



Figure 3-57: Mizpah Whole Tailings, dispersed and settled after 4 hour or >3 $\mu m.$









Figure 3-58: Mizpah Whole Tailings, dispersed and settled after 8 hours or >2 μ m.





Figure 3-59: Mizpah Whole Tailings, dispersed and settled after 16 hours or >1.5 $\mu\text{m}.$









Figure 3-60: Mizpah Whole Tailings, dispersed and settled after 24 hours or >1.25 $\mu m.$









Figure 3-61: Mizpah Whole Tailings, dispersed effluent in sedimentation cylinder.





Figure 3-62: Mizpah Pond Fine Tailings, undispersed bulk specimen.











Figure 3-63: Mizpah Pond Coarse Tailings, undispersed bulk specimen.











Figure 3-64: Pay Dam Penstock Fine Tailings, undispersed bulk specimen.









Figure 3-65: Pay Dam Penstock Coarse Tailings, undispersed bulk specimen.







Figure 3-66: Pay Dam Penstock Fine Tailings, undisturbed specimen.











Figure 3-67: Pay Dam Penstock Coarse Tailings, undisturbed specimen.









Figure 3-68: Summary of energy dispersive x-ray spectrometry on Mizpah whole tailings.





Figure 3-69: XRD spectrograph: Mizpah Whole Tailings.



06-0710 (I) - Pyrite, syn - FeS2 - d x by: 1 000 - Y 0 75 %

Figure 3-70: XRD spectrograph: Mizpah Pond Fine Tailings.





Figure 3-71: XRD spectrograph: Mizpah Pond Coarse Tailings.

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- 41-0224 (I) Bassanite, syn CaSO4 0 5H2O d x by: 1.000 Y 1.47 % 06-0710 (I) - Pyrite, syn - FeS2 - d x by: 1.000 - Y 1.08 %

Figure 3-72: XRD spectrograph: Pay Dam Penstock Fine Tailings.





12-0203 (N) - Pyrophyllite-2M1 - Al2Si4O10(OH)2 - d x by: 1.000 - Y: 3.39 %

Figure 3-73: XRD spectrograph: Pay Dam Penstock Coarse Tailings.



06-0710 (I) - Pyrite, syn - FeS2

25-0022 (I) - Pyrophyllite-1A - Al2Si4O10(OH)2

Figure 3-74: XRD spectrograph of Mizpah whole tailings 150 µm fraction.





Figure 3-75: XRD spectrograph of Mizpah whole tailings 75 µm fraction.



26-0911 (I) - Illite-2M1 - (K,H3O)AI2SI3AIO10(OH)2 25-0022 (I) - Pyrophyllite-1A - AI2SI4O10(OH)2

Figure 3-77: XRD spectrograph of Mizpah whole tailings 2 μm fraction.

41-0224 (I) - Bassanite, syn - CaSO4-0.5H2O 06-0710 (I) - Pyrite, syn - FeS2

Figure 3-78: XRD spectrograph of Mizpah whole tailings 1 µm fraction.