

## Appendix II – Trench Logs

# Clear Creek 2021 Trench Mapping Data

Mapping & sampling August 31 to September 5, 2021

Geologist: Briar Gonie

Compass declination set to 19.5

Trench 01 had to be reduced in length. Stared digging in the far East – 24 feet down there was still no bedrock and would need hours of benching (we were on the final day of the program). Filled in trench for safety reasons over winter. Chose a spot further to the west where it looked like the overburden would be thinner which was successful.

QTZT – Quartzite

QTZ – Quartz

Mod – Moderate

## CCTR21-01-A

START: 0397137, 7079725 elevation: 1363

END: 0397350, 7079618 elevation: 1320

Sample Sequence: C00222822 – C00222945

### **Azimuths:**

0m – 24m = 118/+5

24m – 72m = 108/+5

72m – 94m = 122/-1

94m – 118m = 114/0

118m – 158m = 095/+4

158m – 218m = 102/+3

218m – 234m = 144/-1

### **Measurements**

133m – Folioform qtz vein in schist @ 254/22 RHR (right hand rule)

201m – 20cm qtz vein @ 233/30 RHR

### **Mapping**

0m – 30m = Bedrock. Blocky QTZT. Mild oxidation, intense black oxide on select fracture faces.

30m – 48m = Bedrock. QTZT. Mild oxidation, intense on fracture faces (orange, red & black).

48m – 56m = Sub-Bedrock. QTZT. Mild oxidation, intense on fracture faces (orange, red & black).

56m – 66m = Bedrock. QTZT. Mild oxidation, intense on fracture faces (orange, red & black).

66m – 80m = Sub-Bedrock. QTZT. Mild oxidation, intense on fracture faces (orange, red & black).

80m – 82m = QTZT. Mild oxidation, intense on fracture faces (orange, red & black). Quartz veins up to 5cm wide, heavily oxidized throughout.

82m – 88m = Sub-Bedrock. Heavily oxidized schist seam at 82m continuing sub horizontal until 88m.

88m – 94m = Dirt and till. ~30cm qtz vein with orange & blood red oxidation at 89m (not insitu).

94m – 130m = Dirt and qtz vein with dark black and red oxidation

Seam of dark red/black oxidized schist

20cm qtz vein @120m, lightly oxidized

130m – 146m = Schist with intensely oxidized black & orange folioform qtz vein in schist at 133m @254/22 RHR

146m – 152m = Thin, clay altered layer (~1cm), intense orange oxidation

Schist, only mild oxidation on fracture faces, high muscovite content

152m – 168m = Schist, only mild oxidation on fracture faces, high muscovite content

168m – 180m = Not dug to bedrock. Overburden composed of Schist, QTZT and lightly oxidized qtz  
180m – 200m = Mildly oxidized schist with muscovite  
200m – 202m = Several qtz veins, 1cm to 20cm, mildly oxidized (20cm vein trending 233/30 RHR @201m)  
202m – 234m = Schist, mild to mod oxidation, high muscovite content

## **CCTR21-01-B**

START: 0397419, 7079531 elevation: 1456  
END: 0397350, 7079618 elevation: 1320  
Sample Sequence: C00222501 – C000222550

### **Azimuths:**

0m – 30m = 323/-2  
30m – 46m = 312/-2  
46m – 80m = 302/-4  
80m – 94m = 317/0

### **Measurements**

40m – Schist foliation @ 279/05 RHR  
67m – 20cm qtz vein @ 297/26 RHR

### **Mapping**

0m – 16m = Schist, no oxidation in fabric, mild on fracture faces  
16m – 58m = Schist, intense oxidation throughout. 2cm qtz veining from 18-20m, mildly oxidized. Blood red oxidation on fracture faces at 228m. Foliation @40m trending 279/05 RHR  
58m – 62m = Schist, moderately oxidized. Up to 40cm qtz veins stained orange  
62m – 94m = Intensely oxidized schist. Up to 20cm qtz veins, 20cm qtz vein @ 67m (297/26 RHR)

## **CCTR21-02**

START: 0397028, 7079029 elevation: 1343  
END: 0397006, 7079076 elevation: 1339  
Sample Sequence: C00222551 – C00222578

### **Azimuth:**

0m – 52m = 337/0

### **Measurements**

2m – 6m @ 154/32 RHR

### **Mapping**

0m – 2m = Metaseds, intense orange oxidation. <5cm wide qtz veins.  
2m – 6m = Metaseds, intense oxidation. Graphitic schist layer @ 154/32 RHR  
6m – 10m = Metaseds, intensely oxidized.  
10m – 36m = Clay alt metaseds, small smokey qtz veining  
36m – 42m = Clay alt metaseds. Small smokey qtz veining. Moderate dark orange oxidation. ~10cm intrusive dyke

(weathered) between 40 and 42m – not in-situ?

42m – 44m = Clay alt metaseds stained yellow and orange

44m – 48m = Clay alt metaseds, intensely oxidized

48m – 52m = Overburden

## **CCTR21-03-A**

START: 0396286, 7078936 elevation: 1276

END: 0396275, 7078980 elevation: 1283

Sample Sequence: C00222772 – C00222793

### **Azimuth:**

0m – 44m = 348/+9

### **Measurements**

15m – Joint set @ 036/31 & 144/30 RHR

Dolomite? dipping 11 degrees to the south @~35m

### **Mapping**

0m – 12m = Friable schist, intensely oxidized

12m – 18m = Blocky, competent schist, intense oxidation on fracture faces. Unit overlain by the friable, intensely oxidized schist unit from previous interval. Joint set @15m = 036/31 & 144/30 RHR

18m – 44m = Intensely oxidized schist/QTZT. 5cm pale, porous white intrusion dipping 11 degrees toward the south (dolomite?) @ ~35m.

## **CCTR21-03-B**

START: 0396276, 7078996 elevation: 1283

END: 0396264, 7079048 elevation: 1282

Sample Sequence: C00222794 – C00222821

### **Azimuth:**

0m – 52m = 345/-1

### **Measurements**

0.5m = Minor fault @ 210/69 RHR

0m – 2m = 4cm Qtz veins @ 186/32 RHR

### **Mapping**

0m – 2m = Schist. Minor fault at 0.5m (210/69 RHR). 4cm qtz veins, minor oxidation (186/32 RHR).

2m – 10m = Silicious schist, intensely oxidized. Foliation @ 178/25 RHR.

10m – 14m = Blocky QTZT, intensely oxidized.

14m – 20m = Fractured, broken QTZT, intensely oxidized.

20m – 32m = Clay alt metaseds. Seam at 32m w/ orange and black oxides.

32m – 52m = Silicious schist, intensely oxidized.

## **CCTR21-04-A**

START: 0395993, 7079012 elevation: 1278

END: 0396000, 7078977 elevation: 1282

Sample Sequence: C00222637 – C00222659

### **Azimuth:**

0m – 44m = 175/+2

### **Mapping**

0m – 10m = Metaseds, intensely oxidized on fracture faces, moderate in fabric. Up to 3cm qtz veining (stained orange)

10m – 12m = Metaseds, mild oxidation. 20cm qtz vein, dark orange and black oxides, white qtz, no vugs.

12m – 42m = Mostly friable, intensely oxidized metaseds

42m – 44m = OVB

## **CCTR21-04-B**

START: 0395994, 7078957 elevation: 1282

END: 0395983, 7078845 elevation:

Sample Sequence: C00222660 – C00222720

### **Azimuths:**

0m – 22m = 184/0

22m – 114m = 184/-5

### **Mapping**

0m – 24m = OVB (Schist, mod to intense oxidation)

24m – 36m = QTZT. Blocky, intense oxidation. <4cm fingers of felsic intrusive.

36m – 38m = Contact. Friable QTZT and clay alt intrusive?

38m – 48m = Blocky QTZ, intensely oxidized

48m – 54m = Friable, intensely oxidized metaseds

54m – 62m = Blocky, intensely oxidized QTZT.

62m – 72m = Blocky QTZT, mild to mod oxidation

72m – 74m = Schist, moderate to intense oxidation

74m – 86m = Blocky QTZT, intensely oxidized

86m – 92m = Intensely oxidized QTZT with thin, ~3cm band of limonite at 88m

92m – 100m = Blocky, intense orange oxidation

100m – 114m = Intense black oxides on QTZT

## **CCTR21-05**

START: 0395571, 7079007 elevation: 1201

END: 039555, 7079104 elevation: 1276

Sample Sequence: C00222579 – C00222633

### **Azimuths:**

0m – 50m = 348/+9

50m – 64m = 346/-2

64m – 102m = 353/-13

### **Mapping**

0m – 6m = OVB

6m – 8m = Clay alt metaseds, intensely oxidized

8m – 46m = Silicious metaseds, intense oxidation on fracture faces

46m – 48m = Metaseds, <1cm qtz veining

48m – 56m = Silicious metaseds, samples may not be in-situ

56m – 78m = Blocky, silicious metaseds

78m – 80m = gray/black schist

80m – 90m = Intensely oxidized metaseds

90m – 94m = Dark, mildly oxidized metasediments

94m – 102m = Intensely oxidized silicious metasediments

## **CCTR21-06**

START: 0396760, 7079001 elevation: 1314

END: 0396817, 7079075 elevation: 1316

Sample Sequence: C00222721 – C00222771

### **Azimuth:**

0m – 16m = 033/-2

16m – 39m = 042/-7m

39m – 94m = 034/-6

### **Mapping**

0m – 34m = Metaseds (schist), moderate oxidation, intense on fracture faces

34m – 38m = Gravelly OVB, mild oxidized schist.

38m – 44m = Sub-Bedrock. Intensely oxidized, friable metasediments.

44m – 50m = Intensely oxidized clays

50m – 58m = Intensely oxidized, gravelly OVB

58m – 70m = Intensely oxidized clays

70m – 72m = Sub-Bedrock. Intensely oxidized QTZT.

72m – 82m = Intensely oxidized gravelly OVB

82m – 84m = Sub-Bedrock. Intensely oxidized QTZT.

84m – 94m = Intensely oxidized OVB (QTZT)