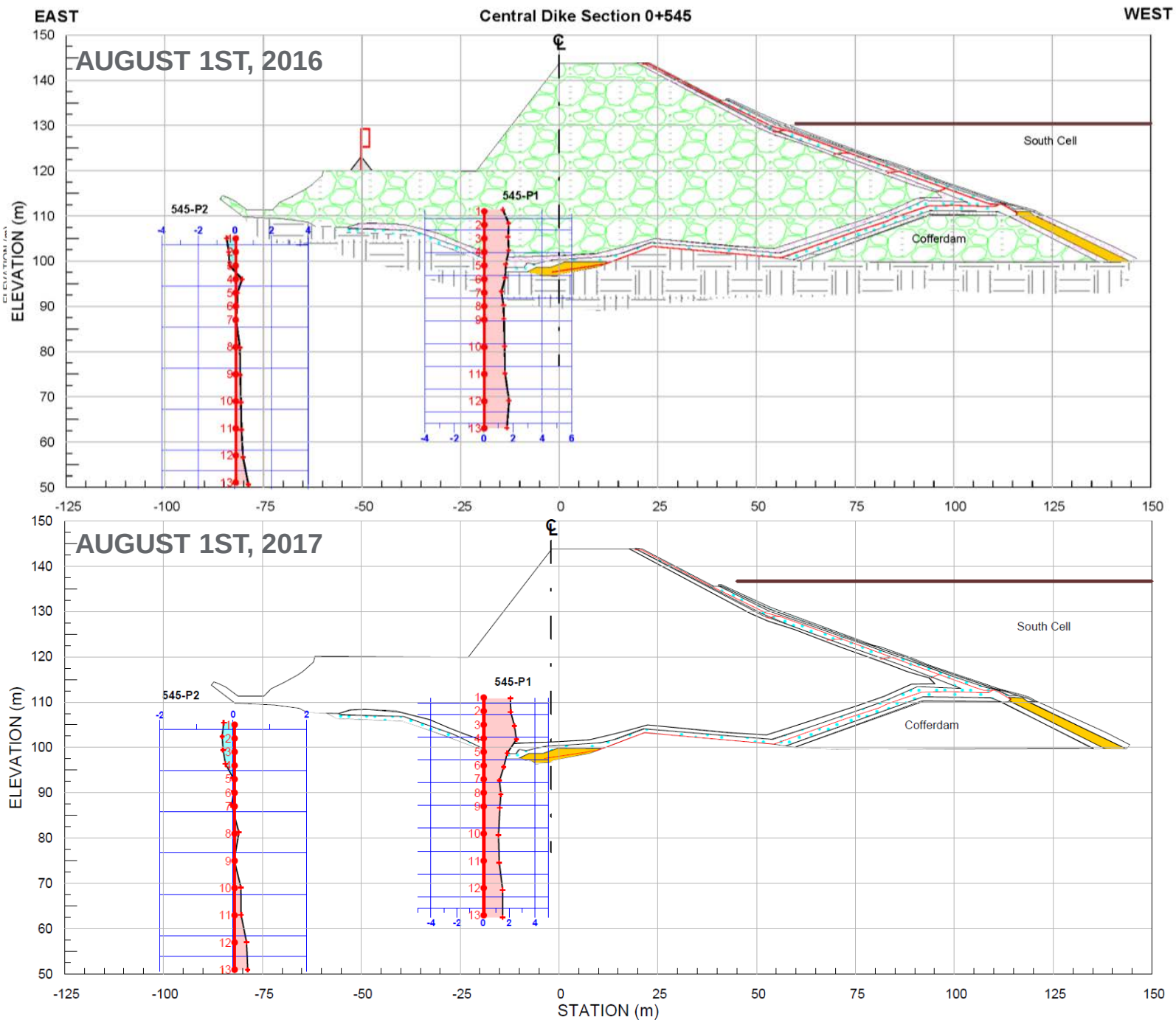




THERMISTOR READINGS AUGUST 1ST, 2017

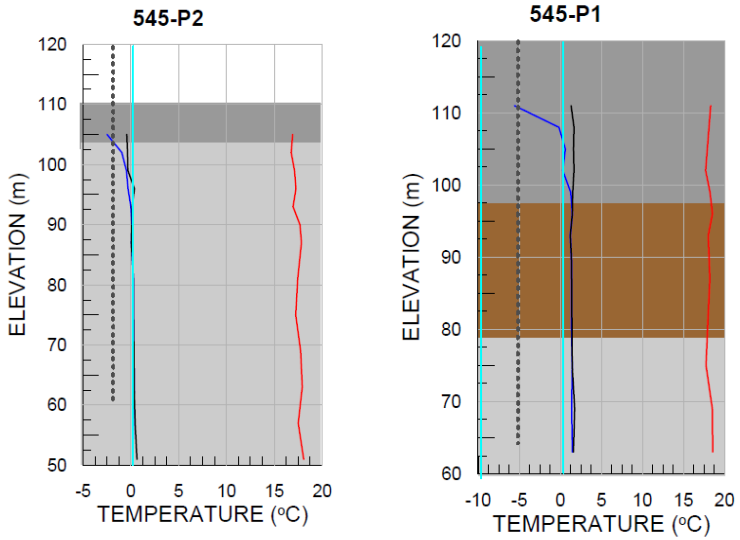


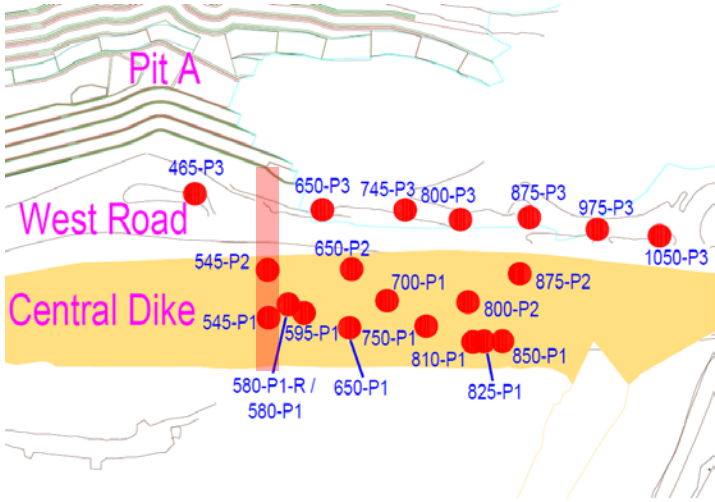
SECTION 545


EAST
Central Dike Section 0+545
WEST
AUGUST 1ST, 2016
545-P2
545-P1
South Cell
Cofferdam
ELEVATION (m)
AUGUST 1ST, 2017
545-P2
545-P1
South Cell
Cofferdam
ELEVATION (m)
STATION (m)

SECTION 545

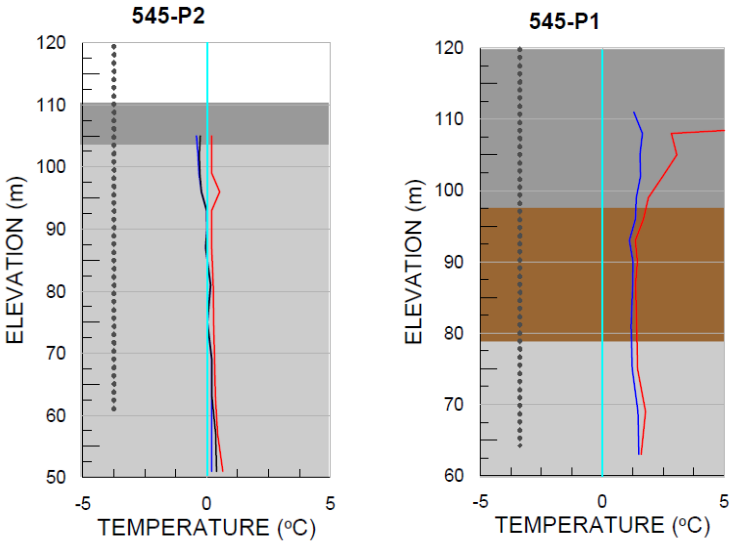
THERMISTOR READINGS FROM AUGUST 2015 - 2016

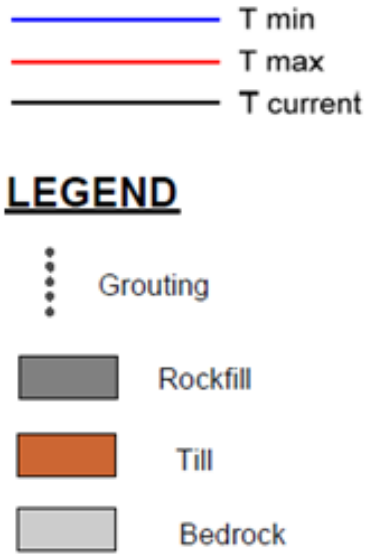




Max temperature in 2015-2016 was more around 2°C

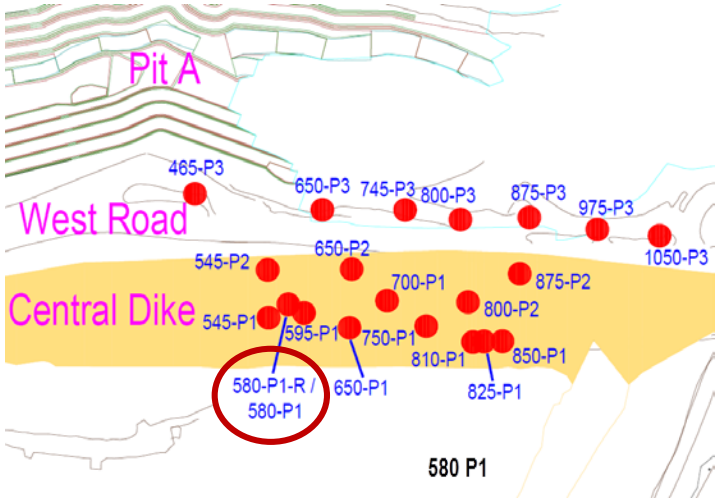
THERMISTOR READINGS FROM AUGUST 2016 - 2017

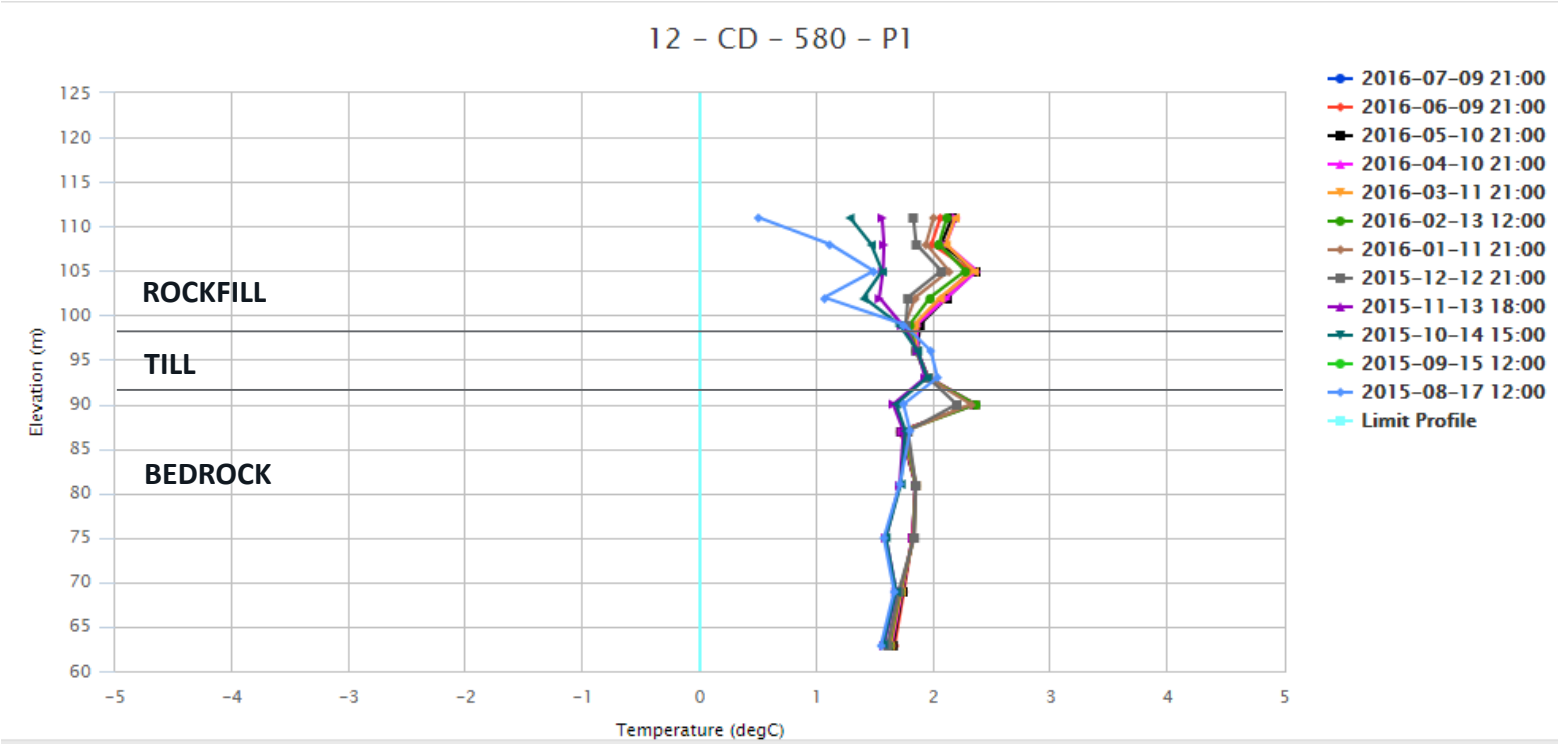


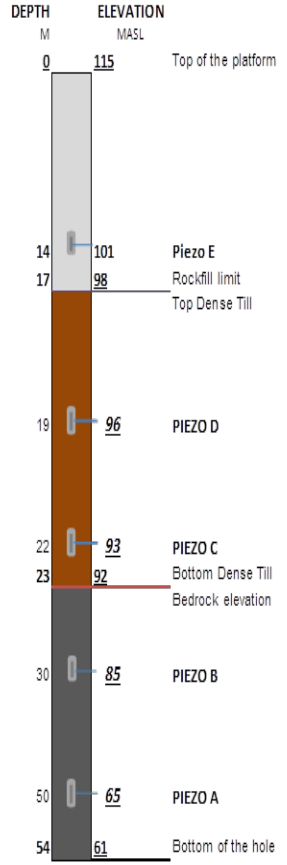


580-P1

- Piezometer and thermistance readings are not functional since July 2016
- Replacement hole 580-P1R drilled during 2017 campaign

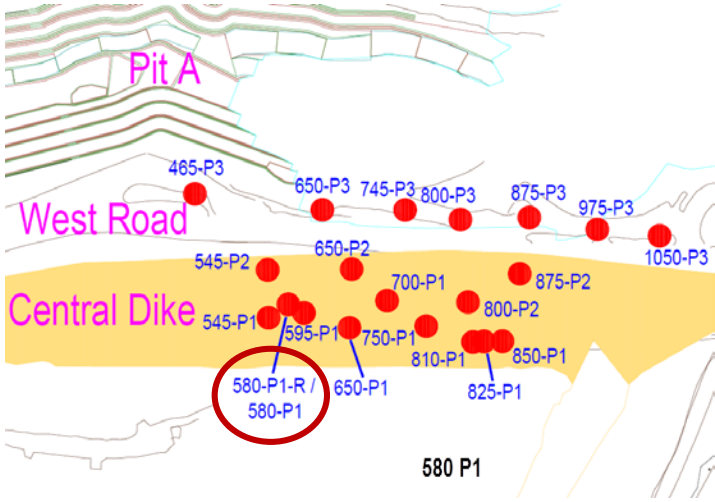


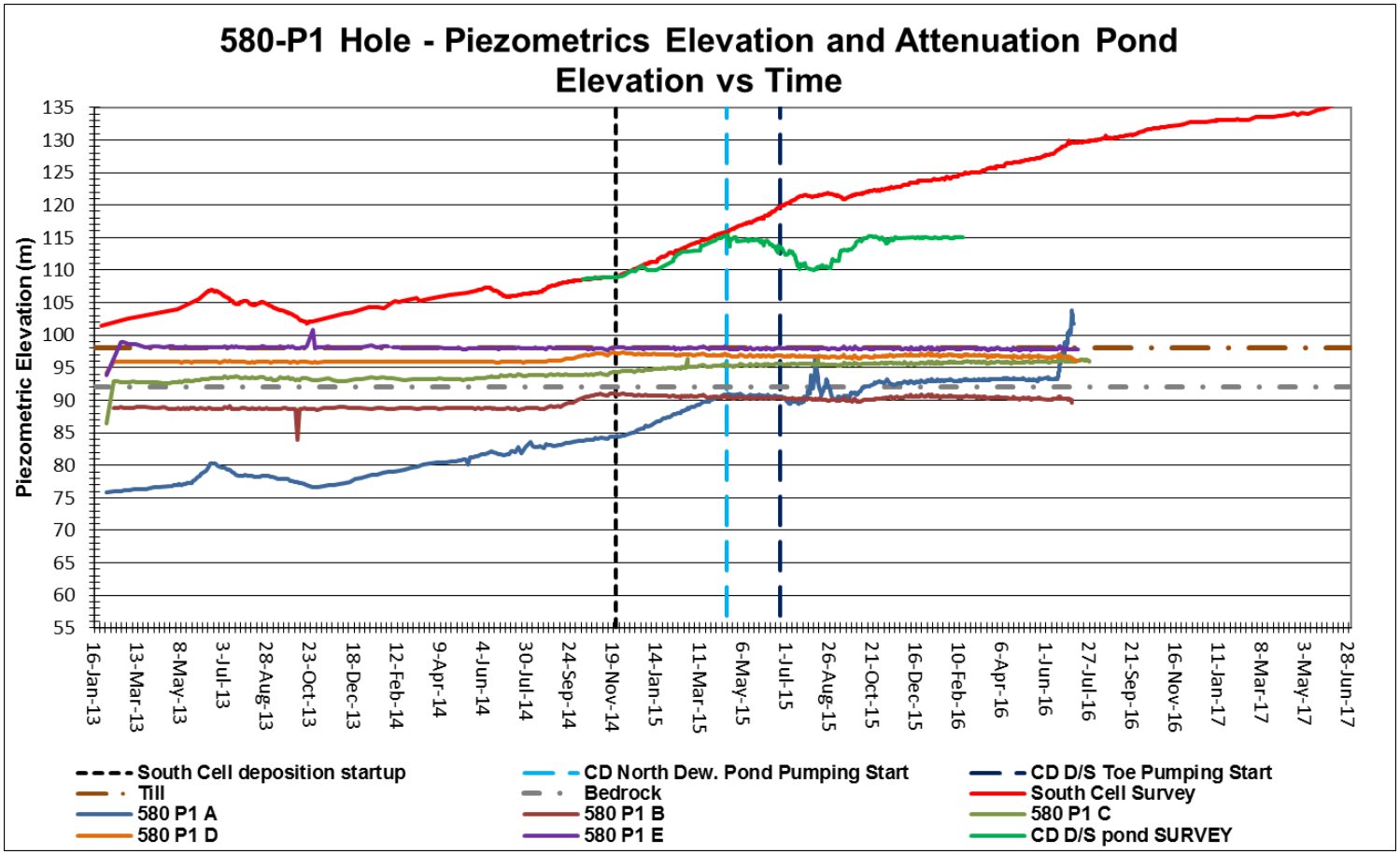


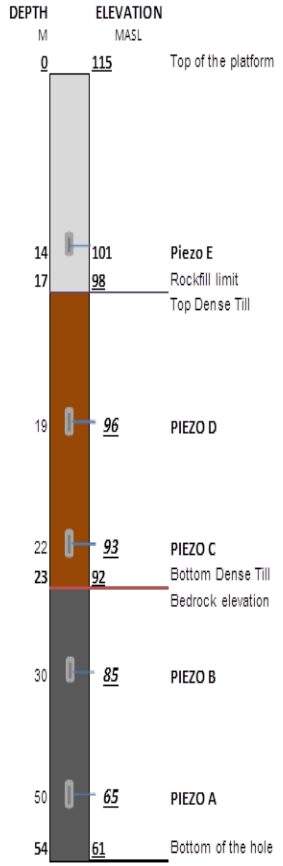


580-P1

- Piezometer and thermistor readings are not functional since July 2016
- Replacement hole 580-P1R drilled during 2017 campaign

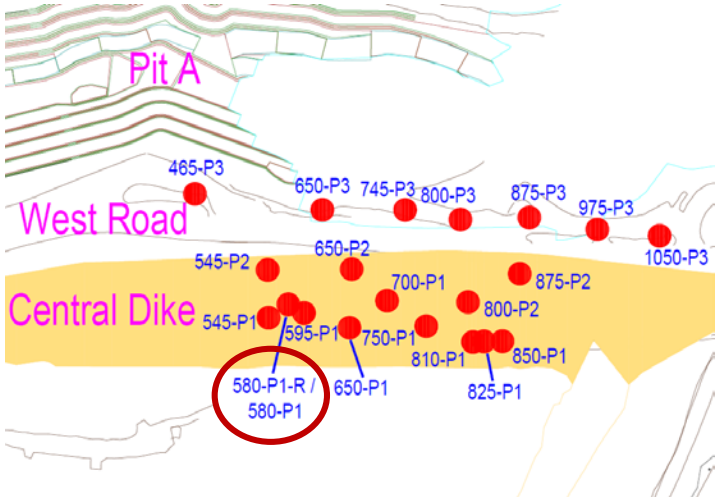


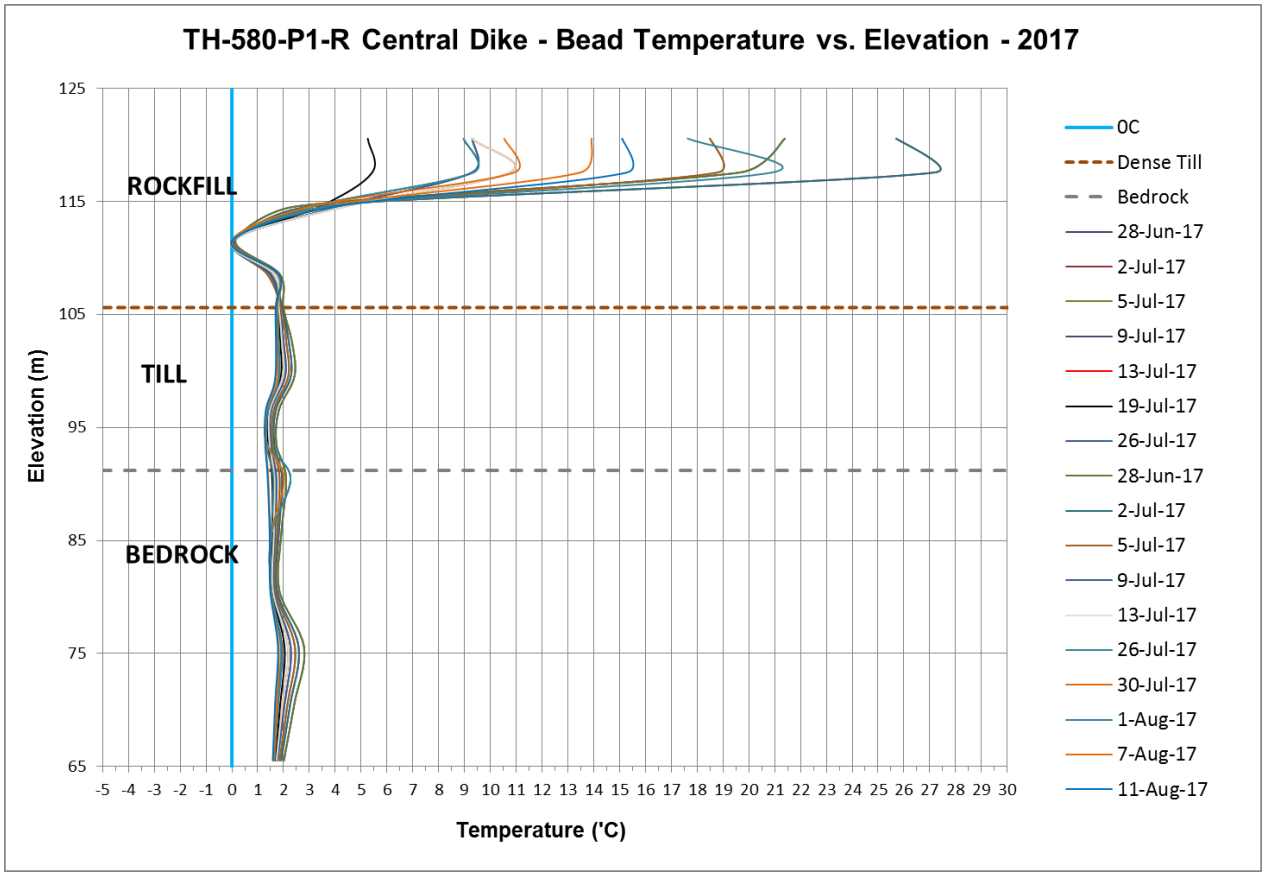


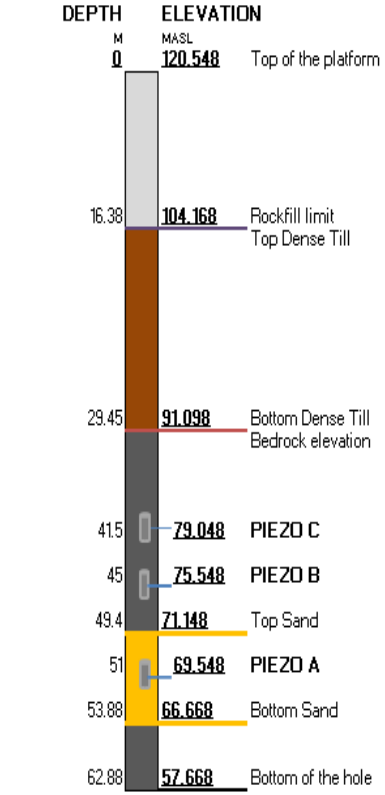


THERMISTOR 580-P1R

- Stabilisation in progress
- Temperature readings above 0ºC
- Simillar temperature readings range than 580-P1

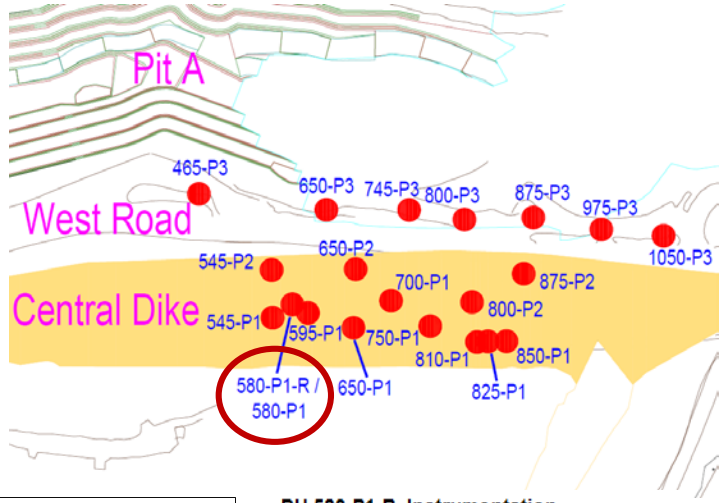


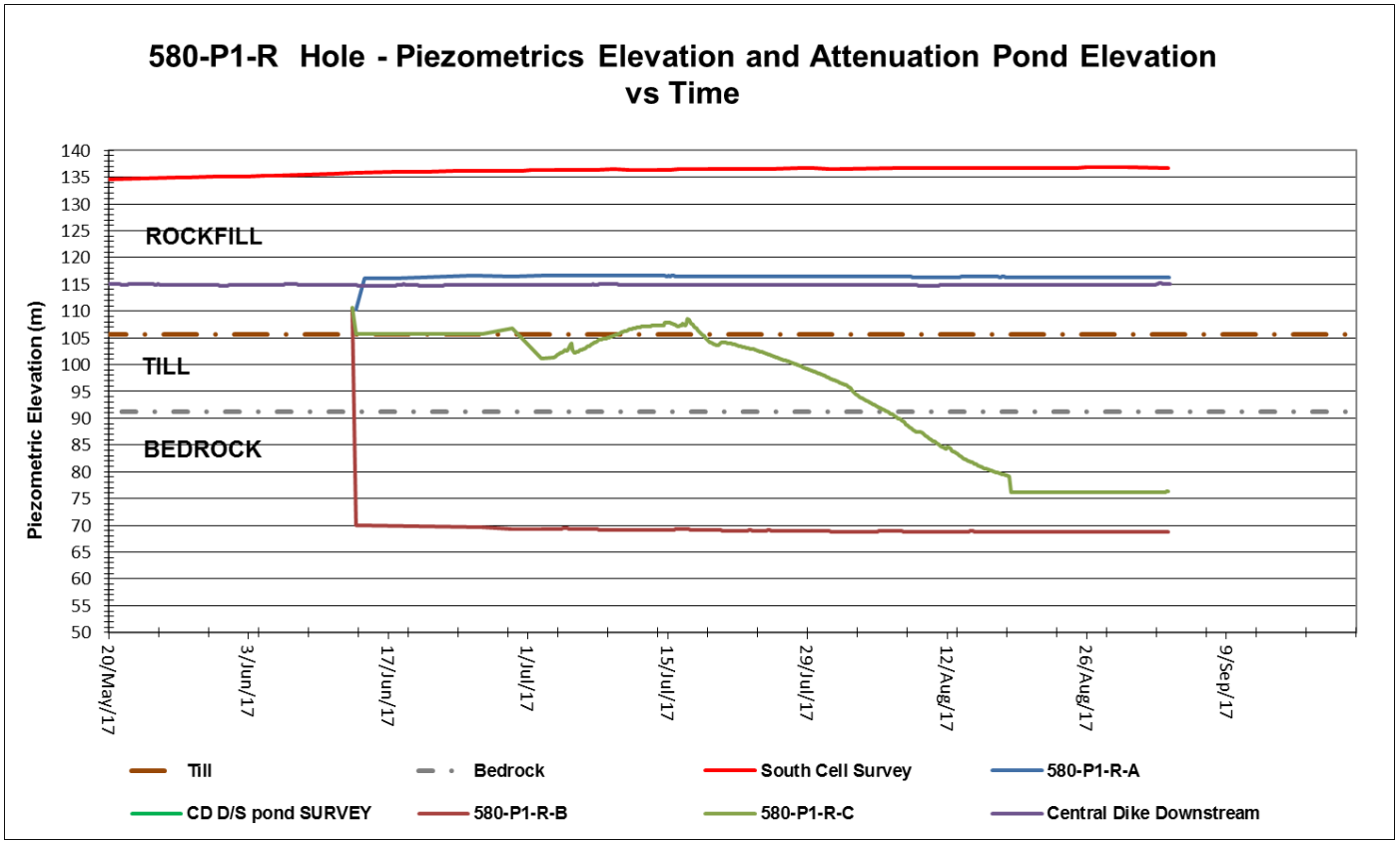


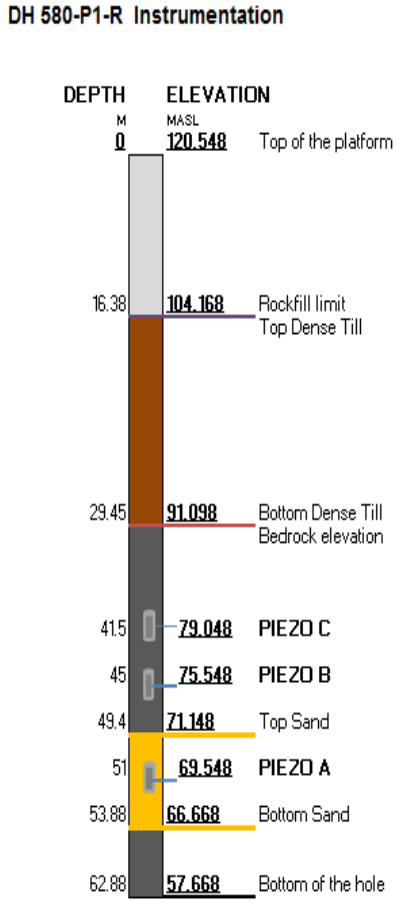


PIEZOMETER 580-P1R

- Piezo A is located in a sand layer and pressure readings are following the D/S pond regime
- Decrease in piezometric elevation ongoing for Piezo B
- Small data GAP

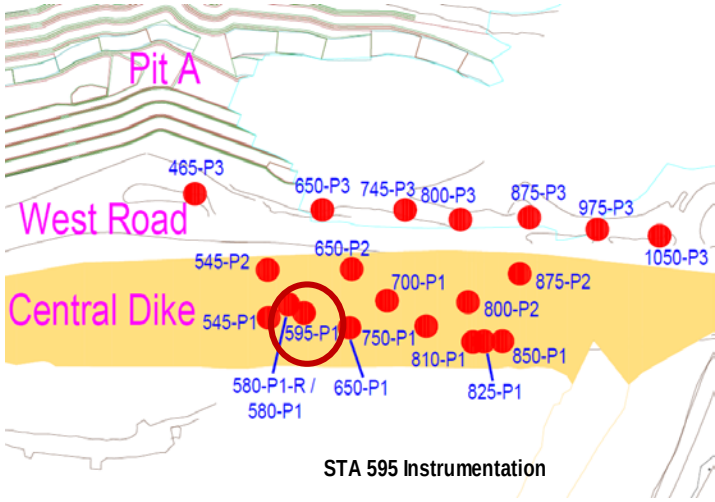




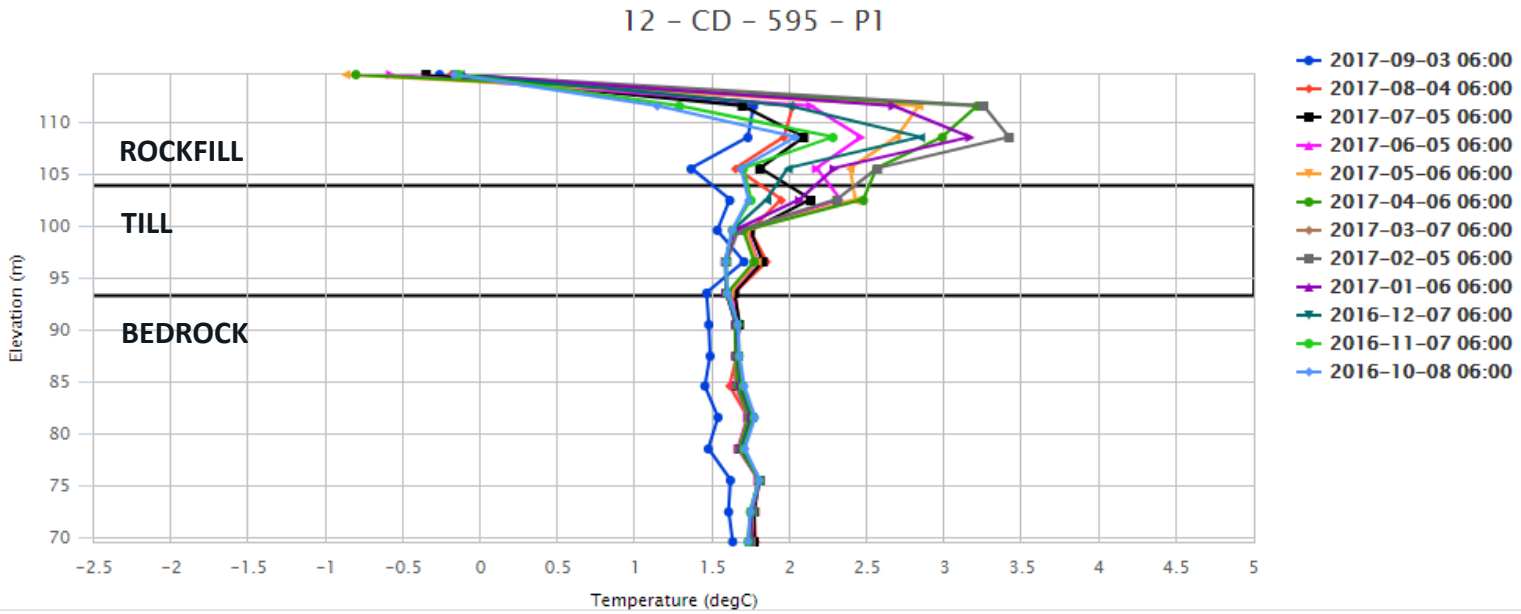


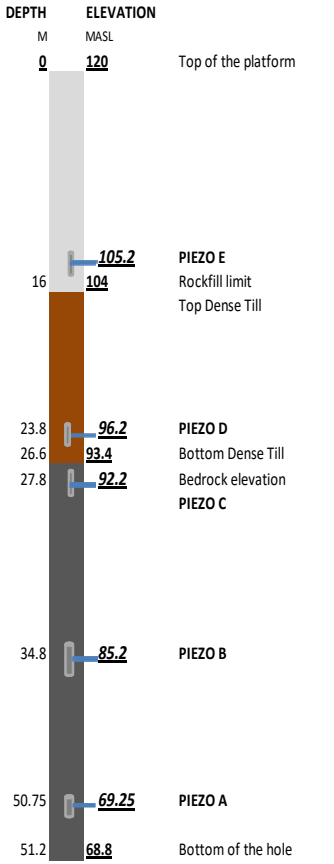
THERMISTOR 595-P1

- Temperature in the bedrock/till unit is in between 1.5 and 1.75º C.
- Glitch of 0.25º C could be caused by the automatization works done in August 2017.



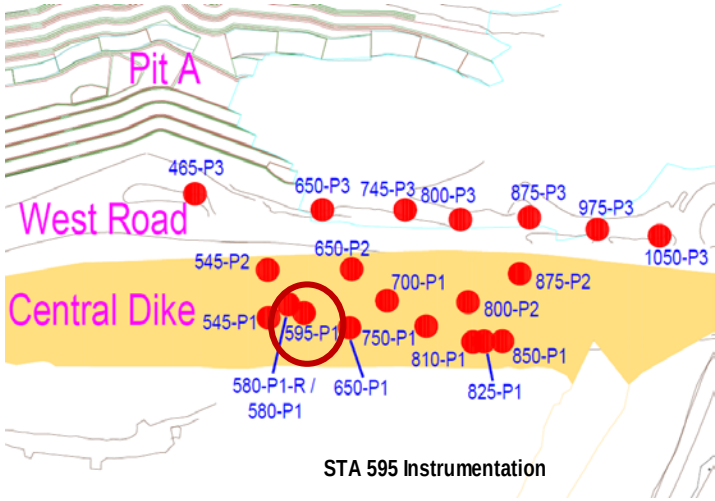
STA 595 Instrumentation



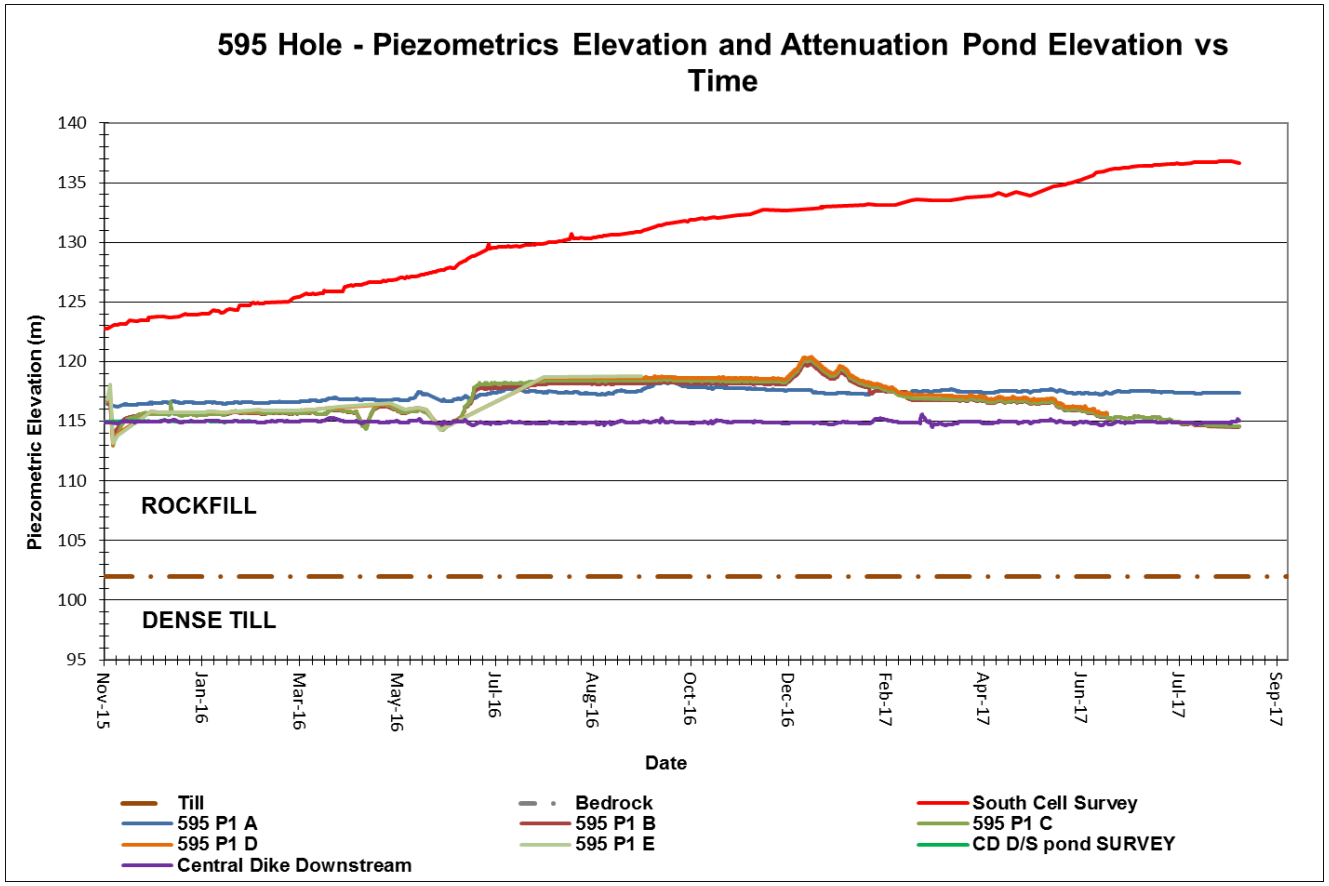


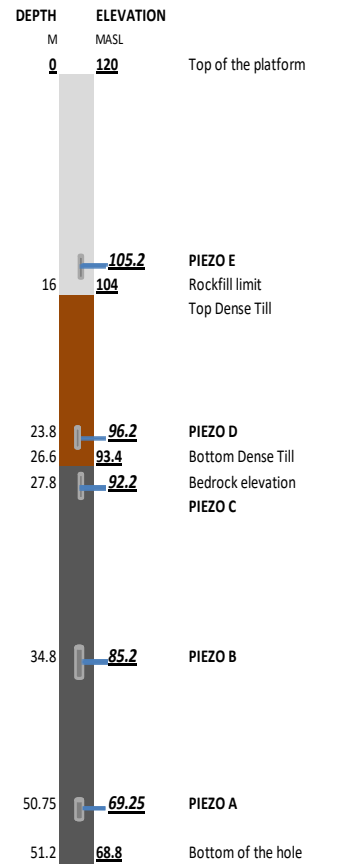
PIEZOMETER 595-P1

- Piezometric readings are fluctuating around D/S pond elevation since the installation.
- **Piezo C to E was installed in casing**



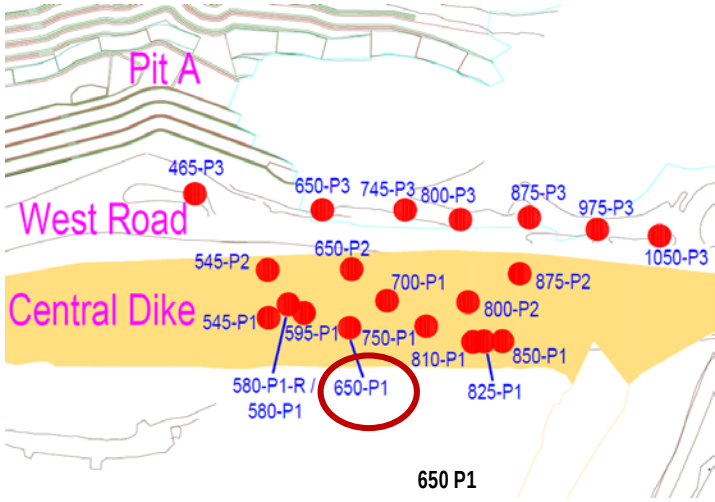
STA 595 Instrumentation

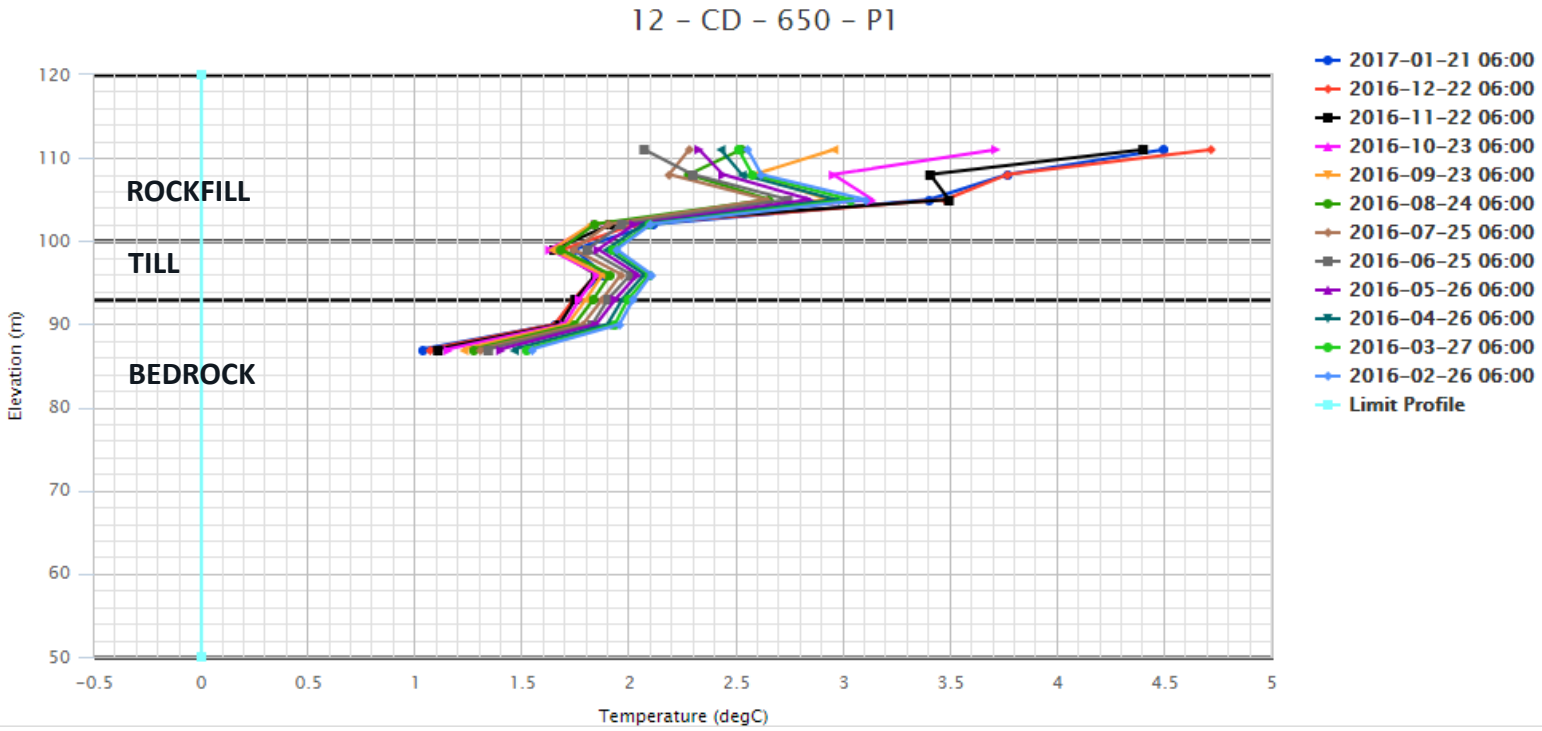


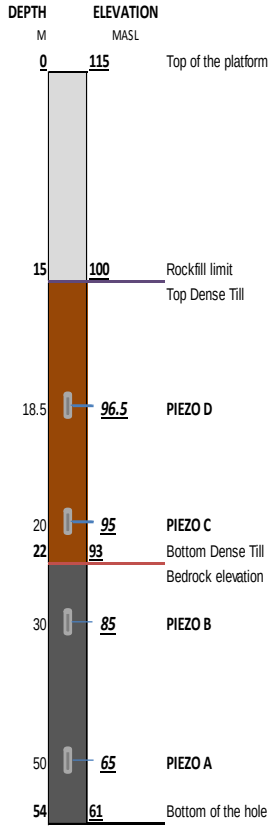


THERMISTOR 650-P1

- Thermistance reading not functional since January 2017
- Beads 10 to 12 are not functionning since August 2016
- Temperature of the bedrock/till units were in between 1.0 and 2.1º C.

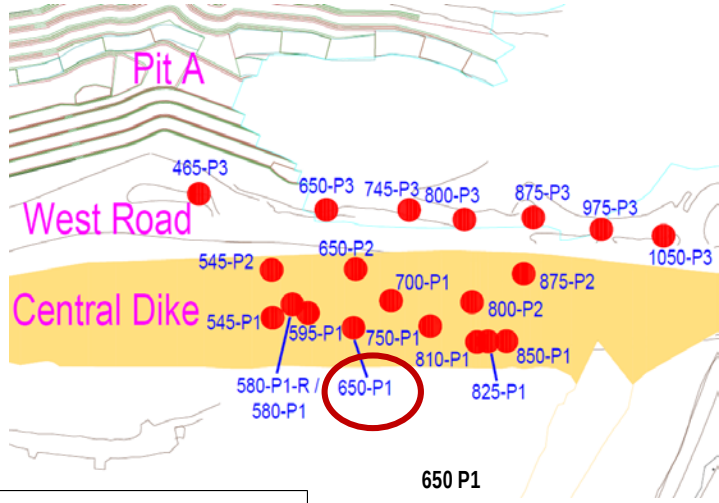




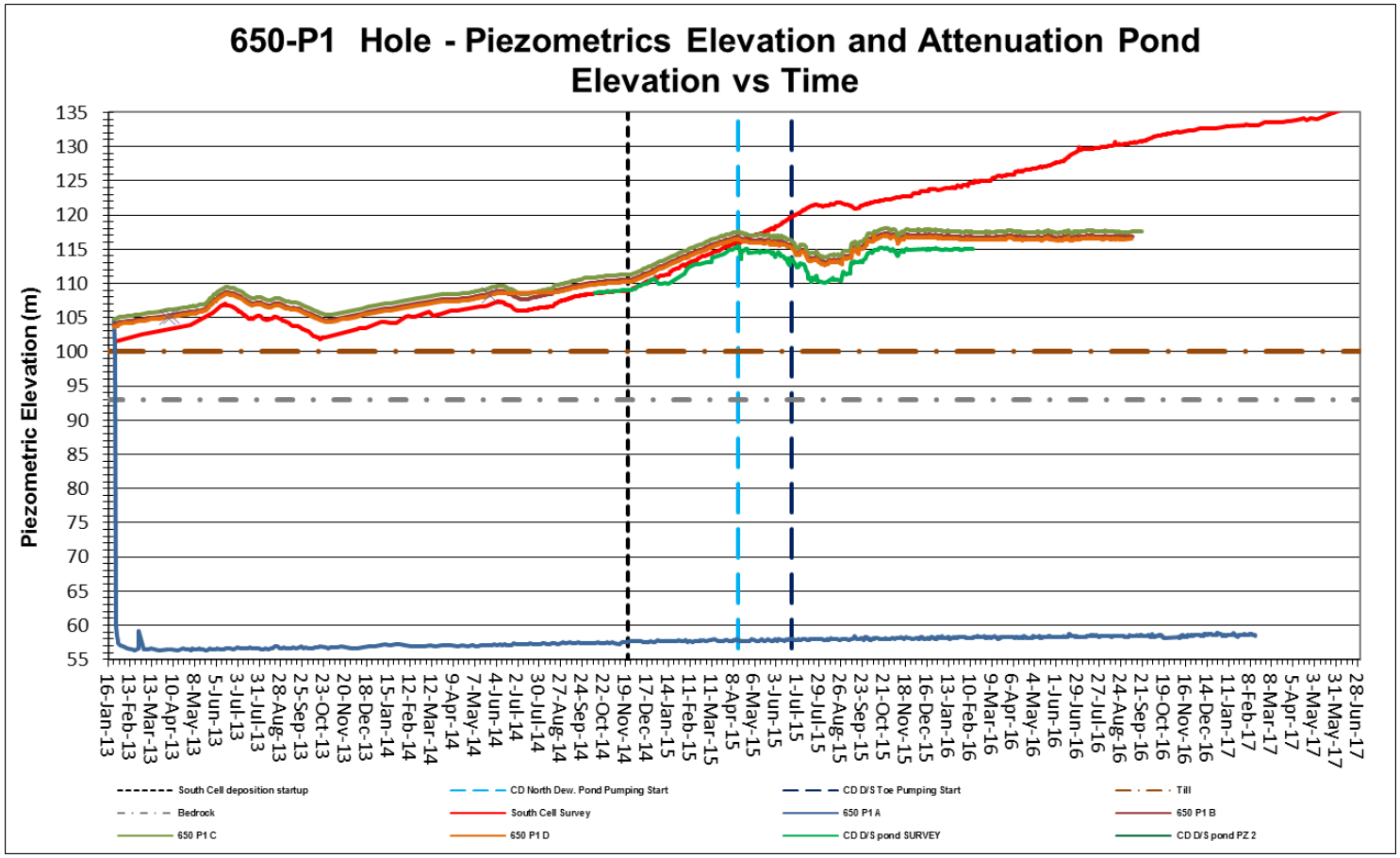


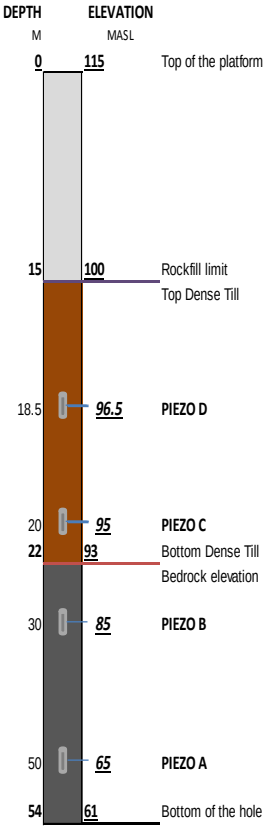
650-P1

- Piezometer reading not functional since February 2017
- Piezo A was in suction and piezo B to D were following D/S pond regime with readings around 117m.



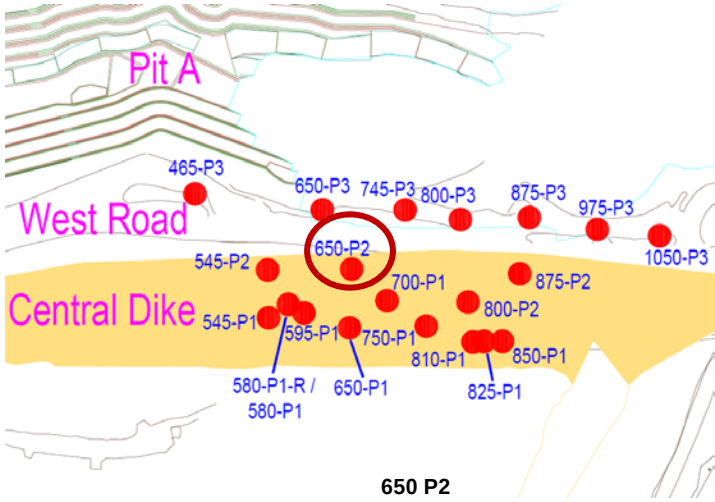
650 P1

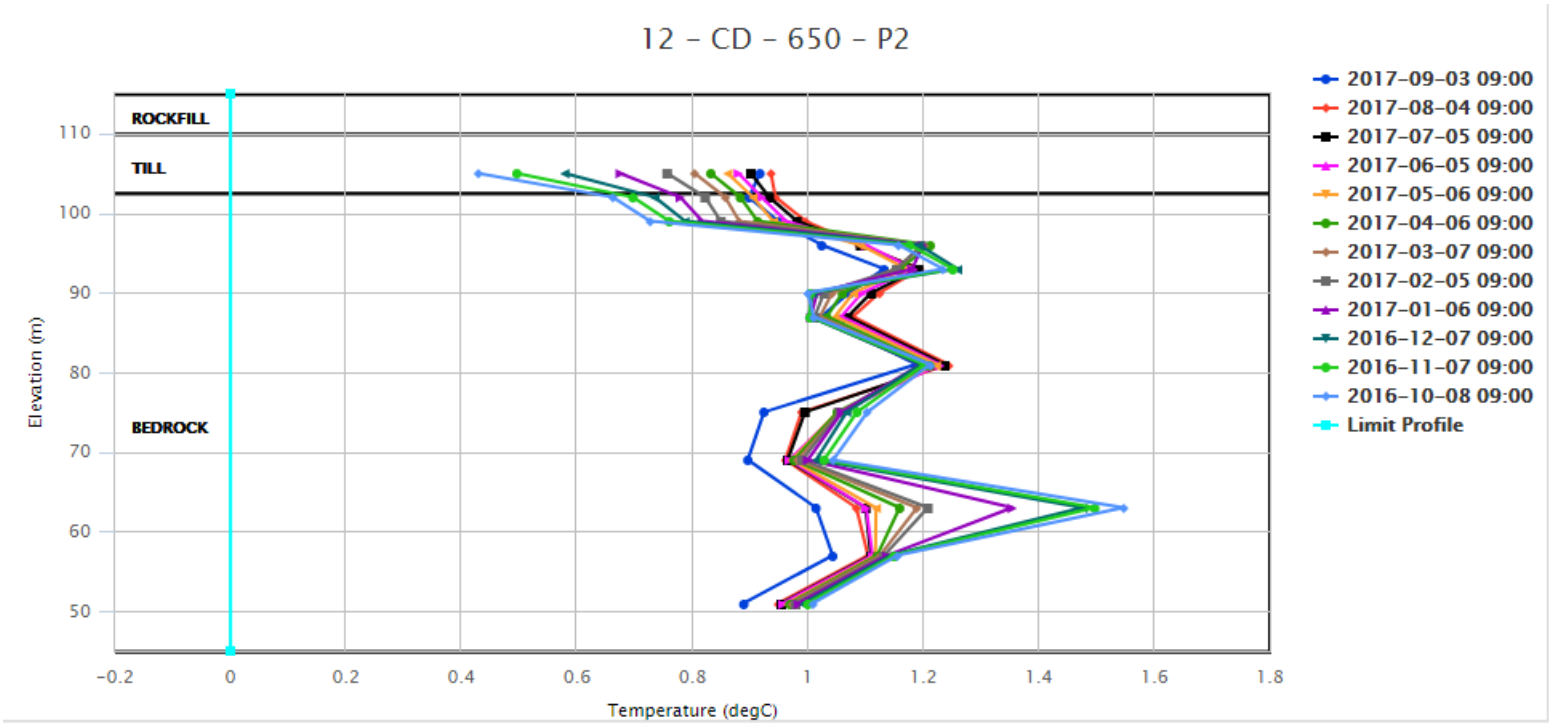


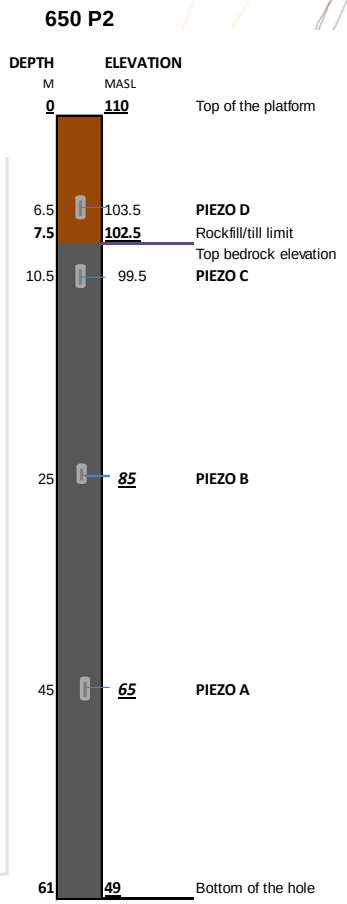


THERMISTOR 650-P2

- Cooling trend observed below El. 80 similar to 2016 readings.

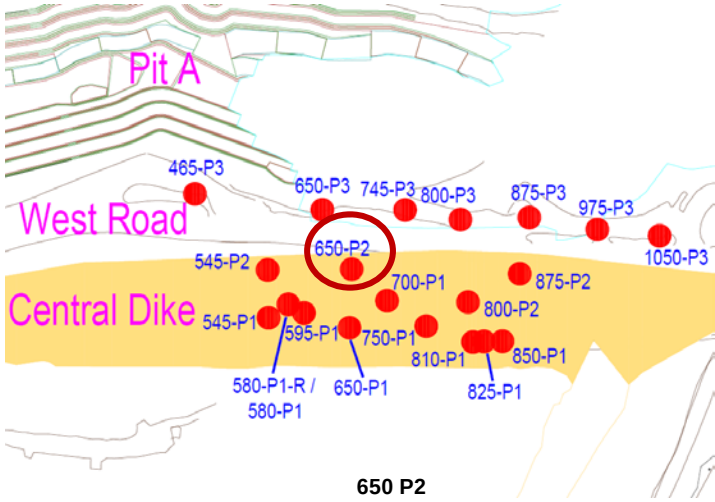


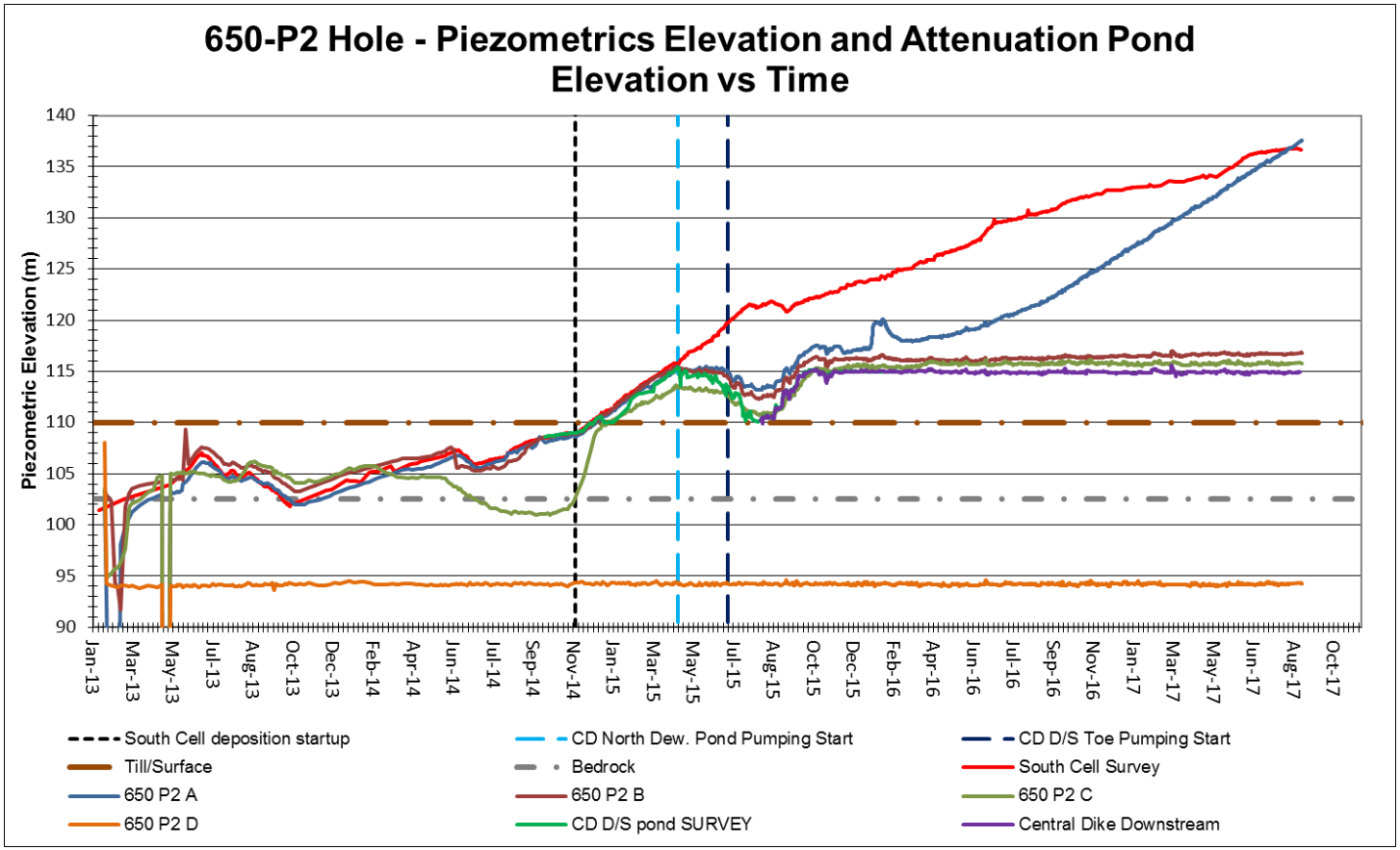


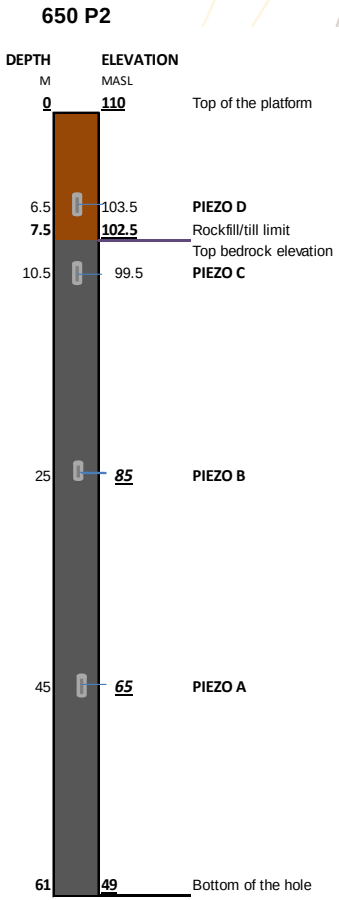


PIEZOMETER 650-P2

- Piezometer A in bedrock continue its rise and is now over the elevation of the South Cell
- Piezo B-C are following the piezometric regime of the D/S pond
- Piezo D is in suction

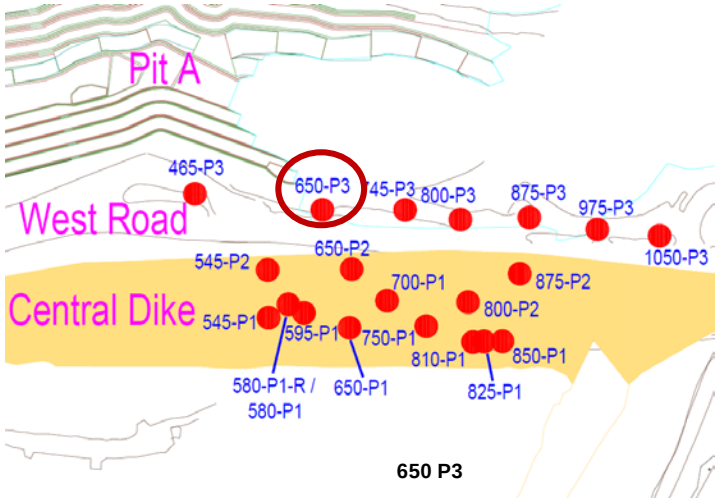


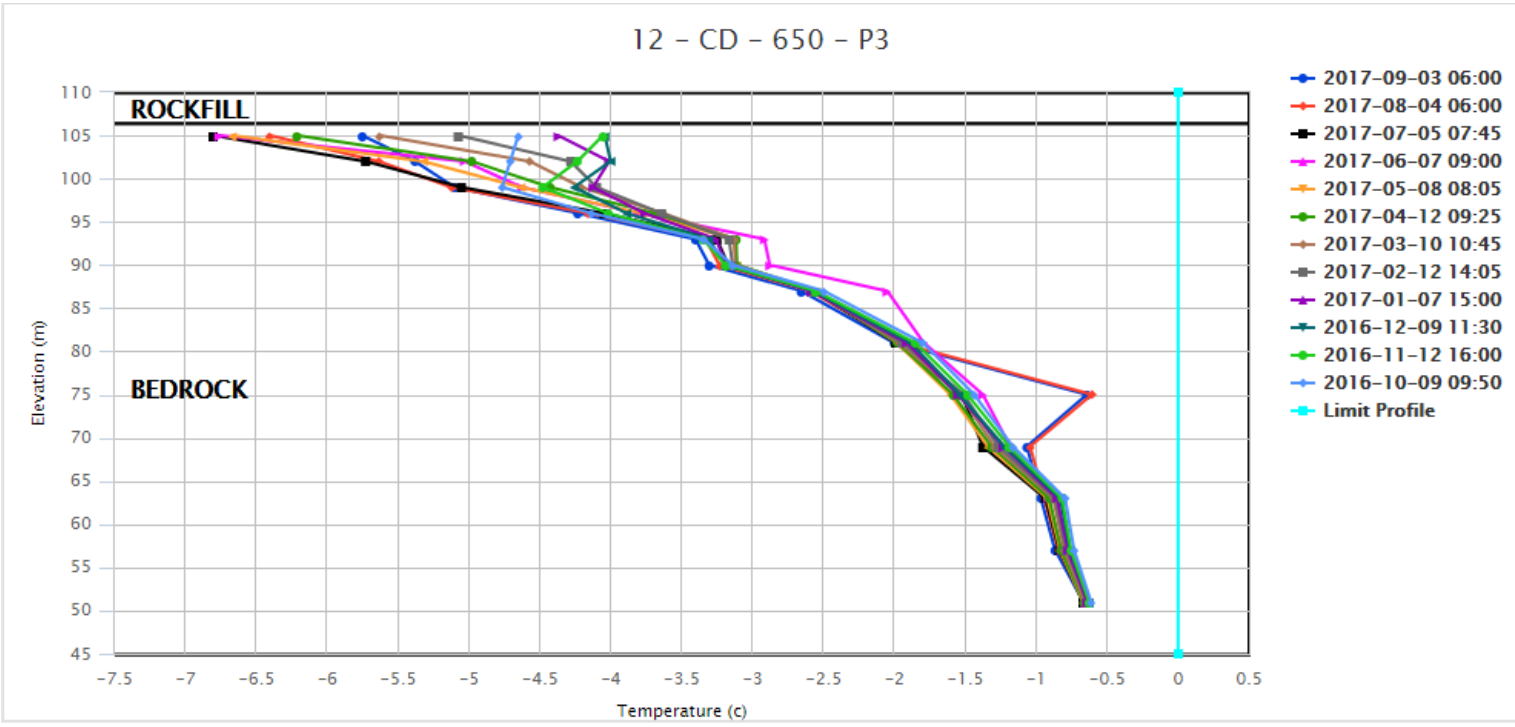


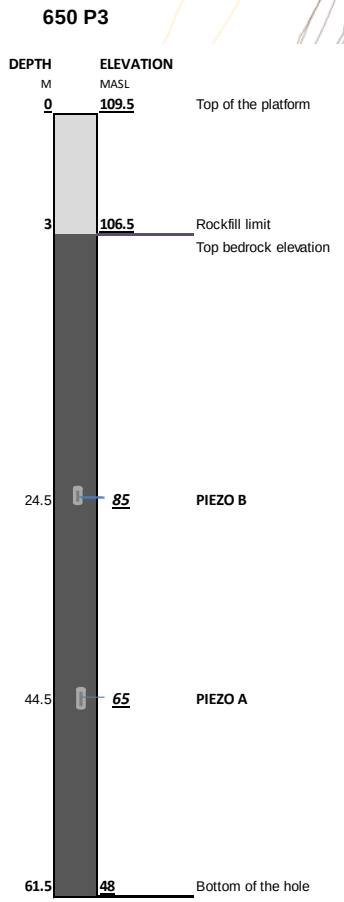


THERMISTOR 650-P3

- Bedrock Below 0º C at 650-P3
- Temperature spike at El. 75 m is related to capacitance effect on this specific bead.

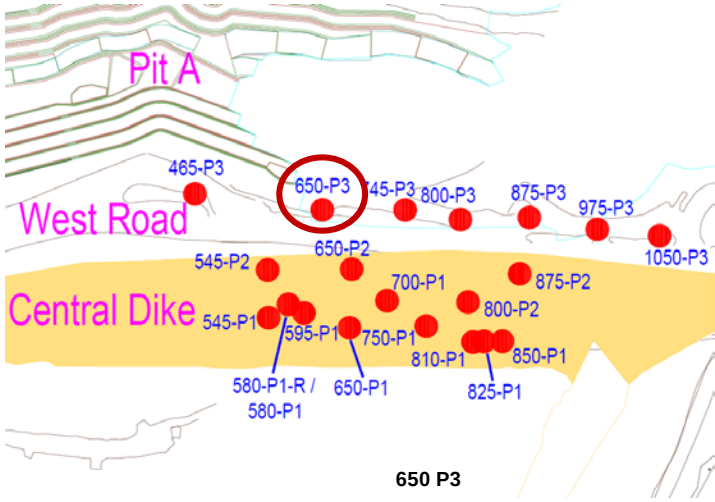


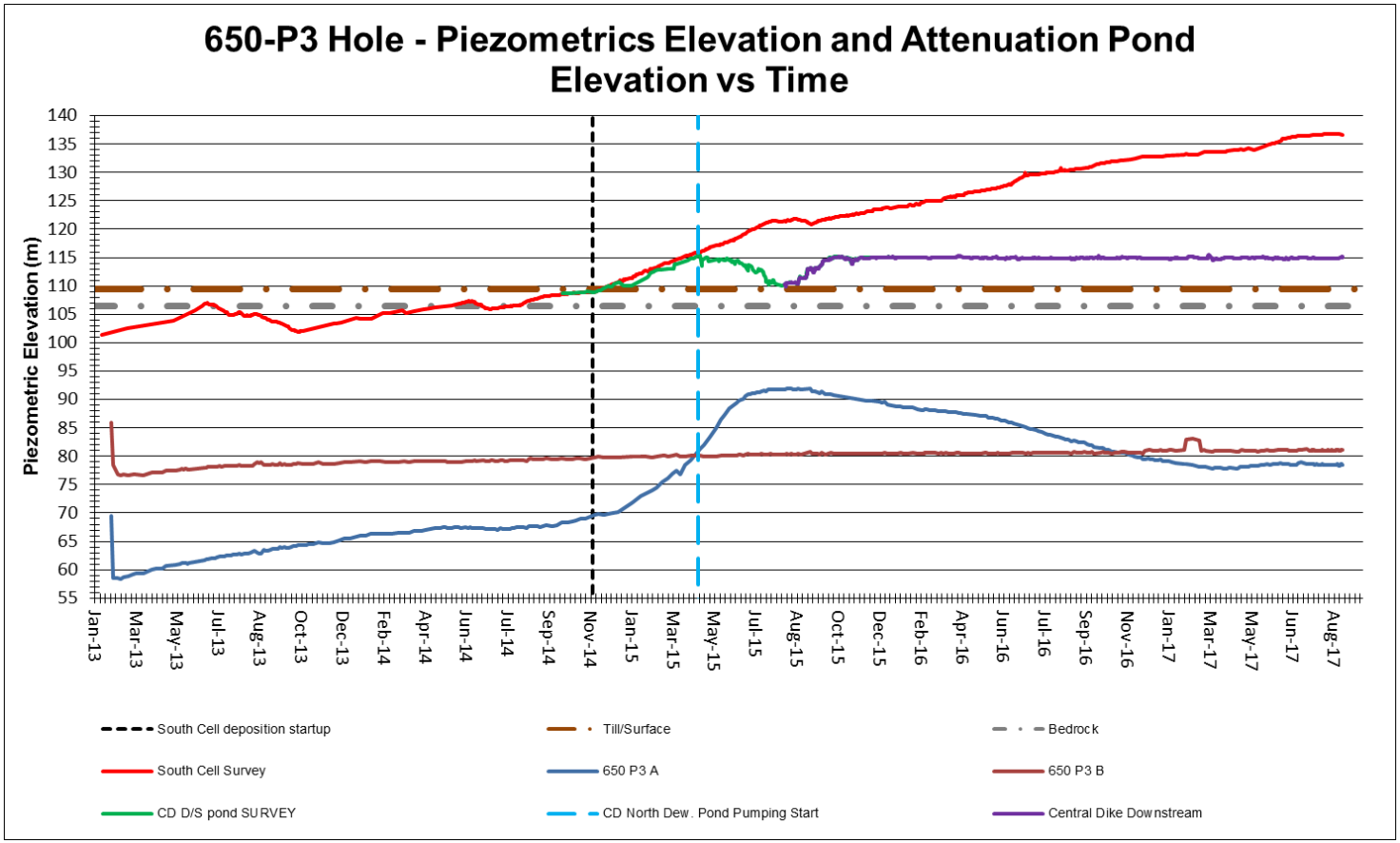


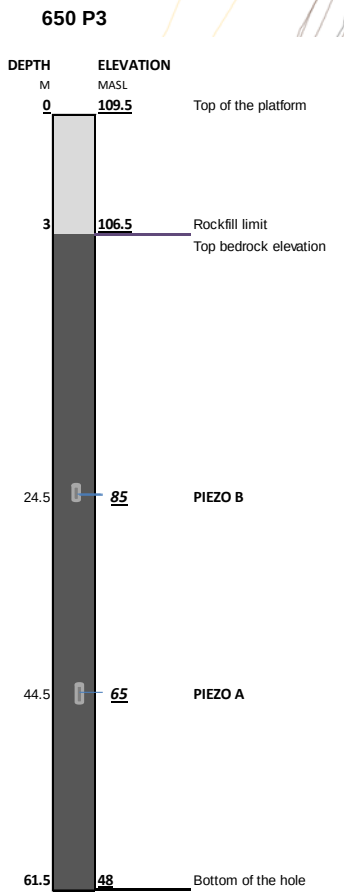


PIEZOMETERS 650-P3

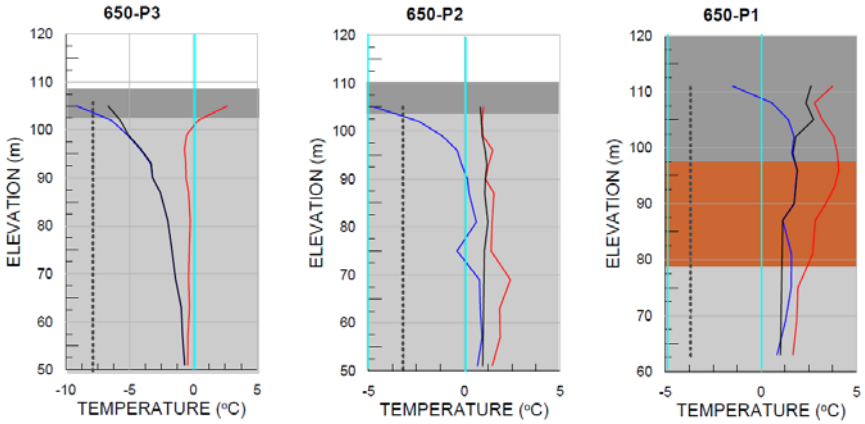
Frozen Piezometers

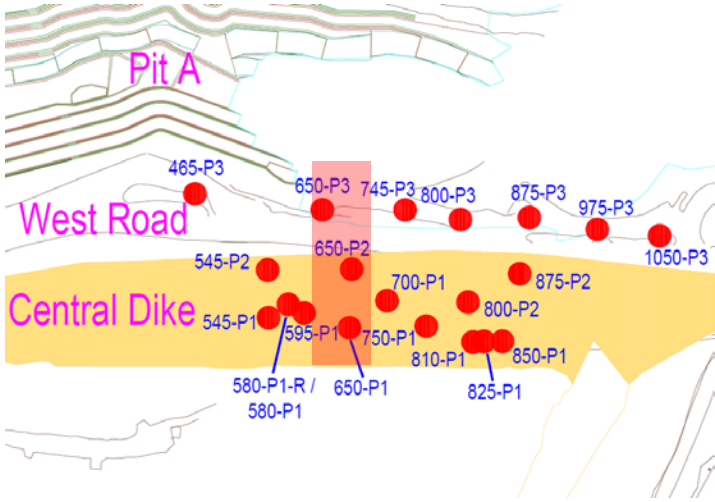


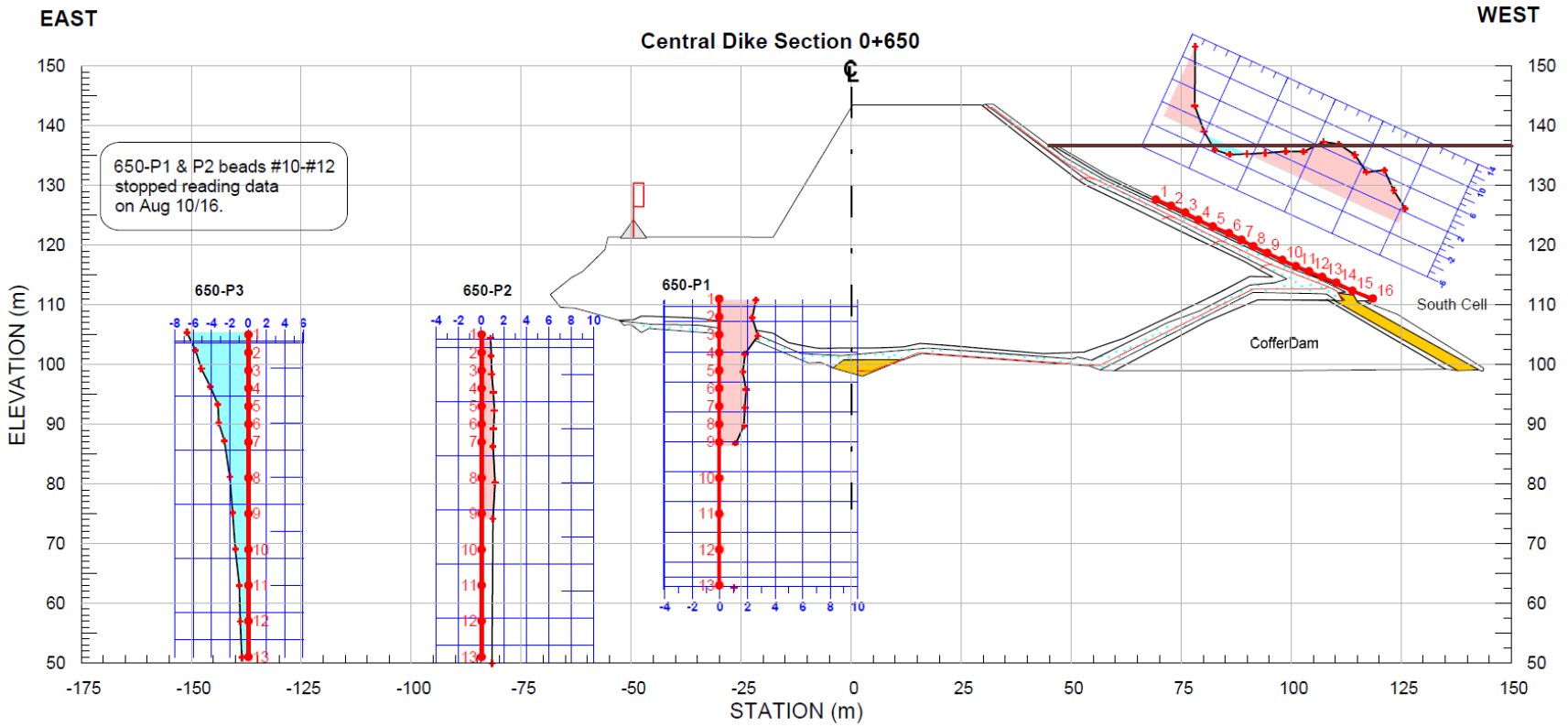




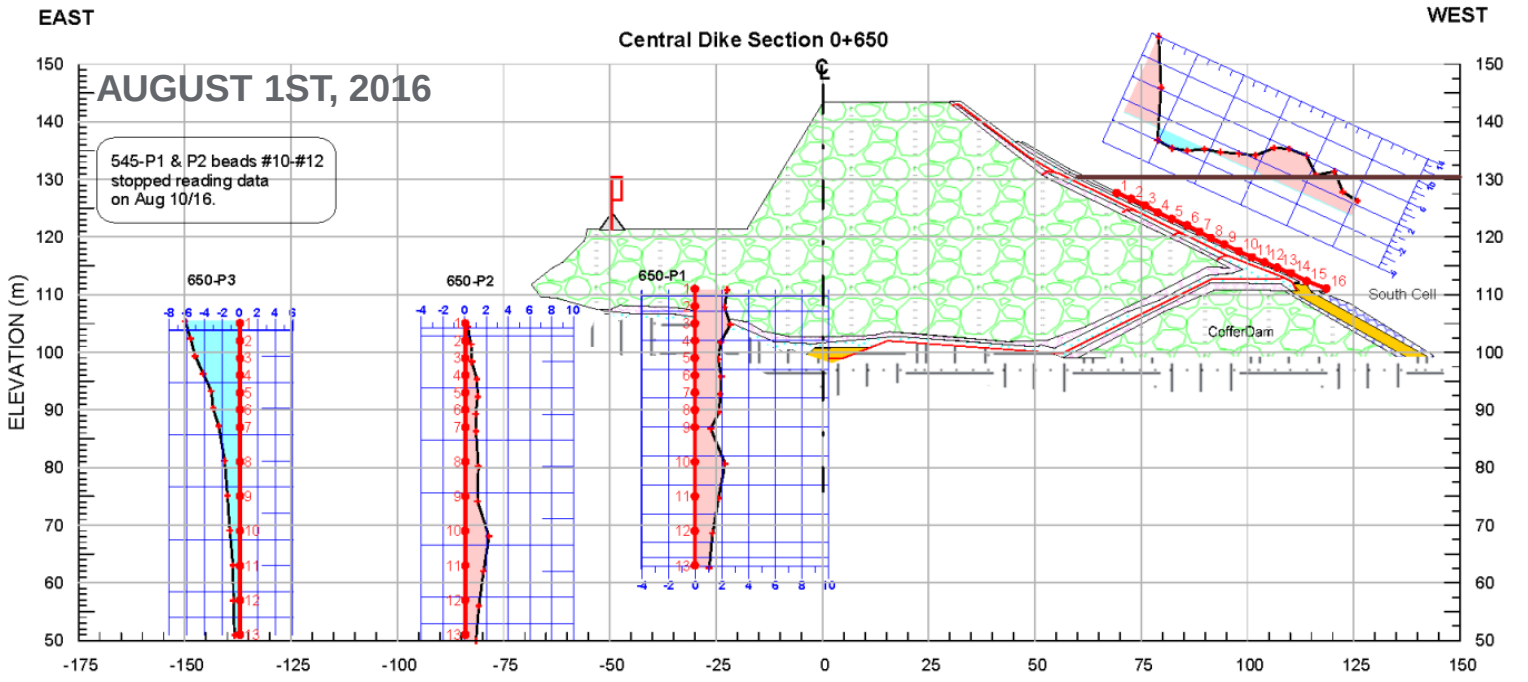
SECTION 650

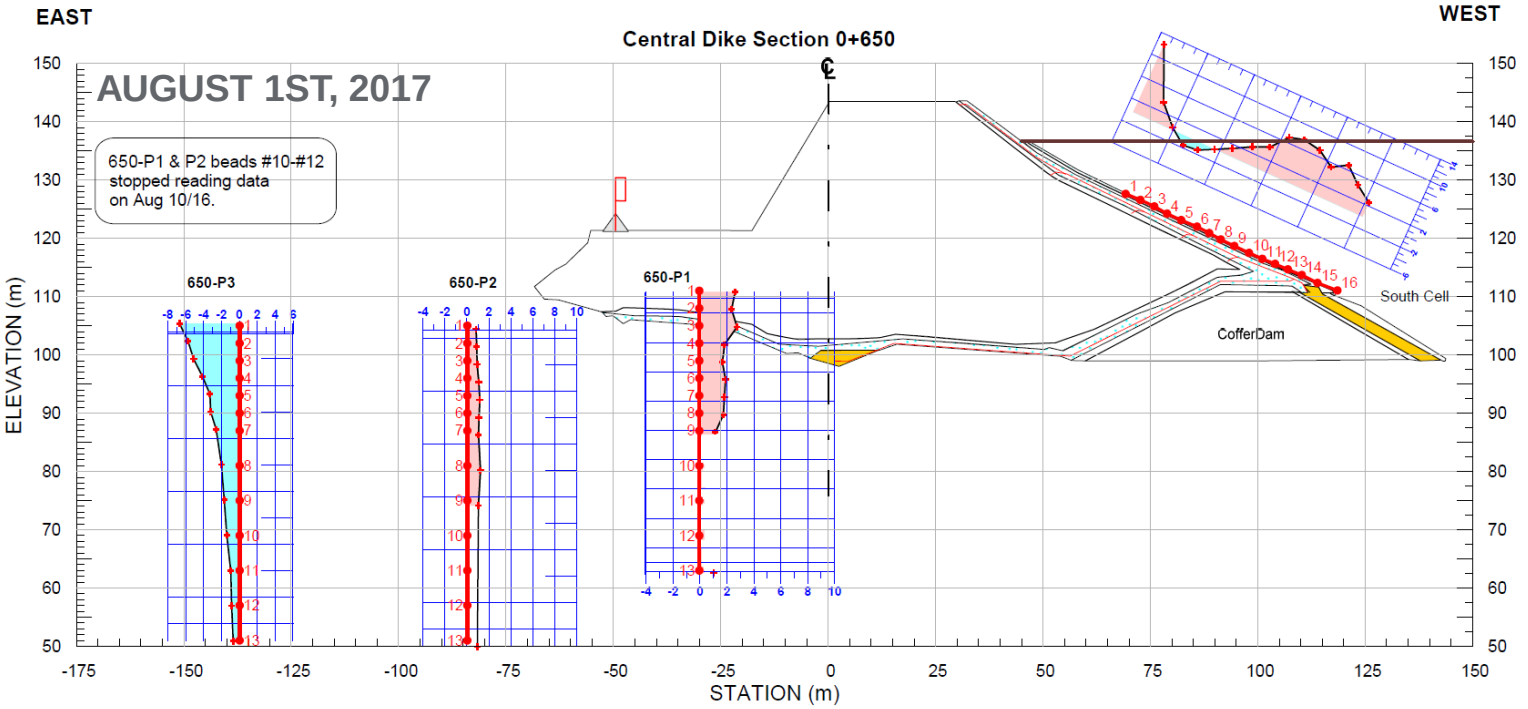

650-P3
650-P2
650-P1
ELEVATION (m)
TEMPERATURE (°C)


Pit A
West Road
Central Dike
465-P3
650-P3
745-P3
800-P3
875-P3
975-P3
1050-P3
650-P2
545-P2
700-P1
875-P2
800-P2
545-P1
595-P1
750-P1
810-P1
850-P1
580-P1-R /
580-P1
650-P1
825-P1


EAST
WEST
Central Dike Section 0+650
650-P1 & P2 beads #10-#12 stopped reading data on Aug 10/16.
650-P3
650-P2
650-P1
South Cell
CofferDam
ELEVATION (m)
STATION (m)

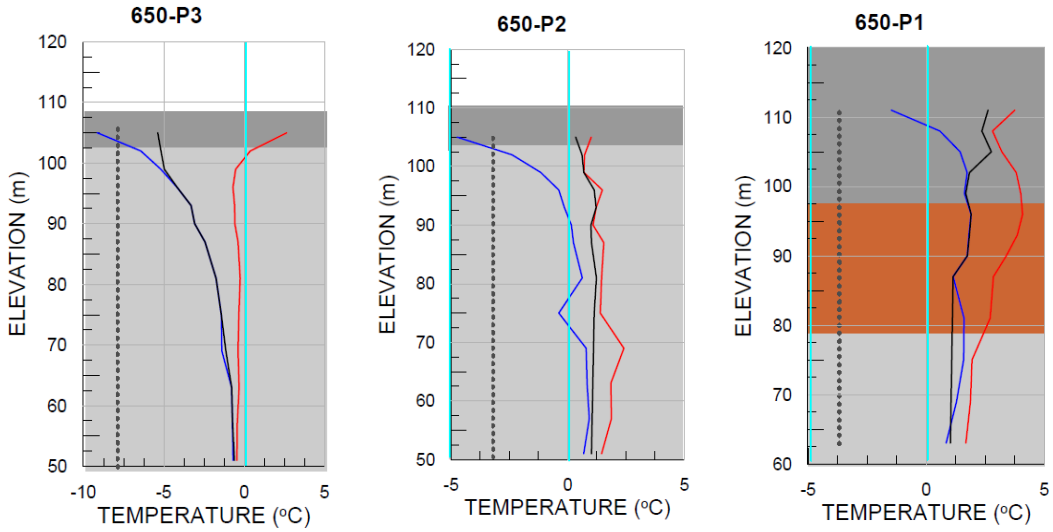
SECTION 650

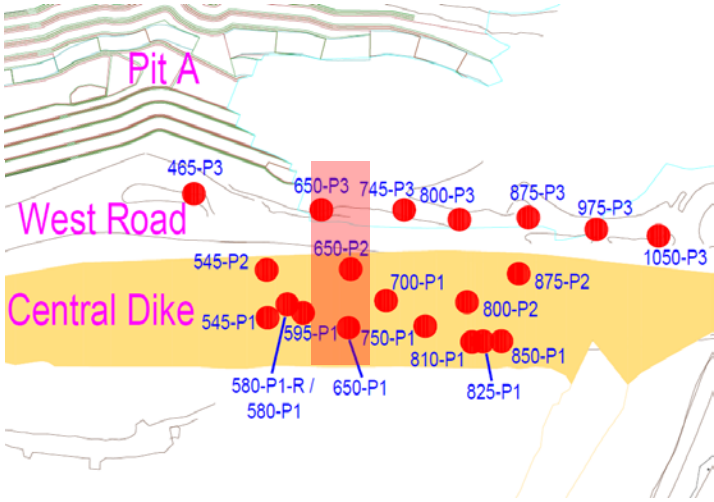

EAST
WEST
Central Dike Section 0+650
AUGUST 1ST, 2016
545-P1 & P2 beads #10-#12
stopped reading data
on Aug 10/16.
650-P3
650-P2
650-P1
South Cell
CofferDam
ELEVATION (m)


EAST
WEST
Central Dike Section 0+650
AUGUST 1ST, 2017
650-P1 & P2 beads #10-#12
stopped reading data
on Aug 10/16.
650-P3
650-P2
650-P1
South Cell
CofferDam
ELEVATION (m)
STATION (m)

SECTION 650

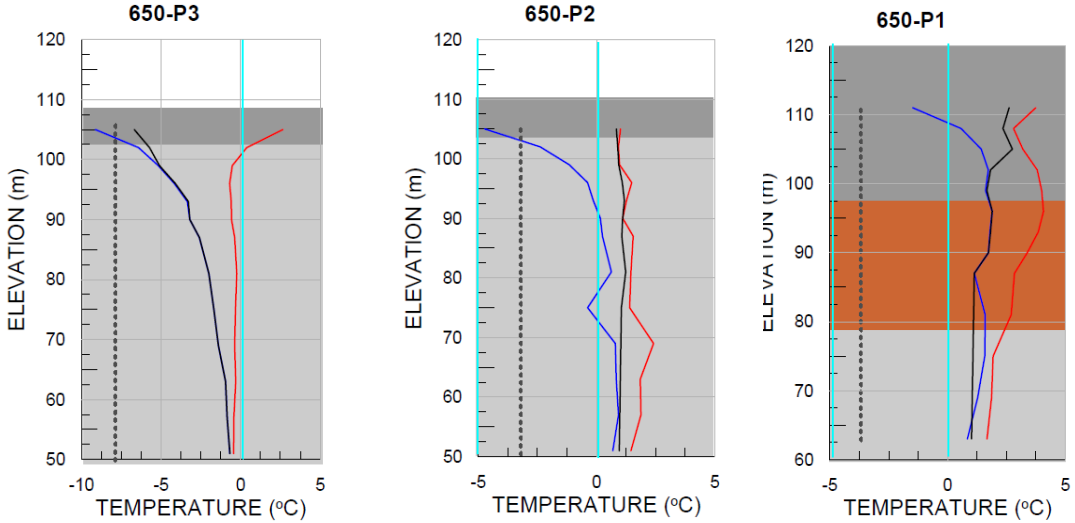
THERMISTOR READINGS FROM AUGUST 2015 - 2016





T min
T max
T current

THERMISTOR READINGS FROM AUGUST 2016 - 2017

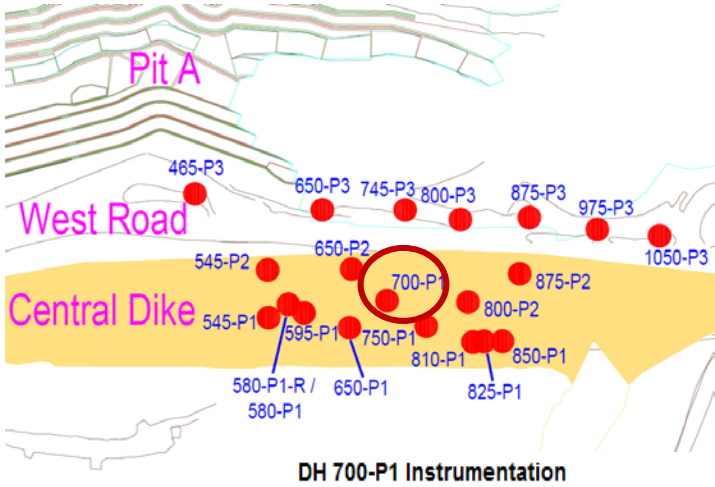


LEGEND

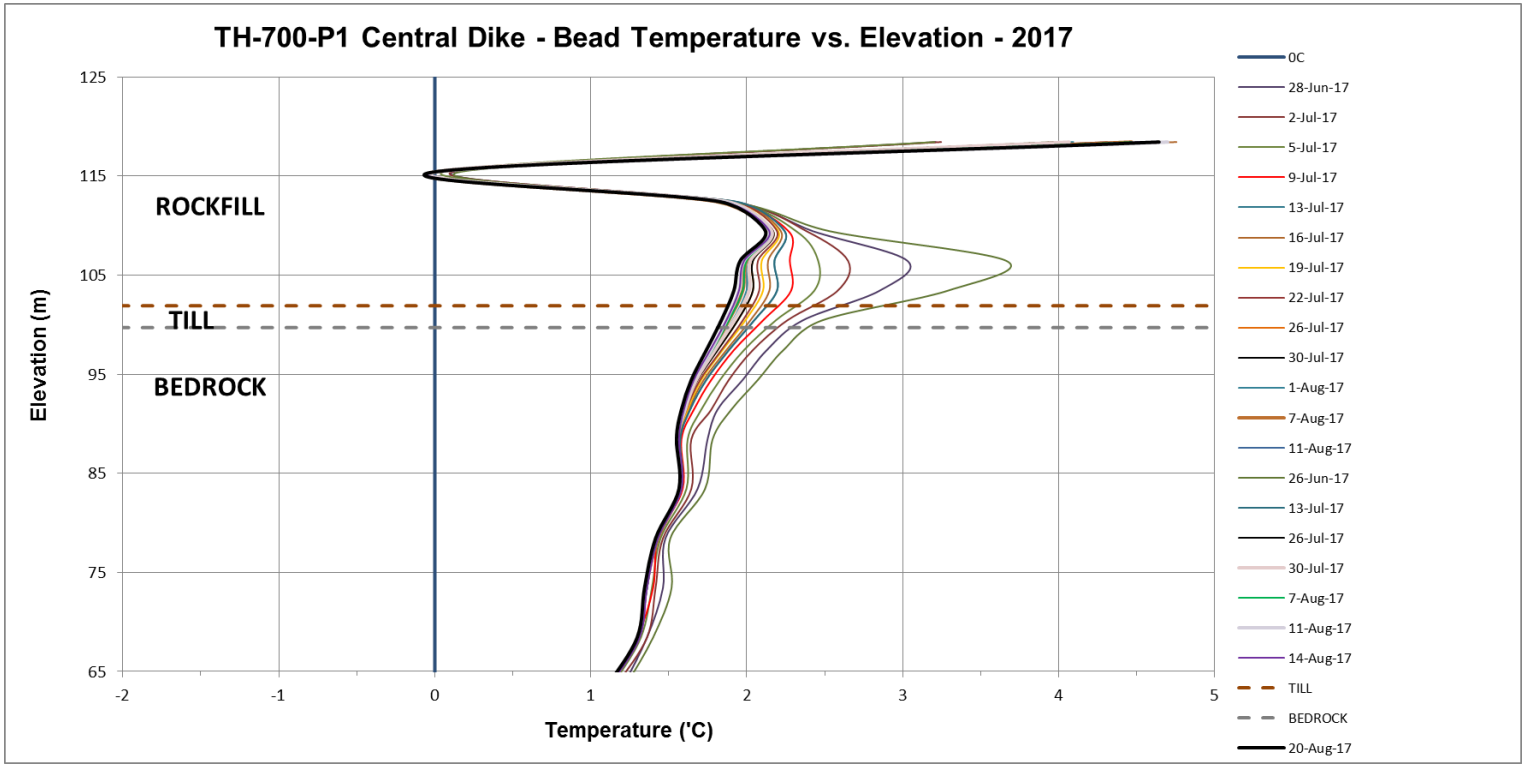
- Grouting
- Rockfill
- Till
- Bedrock

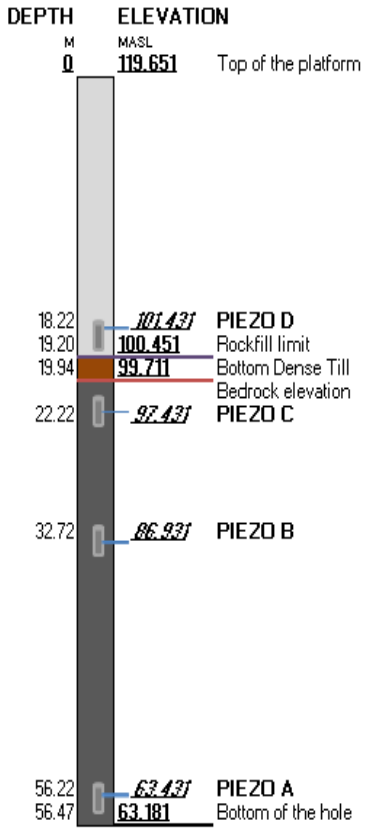
THERMISTOR 700-P1

- New instrument installed in 2017
- Stabilisation of temperature ongoing
- Till and bedrock temperature readings above 0º C



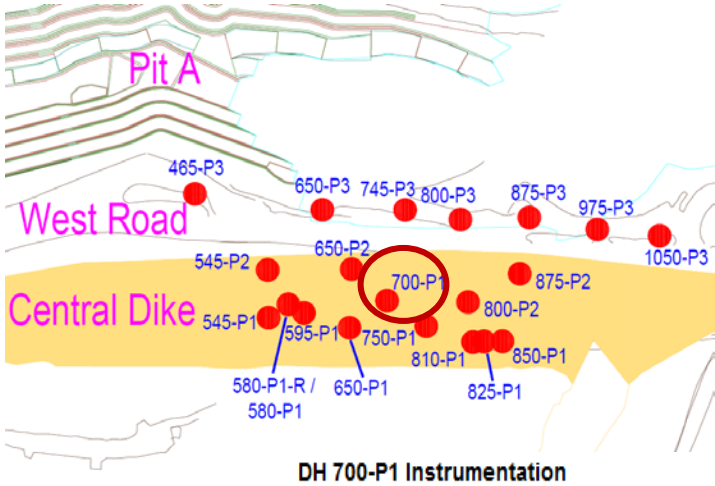
DH 700-P1 Instrumentation



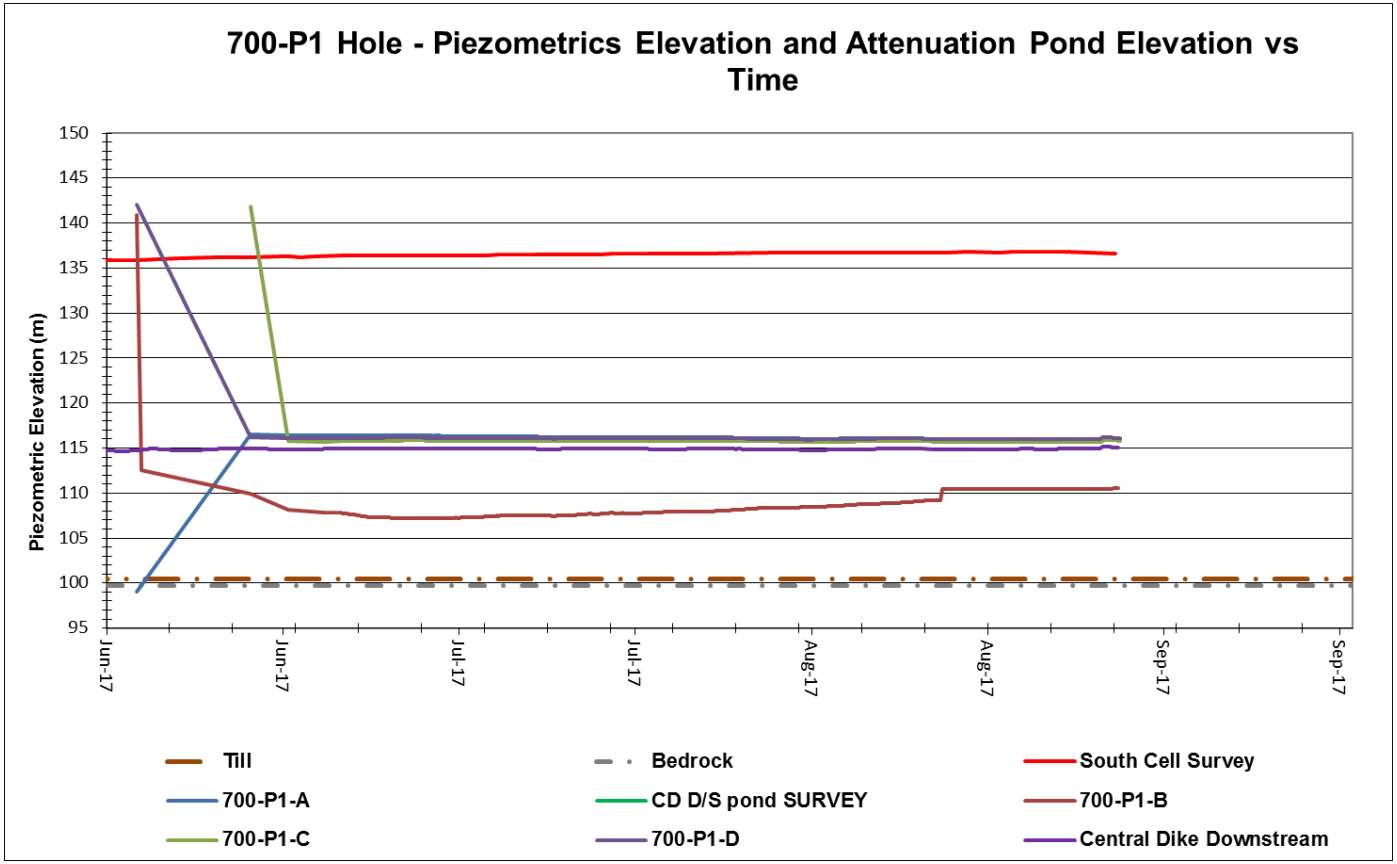


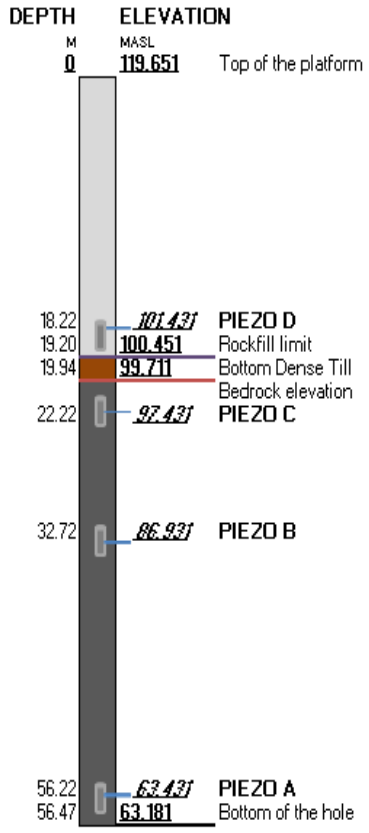
PIEZOMETER 700-P1

- New instrument installed in 2017
- Stabilization of temperature ongoing
- Reading automatization occurred on the date of the small bump observed on the piezo B
- Piezo A.C and D are showing reading similar to the D/S pond.



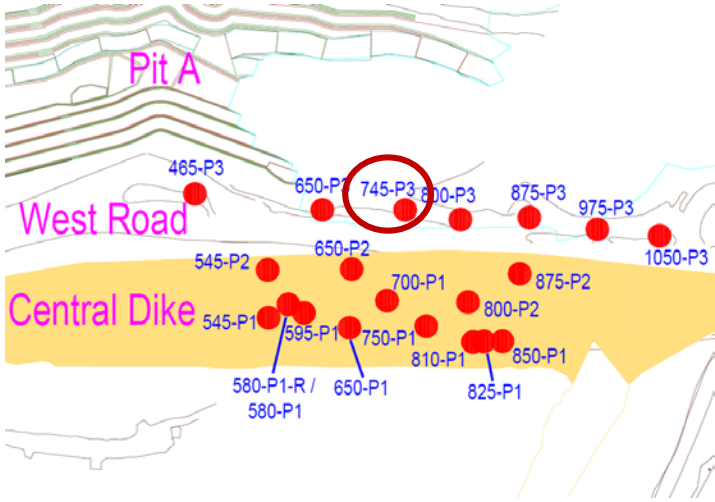
DH 700-P1 Instrumentation

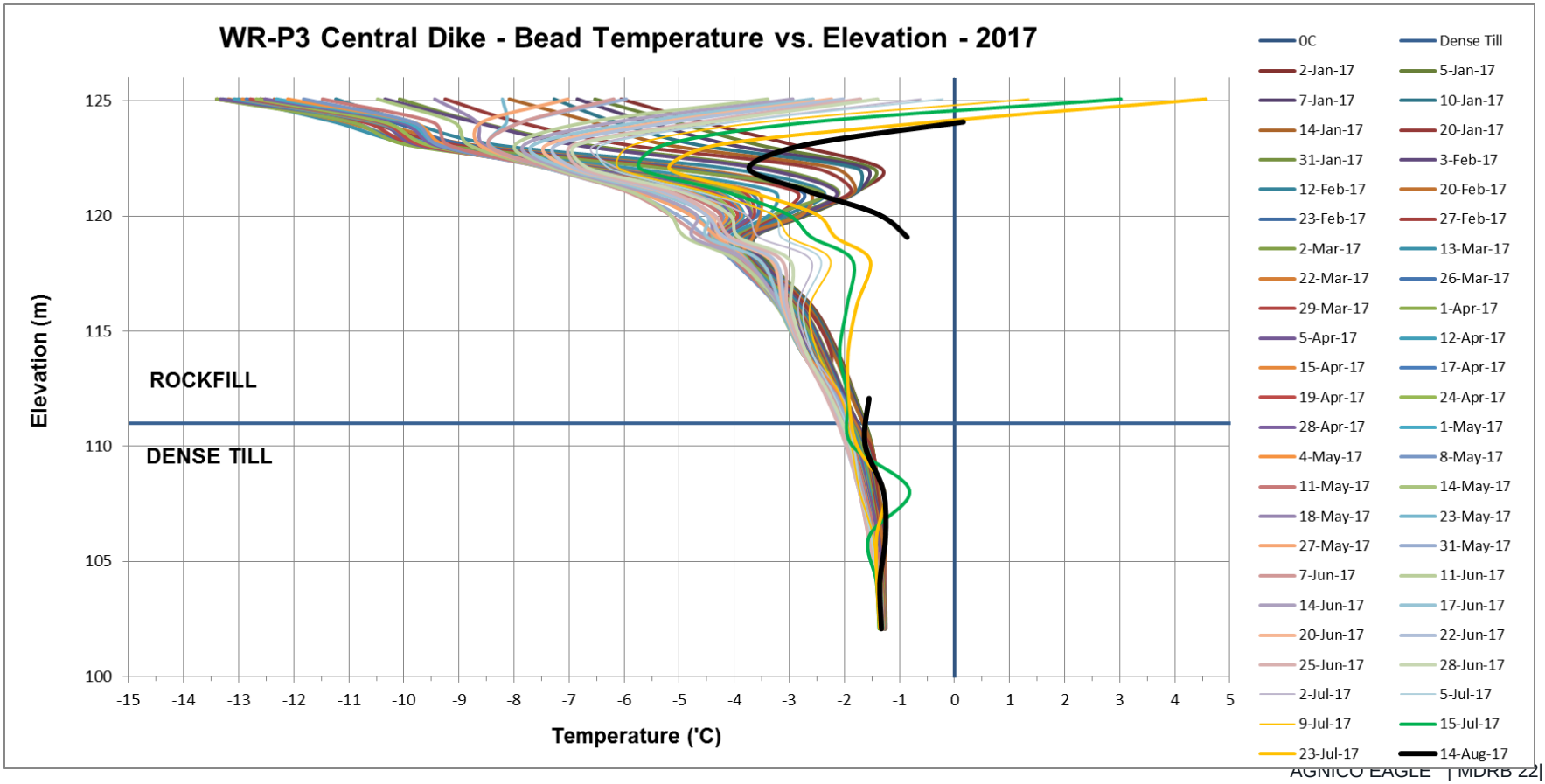




THERMISTOR 745-P3

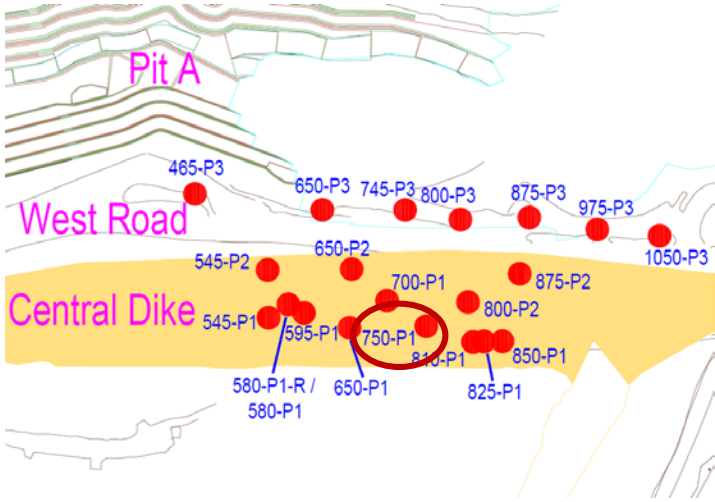
- Thermistor installed to monitor freeze back of the West Road. This thermistor do not reach bedrock
- Rockfill and till below 0º C at 745-P3
- Frozen limit of the northen section of the P3 line

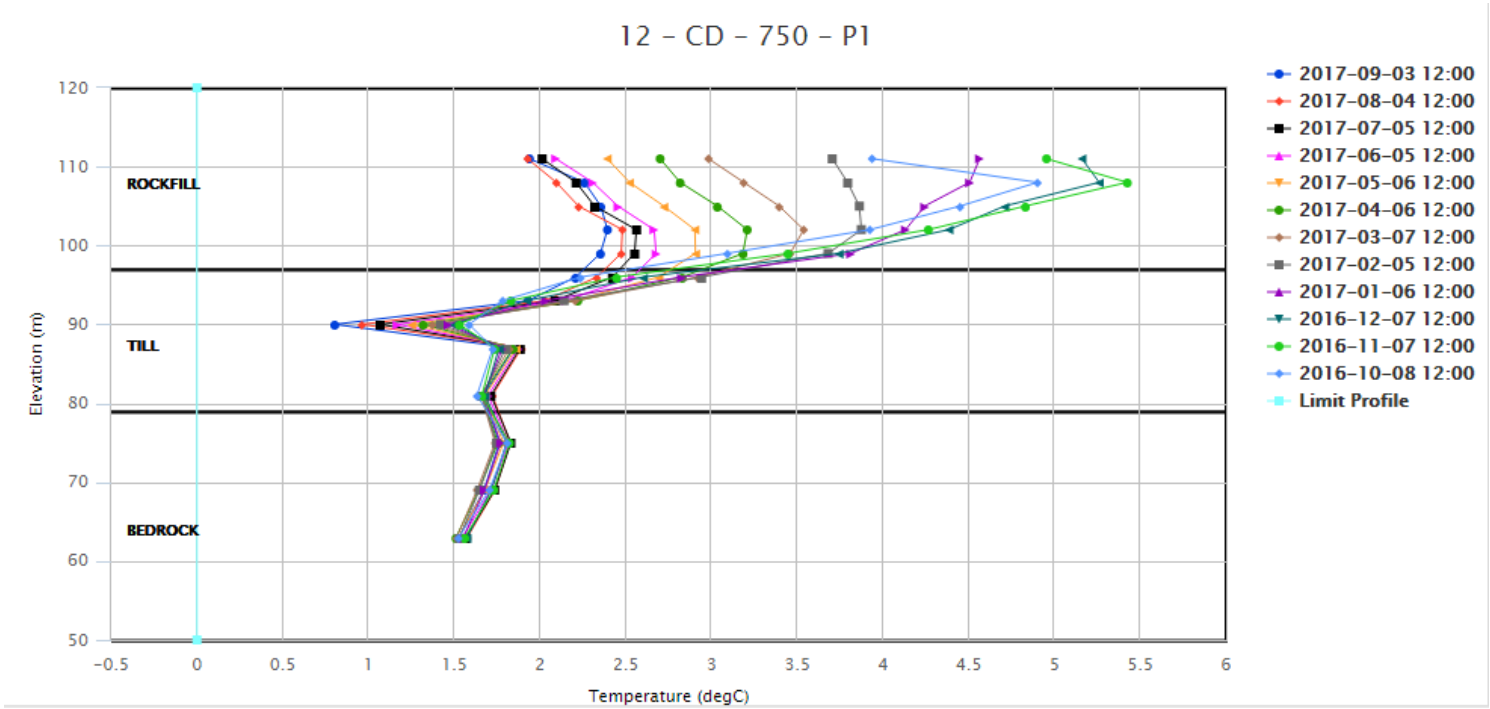




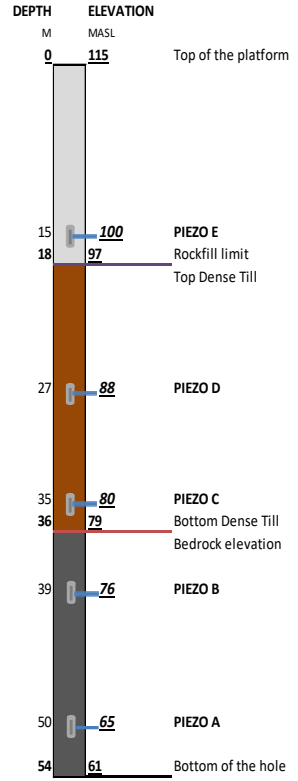
THERMISTOR 750-P1

- Cooling trend in till layer. The bead located at elevation 90m is in average 1º C cooler than in 2016.



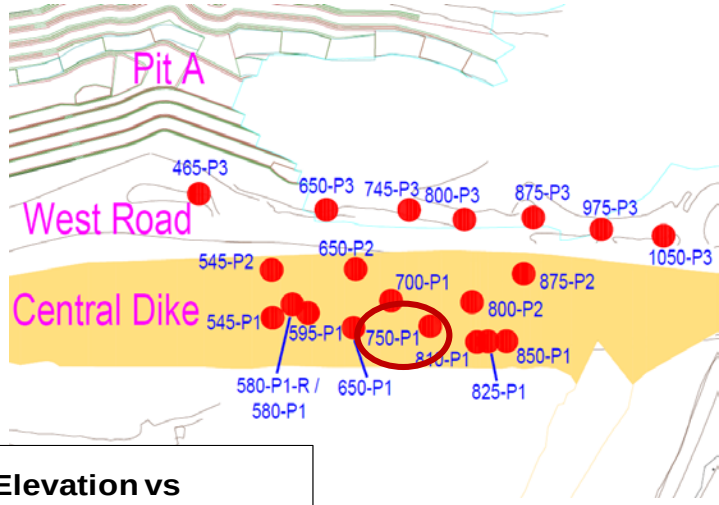


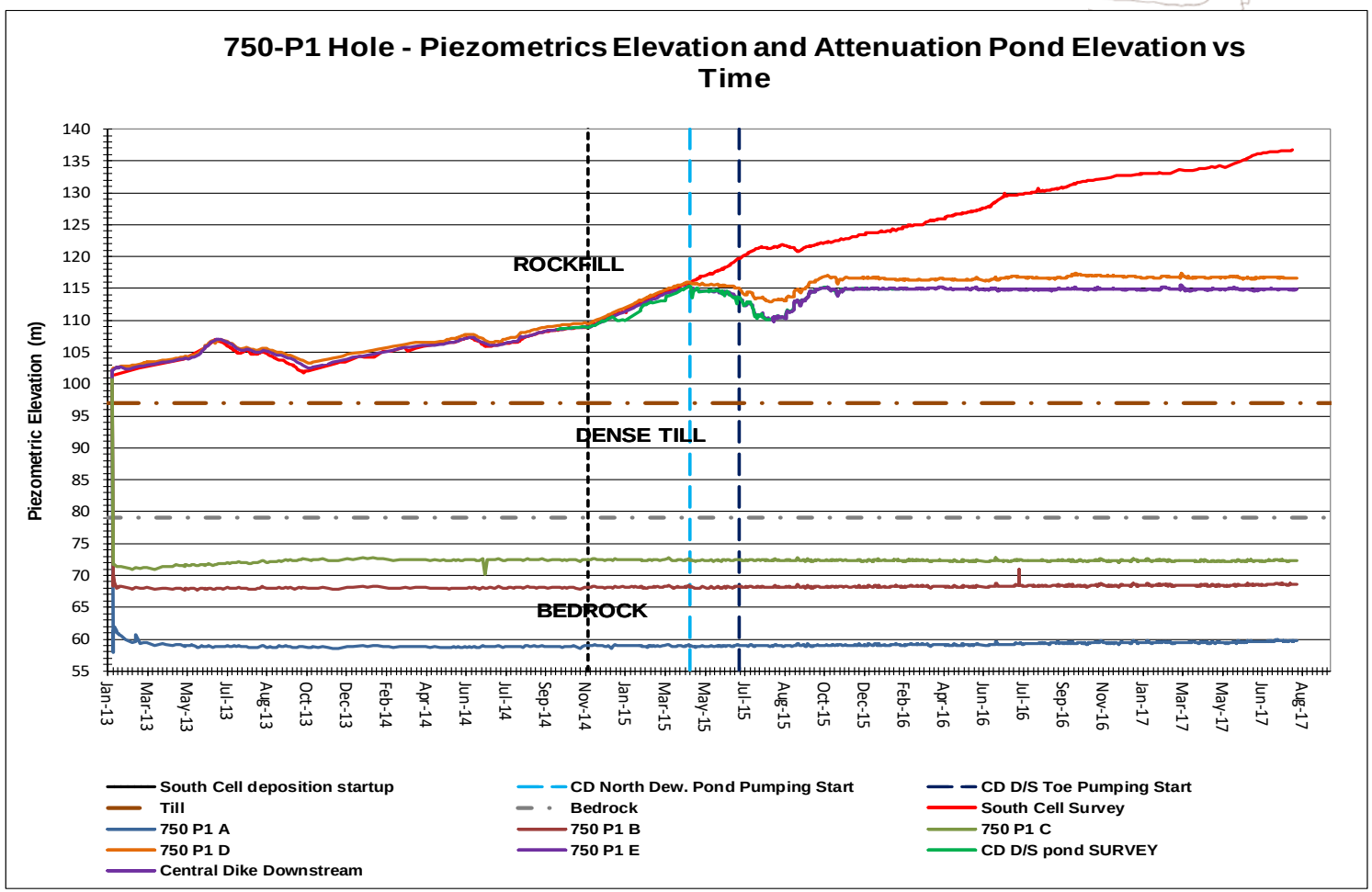
750 P1

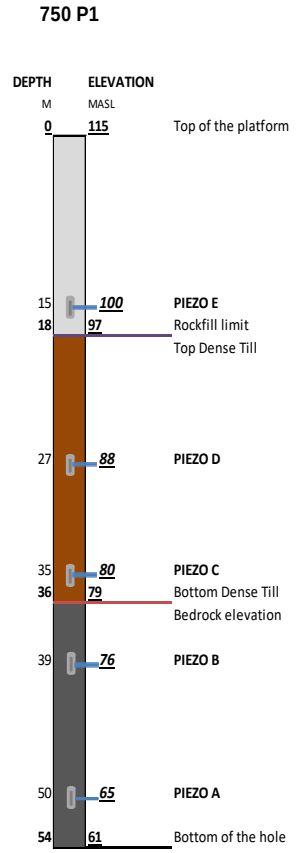


PIEZOMETER 750-P1

- Piezo A, B and C are in suction
- Piezo D is have a direct reaction to any variation in elevation observe in the D/S pond.

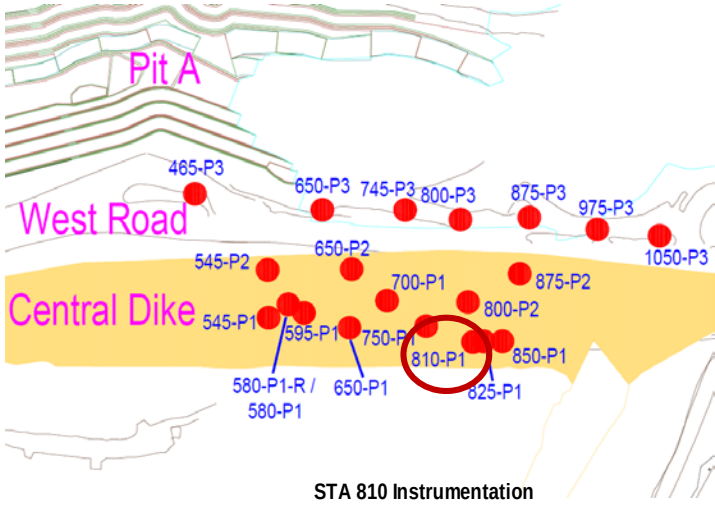




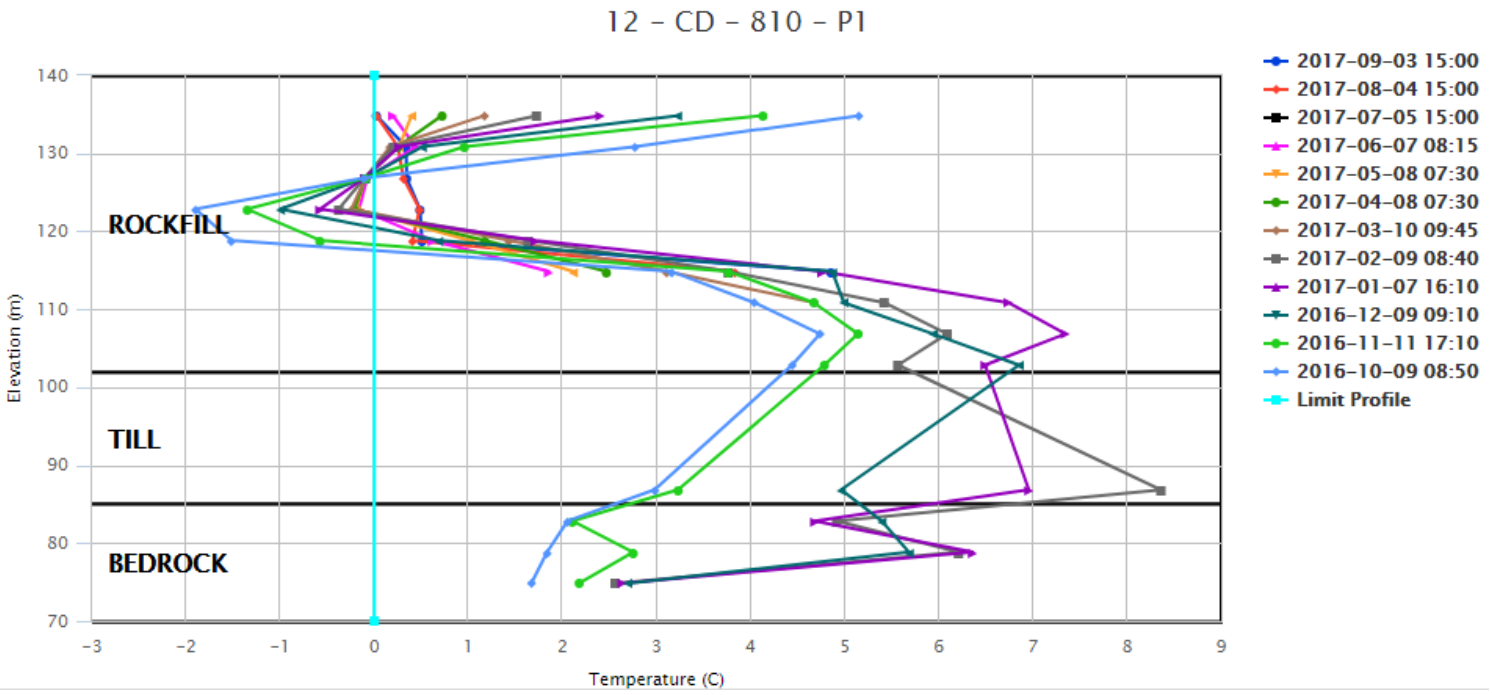


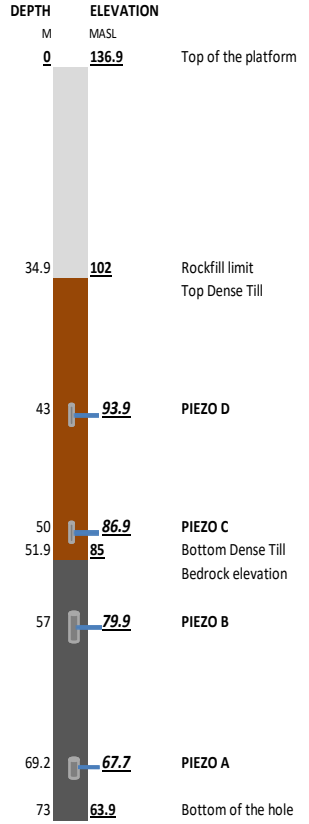
THERMISTOR 810-P1

- Bead below El. 114.84 m stop working in February 2017
- Higher temperature observed in this hole (might be the instrument progressively failing)



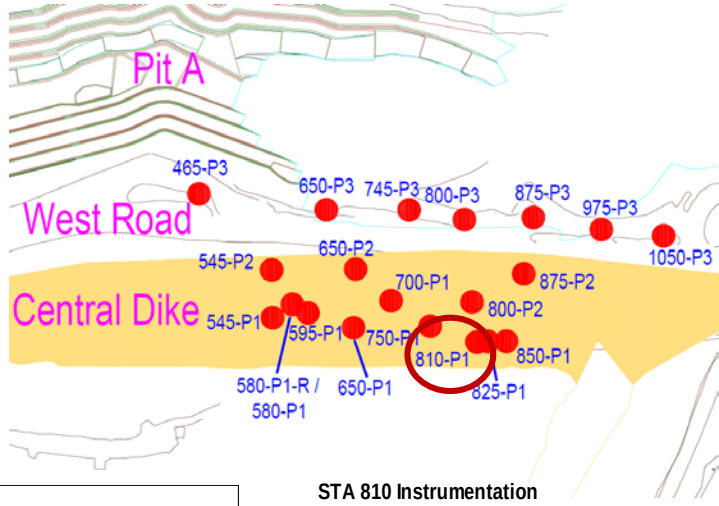
STA 810 Instrumentation

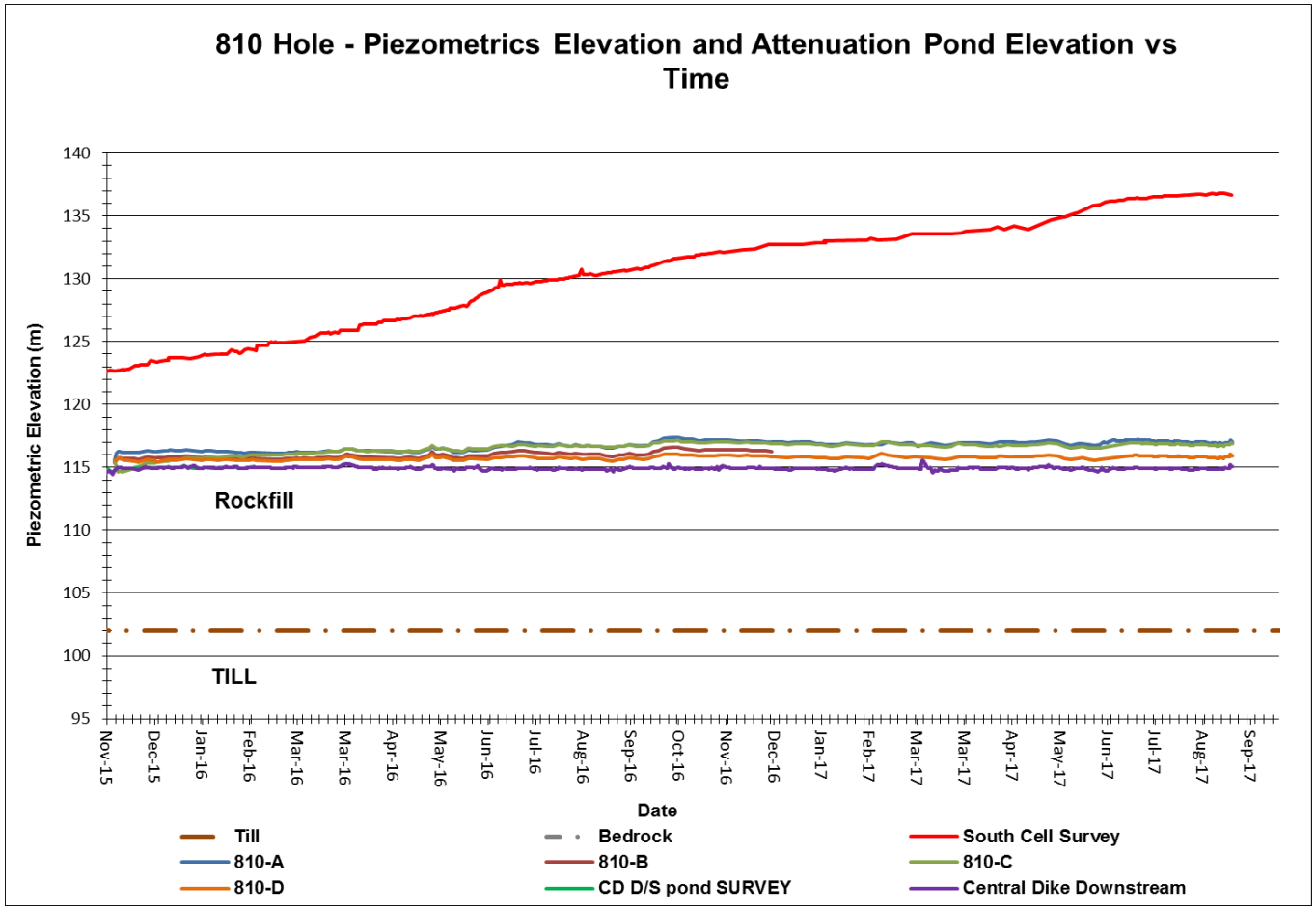


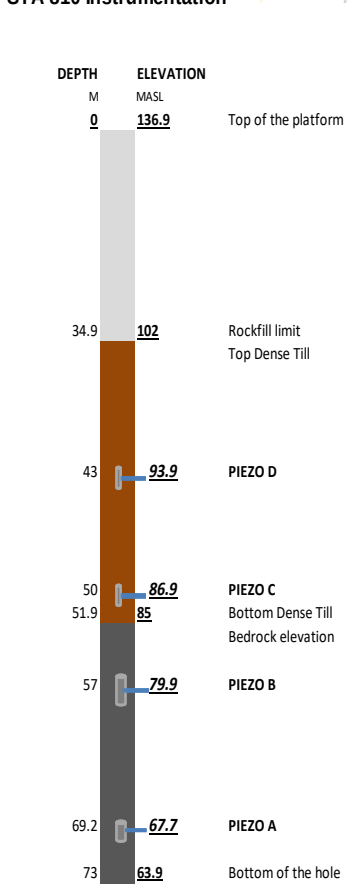


PIEZOMETER 810-P1

- Piezo B stop working in January 2017
- Piezo A, C & D are following the elevation change of the D/S pond

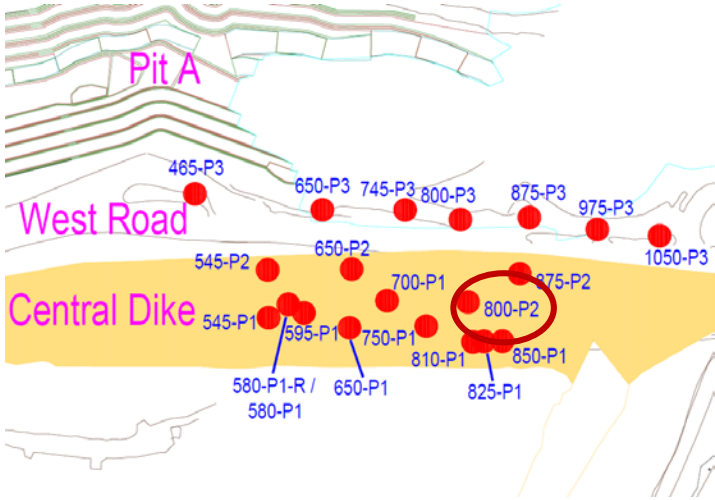


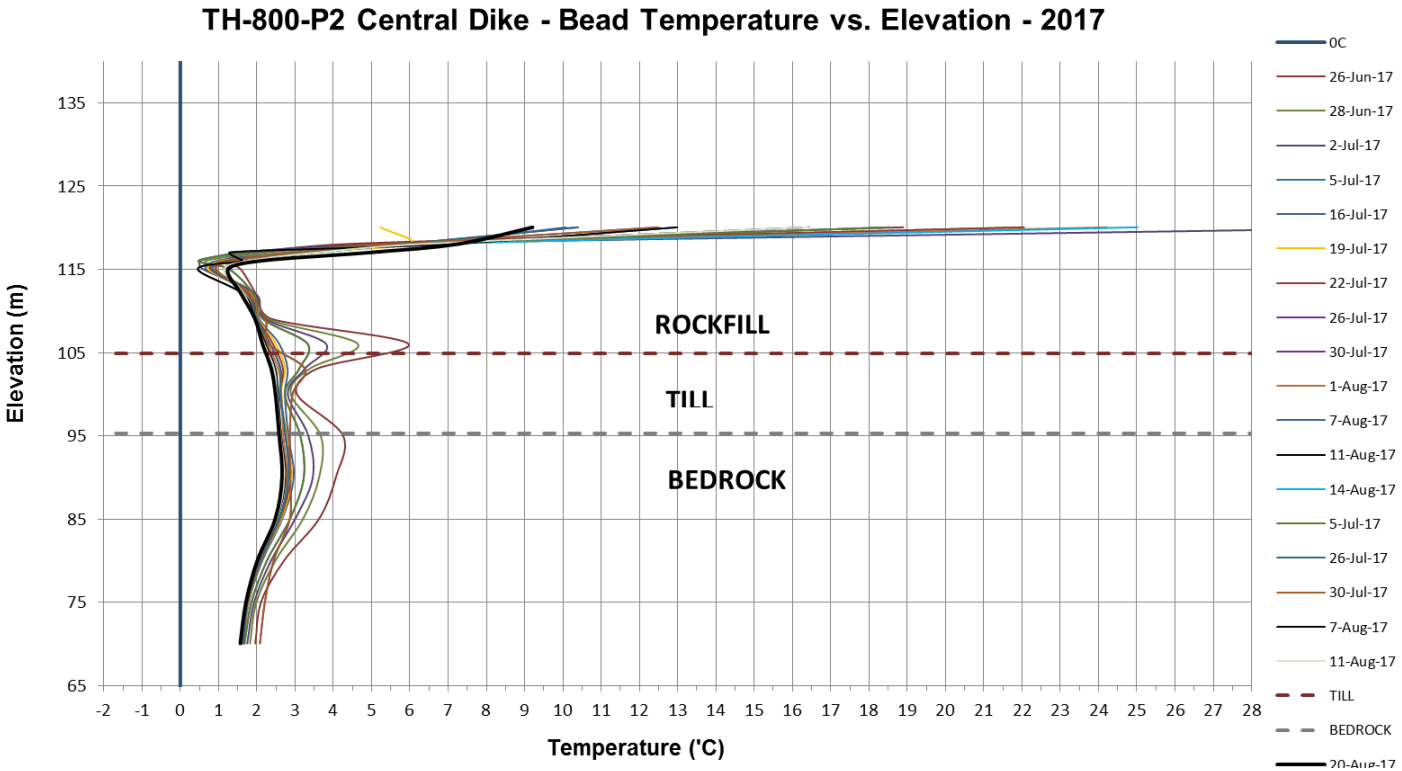


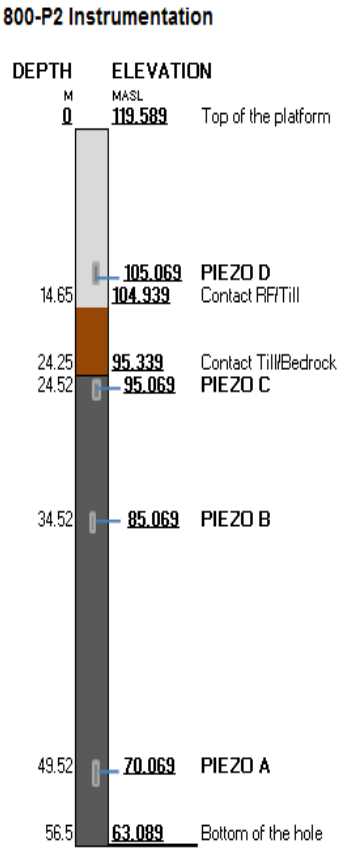


THERMISTOR 800-P2

- New instrument installed in 2017
- Stabilisation of temperature ongoing
- Temperature above 0 ºC

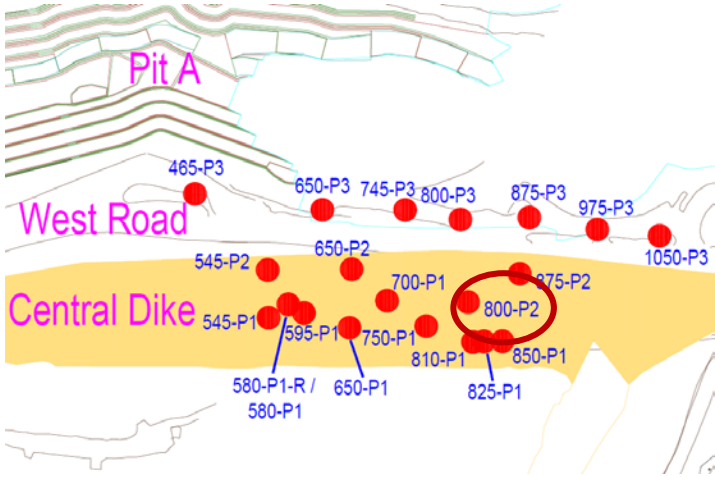


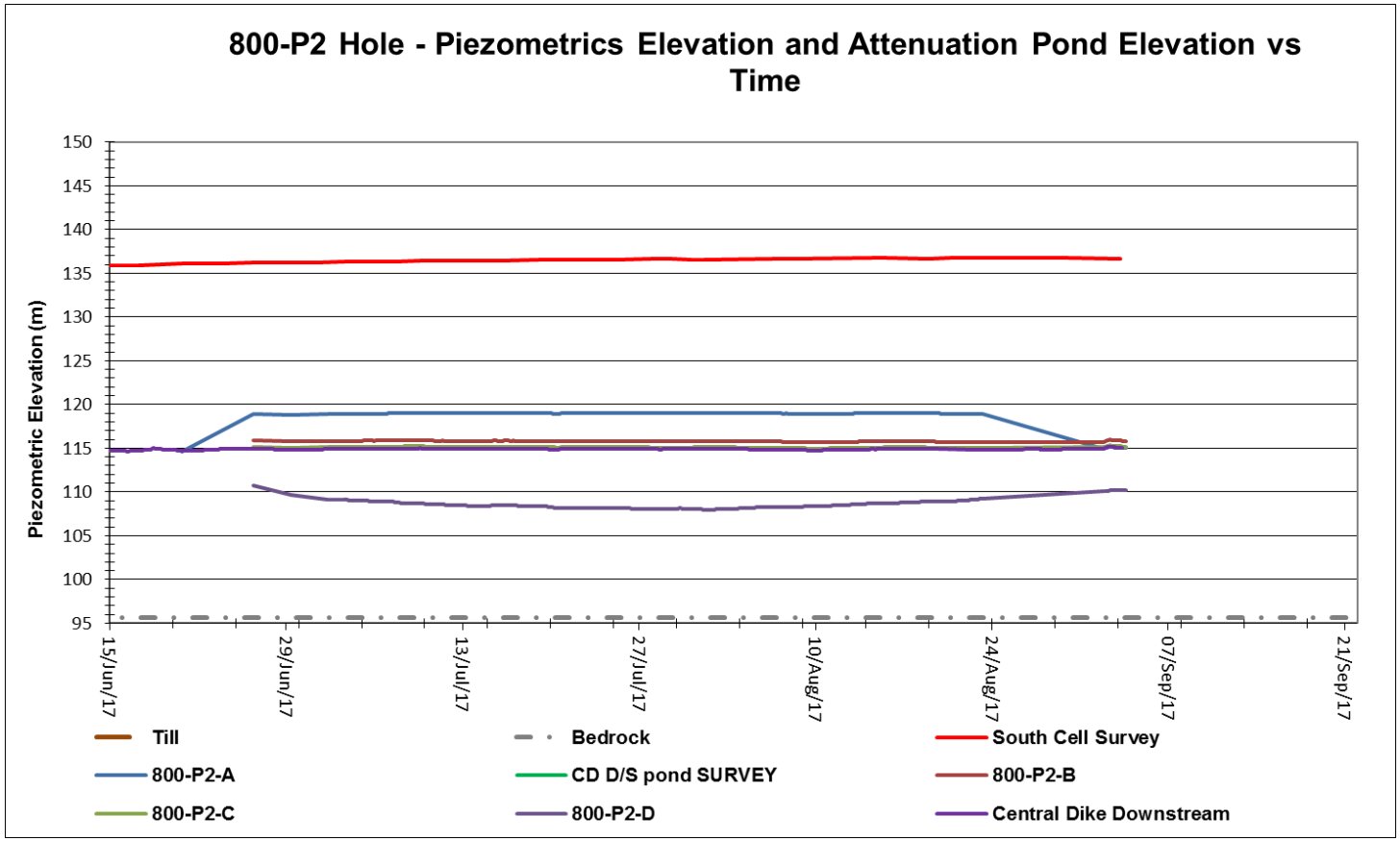


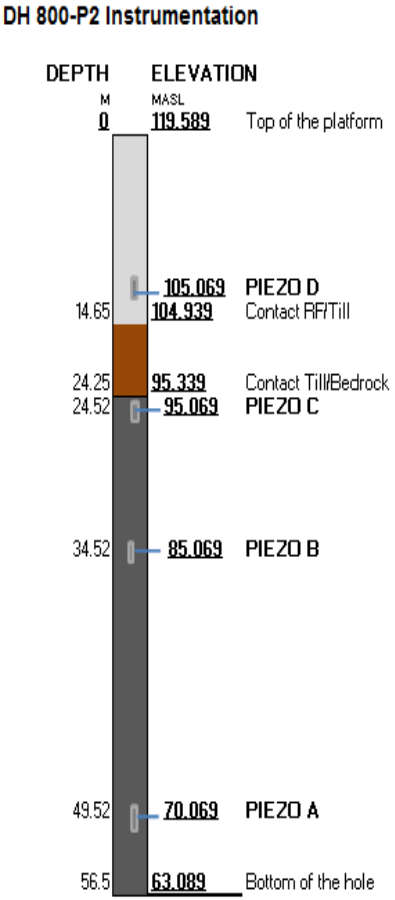


PIEZOMETER 800-P2

- New instrument installed in 2017
- Stabilisation ongoing
- Piezo A,B and C are showing pressure readings similar to the elevation of the D/S pond.

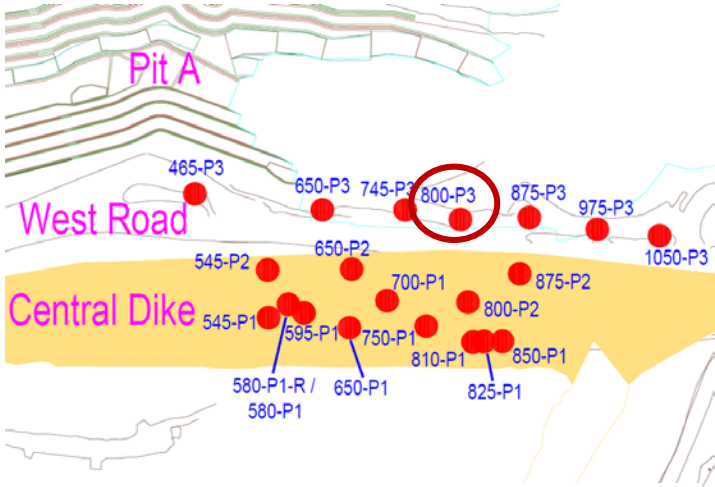




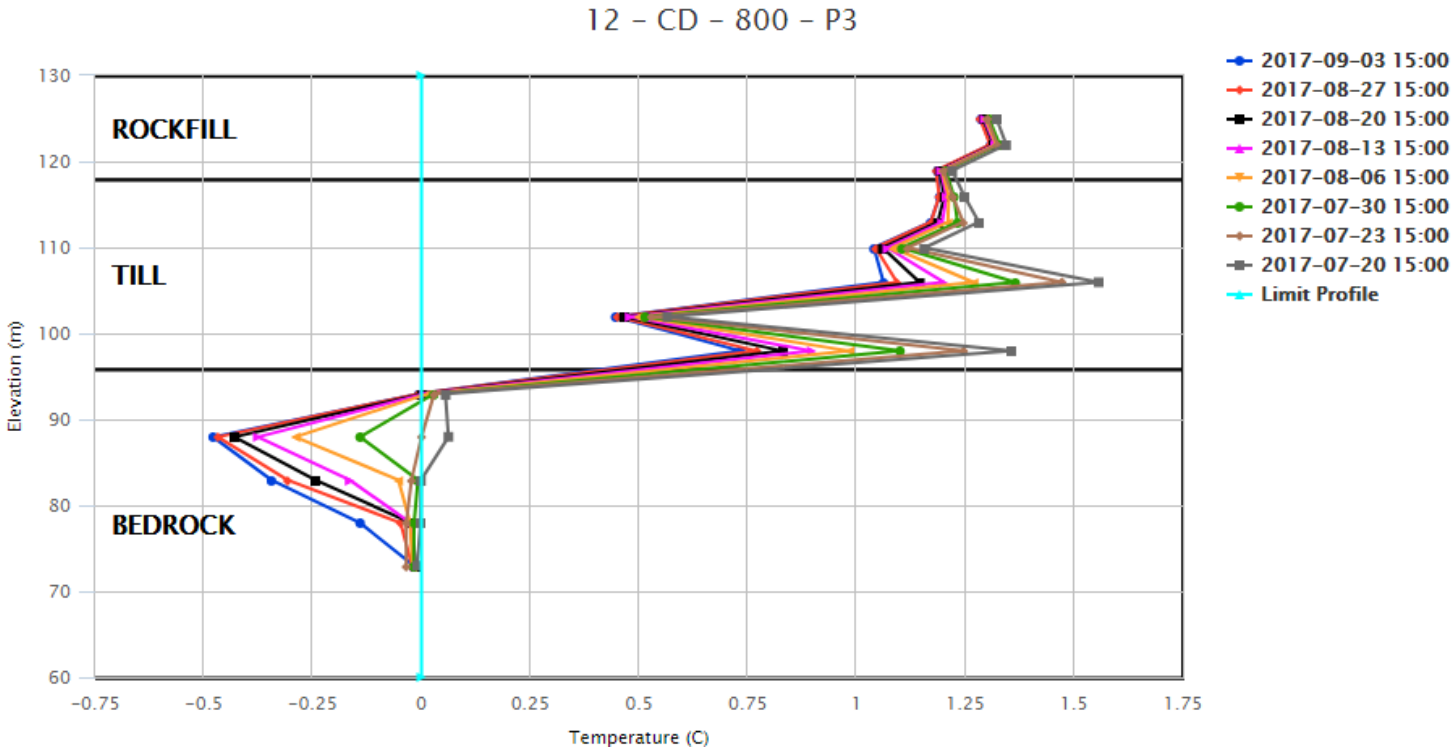


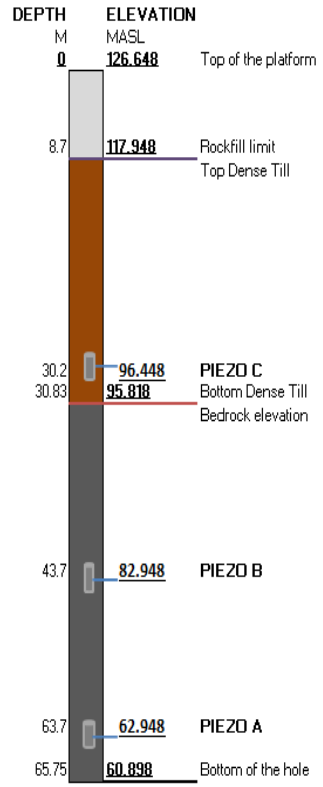
THERMISTOR 800-P3

- New instrument installed in 2017
- Stabilisation in progress
- Temperature under 0º C below El. 93 m



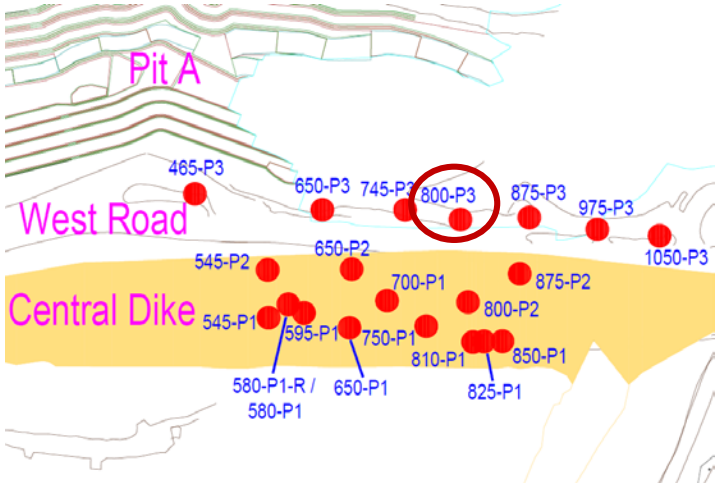
DH 800-P3 Instrumentation

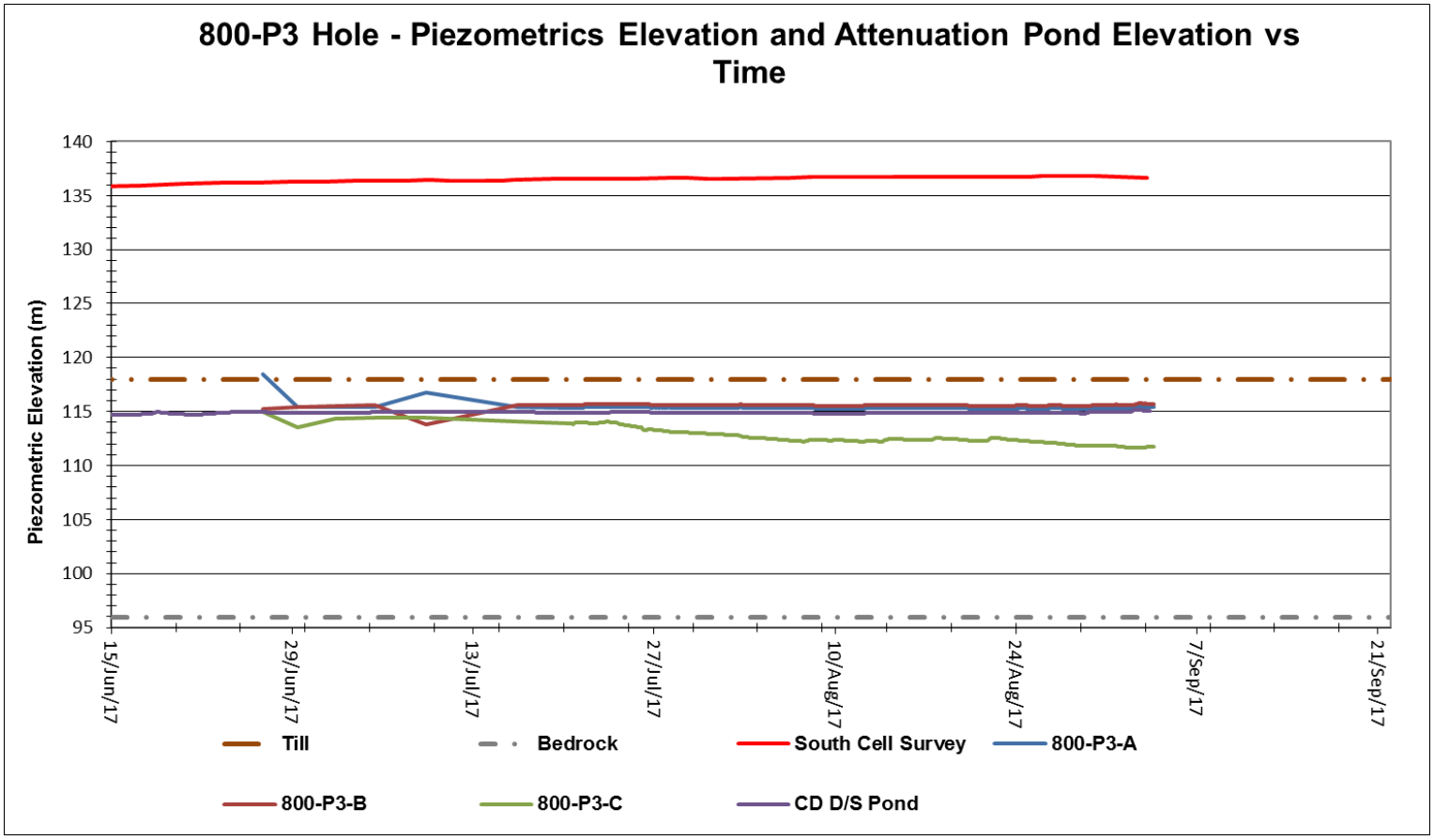




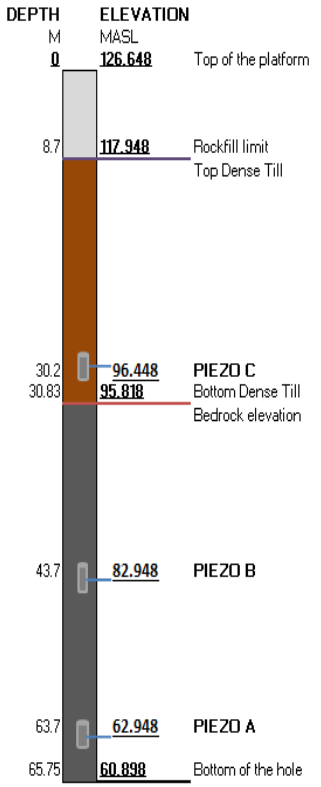
PIEZOMETERS 800-P3

- New instrument installed in 2017
- Stabilization in progress
- Piezo A & B readings are similar to the D/S pond elevation readings
- Piezo C readings is slowly decreasing



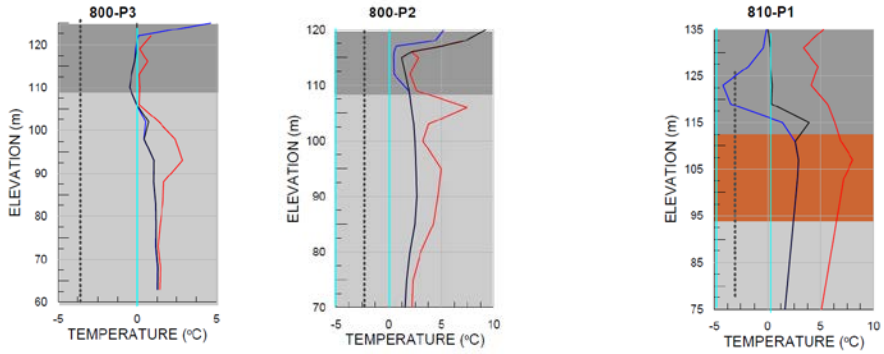


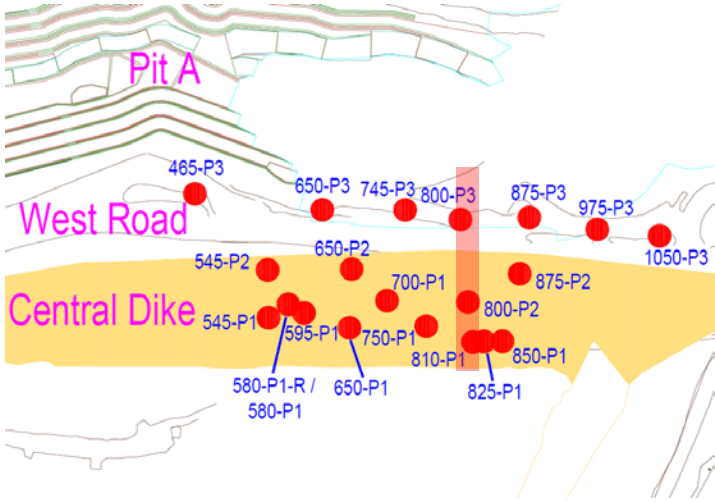
DH 800-P3 Instrumentation



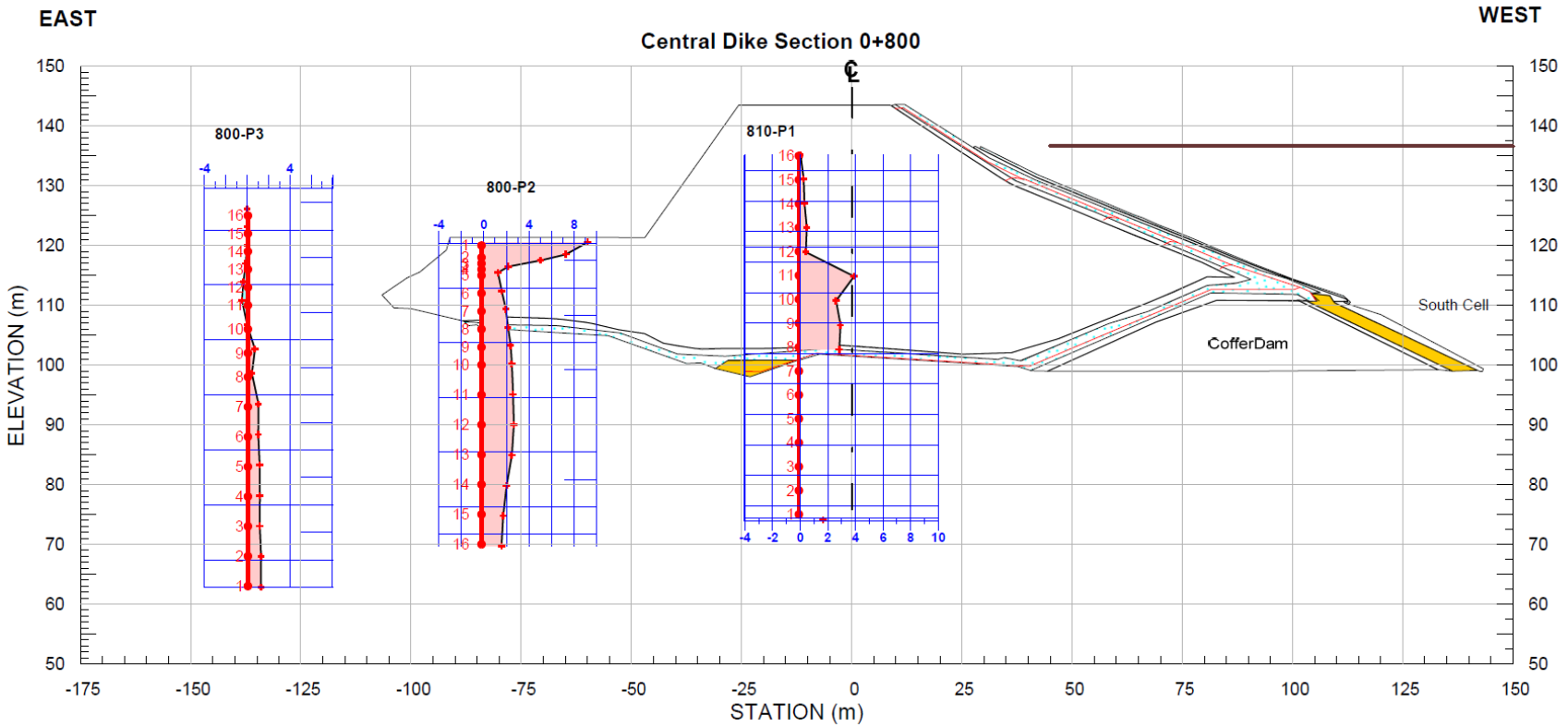
SECTION 800-810

THERMISTOR READINGS FROM AUGUST 2016 - 2017



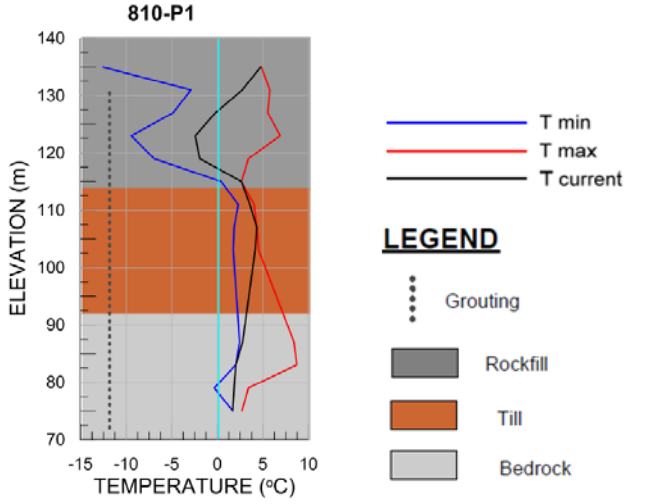


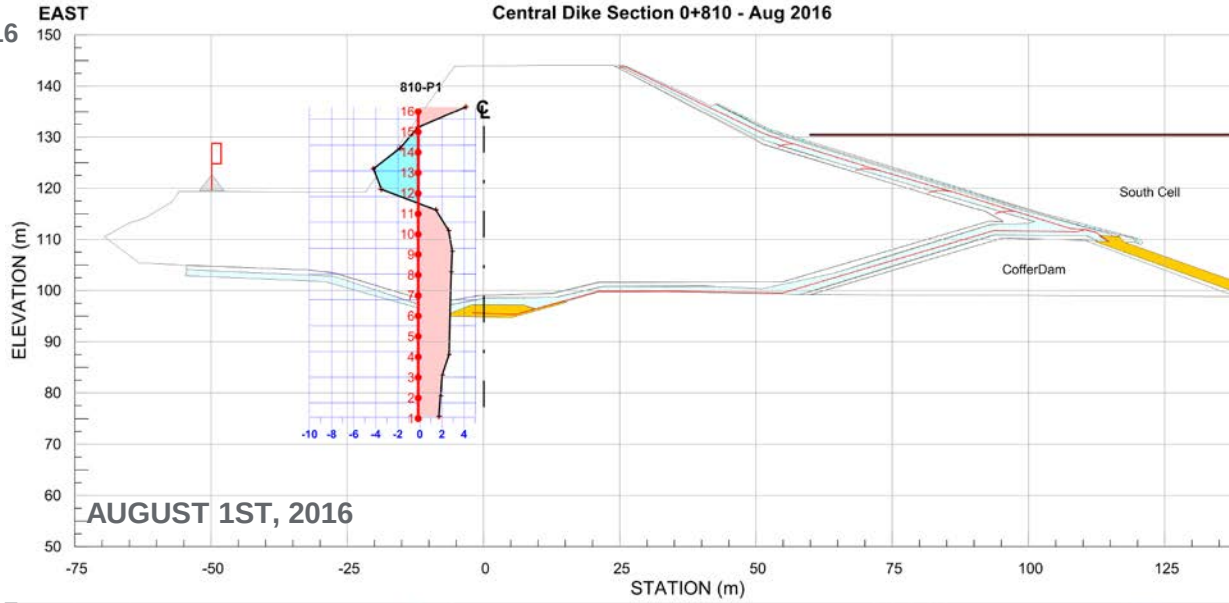
THERMISTOR READINGS AUGUST 1ST, 2017



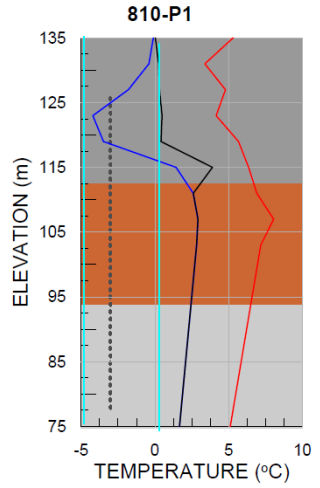
SECTION 800-810

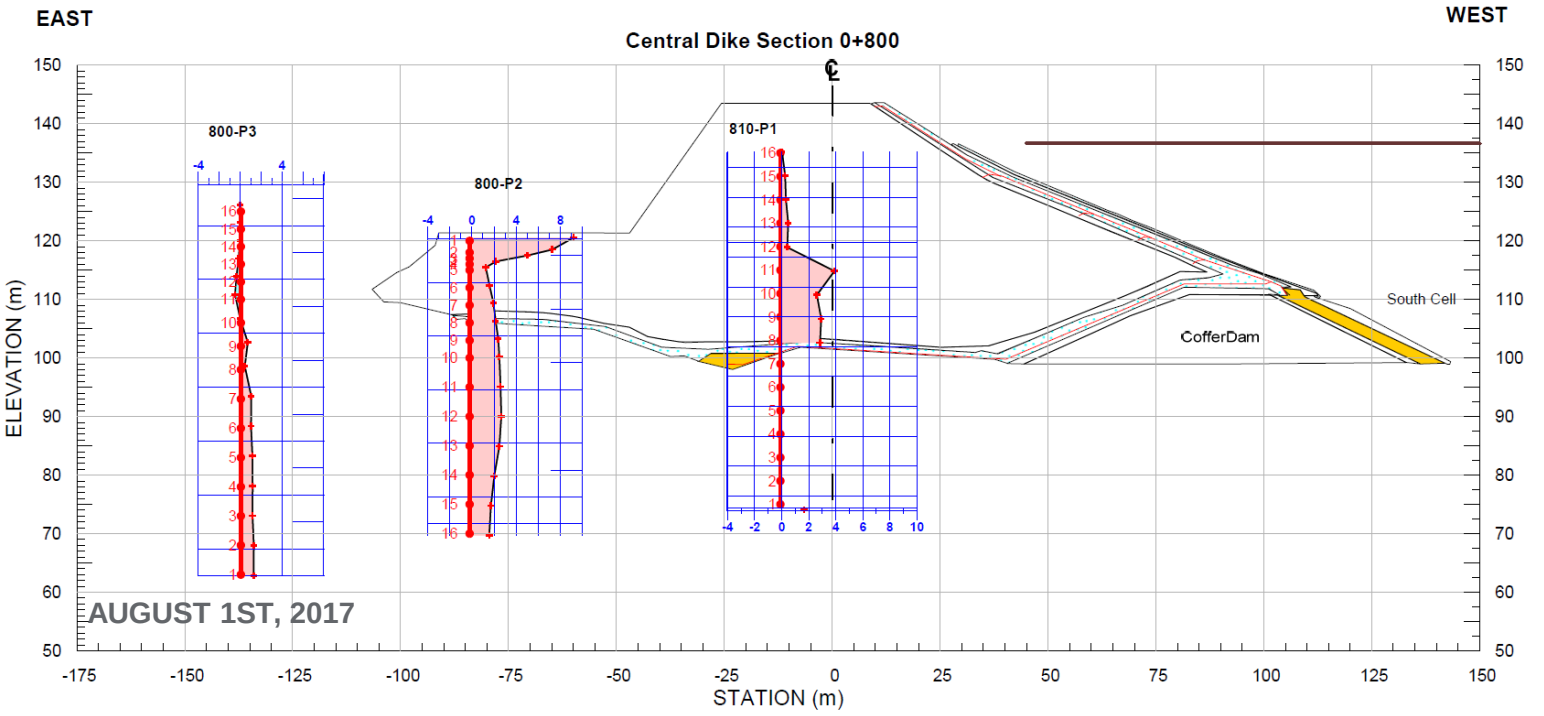
THERMISTOR READINGS FROM AUGUST 2015 - 2016





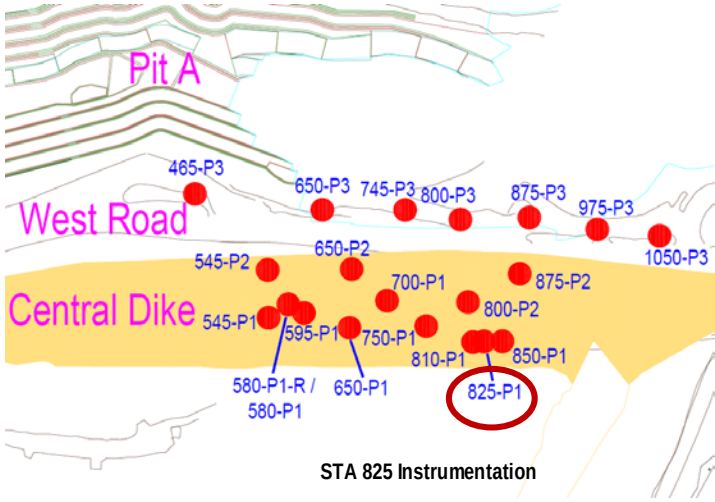
THERMISTOR READINGS FROM AUGUST 2016 - 2017



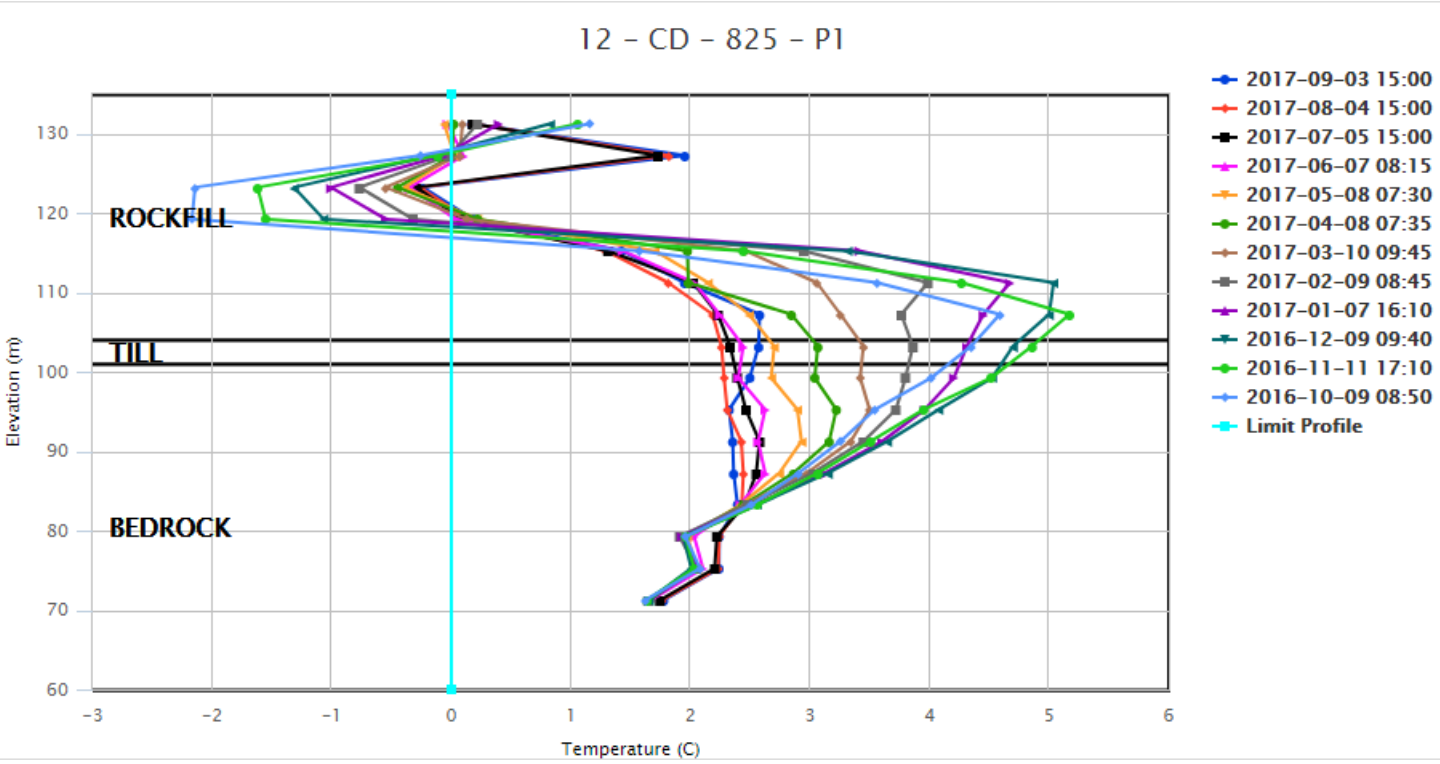


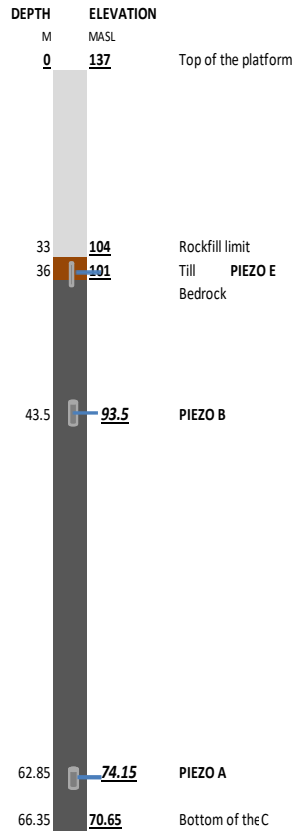
THERMISTOR 825-P1

- Temperature variation over the year inside the bedrock/till units is higher than in the previous year:
- 2016: [1.5, 3.2]
- 2017: [1.6, 4.5]
- Generally warmer readings recorded over the last year.



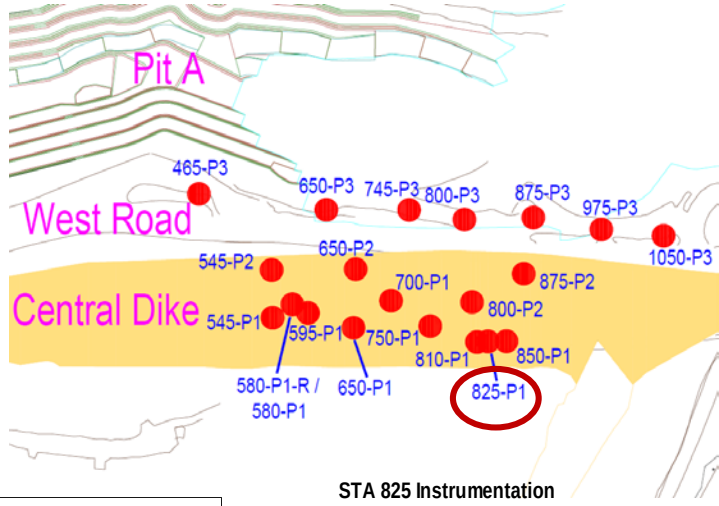
STA 825 Instrumentation



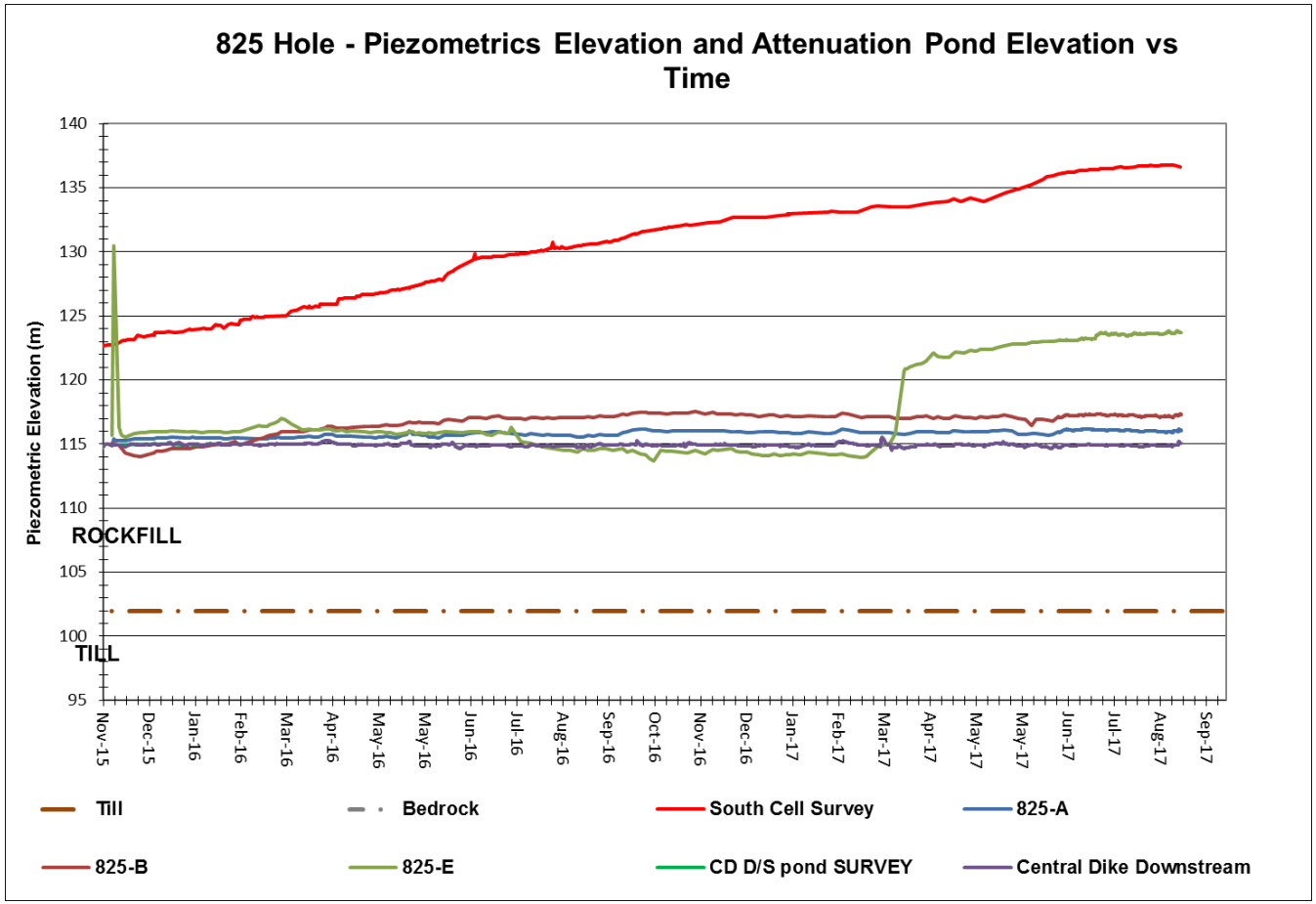


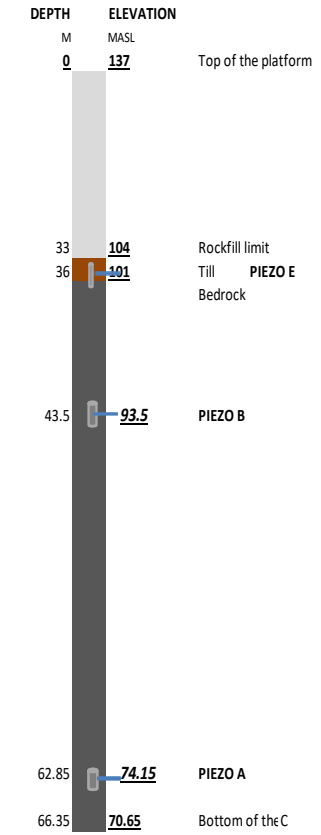
PIEZOMETER 825-P1

- Increased in piezometric elevation of Piezo E since April 2017. Seem to be connected now with South Cell.
- Piezo A and B showing readings similar to the D/S pond and are reacting directly with elevation change.



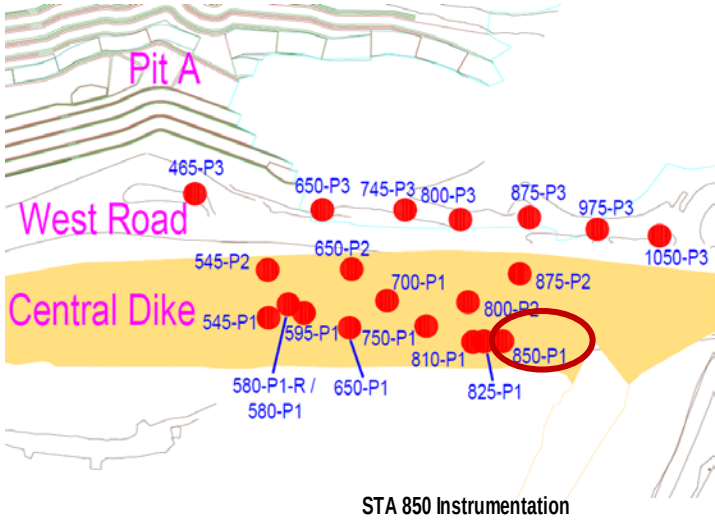
STA 825 Instrumentation



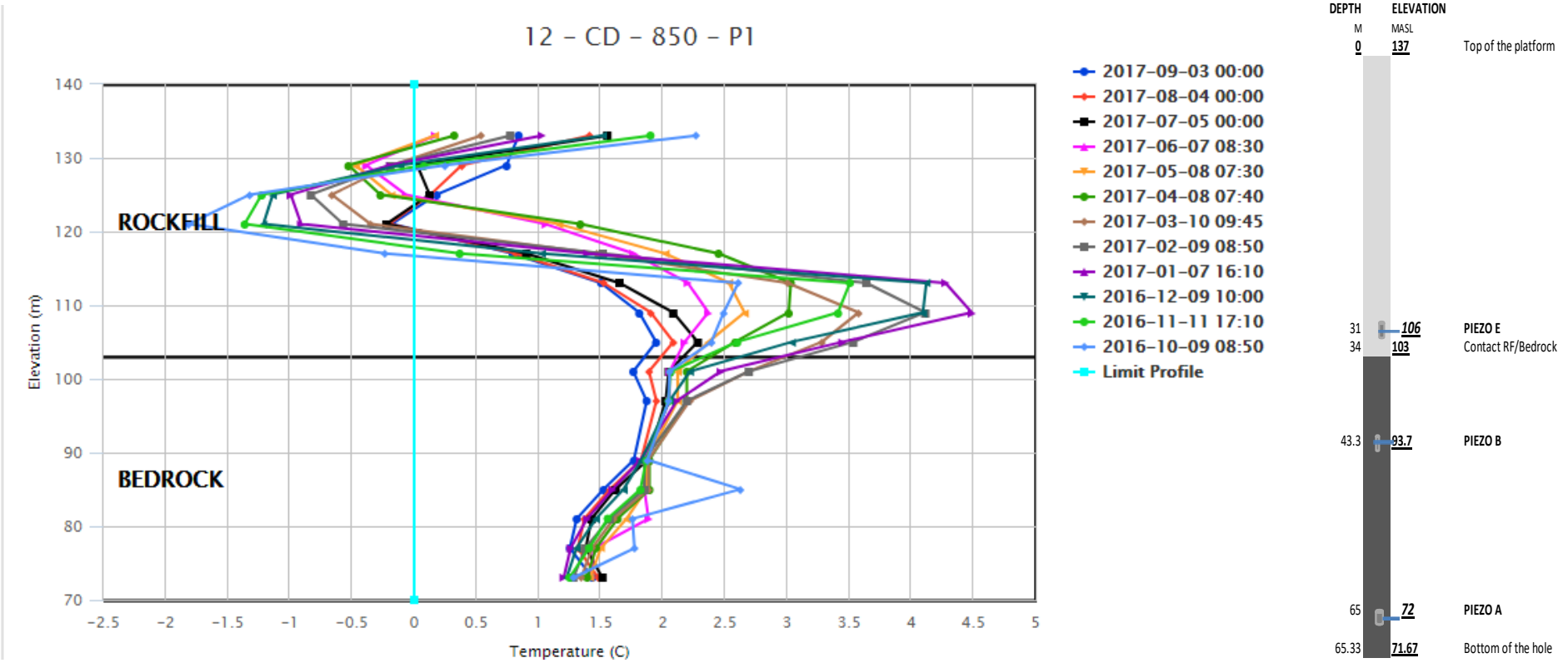


THERMISTOR 850-P1

- Temperature above 0º C in bedrock at 850-P1
- Similar profile than in 2016

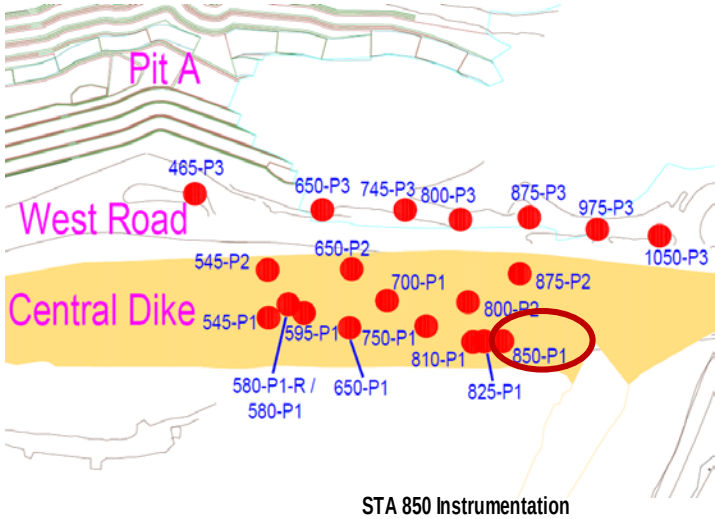


STA 850 Instrumentation

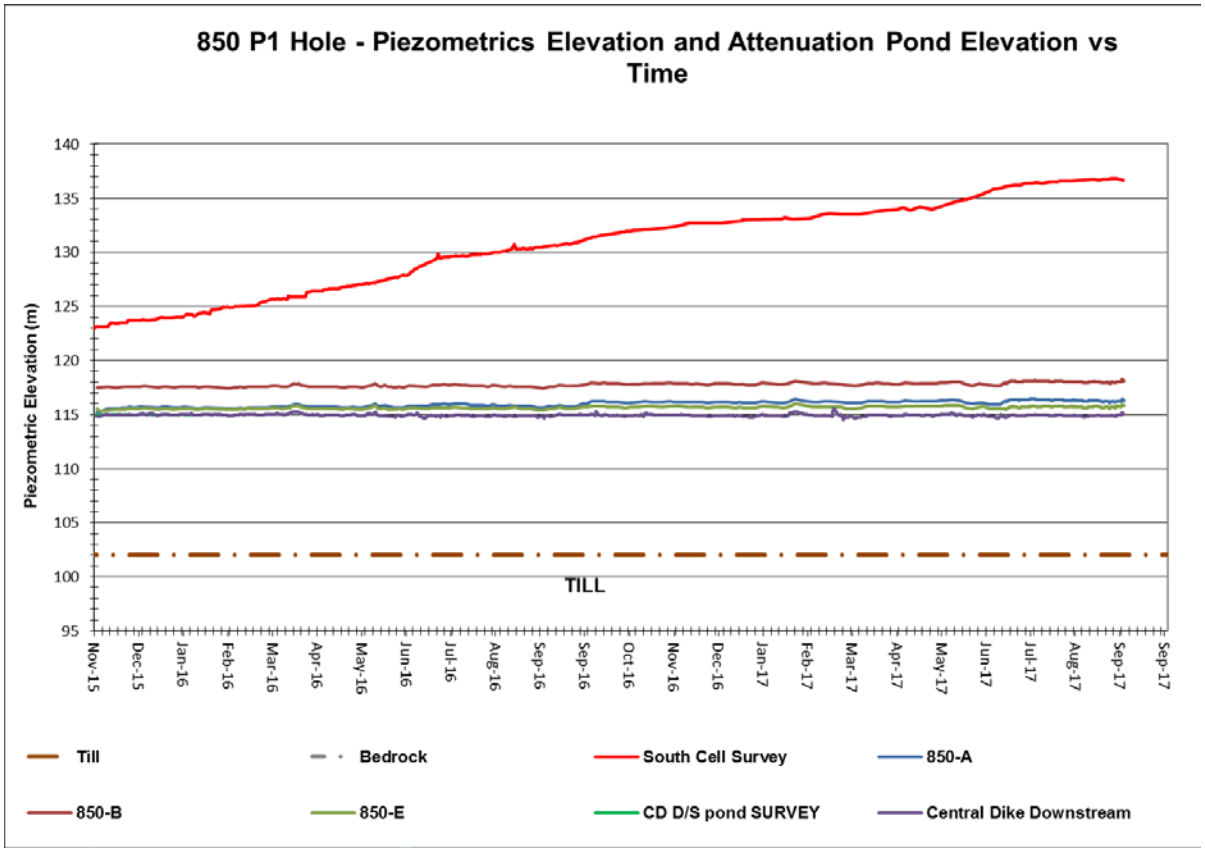


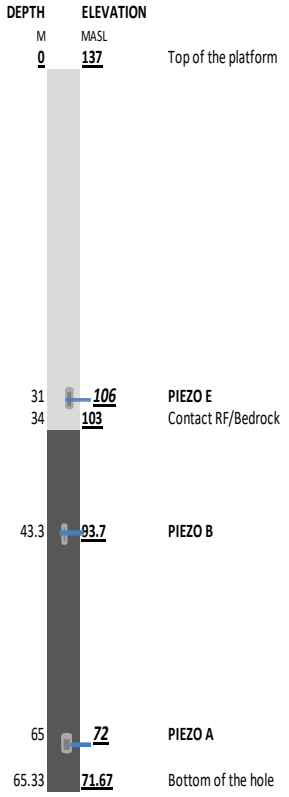
PIEZOMETER 850-P1

- All piezometer are following the trend of the D/S pond regime
- However piezo B is one of the highest in the piezometer readings that have stable reading (117.5m)



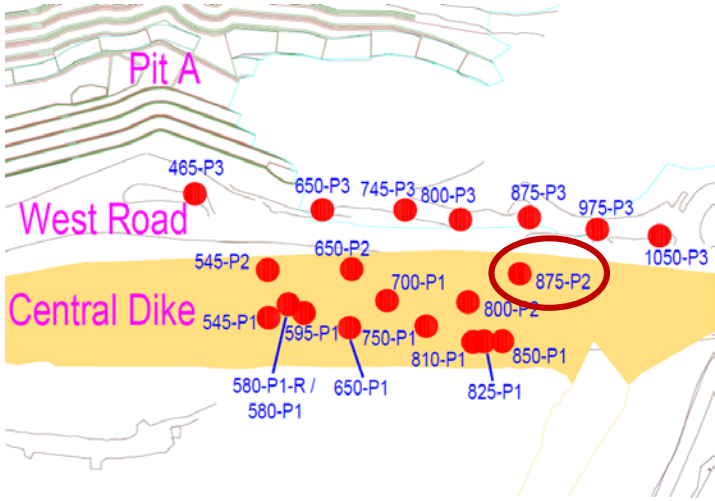
STA 850 Instrumentation

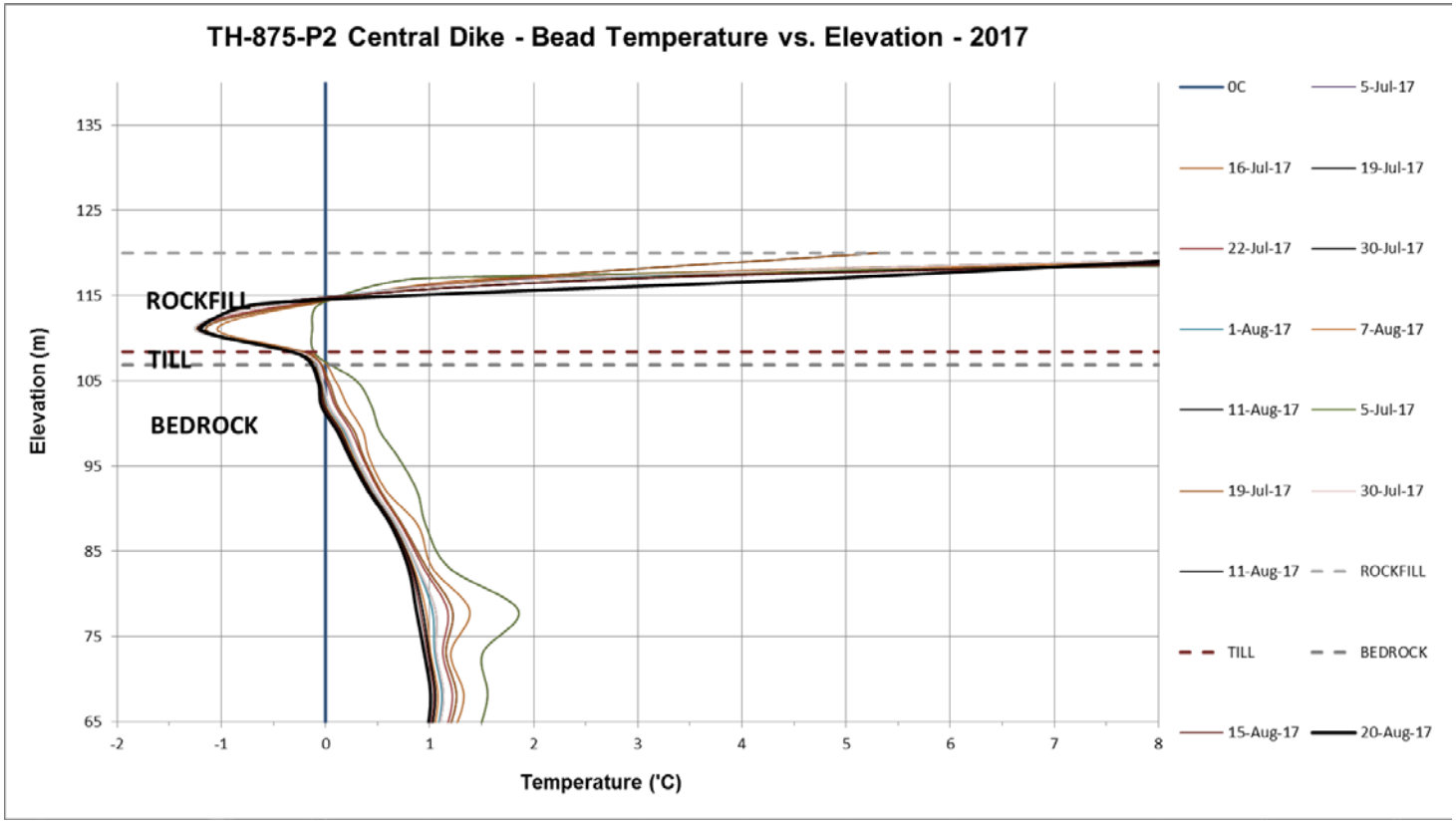


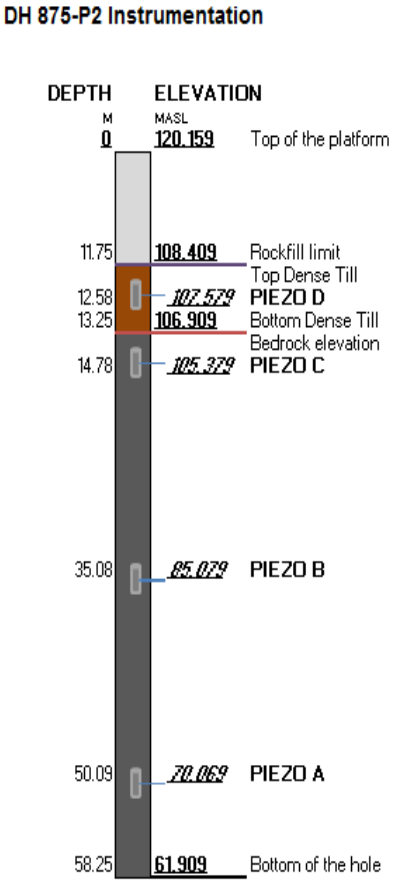


THERMISTOR 875-P2

- New thermistor installed in 2017
- Stabilisation of temperature ongoing
- Bedrock temperature above 0º C

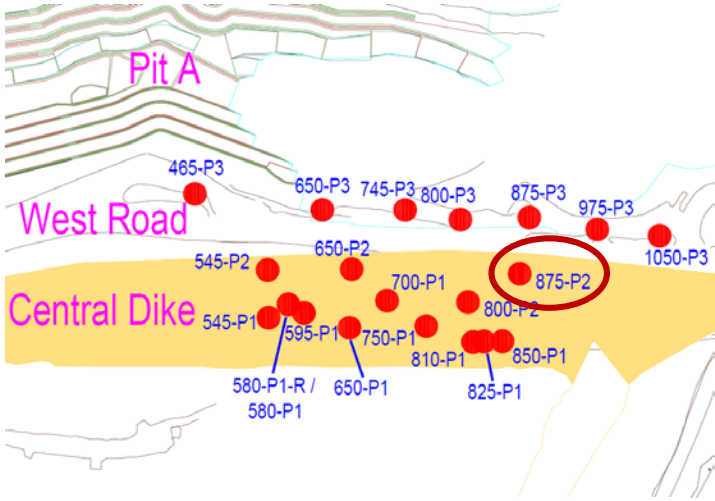


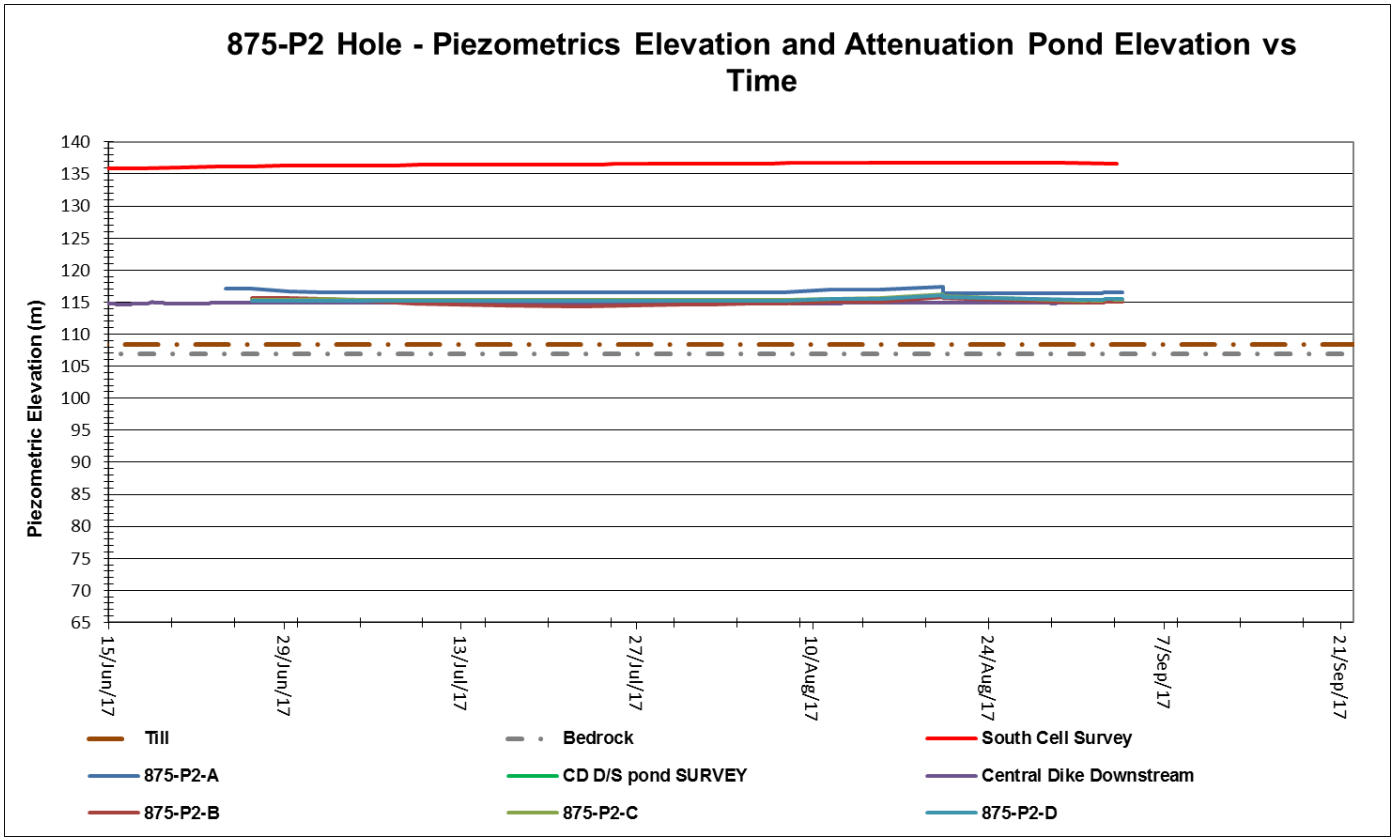


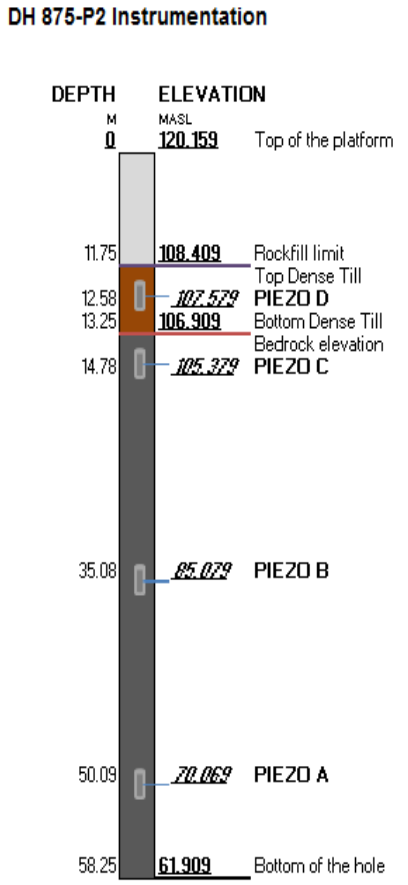


PIEZOMETER 875-P2

- All piezometer are following the trend of the D/S pond regime
- Small glitch in the data was observed when automatization of the system was completed

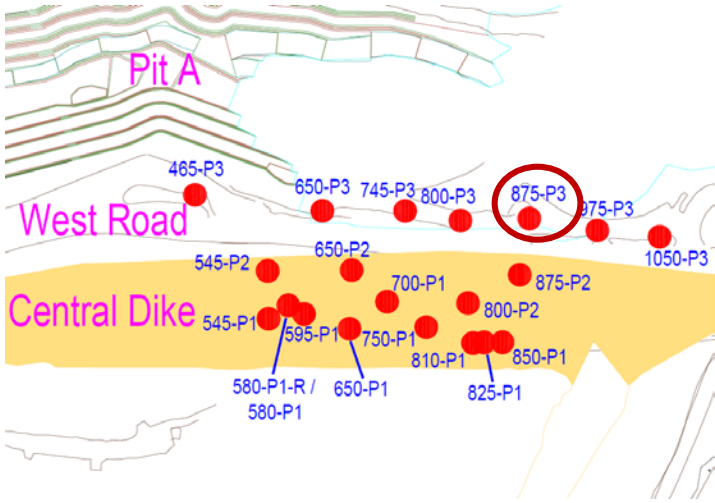


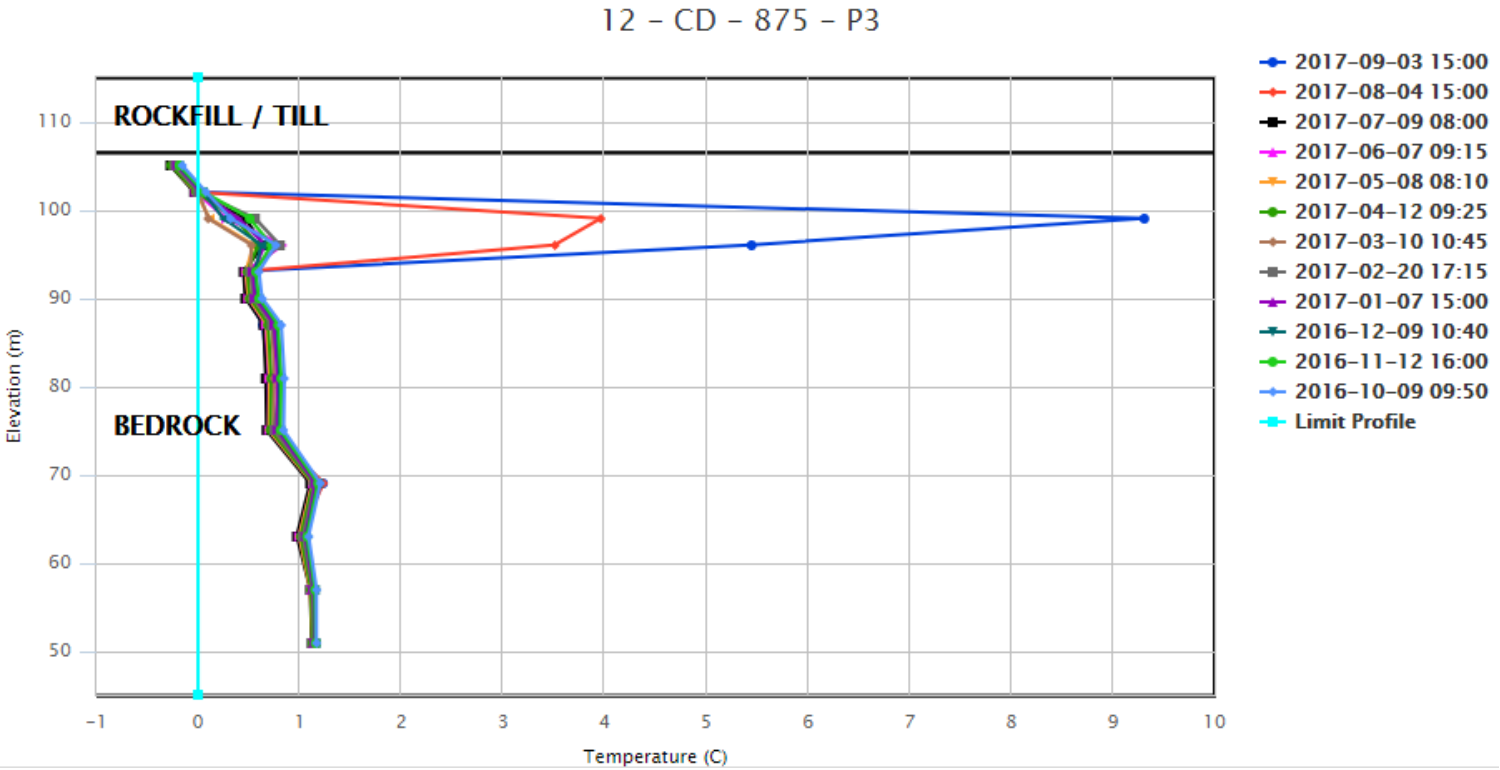


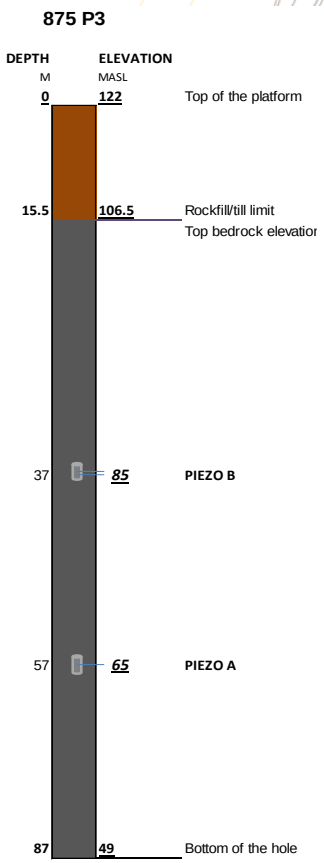


THERMISTOR 875-P3

- Temperature above 0º C in bedrock at 875-P3
- Temperature spike at El.96 m and 99 m are realted to capicitance effect.

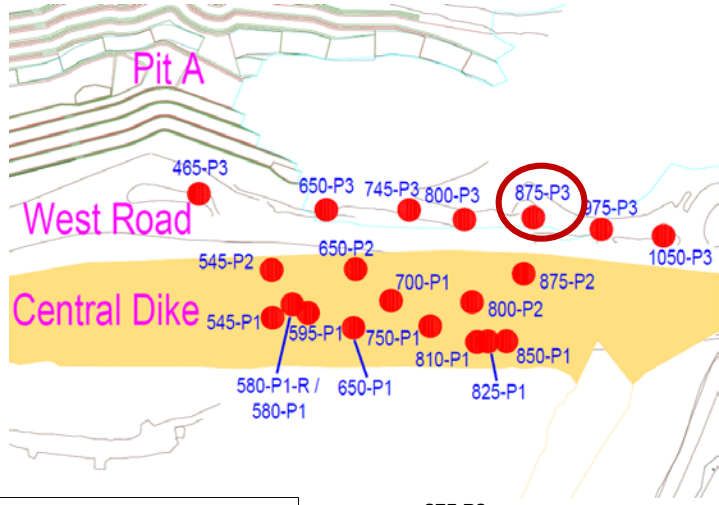


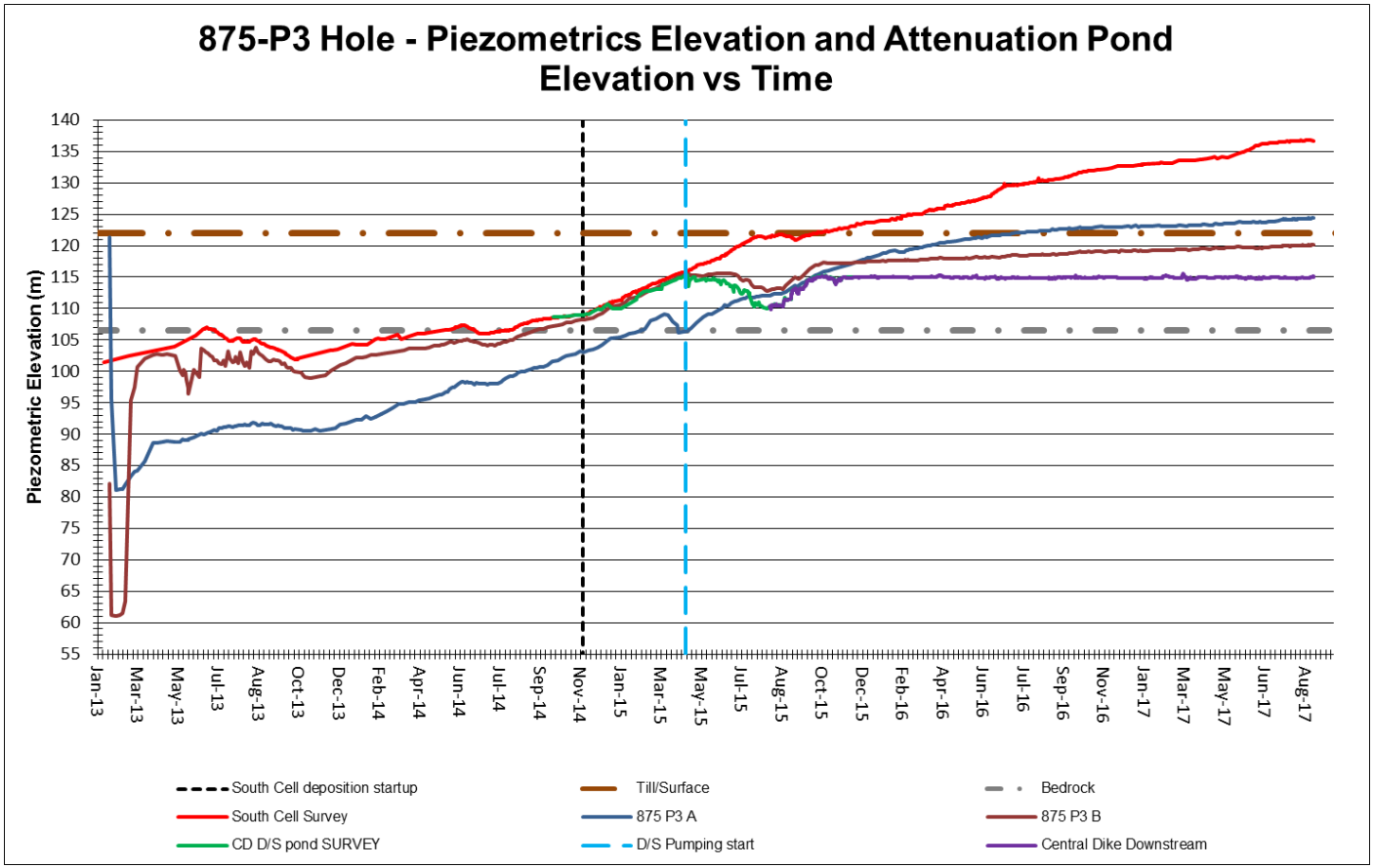


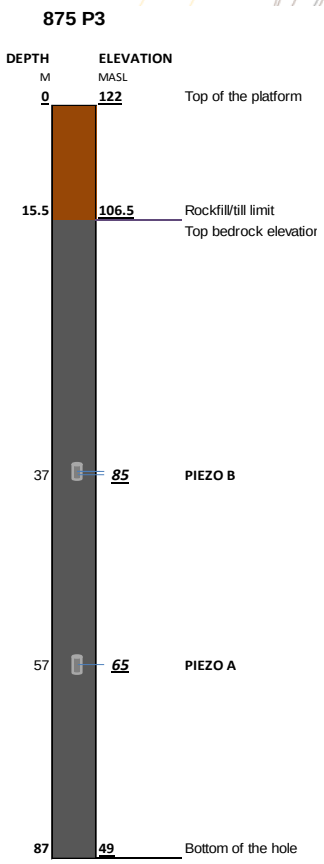


PIEZOMETER 875-P3

- Piezometer at 875-P3 are in bedrock and are impacted by increase in South Cell head

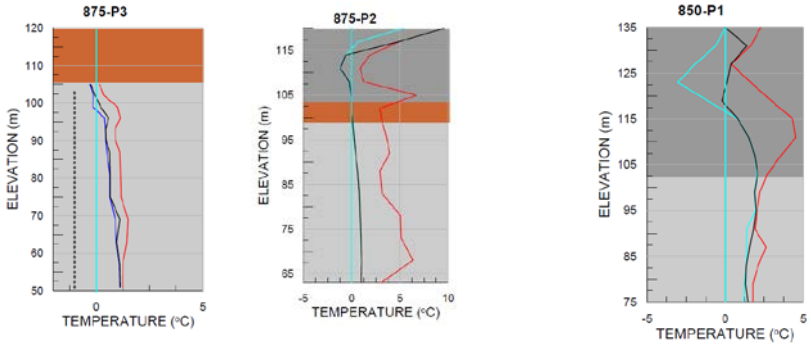


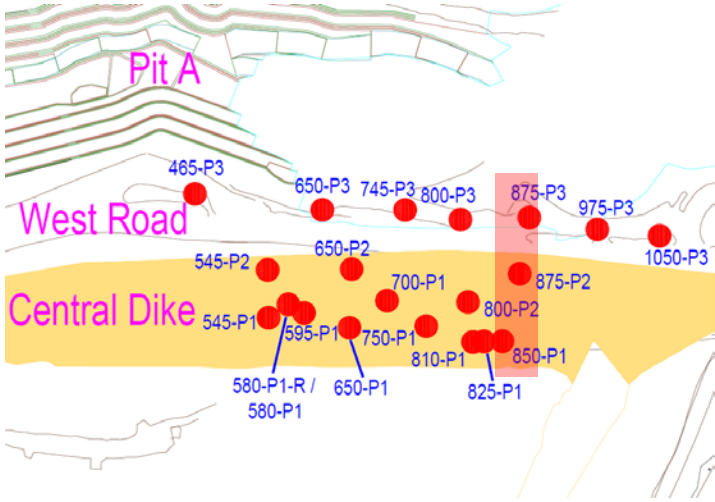




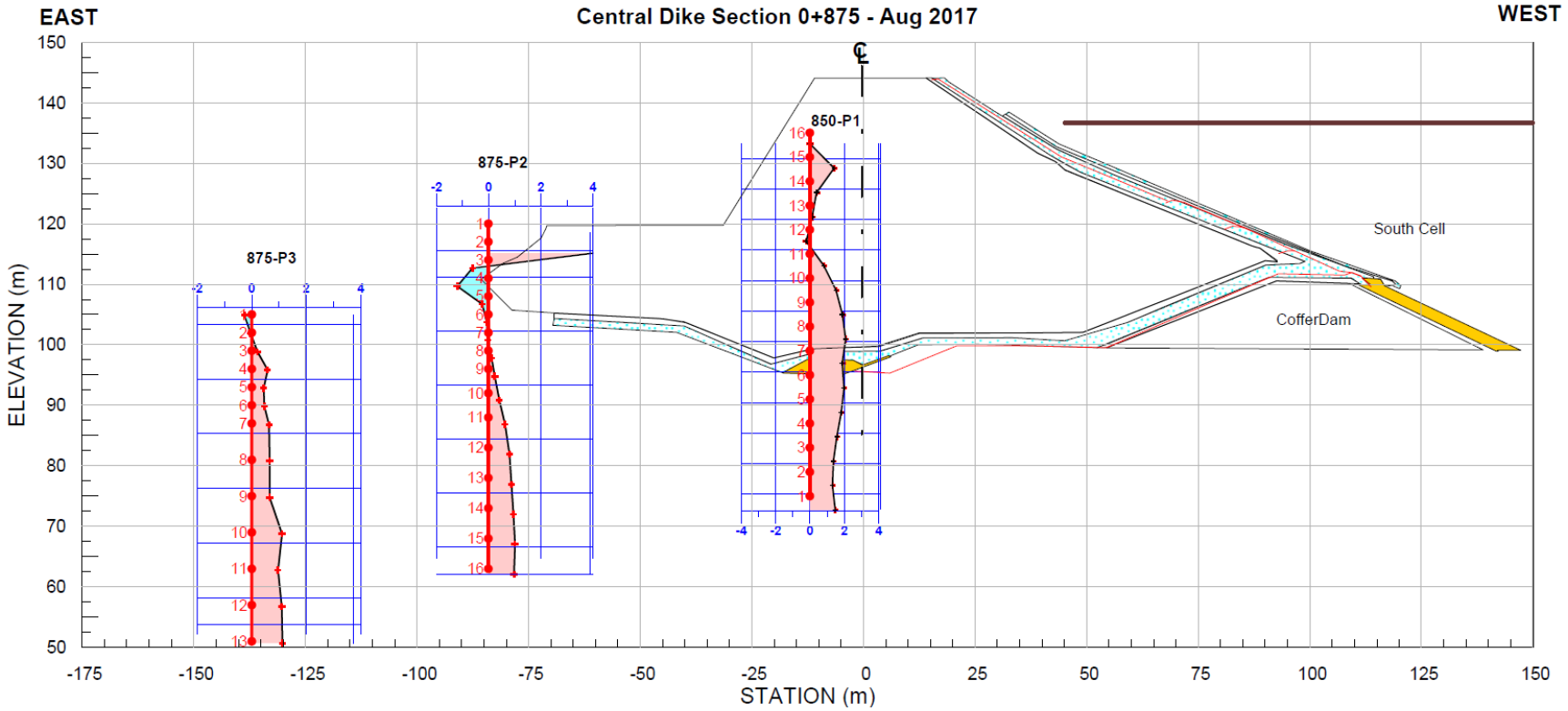
SECTION 850-875

THERMISTOR READINGS FROM AUGUST 2016 - 2017

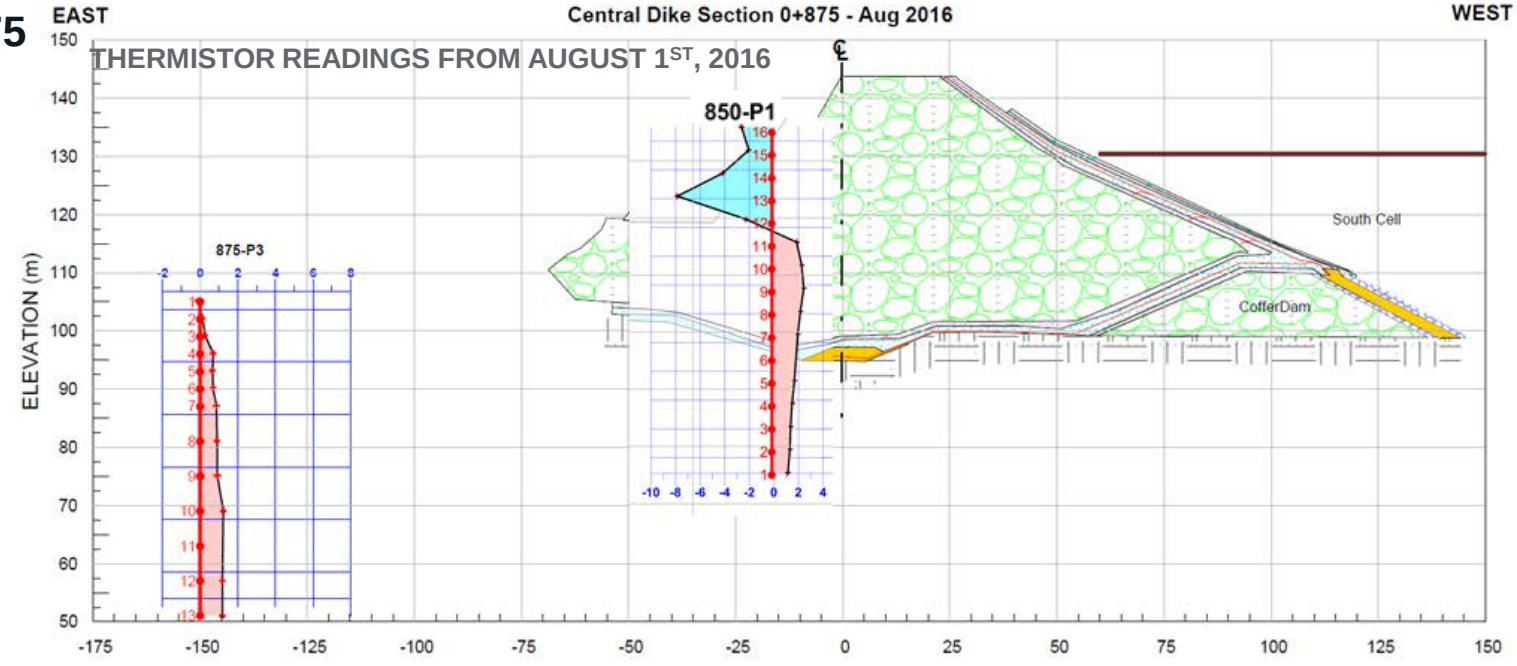


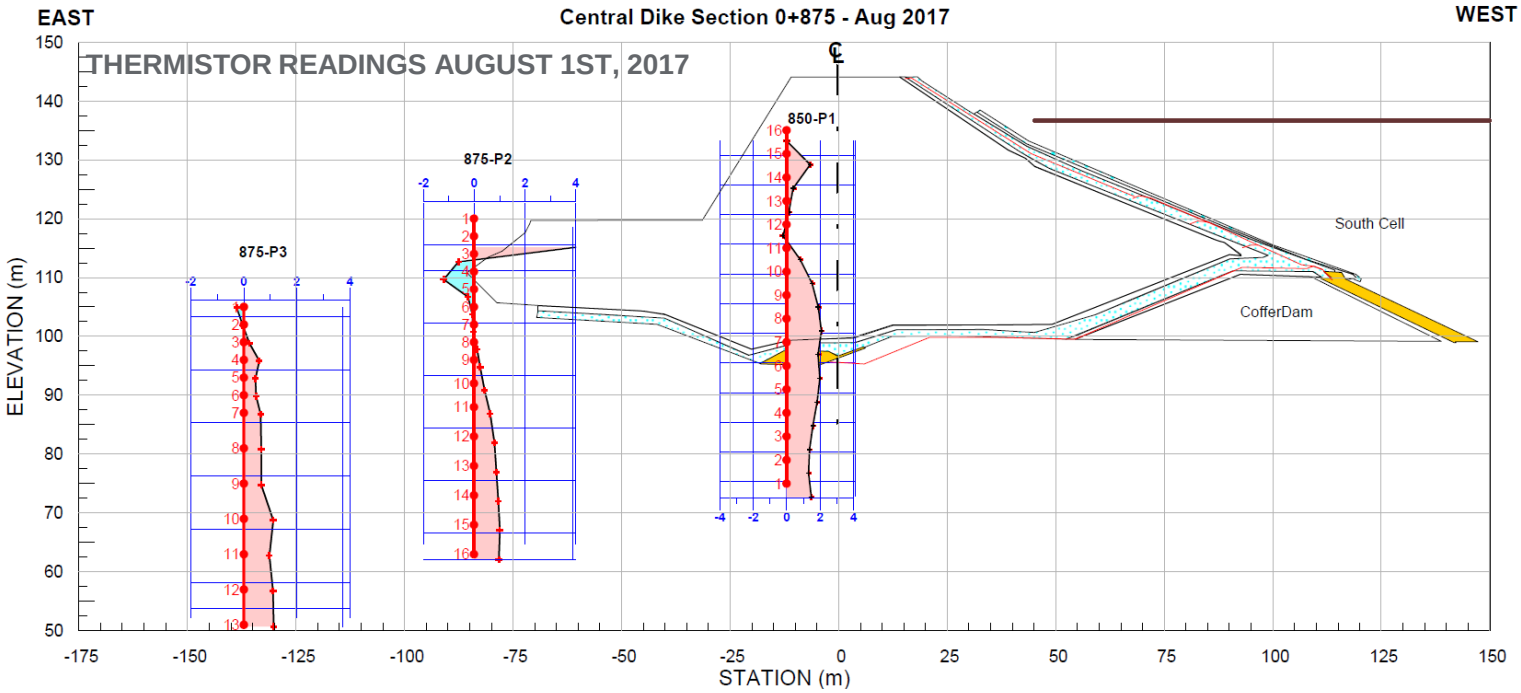


THERMISTOR READINGS AUGUST 1ST, 2017



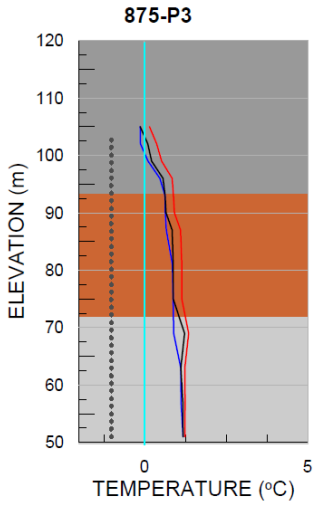
SECTION 850-875

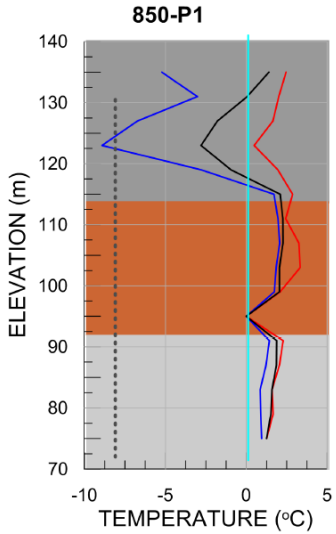




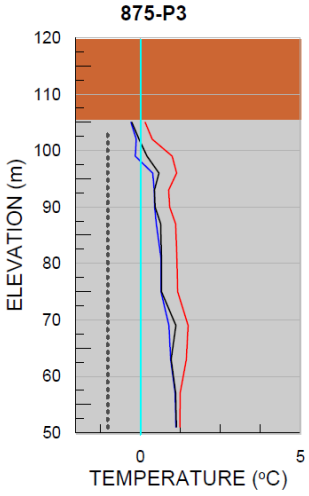
SECTION 850-875

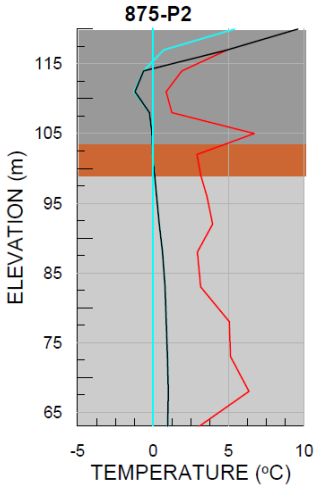
THERMISTOR READINGS AUGUST 2015-2016

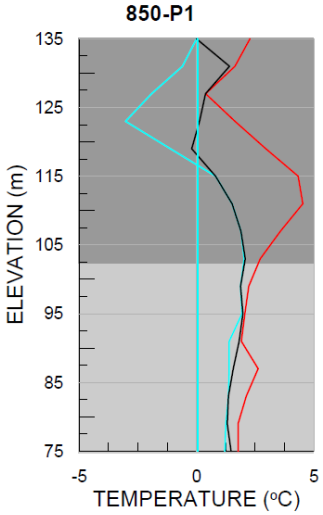


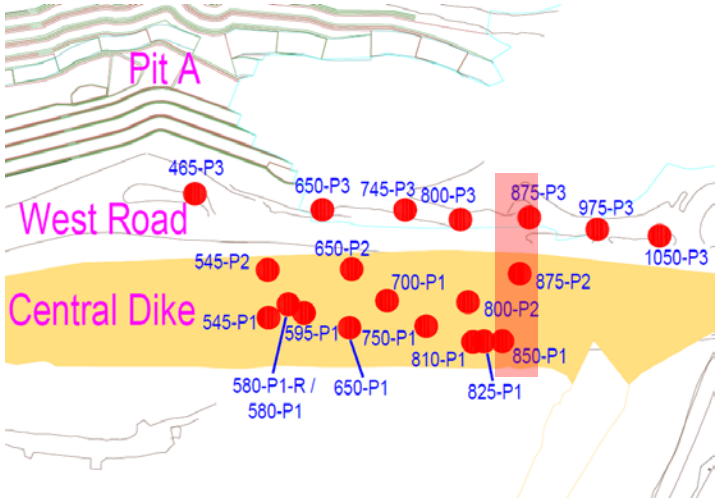


THERMISTOR READINGS AUGUST 2016-2017









T min
T max
T current

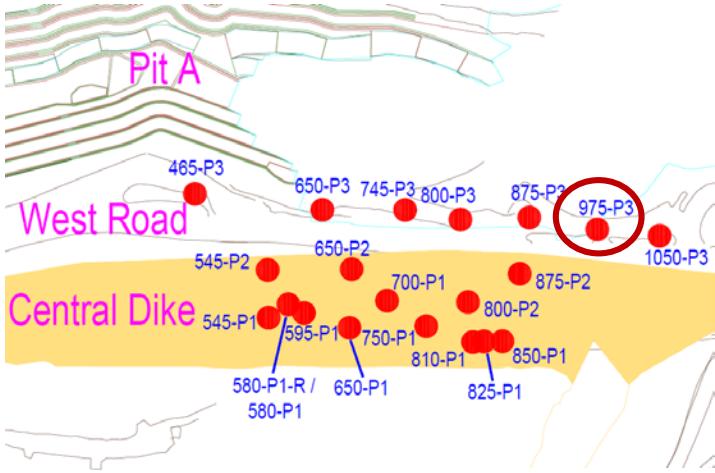
LEGEND

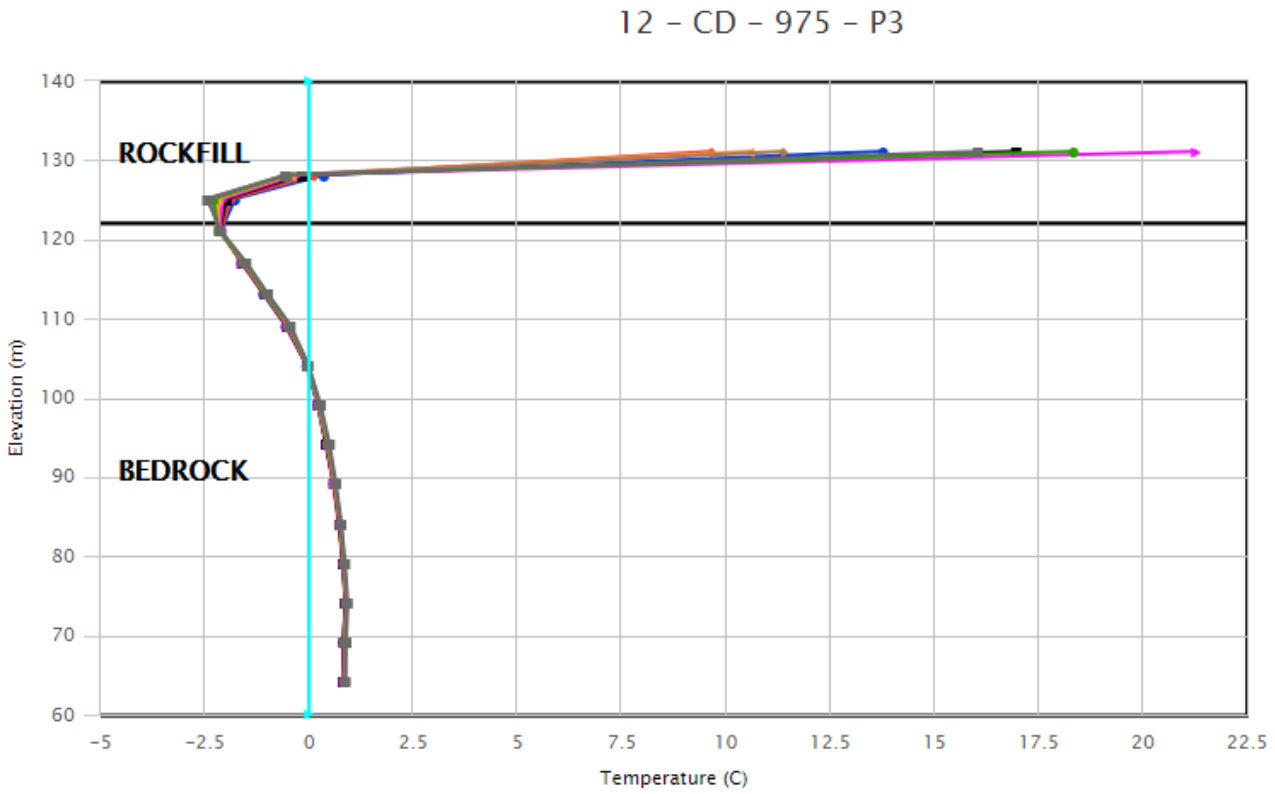
Grouting
Rockfill
Till
Bedrock

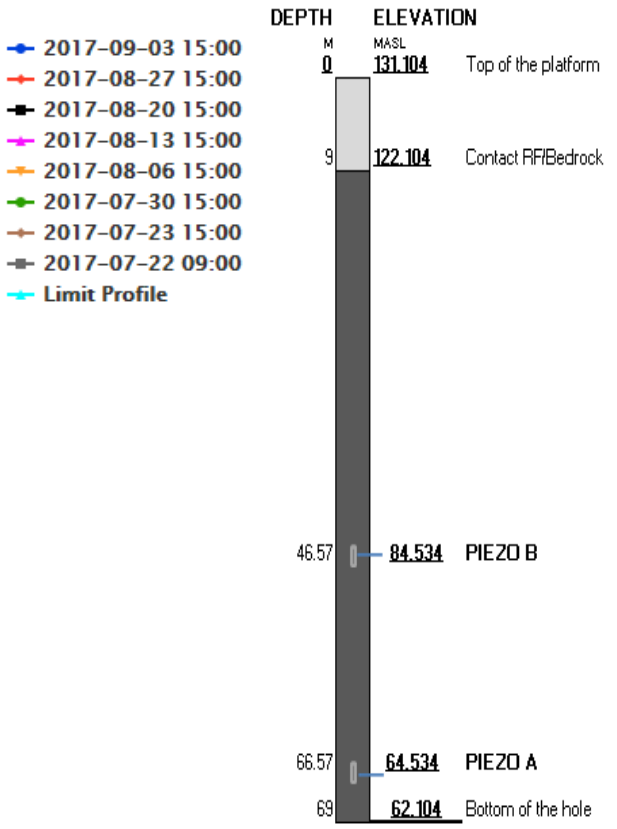
2017 graph are showing the good representation of the bedrock/till/rockfill units

THERMISTOR 975-P3

- New instrument installed in 2017
- Stabilization of the thermistor mostly done
- Temperature above 0º C in bedrock below El. 105 m

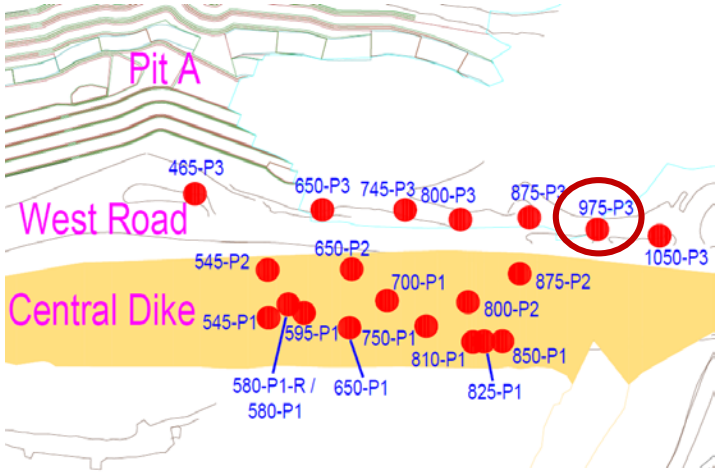


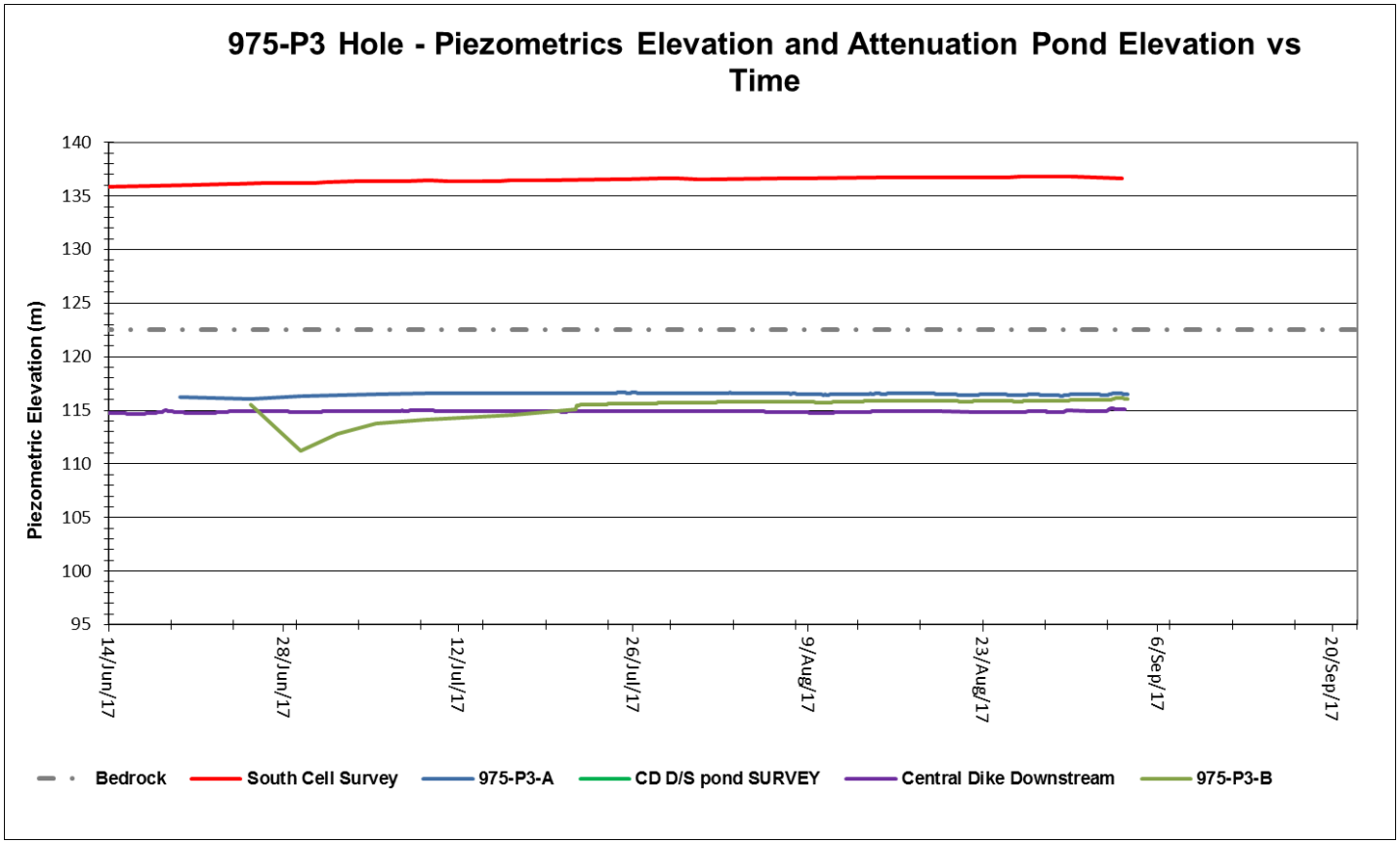


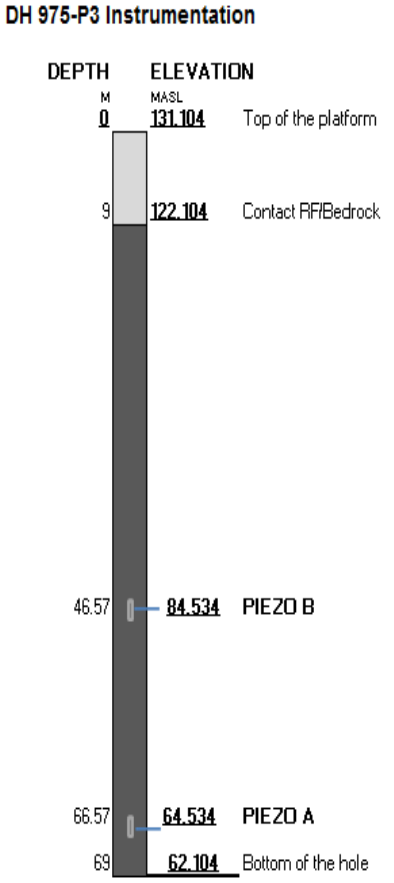


PIEZOMETER 975-P3

- New instrument installed in 2017
- All piezometer are following the trend of the D/S pond regime

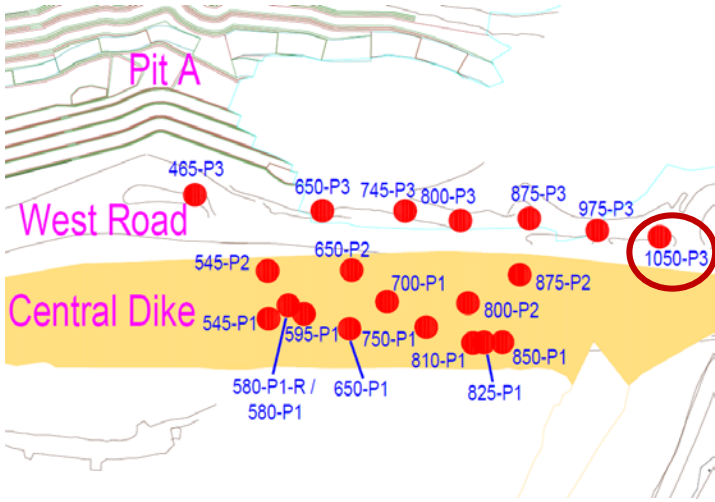


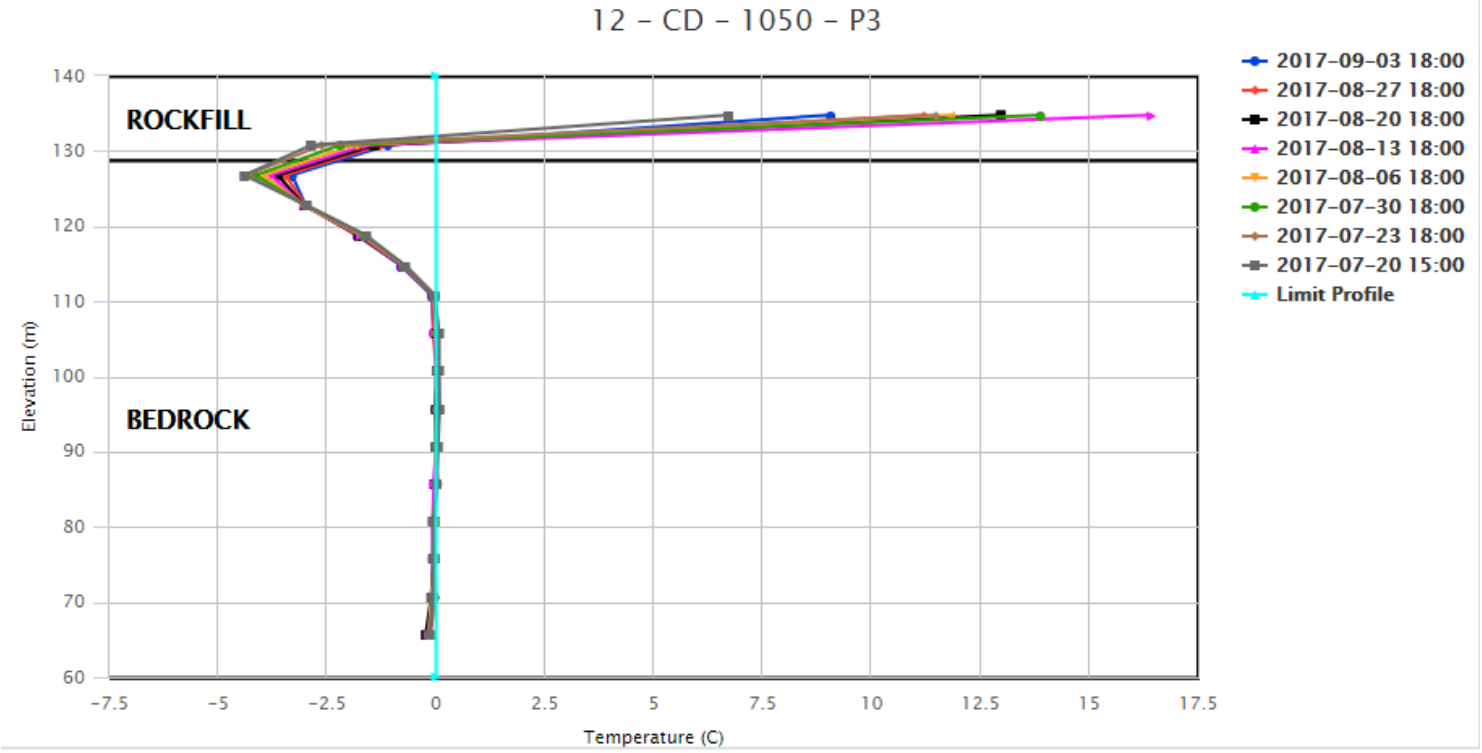


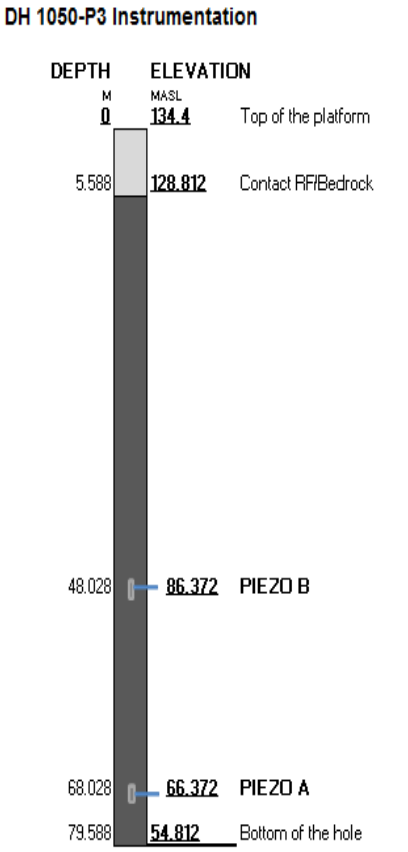


THERMISTOR 1050-P3

- Temperature at 0º C in bedrock

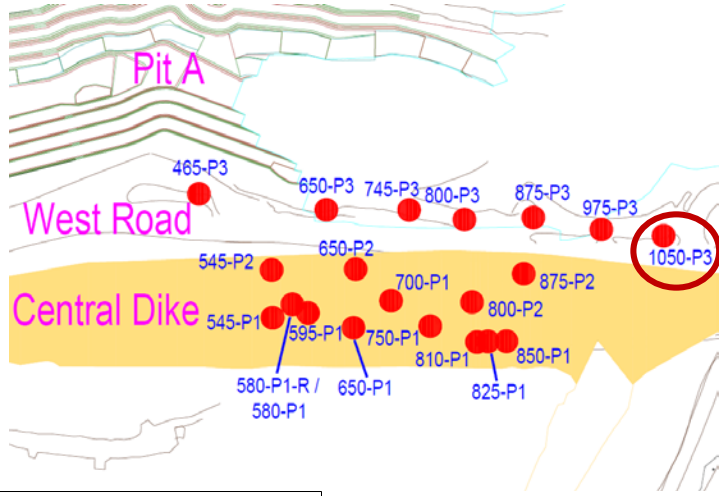


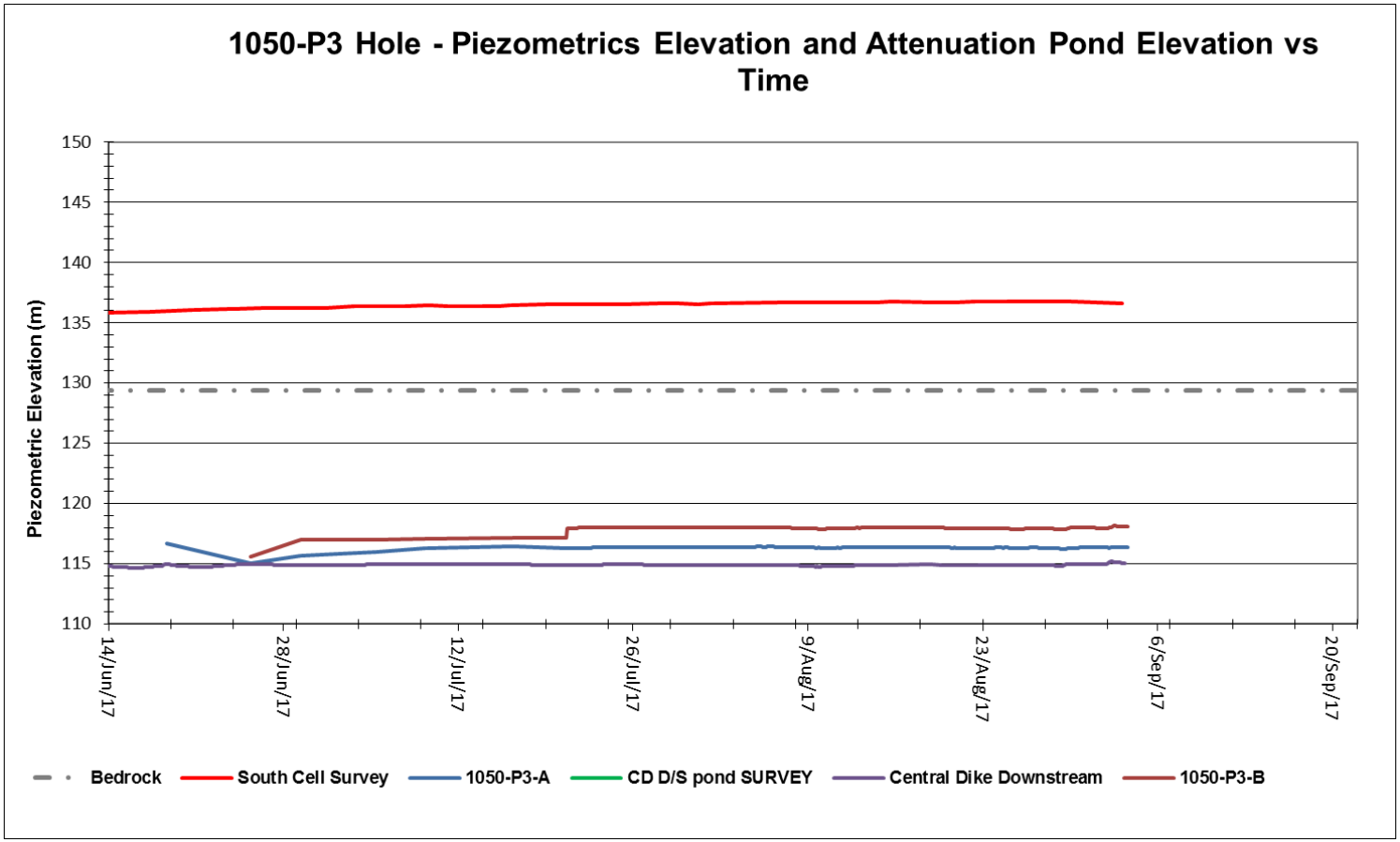


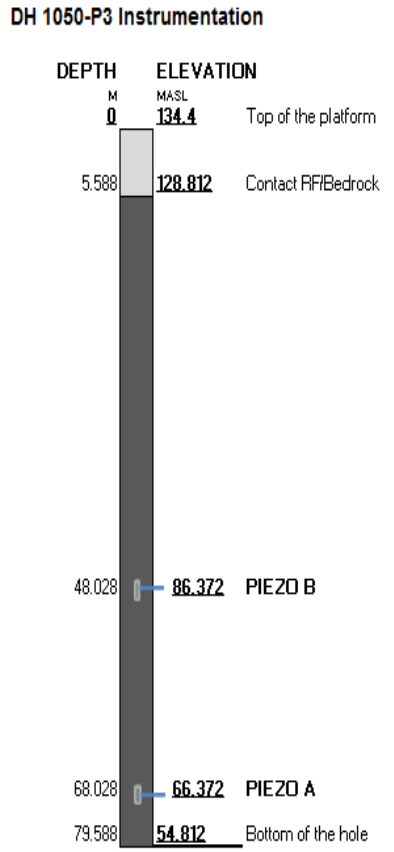


PIEZOMETER 1050-P3

- Piezometers temperature just below the freezing point
- Piezometers are following the trend of the D/S pond elevation.

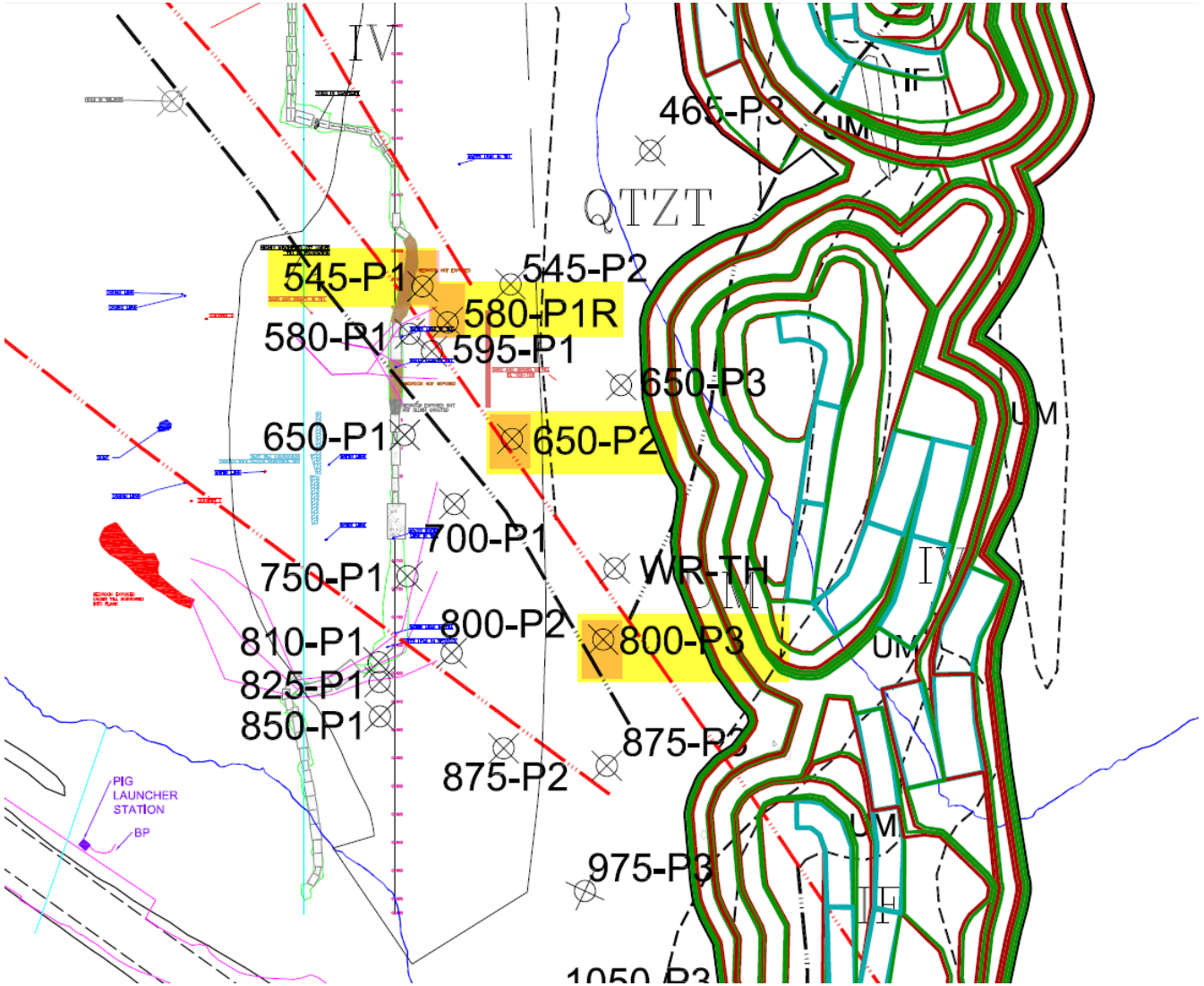






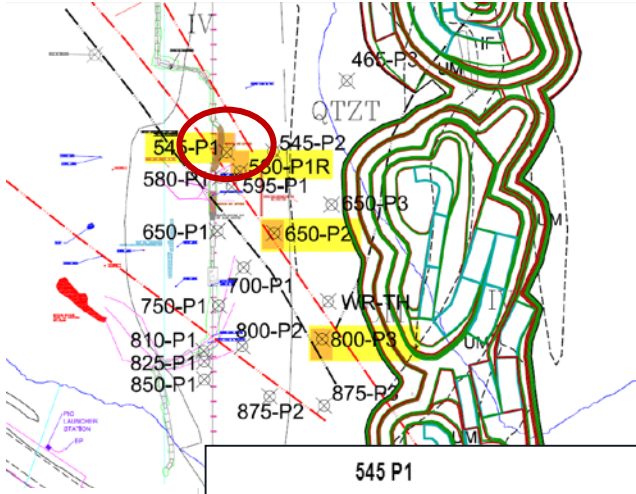
SECTION 1

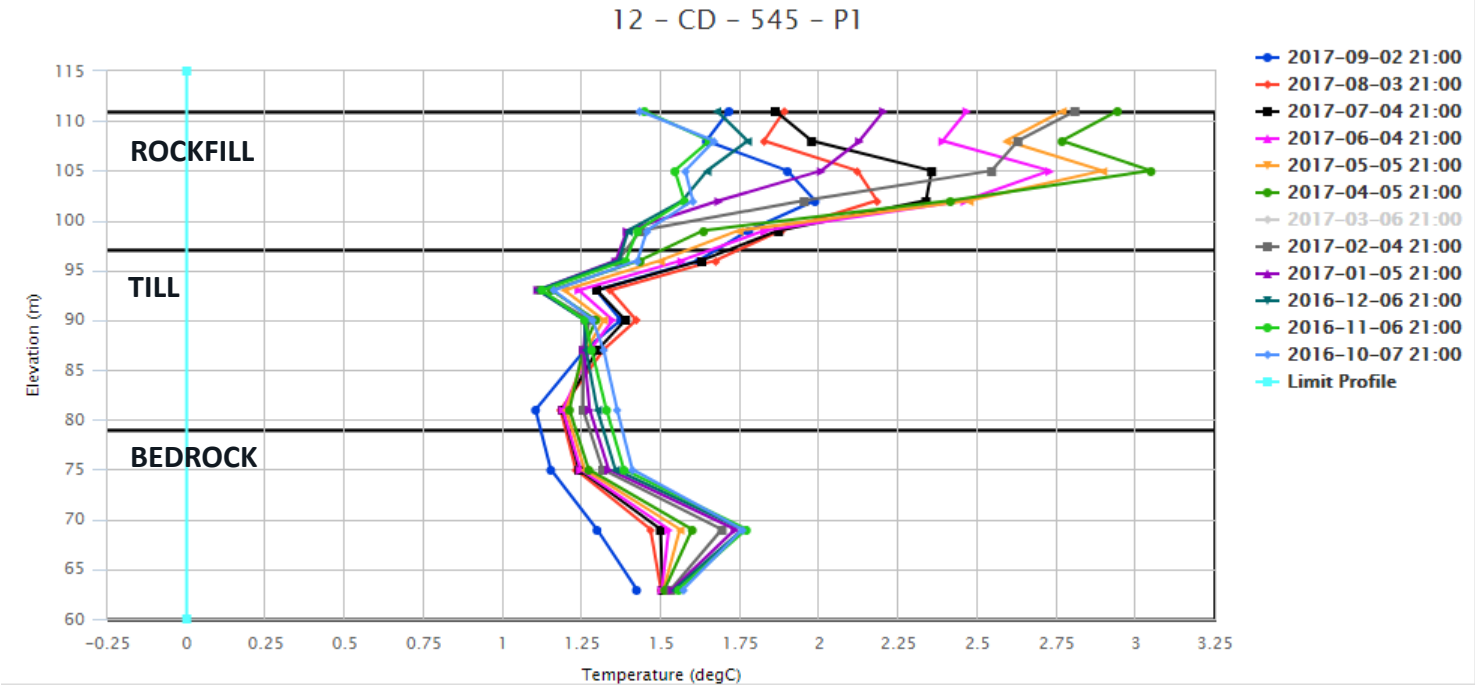
2ND PORTAGE FAULT – FIRST ANOMALIE

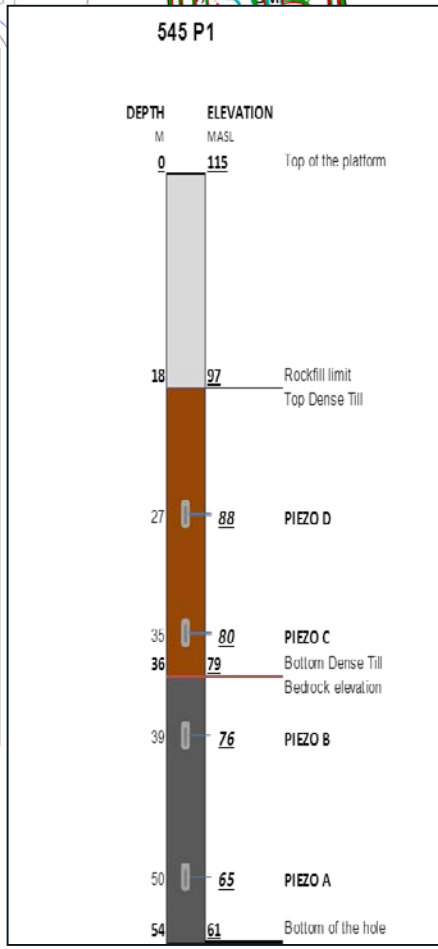


THERMISTOR 545-P1

- 545-P1 thermistor is showing the same temperature profile than last year. Warmer peak observed at elevation 70m since the installation.
- Temperature in the bedrock/till unit is in between 1.1 and 1.75º C.

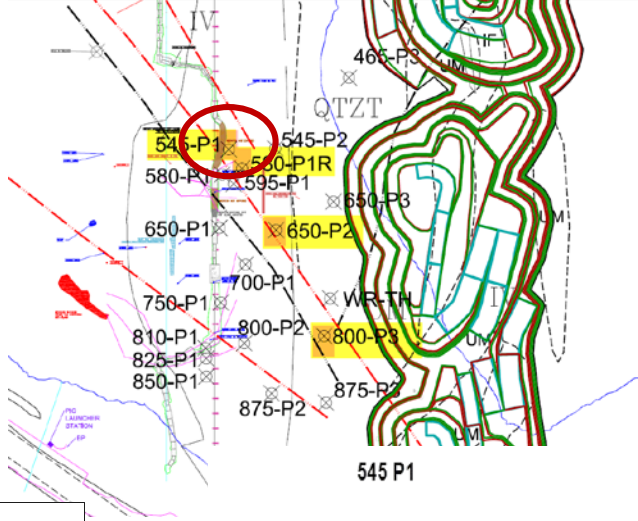


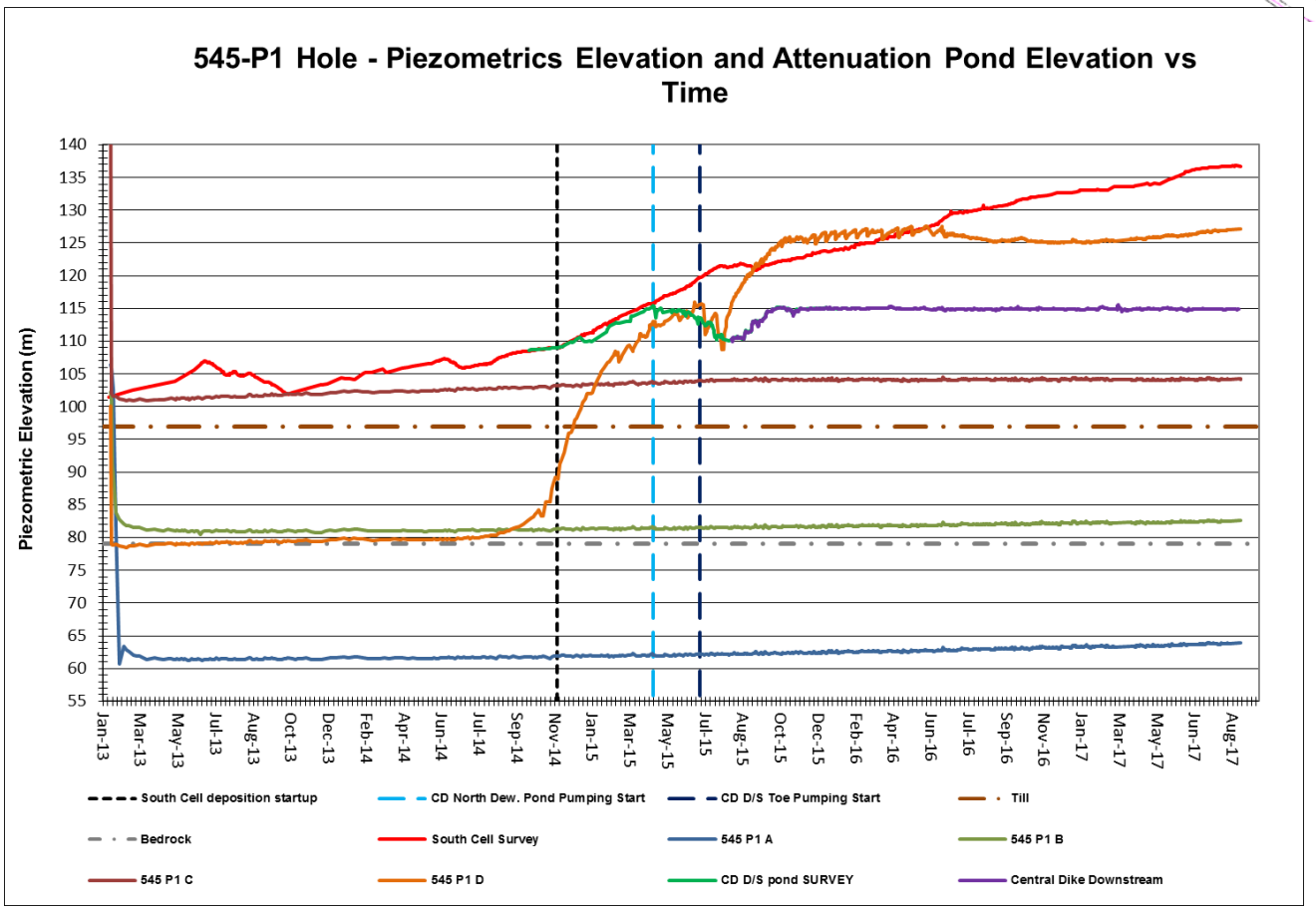


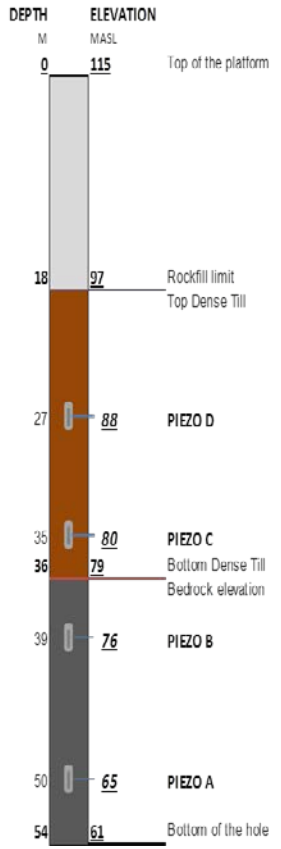


PIEZOMETER 545-P1

- Piezometer D still constant, no change since August 2015
- Piezometer A is recording suction since its installation
- Identification of the piezo on the field is confusing. Interpretation of the readings must be done with precaution.

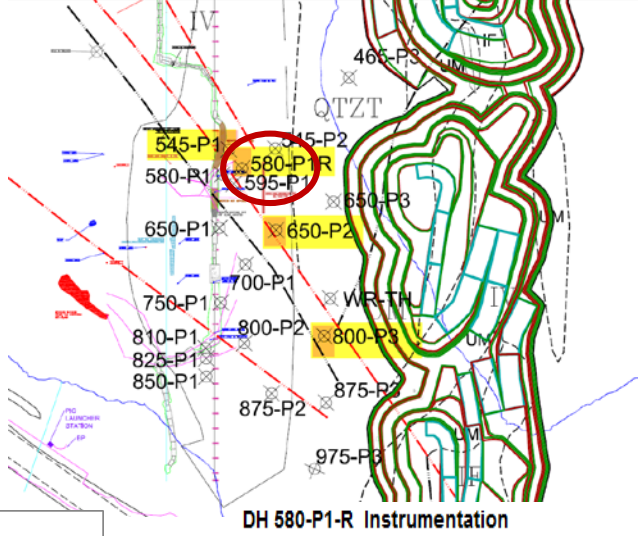




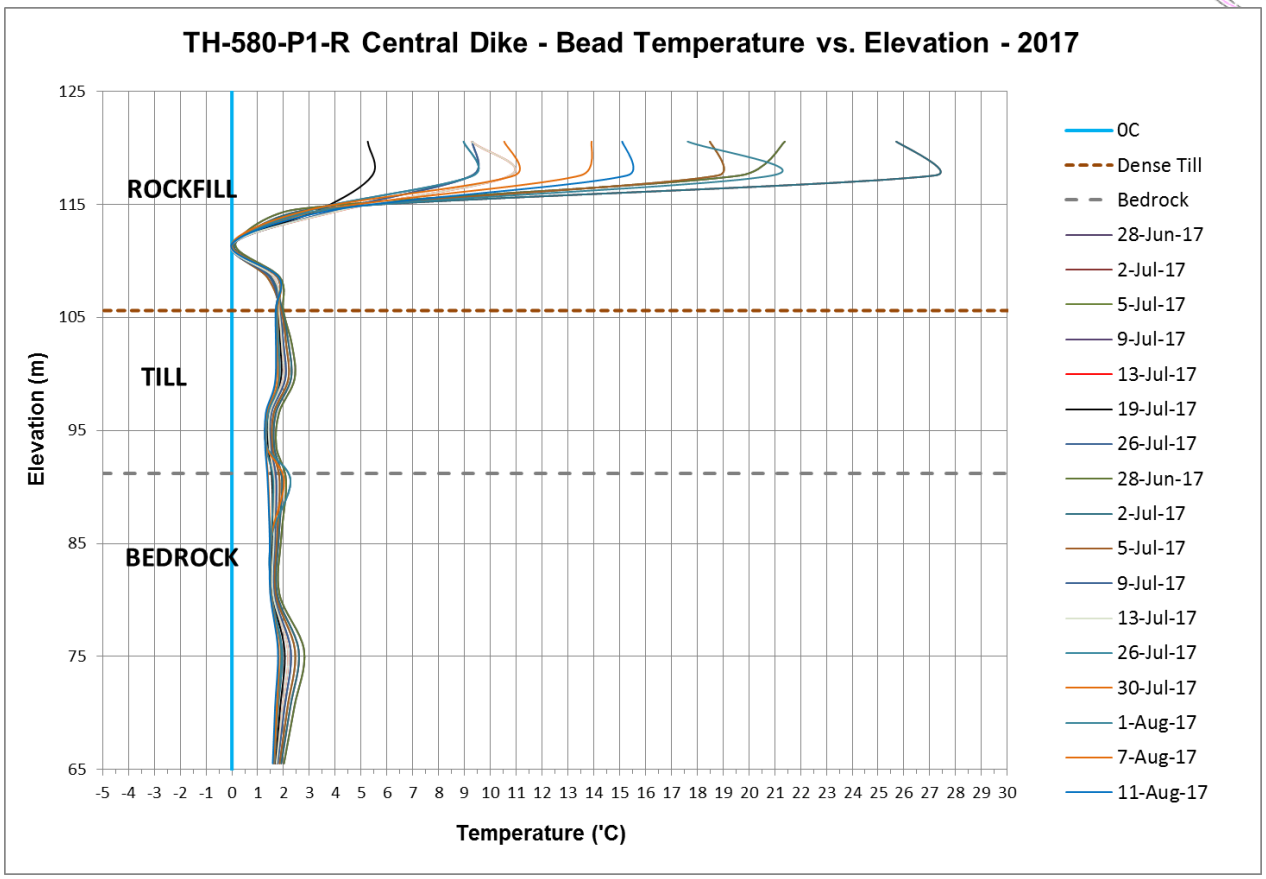


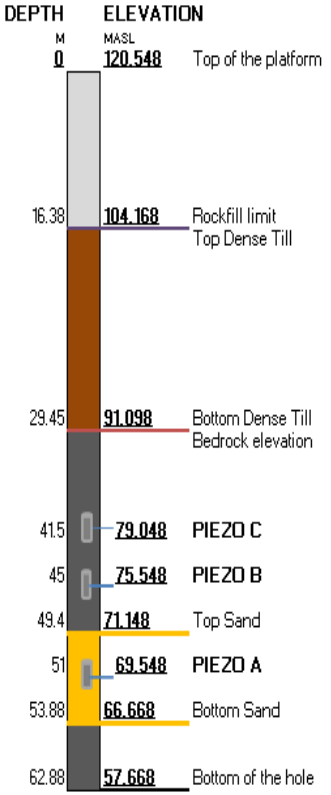
THERMISTOR 580-P1R

- Stabilisation in progress
- Temperature readings above 0ºC
- Simillar temperature readings range than 580-P1



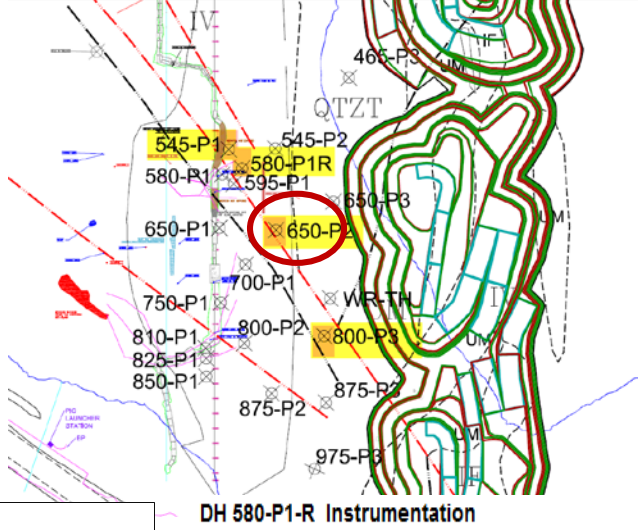
DH 580-P1-R Instrumentation



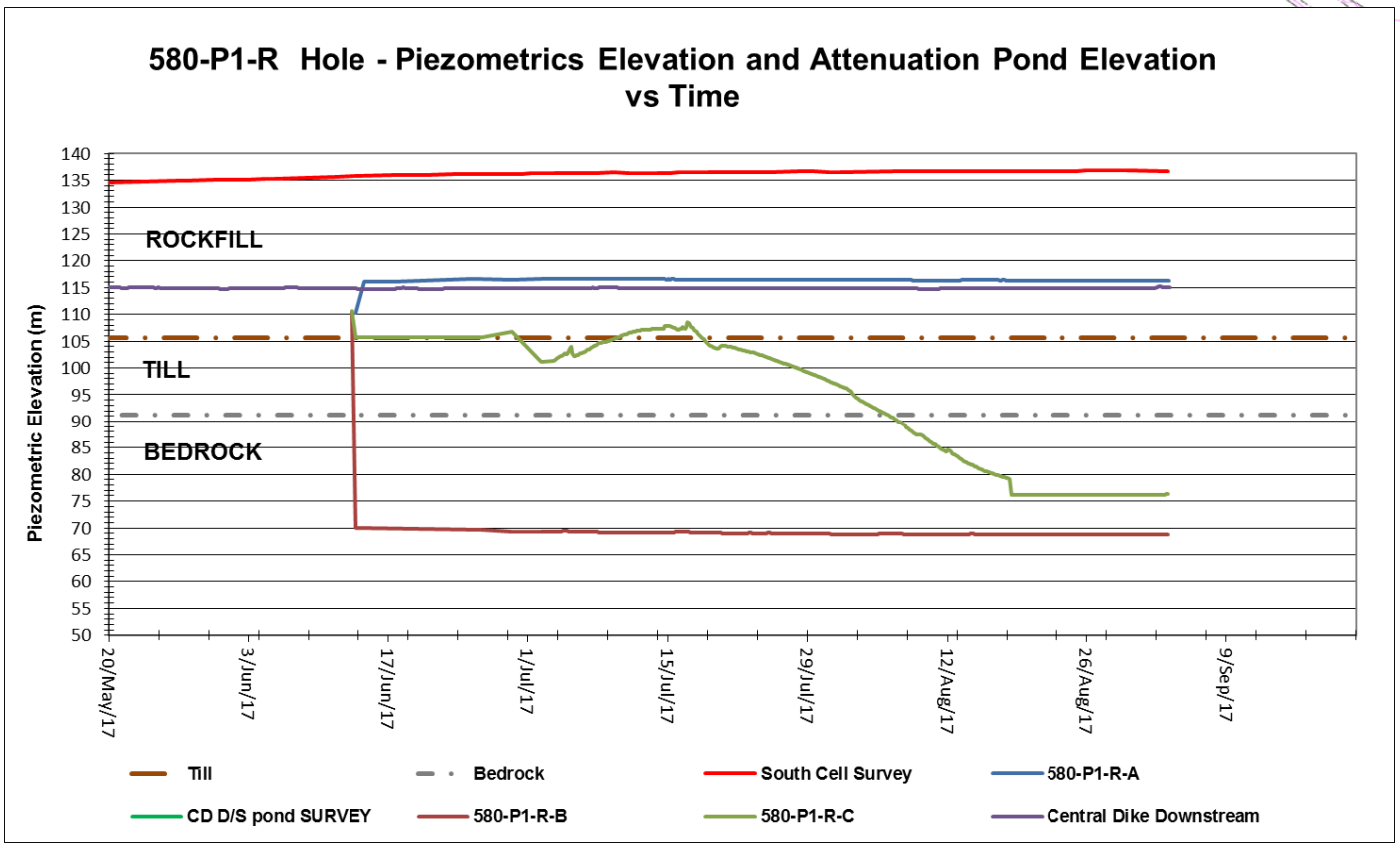


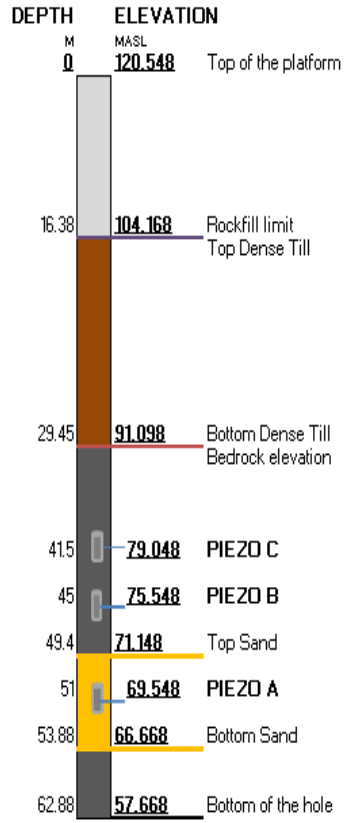
PIEZOMETER 580-P1R

- Piezo A is located in a sand layer and pressure readings are following the D/S pond regime
- Decrease in piezometric elevation ongoing for Piezo B
- Small data GAP



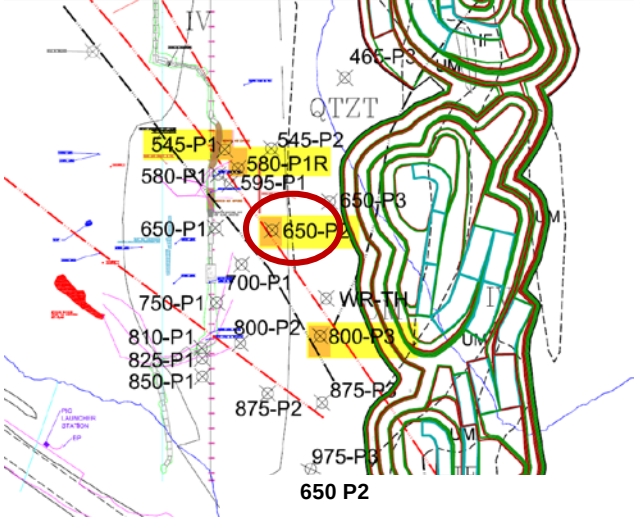
DH 580-P1-R Instrumentation



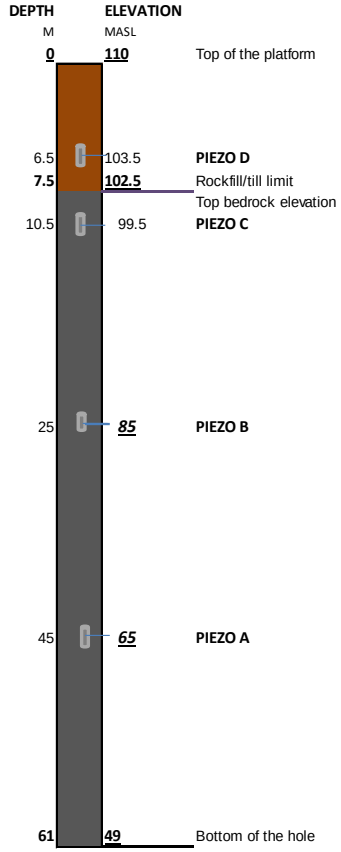


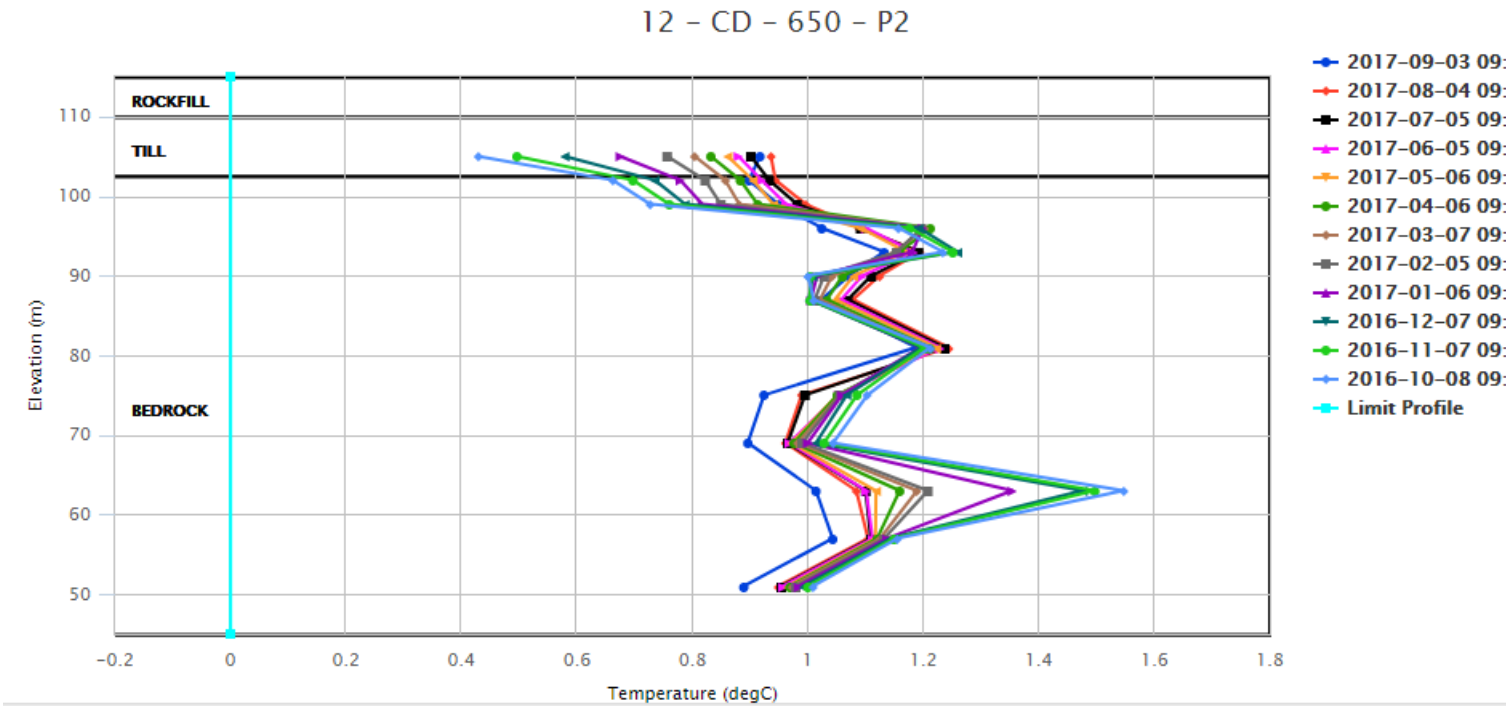
THERMISTOR 650-P2

- Cooling trend observed below El. 80 similar to 2016 readings.



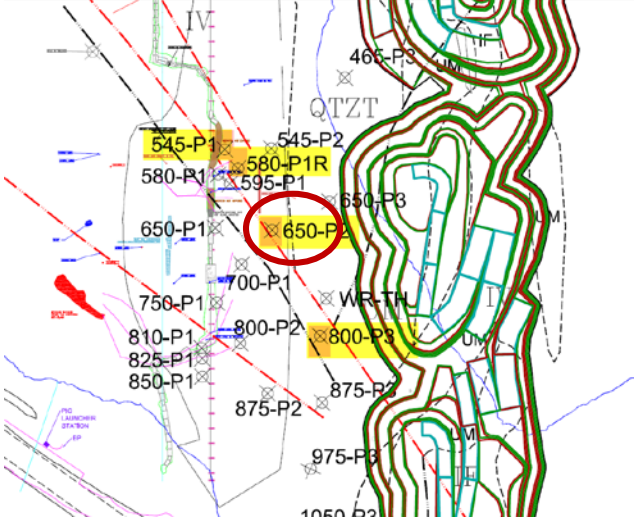
650 P2

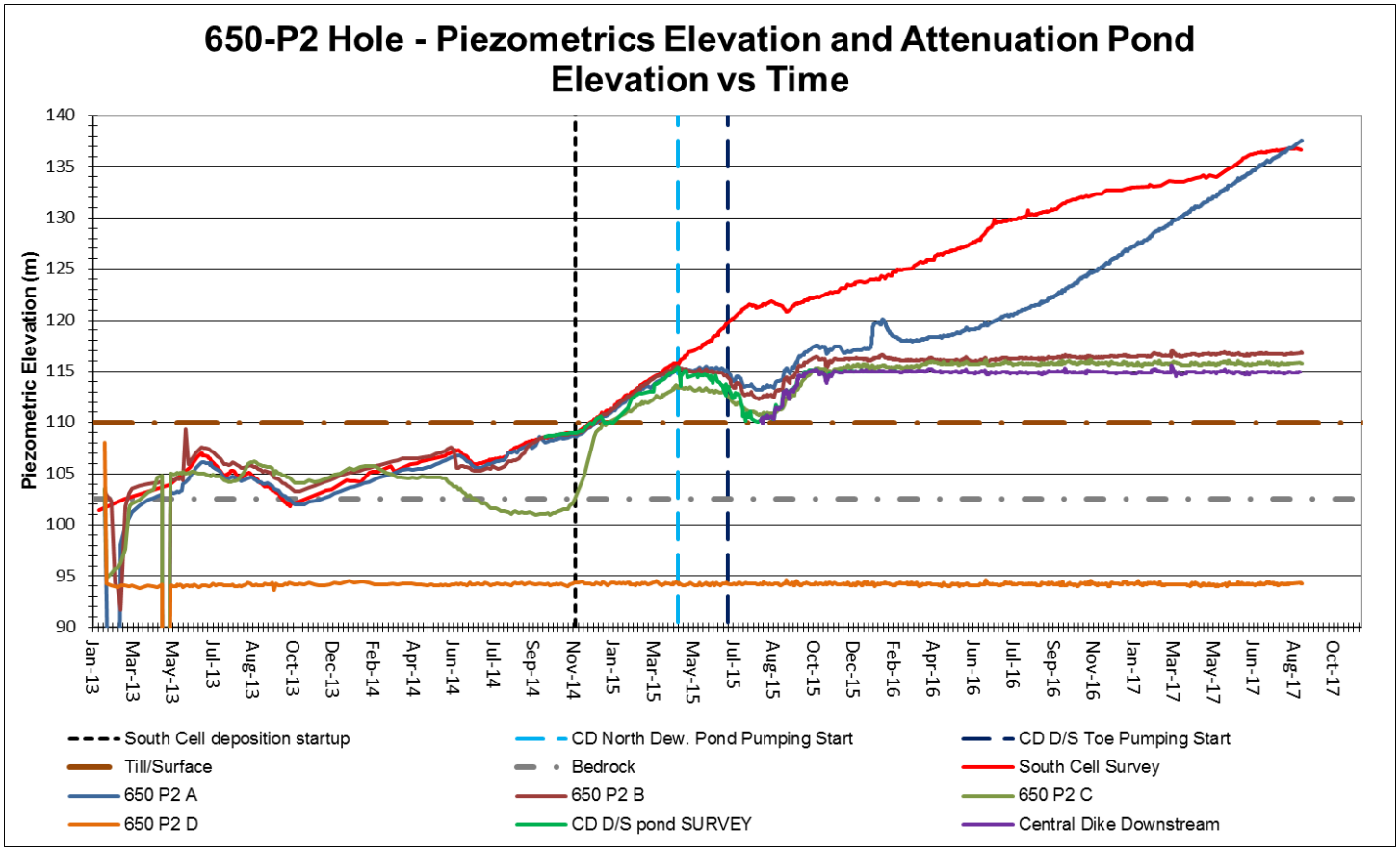


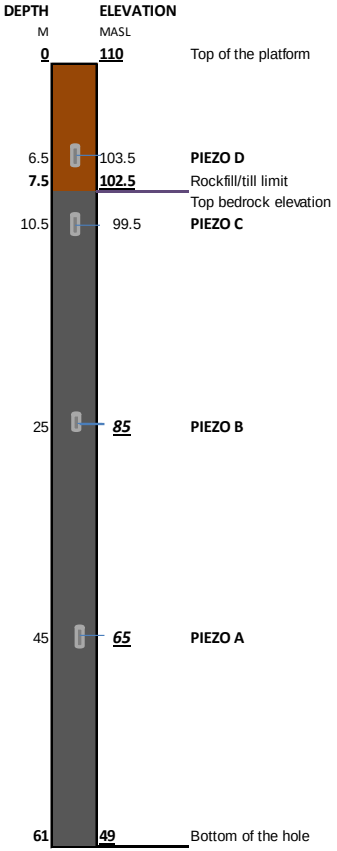


PIEZOMETER 650-P2

- Piezometer A in bedrock continue its rise and is now over the elevation of the South Cell
- Piezo B-C are following the piezometric regime of the D/S pond
- Piezo D is in suction

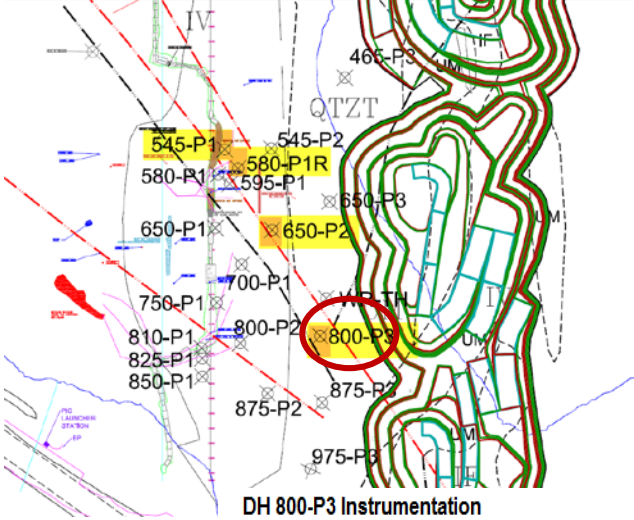




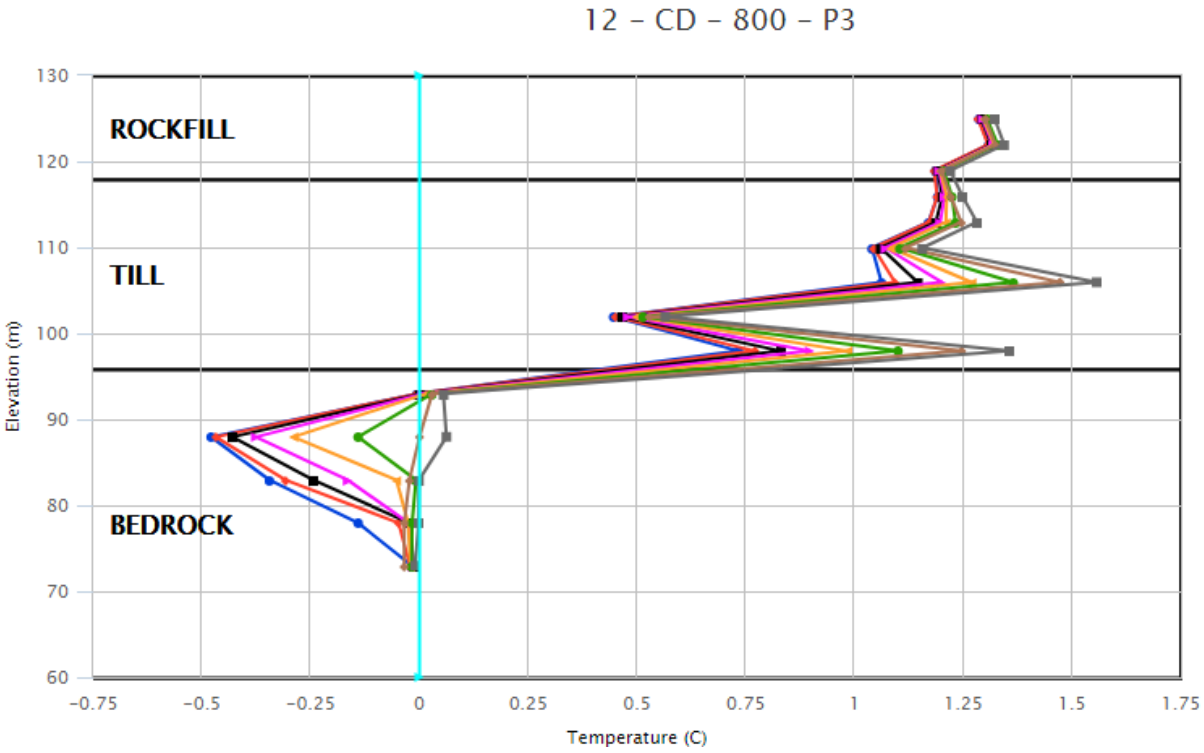


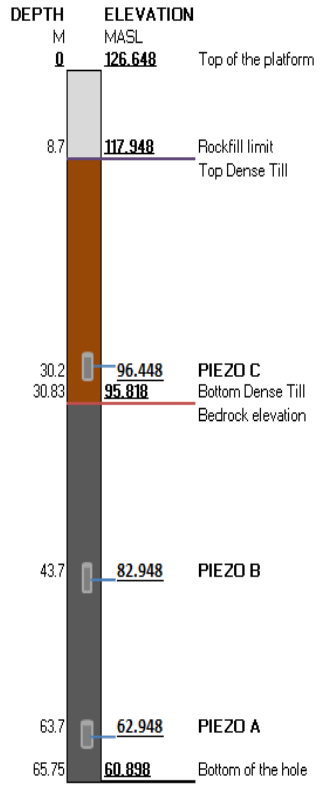
THERMISTOR 800-P3

- New instrument installed in 2017
- Stabilisation in progress
- Temperature under 0º C below El. 93 m



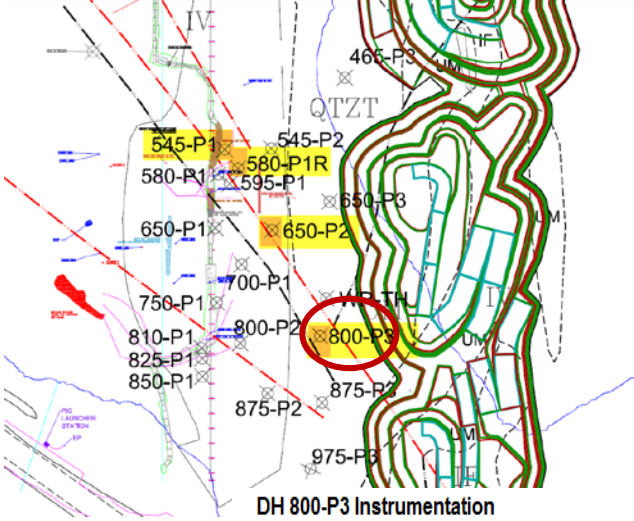
DH 800-P3 Instrumentation



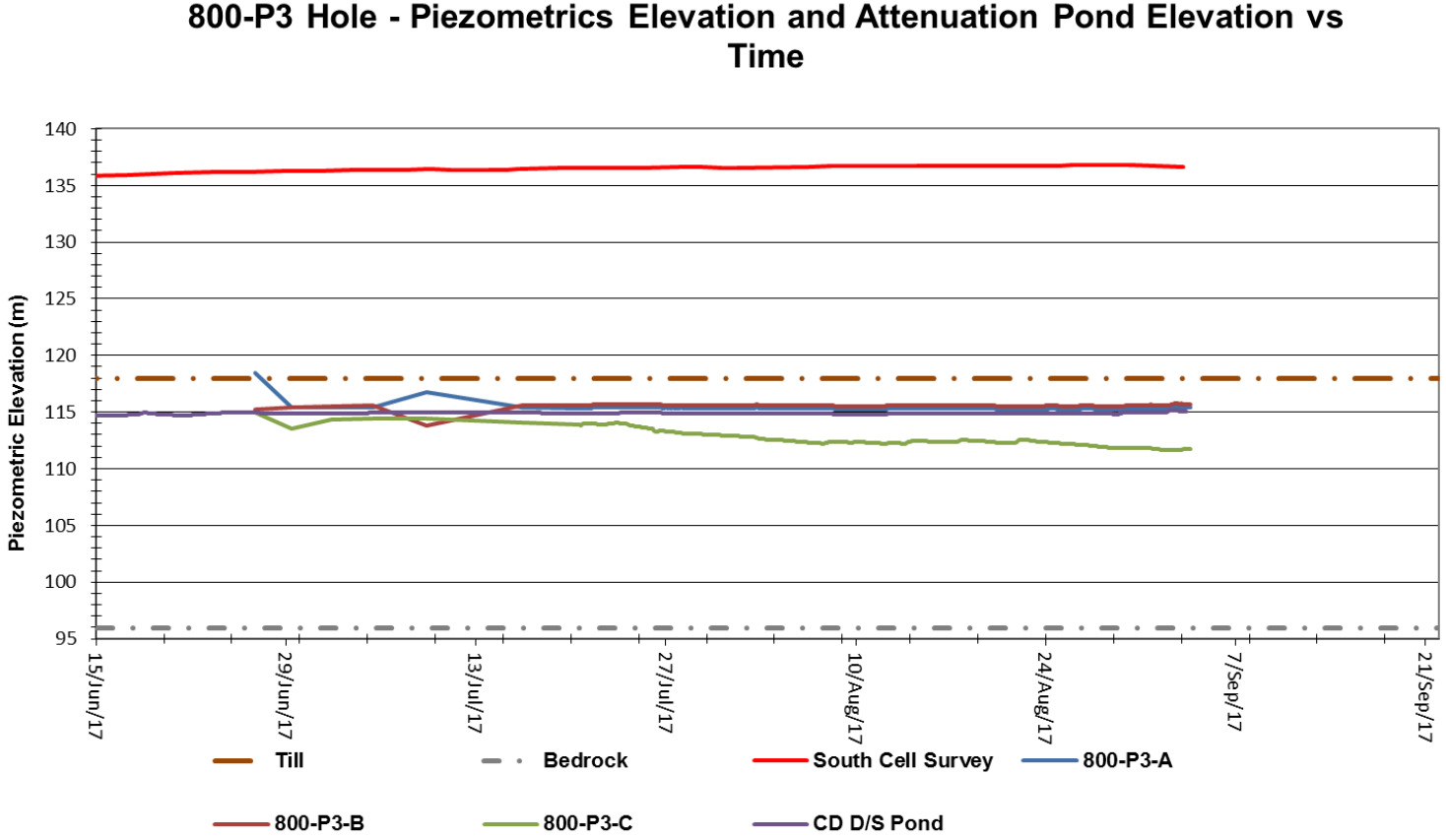


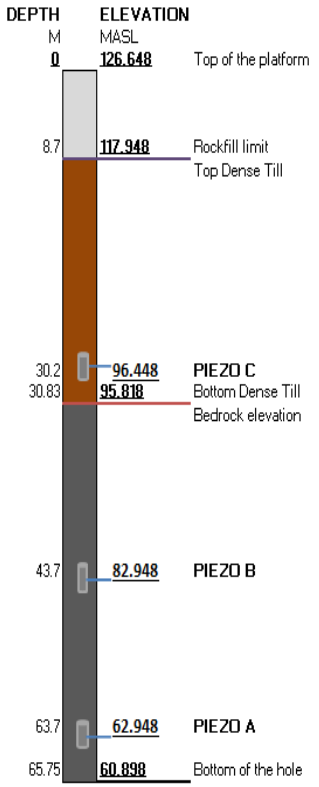
PIEZOMETERS 800-P3

- New instrument installed in 2017
- Stabilization in progress
- Piezo A & B readings are similar to the D/S pond elevation readings
- Piezo C readings is slowly decreasing



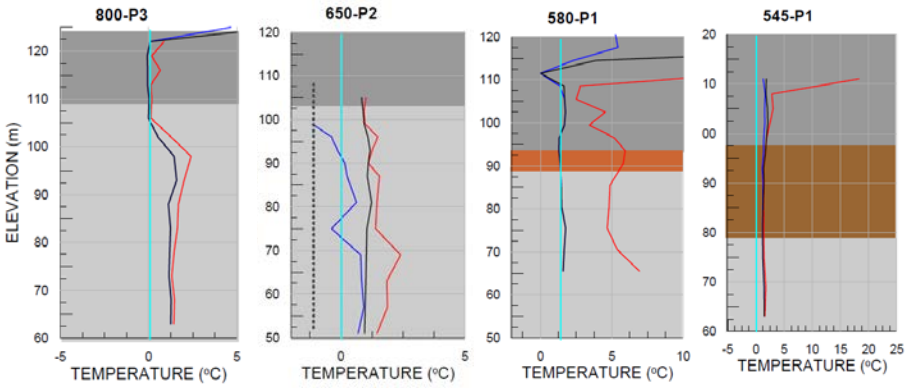
DH 800-P3 Instrumentation

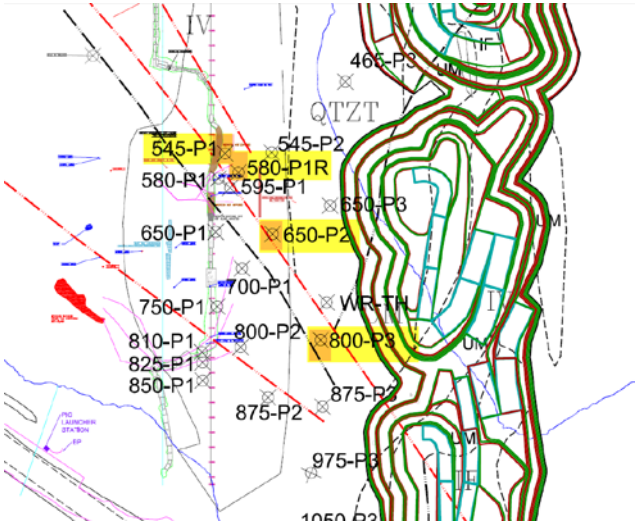




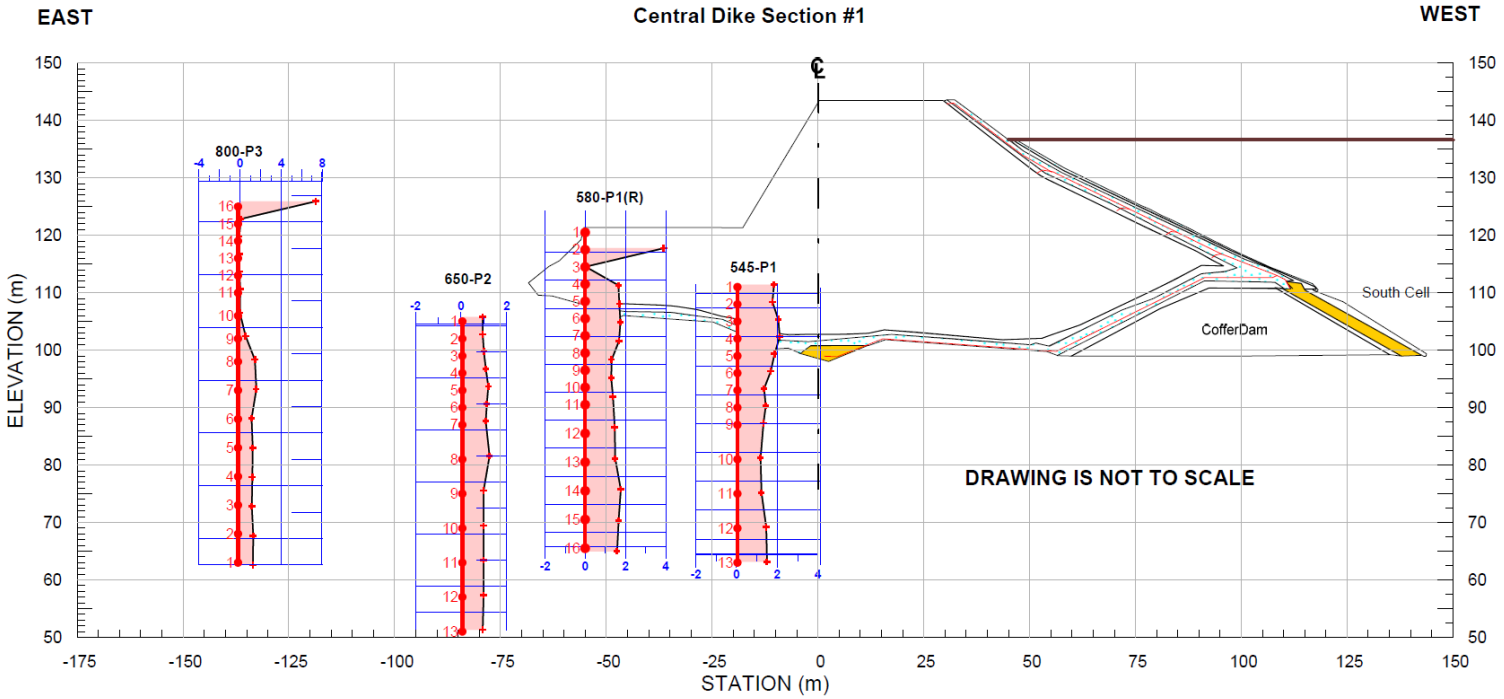
SECTION 1 – THERMAL PROFILE

THERMISTOR READINGS FROM AUGUST 2016 - 2017



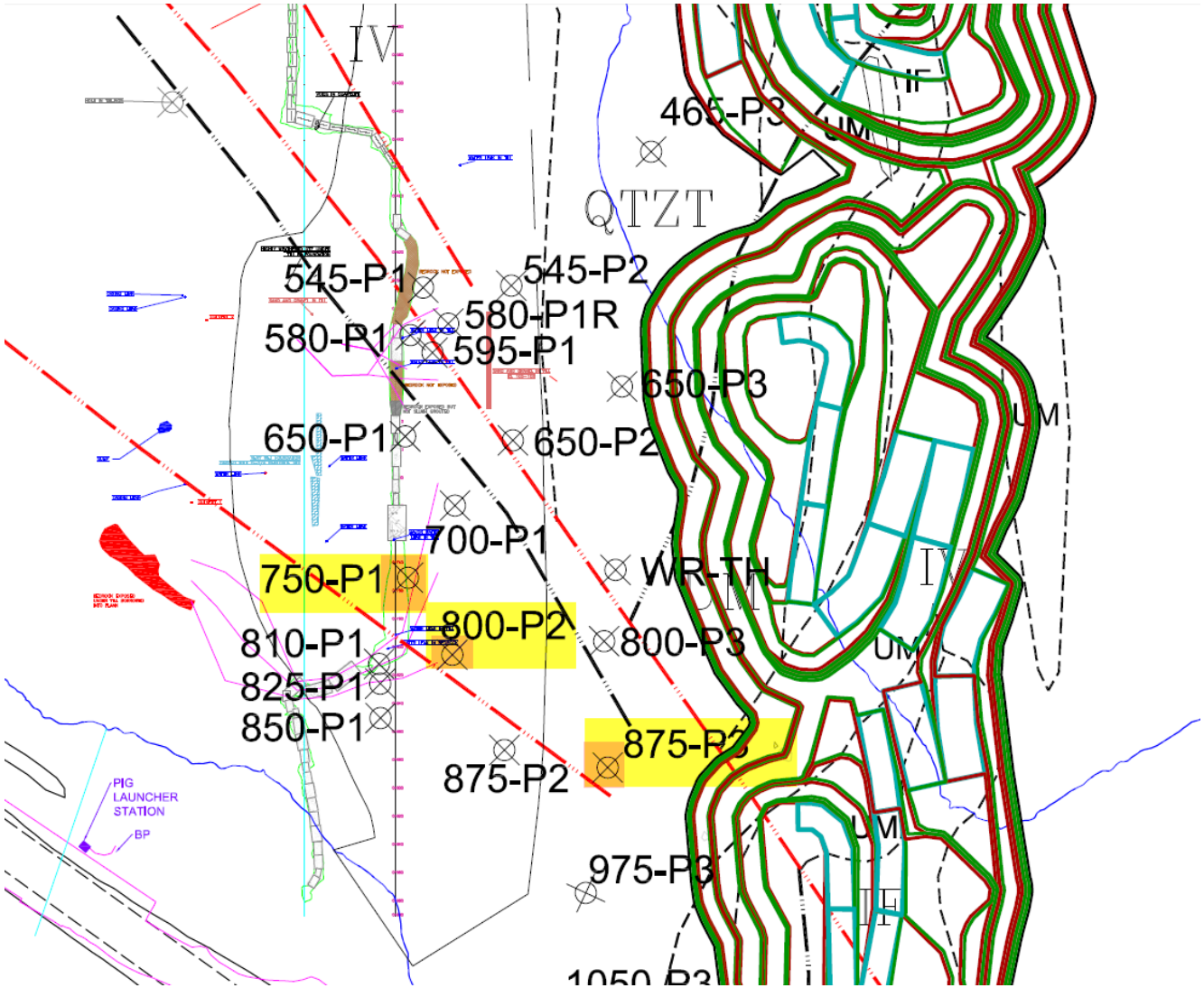


THERMISTOR READINGS AUGUST 1ST, 2017



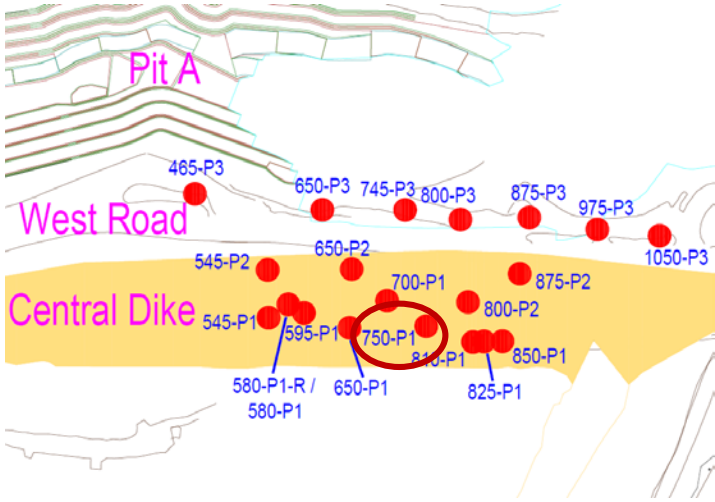
SECTION 2

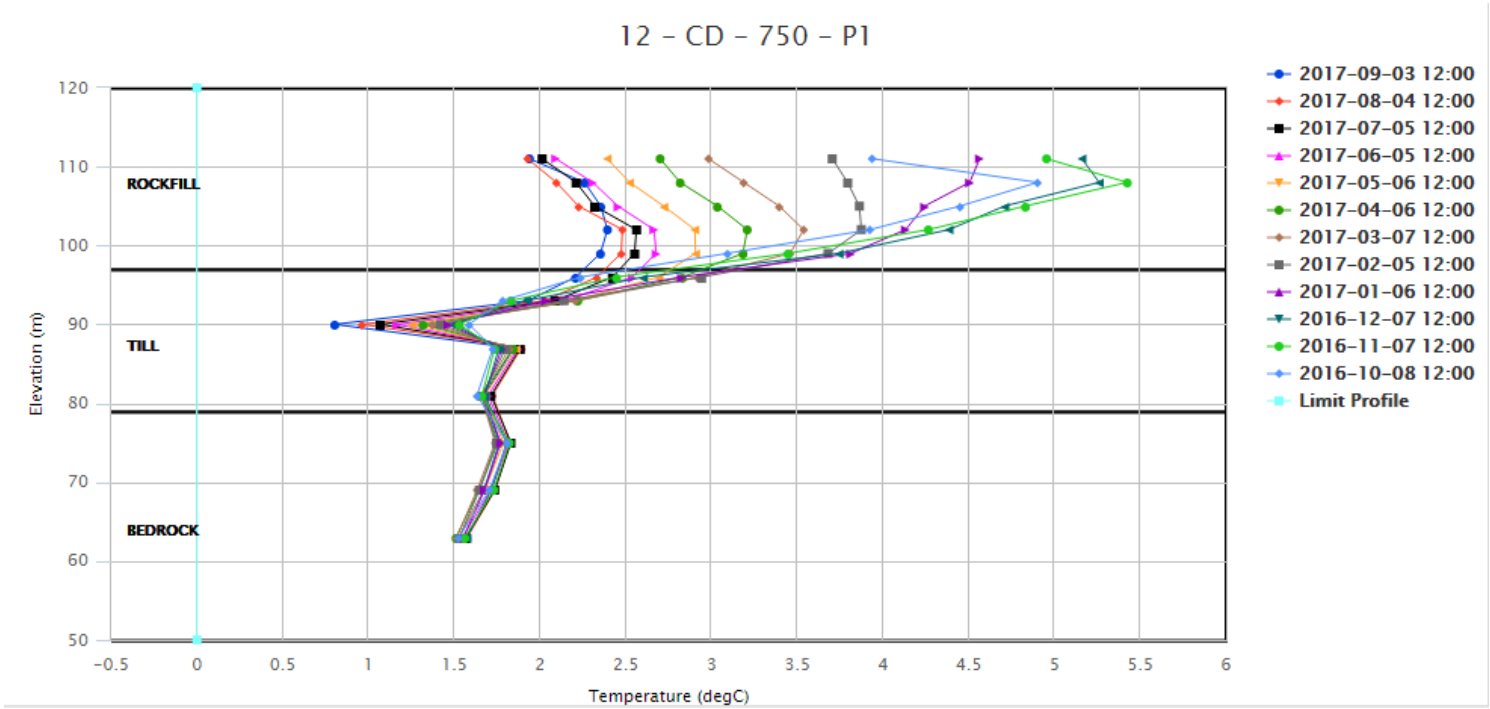
2ND PORTAGE FAULT – SECONDERY ANOMALIE



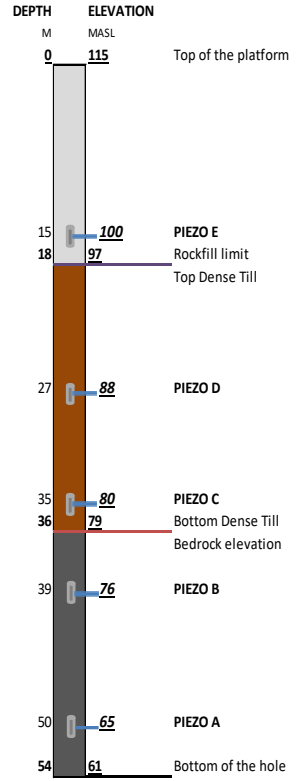
THERMISTOR 750-P1

- Cooling trend in till layer. The bead located at elevation 90m is in average 1º C cooler than in 2016.



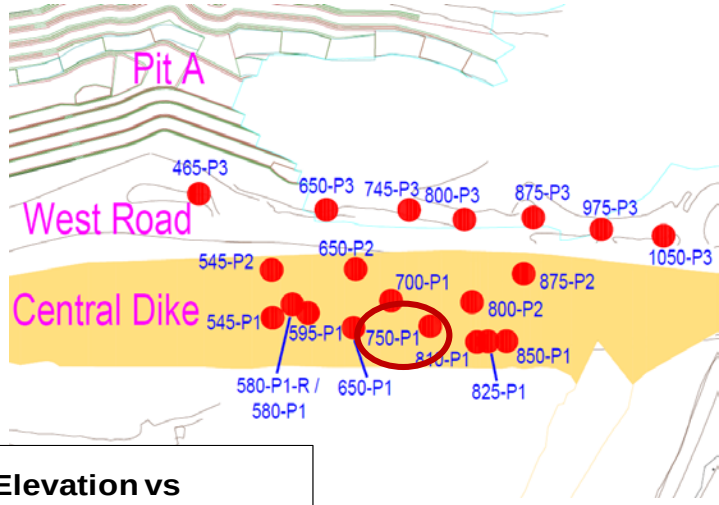


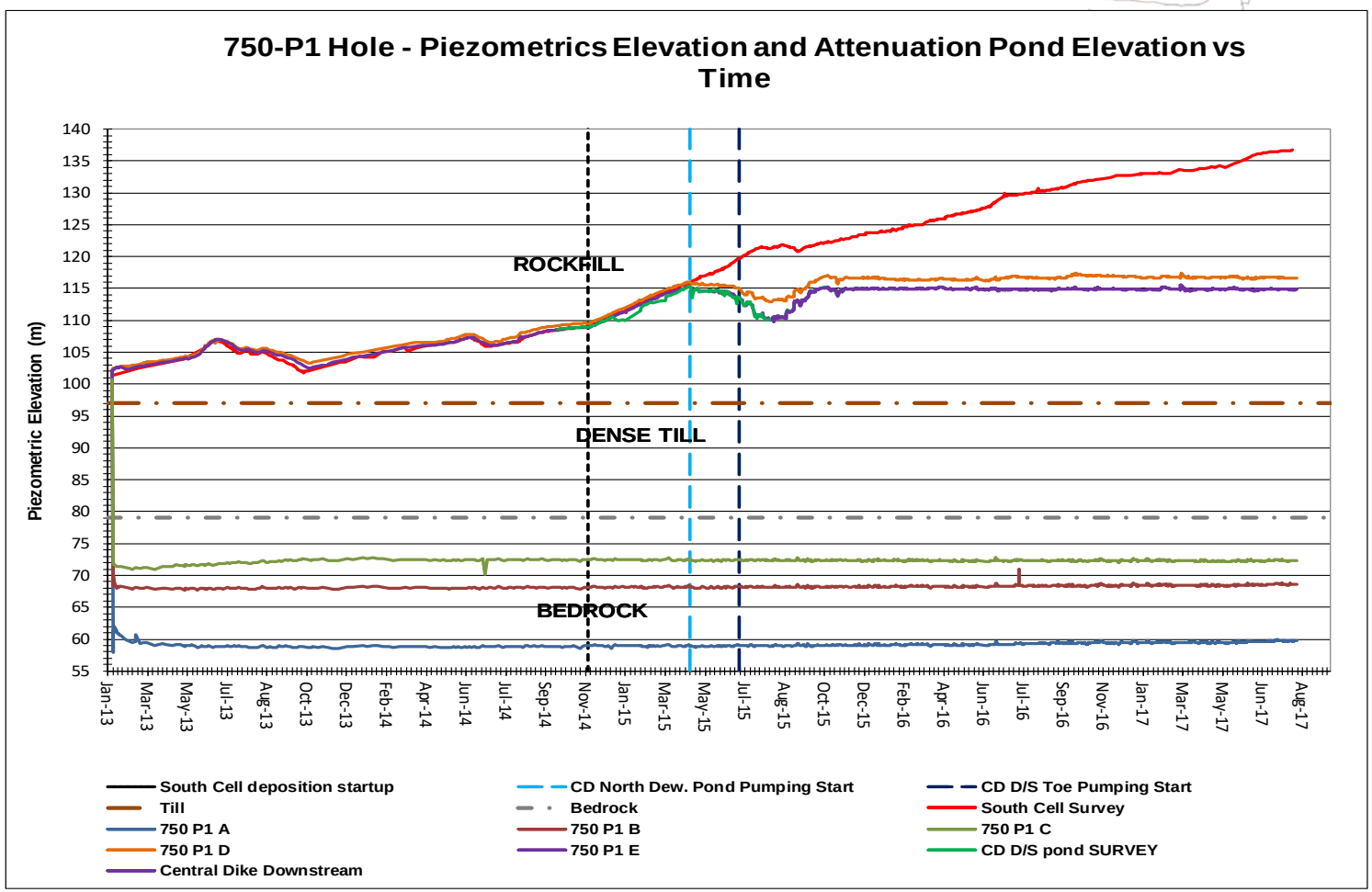
750 P1

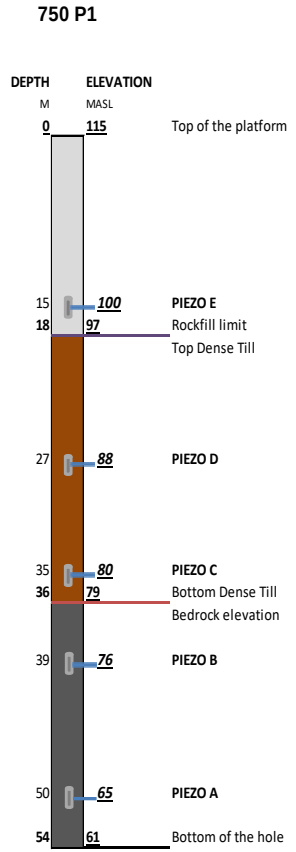


PIEZOMETER 750-P1

- Piezo A, B and C are in suction
- Piezo D is have a direct reaction to any variation in elevation observe in the D/S pond.

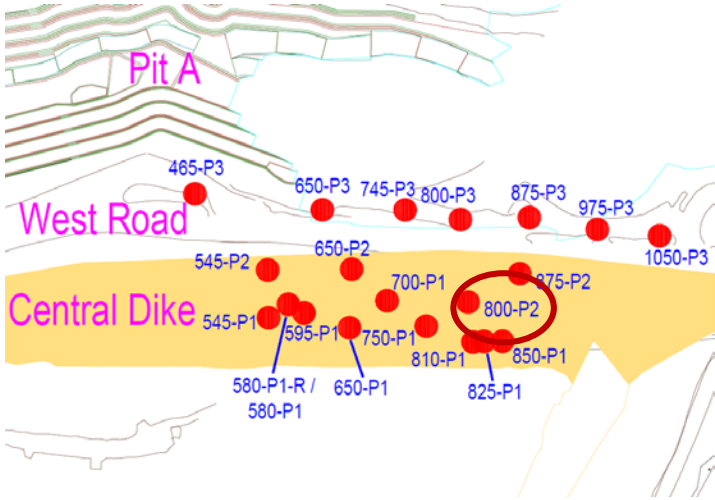


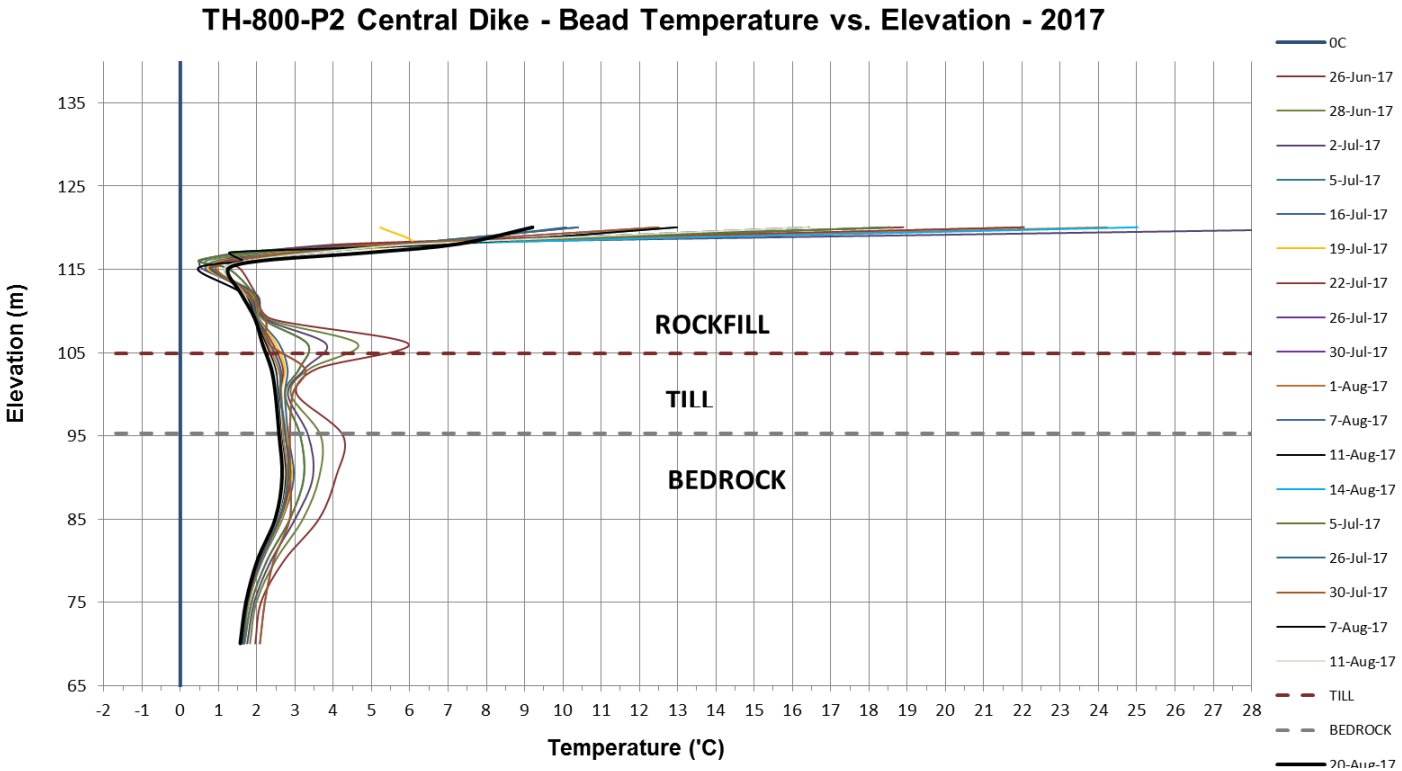


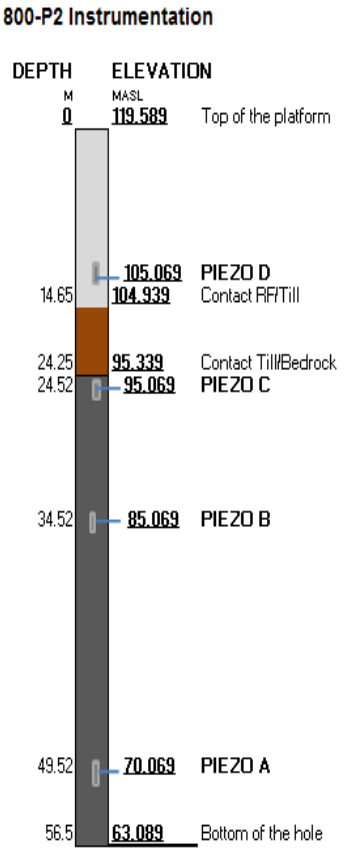


THERMISTOR 800-P2

- New instrument installed in 2017
- Stabilisation of temperature ongoing
- Temperature above 0 ºC

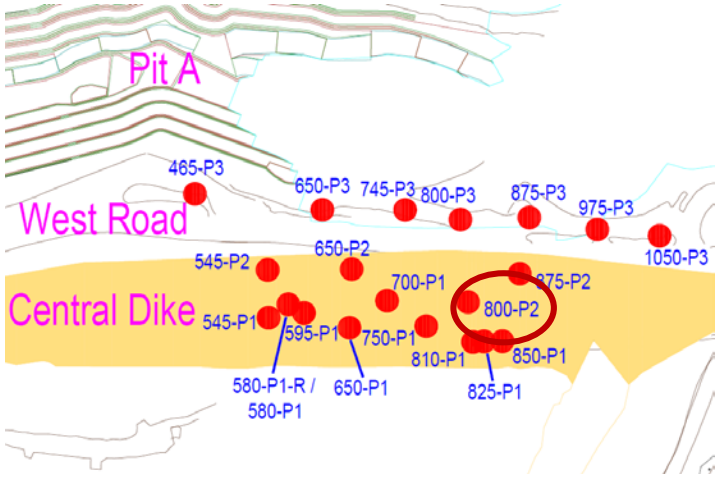


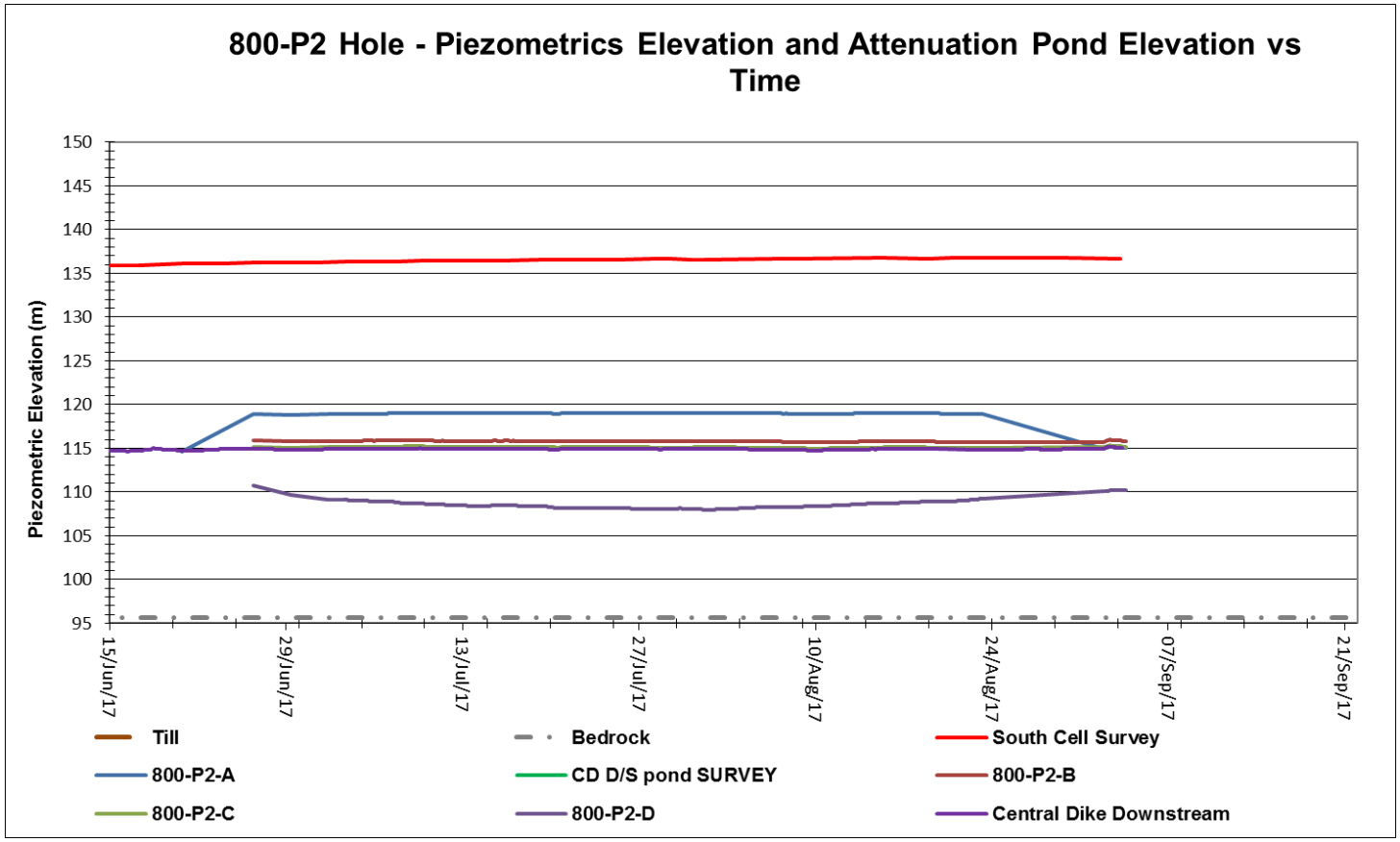


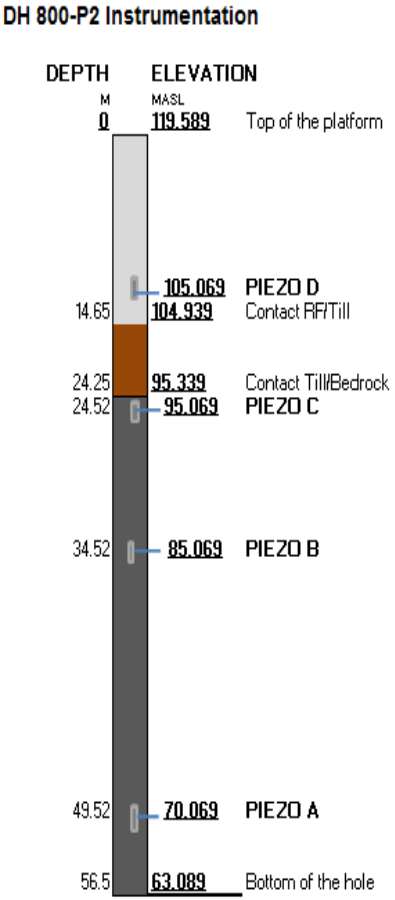


PIEZOMETER 800-P2

- New instrument installed in 2017
- Stabilisation ongoing
- Piezo A,B and C are showing pressure readings similar to the elevation of the D/S pond.

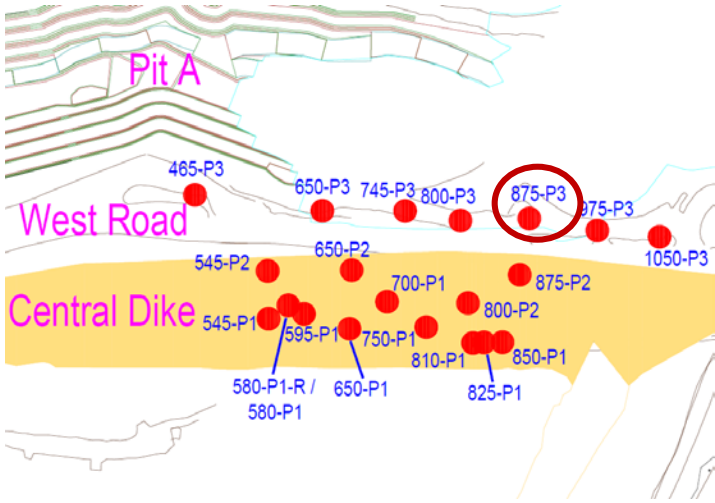


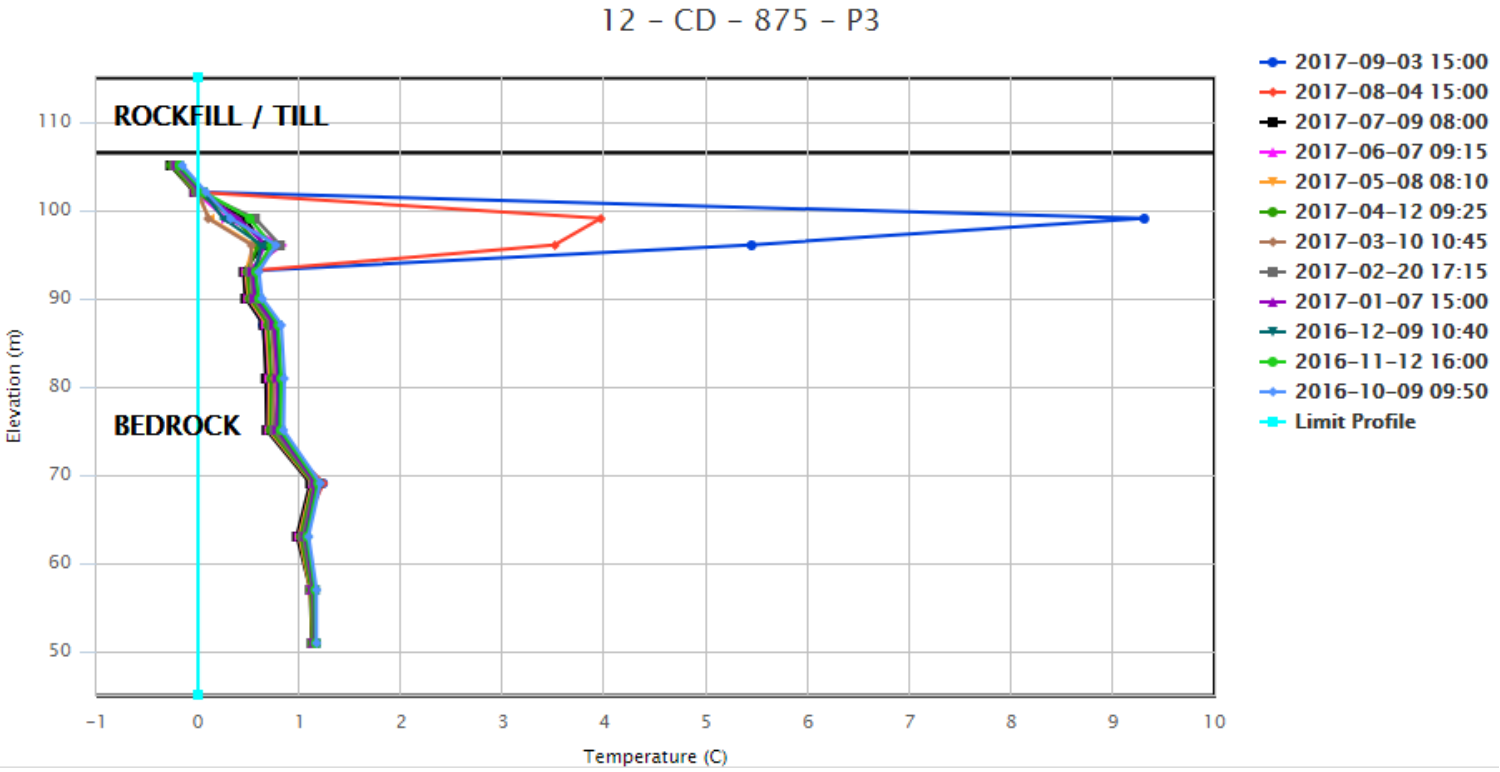


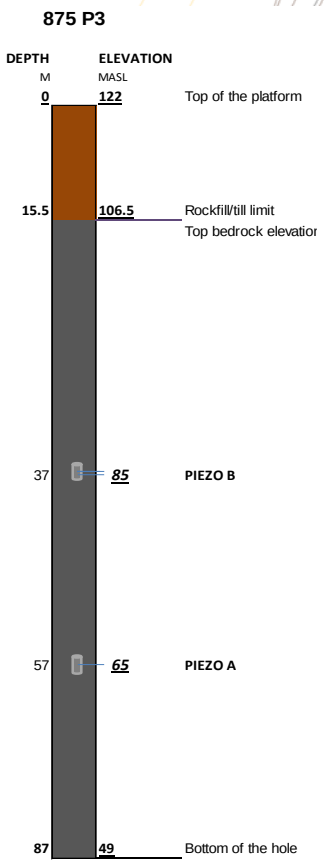


THERMISTOR 875-P3

- Temperature above 0º C in bedrock at 875-P3
- Temperature spike at El.96 m and 99 m are realted to capicitance effect.

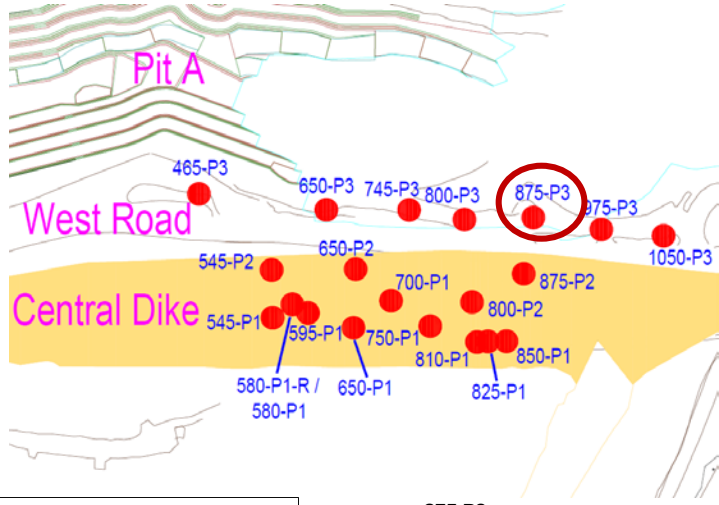


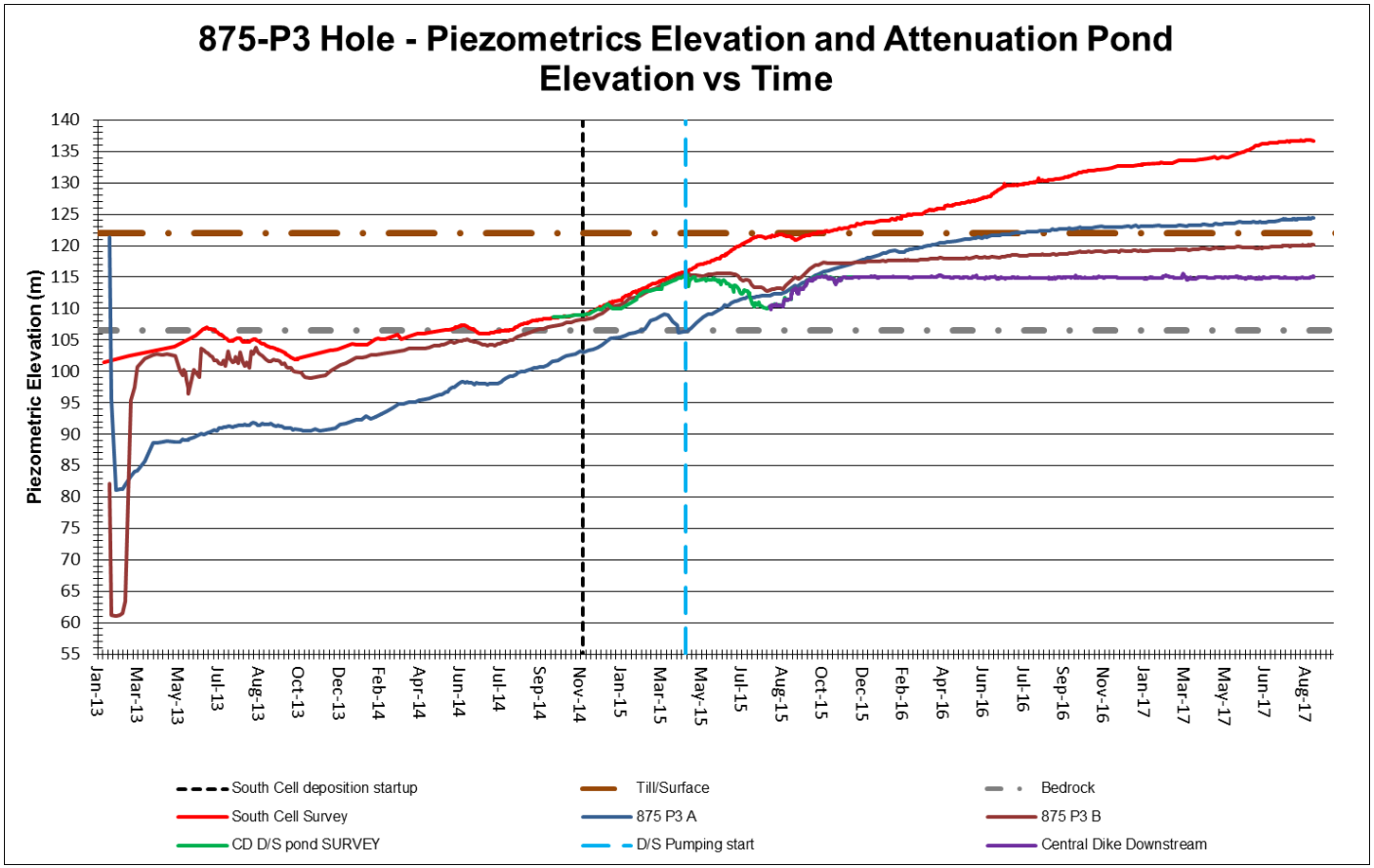


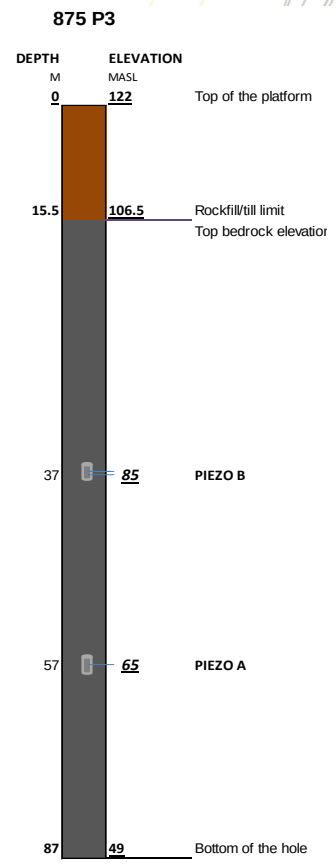


PIEZOMETER 875-P3

- Piezometer at 875-P3 are in bedrock and are impacted by increase in South Cell head

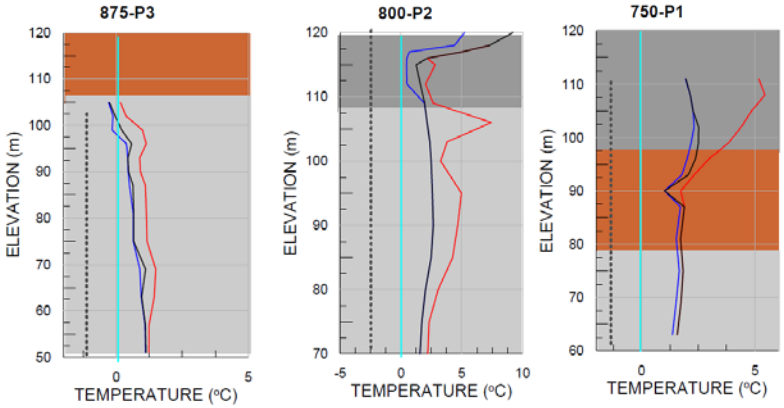


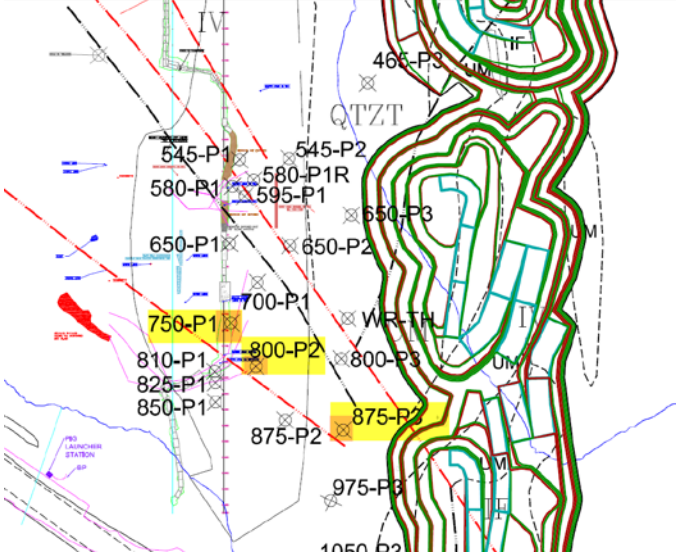




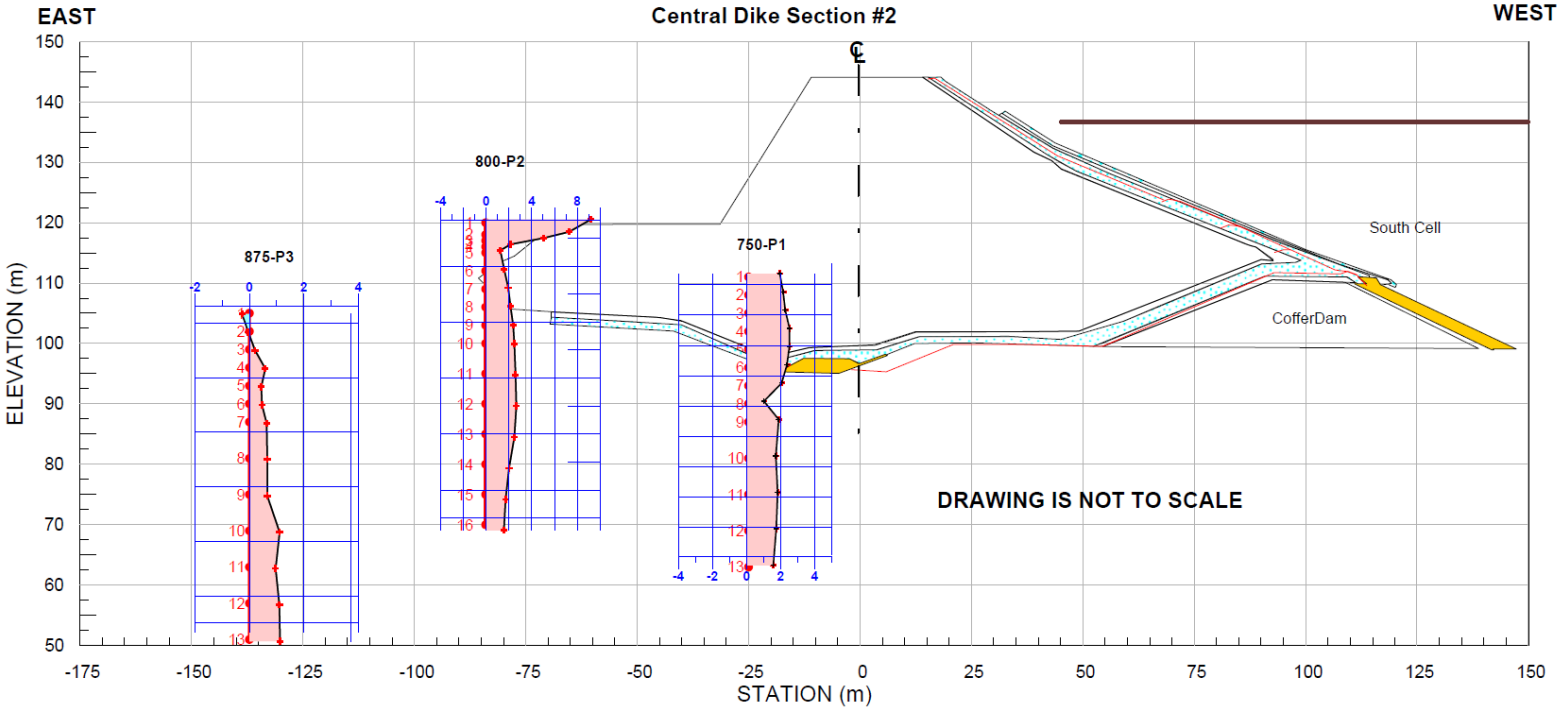
SECTION 2 – THERMAL PROFILE

THERMISTOR READINGS FROM AUGUST 2016 - 2017





THERMISTOR READINGS AUGUST 1ST, 2017



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SECTION 3: ACTION PLAN

ACTION PLAN

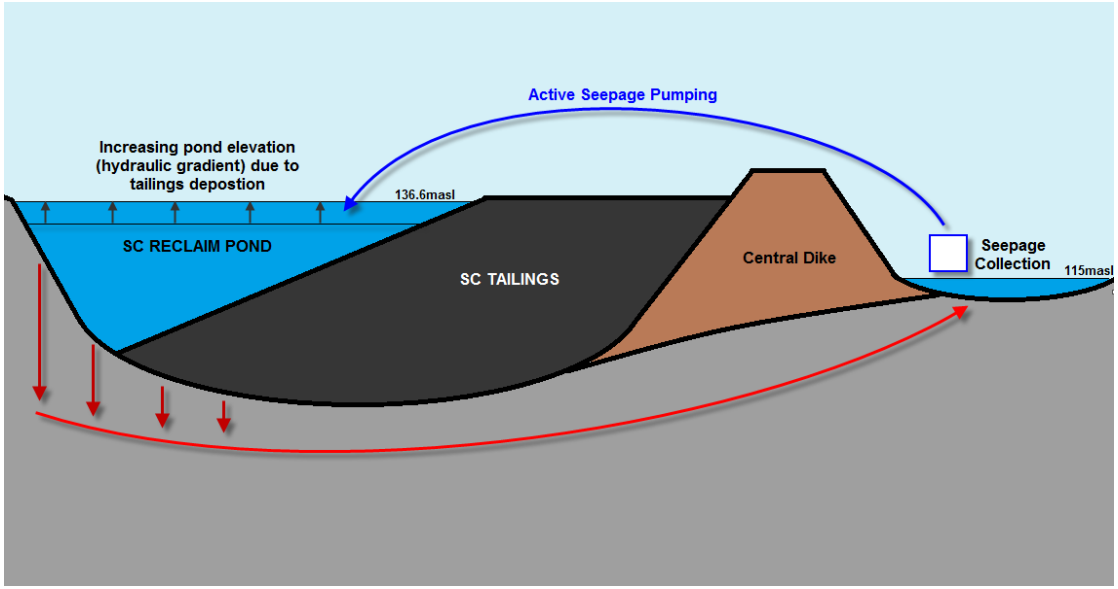
RECAP OF ACTION TAKEN IN RESPONSE TO INCREASE OF ALERT LEVEL TO ORANGE

- Daily visual inspection of Central Dike
- Increased frequency of instrumentation review (allowed to spot automatization artefact and capacitance effect on the thermistor)
- Tailings deposition strategy modified to promote beach along SD4 and fill depression
- Initiate transfer of water from the South Cell to Goose Pit to reduce water head in between Reclaim pond and the D/S pond
- Sampling of water and solid in the D/S pond to understand coloration change

TRANSFER OF SOUTH CELL WATER TO GOOSE PIT

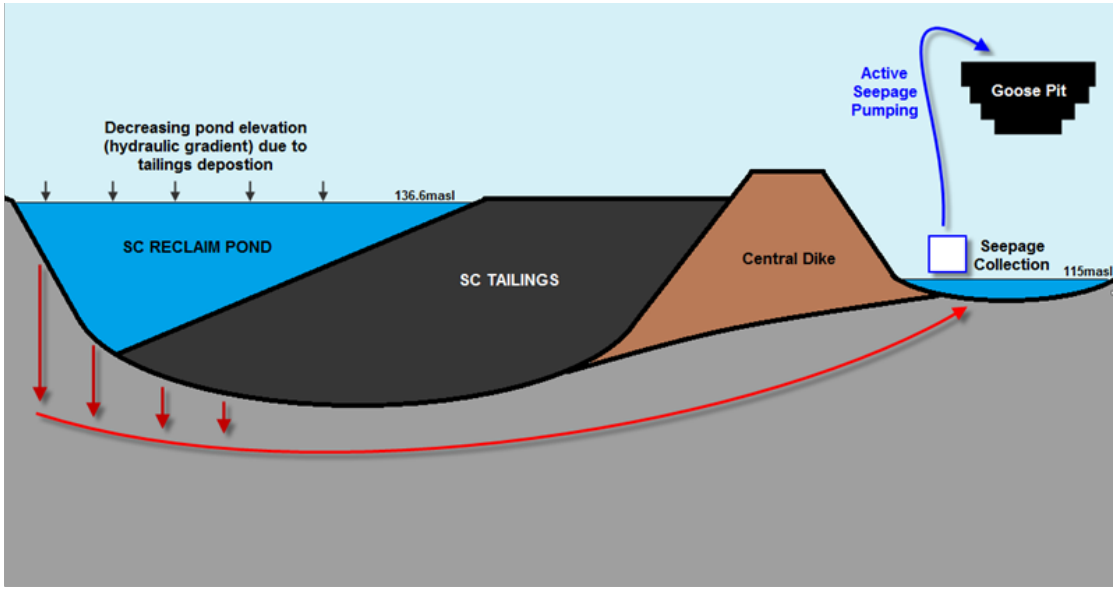
Original D/S Pond Setup

- Pump water back to South Cell keeping D/S Pond at El. 115m



Modified D/S Pond Setup

- Addition of a line from D/S Pond to Goose pit
- Water is transfered while keeping D/S Pond at El. 115 m
- Transfer 350 000 m^3 of water is initiated



ACTION PLAN

PATH FORWARD

- Develop a response and communication plan in case of deterioration of the situation to red alert
- Geochemical investigation of the precipitate and sediment found inside the D/S pond
- Secure South Cell TSF operation during winter 2018 by the construction of an internal structure
- Implement a strategy to minimize transfer of water in the South Cell for freshet 2018
- Continue developing in-pit deposition as mitigation measure
- Define Phase 2 of the program to assess the Central Dike Seepage

SOUTH CELL INTERNAL STRUCTURE

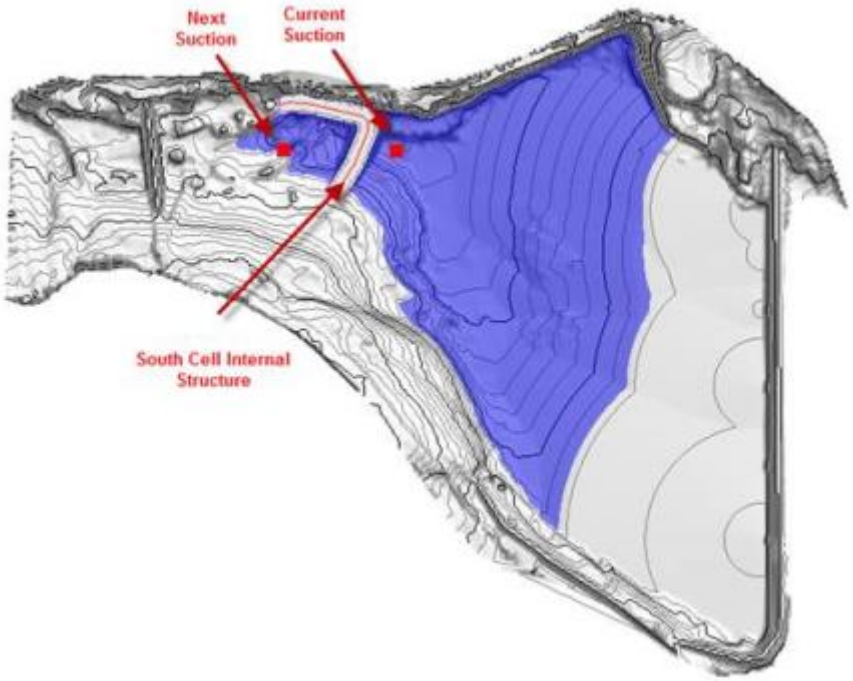
CONCEPTUAL ENGINEERING

Objective is to secure operation of the South Cell TSF during the winter 2018 by building a permeable rock fill structure in front of the reclaim area.

Crest elevation:	138 m
Crest width:	30 m
Max structure height:	8 m
Volume of rock fill:	62,000 m³
Type of material:	Soapstone
Trench bottom elevation:	136 m
Construction time:	Oct 2017

Operational risks mitigated:

- Slurry beach getting too close to the reclaim suction and reclaim water quality issues at the mill;
- Water elevation going higher than freeboard elevation (which would require goose transfers to fix);
- Increases TSF capacity.

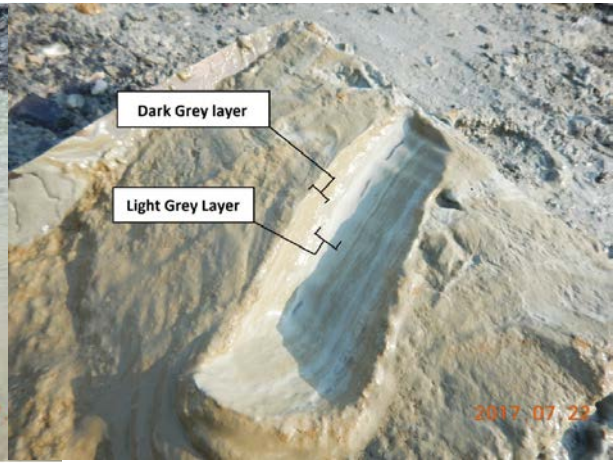


ACTION PLAN

FUTURE GEOCHEMICAL ANALYSIS

Second solid sampling will be required to confirmed the nature of the sediment found in the D/S pond and the coloration change mechanism.

- Recollect solid samples at the same location as last time, with some slight revisions to the analyses
  - Geochem - total sulphur (Leco), sulphate sulphur, carbonate content (colometry, not total carbon), ICP-MS multi-element scan on aqua regia digest with low detection limits
  - Mineralogy - submit for QEMSCAN modal mineralogy by SGS Burnaby. It will provide better quantification of minerals in this case, or at least remove some of the uncertainty in XRD only results, especially since the iron precipitate is likely poorly ordered and not really detectable by XRD.
- Collect a fresh mill tailings sample



ACTION PLAN

PHASE 2 OF SEEPAGE ASSESSMENT

- The need to conduct the following activity will be analysed for Phase 2 of the Central Dike seepage assessment

  – Update of 3D model with 2017 investigation results

  – Update of 2D seepage model with 2017 investigation results

  – Geophysical survey of the South Cell in winter condition

  – Investigate 700-P1 void and instrumentation of the Portage Central Dump

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THANK YOU

APPENDIX C3

TSF North Cell Instrumentation Data

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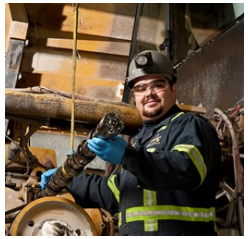


MDRB # 22
P3 – STORMWATER DIKE UPDATE

Patrice Gagnon

September 4th 2017

STORMWATER DIKE 2017 HIGHLIGHT

SEQUENCE OF EVENTS

January 18-25 - SWD 2017 Field Investigation and Instrumentation Campaign

March 23 - MDRB # 20, Presentation of SWD Dike Assessment

May 25 - Filling the 2016 cracks with bentonite (from 10+500 to 10+750)

July 5 - Observation of settlement of 70cm deep and cracks from 10+840 and 10+925

July 6 - Increased monitoring of the structure implemented – 2 additional prisms (total 18) and 2 extensometers installed in the area

July 15 - Observation of new cracks at 10+425 and 11+050 (corresponding to limit of South Cell water)

July 17 - Additional prism installed at 10+425 (total 19 prisms)

Mid August – reduced the inspections frequency

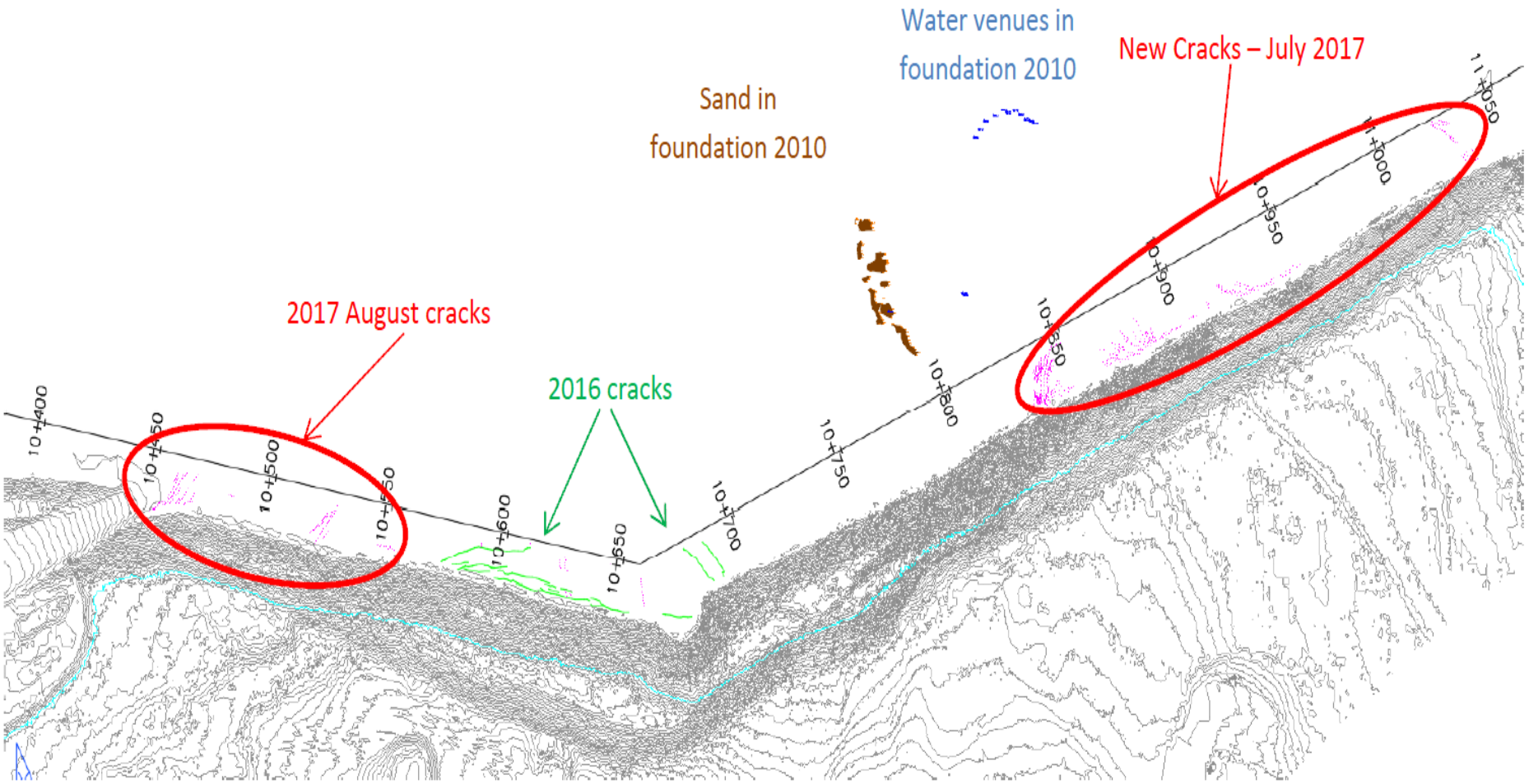
STORMWATER DIKE 2017 HIGHLIGHT

SUMMARY OF ACTION TAKEN IN RESPONSE TO OBSERVATION OF SETTLEMENT AND CRACK

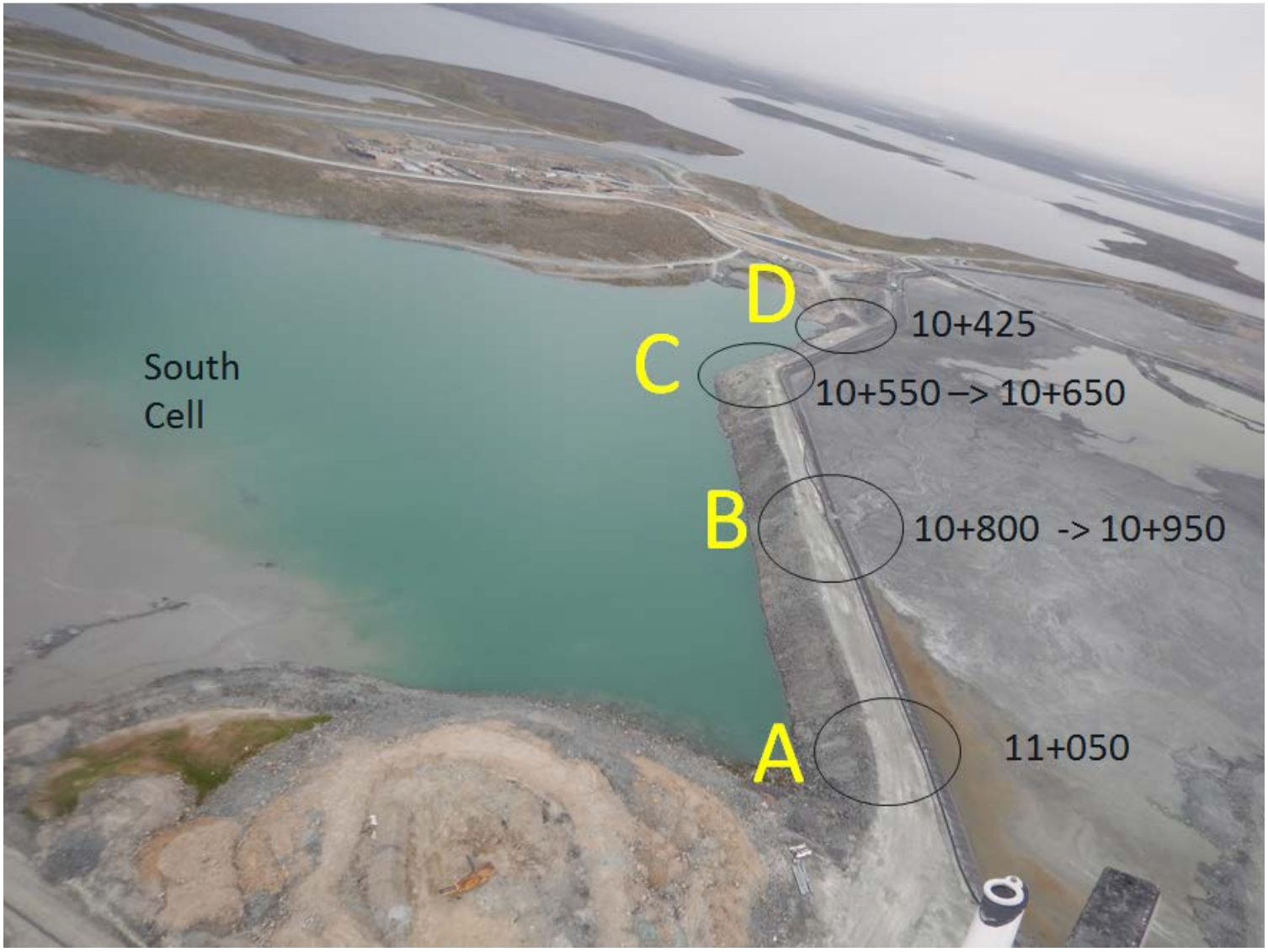
- Daily visual inspection of Stormwater Dike increased to 1 per day
- Increased frequency of prisms reading to 1 per day
- Weekly/ bi-weekly update to AEM Management and Dike designer
- Installation of additional instrumentation on the crest (3 prisms and 2 extensometers)

2016 CRACKS FILLED WITH BENTONITE

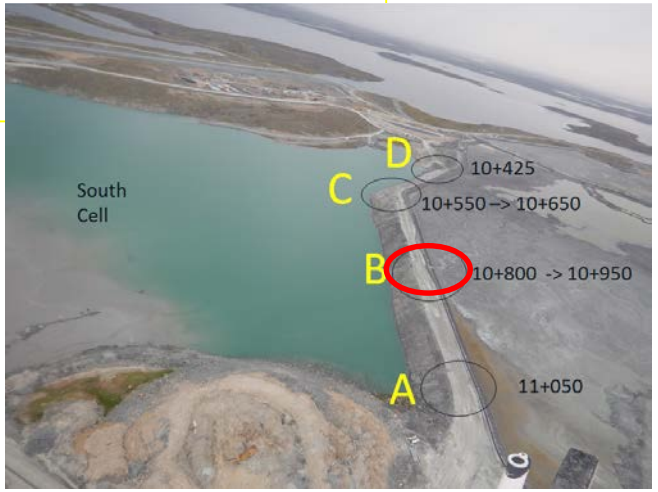
MOVEMENT ZONES - 2017



MOVEMENT ZONES - 2017



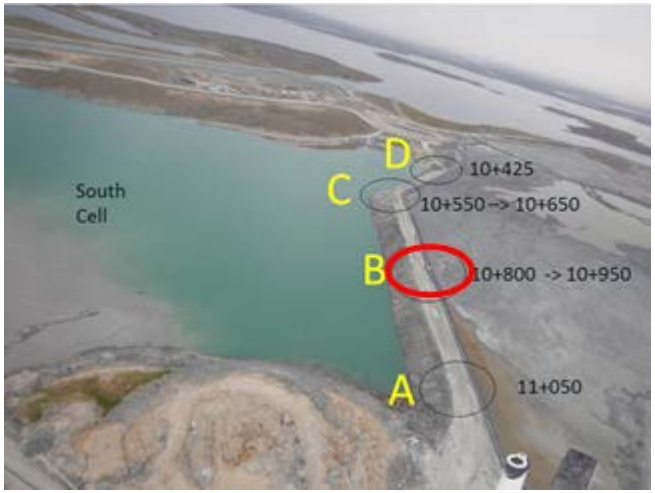
AREA OF MOVEMENT-10+800 TO 10+950



- Observed initially on July 5th 2017
- Depression present in previous year but deeper and larger amplitude this year
- Cracks were not present before

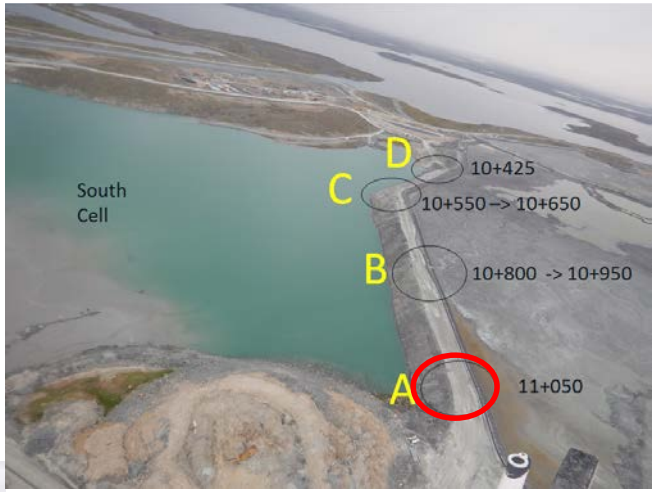
PICTURE OF MOVEMENT – 10+800 TO 10+950

- Cracks crossing the crest at 40º from CL
  - Did not progressed much during summer
- Longitudinal cracks along the crest
  - Constantly opened to up to 5cm wide

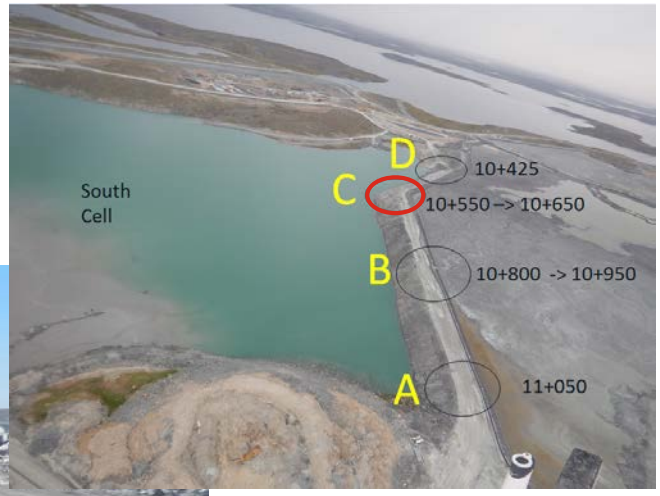


PICTURE OF MOVEMENT – 11+050

- Observed initially on July 15th 2017
- Appeared when water reached the toe in the area
- Crack width relatively small (<1cm)
- Cracks did not progressed



PICTURE OF MOVEMENT – 10+550 TO 10+750



PICTURE OF MOVEMENT – 10+425

AGNICO EAGLE