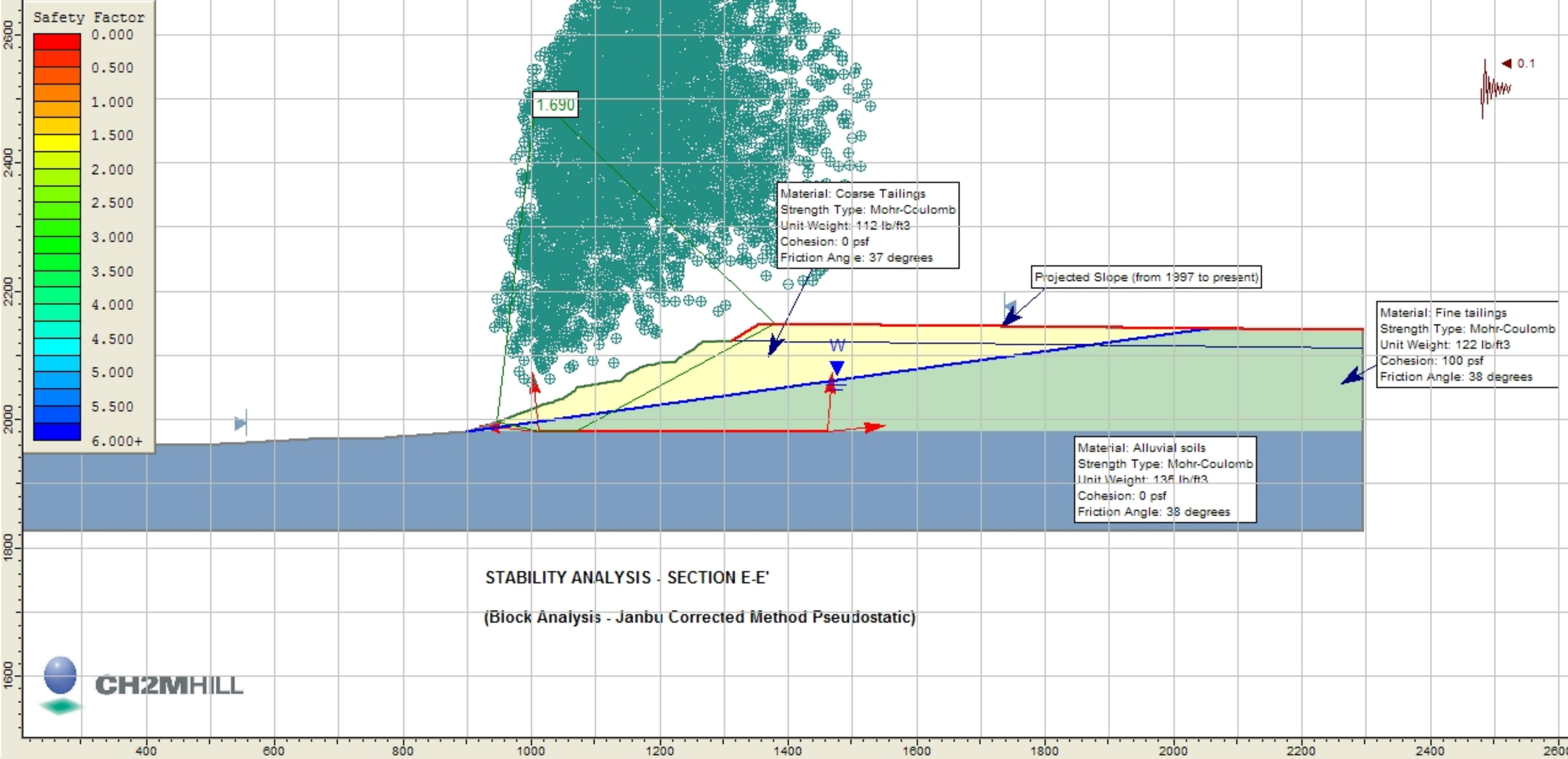
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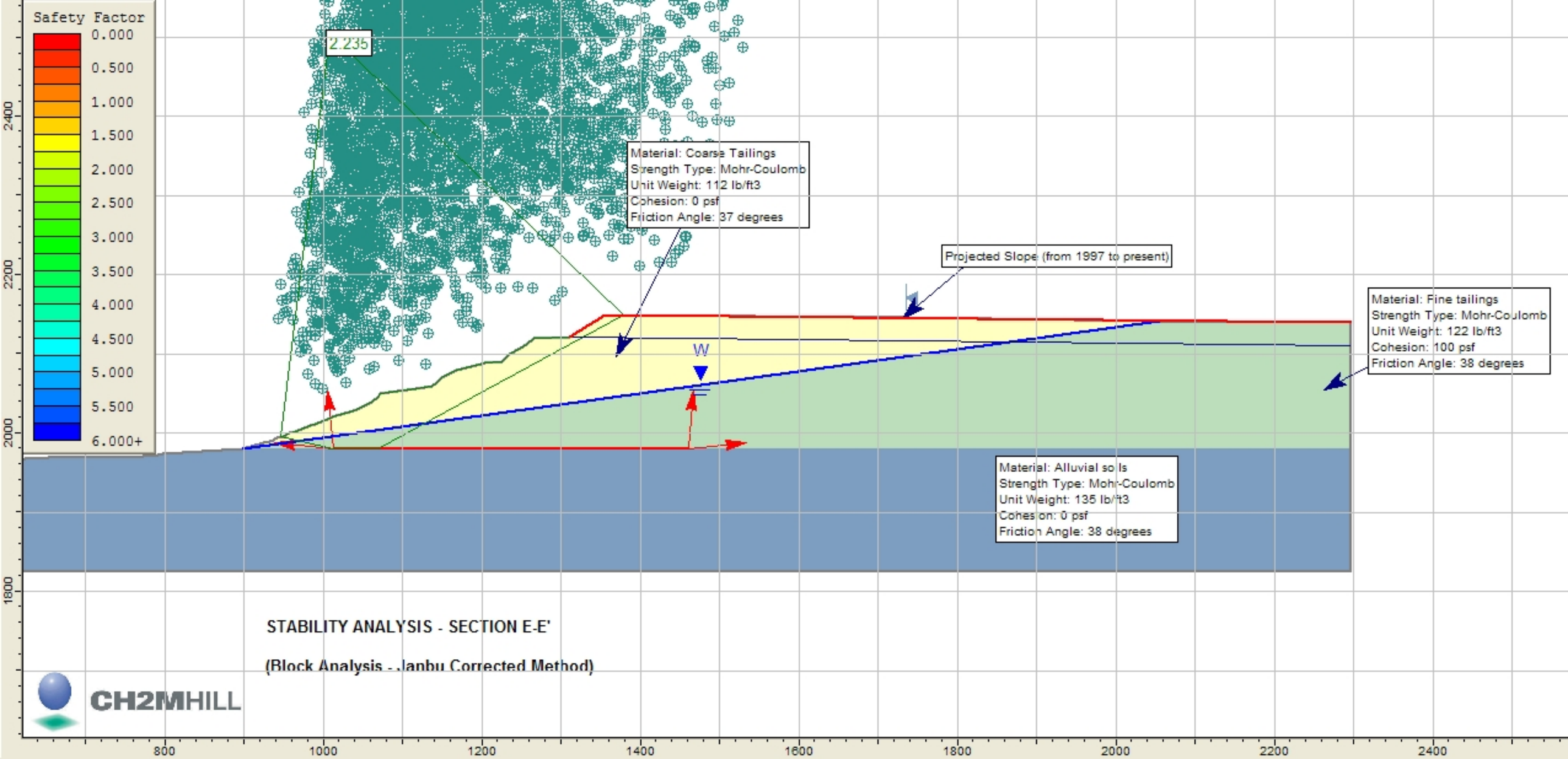
0.500
1.000
1.500
2.000
2.500
3.000
3.500
4.000
4.500
5.000
5.500
6.000+
1.690
Material: Coarse Tailings
Strength Type: Mohr-Coulomb
Unit Weight: 112 lb/ft3
Cohesion: 0 psf
Friction Angle: 37 degrees
Projected Slope (from 1997 to present)
Material: Fine tailings
Strength Type: Mohr-Coulomb
Unit Weight: 122 lb/ft3
Cohesion: 100 psf
Friction Angle: 38 degrees
Material: Alluvial soils
Strength Type: Mohr-Coulomb
Unit Weight: 135 lb/ft3
Cohesion: 0 psf
Friction Angle: 38 degrees
0.1
STABILITY ANALYSIS - SECTION E-E'
(Block Analysis - Janbu Corrected Method Pseudostatic)
CH2MHILL
2600
2400
2200
2000
1800
1600
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
2600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0.000
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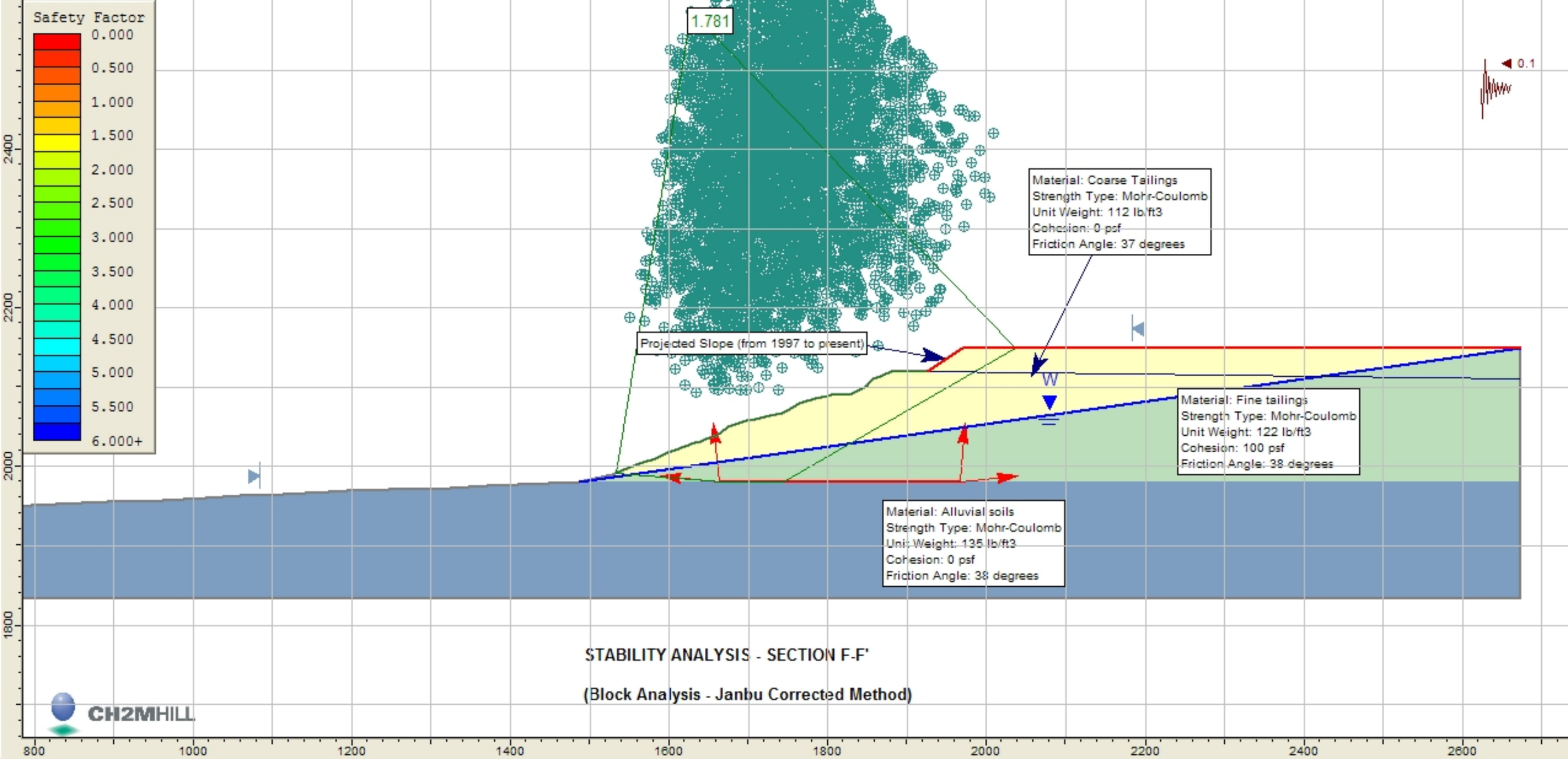
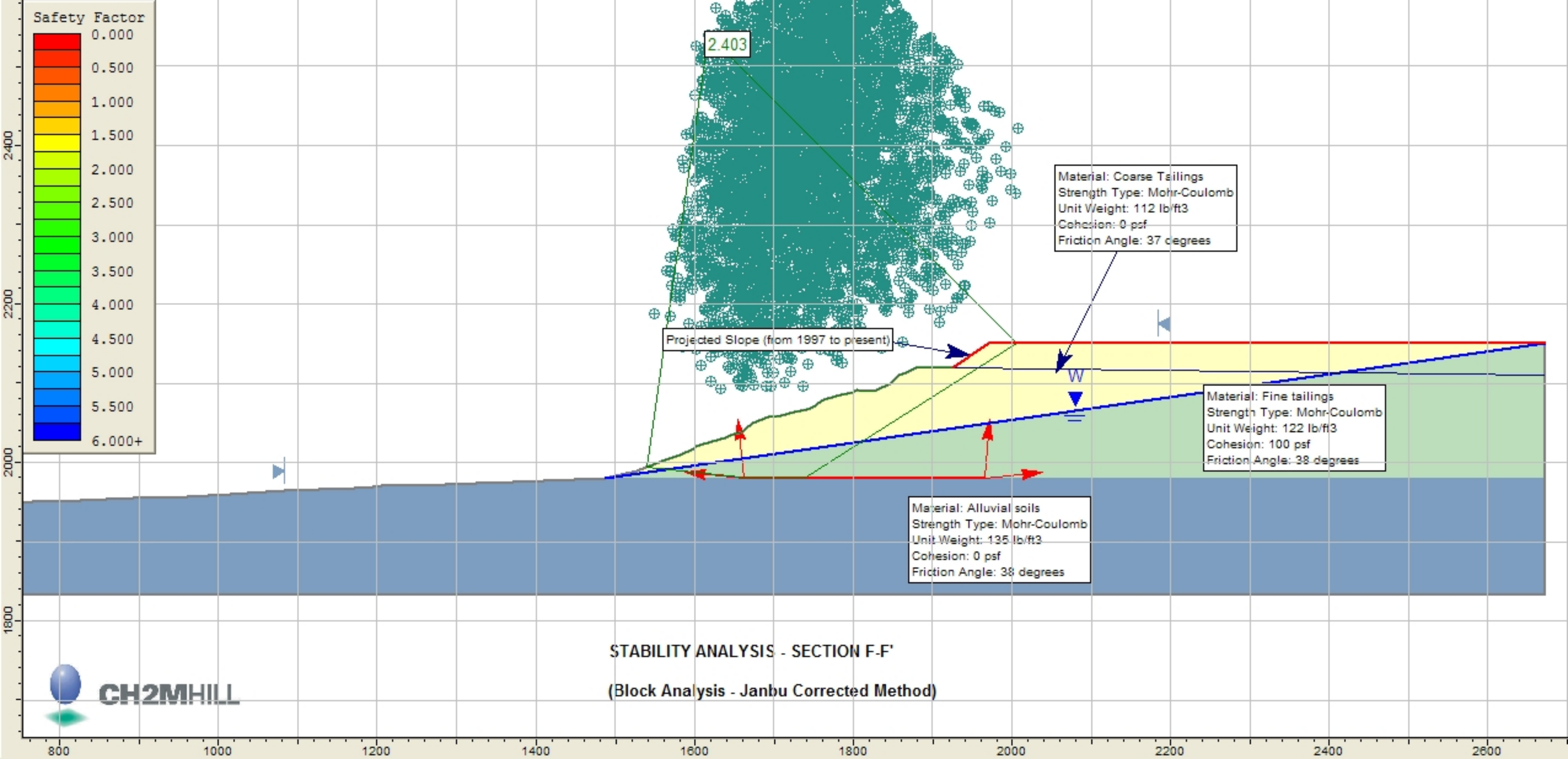
1.500
2.000
2.500
3.000
3.500
4.000
4.500
5.000
5.500
6.000+
2.235
Material: Coarse Tailings
Strength Type: Mohr-Coulomb
Unit Weight: 112 lb/ft3
Cohesion: 0 psf
Friction Angle: 37 degrees
Projected Slope (from 1997 to present)
Material: Fine tailings
Strength Type: Mohr-Coulomb
Unit Weight: 122 lb/ft3
Cohesion: 100 psf
Friction Angle: 38 degrees
W
F
Material: Alluvial soils
Strength Type: Mohr-Coulomb
Unit Weight: 135 lb/ft3
Cohesion: 0 psf
Friction Angle: 38 degrees
STABILITY ANALYSIS - SECTION E-E'
(Block Analysis - Janbu Corrected Method)
CH2MHILL
2400
2200
2000
1800
800
1000
1200
1400
1600
1800
2000
2200
2400



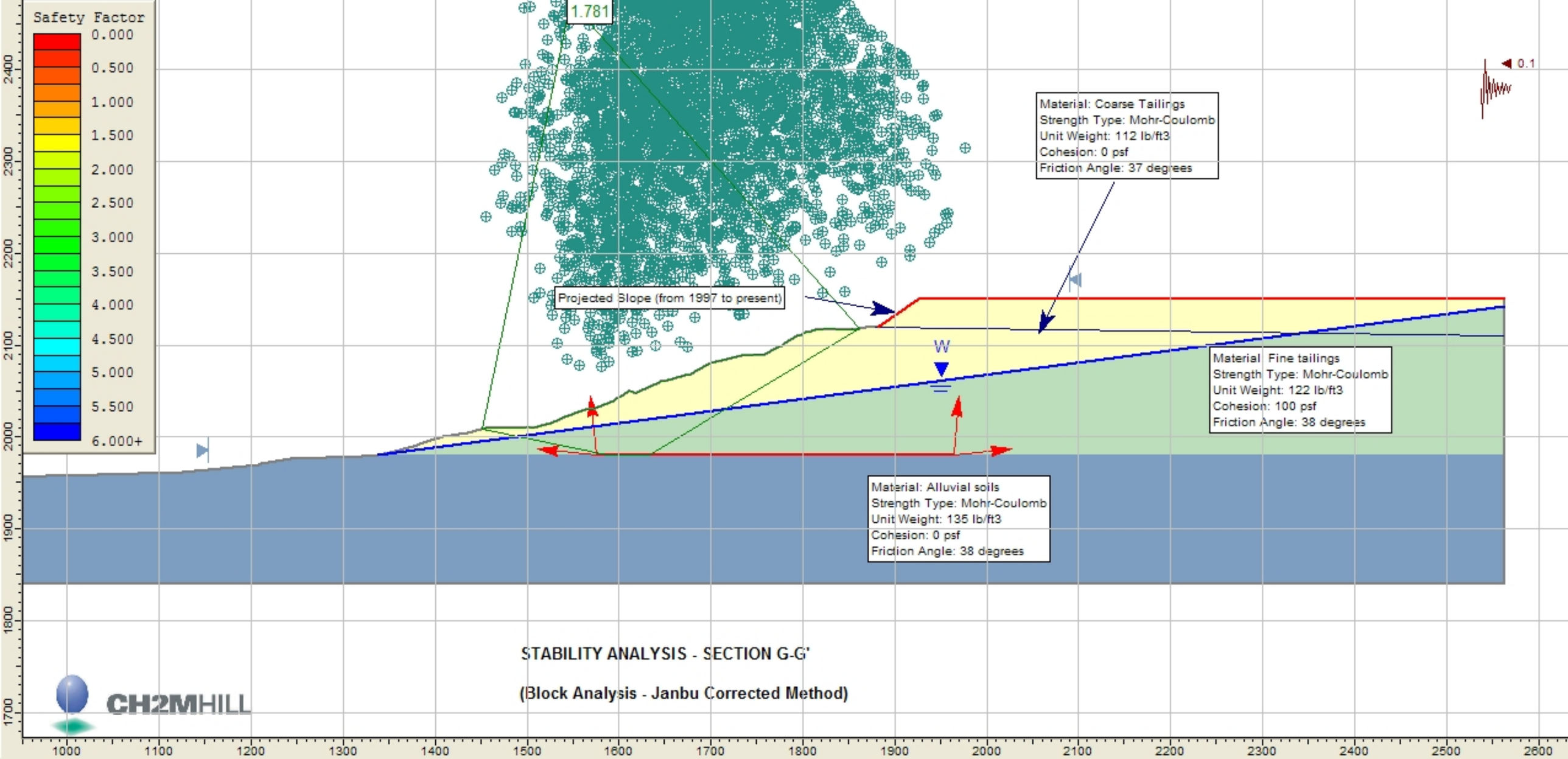
STABILITY ANALYSIS - SECTION F-F'

(Block Analysis - Janbu Corrected Method)



STABILITY ANALYSIS - SECTION F-F'

(Block Analysis - Janbu Corrected Method)


Safety Factor
0.000
0.500
1.000
1.500
2.000
2.500
3.000
3.500
4.000
4.500
5.000
5.500
6.000+
1.781
Projected Slope (from 1997 to present)
Material: Coarse Tailings
Strength Type: Mohr-Coulomb
Unit Weight: 112 lb/ft3
Cohesion: 0 psf
Friction Angle: 37 degrees
W
Material Fine tailings
Strength Type: Mohr-Coulomb
Unit Weight: 122 lb/ft3
Cohesion: 100 psf
Friction Angle: 38 degrees
Material: Alluvial soils
Strength Type: Mohr-Coulomb
Unit Weight: 135 lb/ft3
Cohesion: 0 psf
Friction Angle: 38 degrees
0.1
STABILITY ANALYSIS - SECTION G-G'
(Block Analysis - Janbu Corrected Method)
CH2MHILL
2400
2300
2200
2100
2000
1900
1800
1700
1000
1100
1200
1300
1400
1500
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1700
1800
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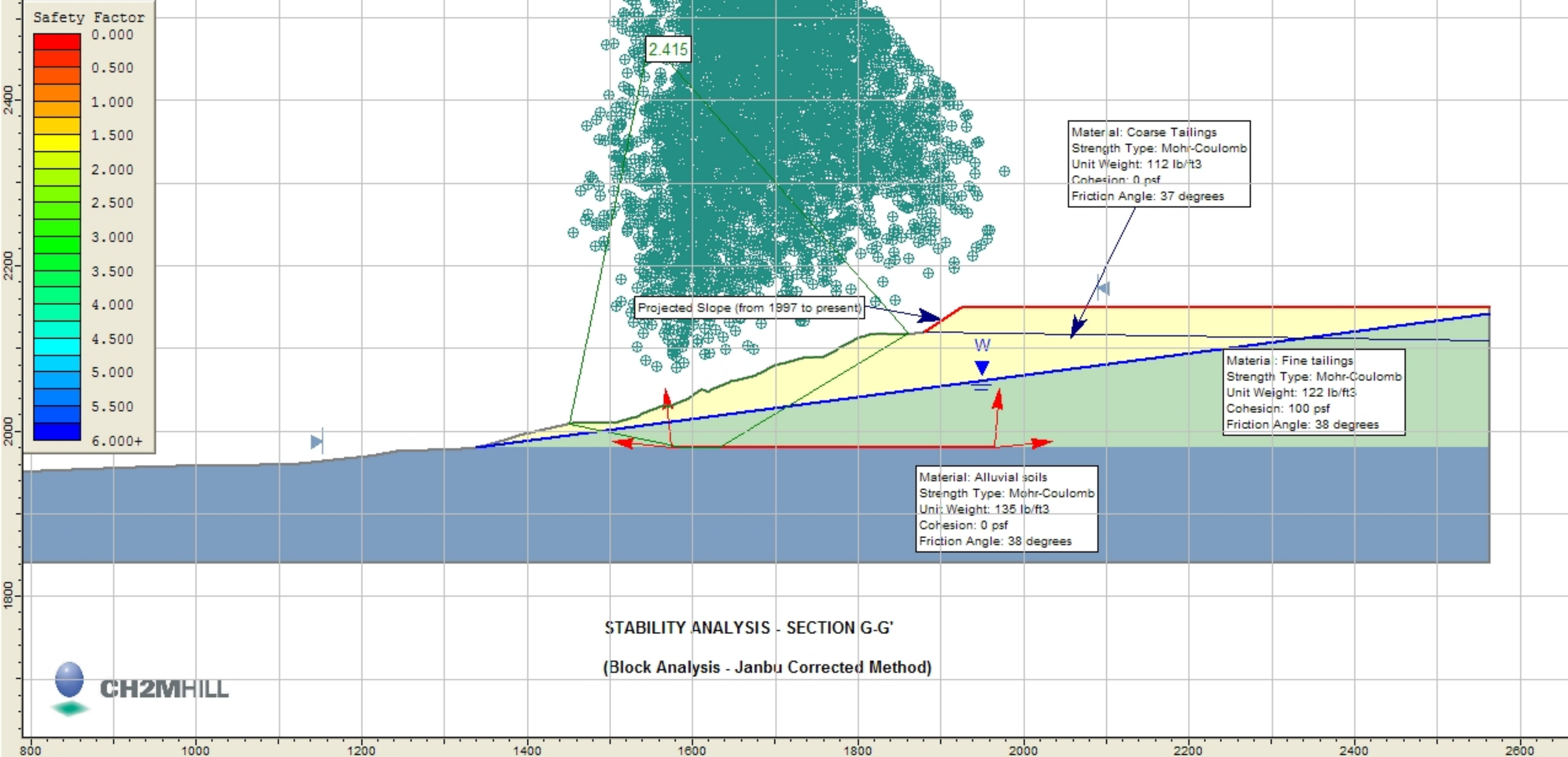
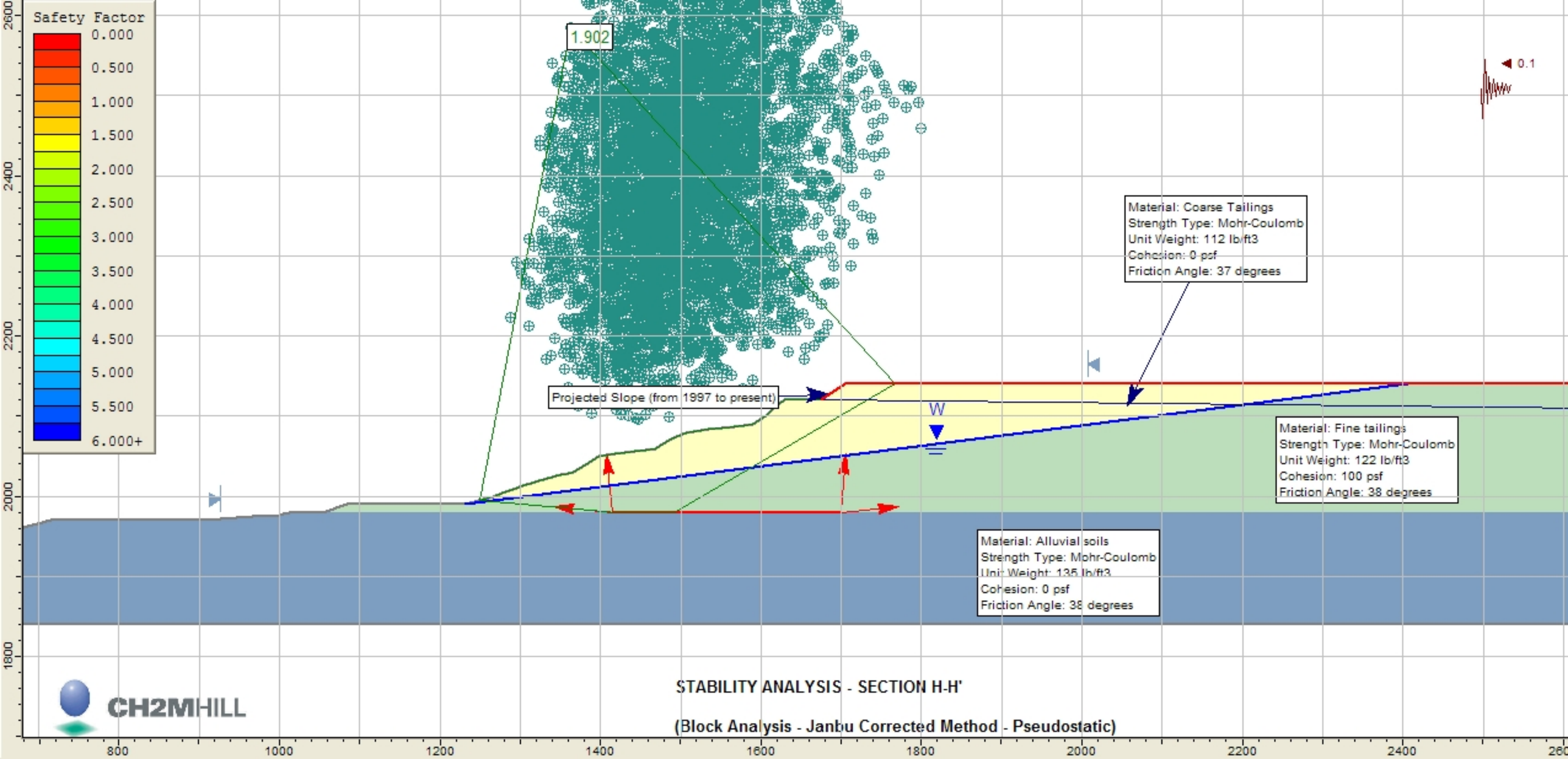
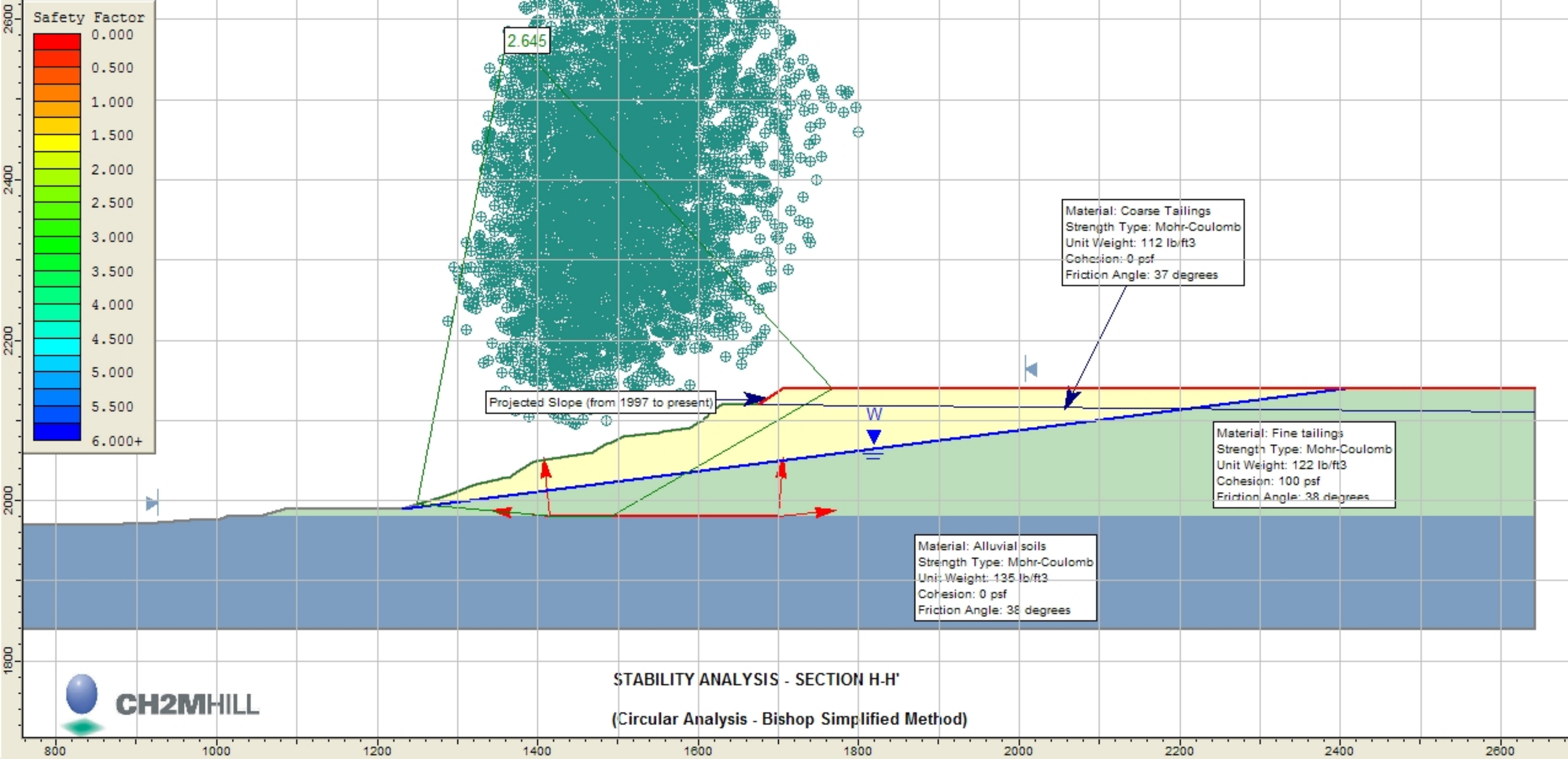
2100
2200
2300
2400
2500
2600



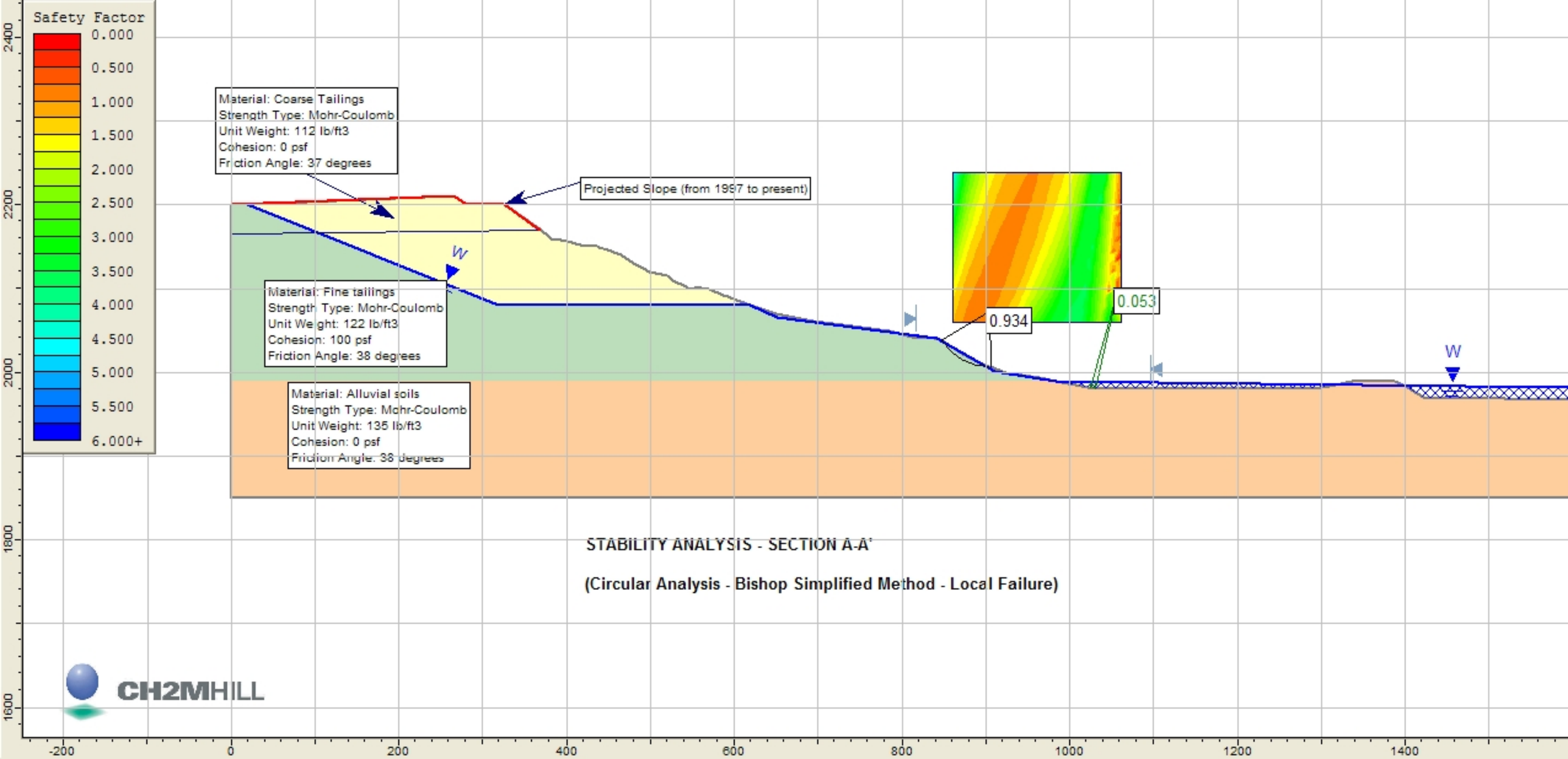
STABILITY ANALYSIS - SECTION G-G'

(Block Analysis - Janbu Corrected Method)


Safety Factor
0.000
0.500
1.000
1.500
2.000
2.500
3.000
3.500
4.000
4.500
5.000
5.500
6.000+
1.902
0.1
Projected Slope (from 1997 to present)
W
Material: Coarse Tailings
Strength Type: Mohr-Coulomb
Unit Weight: 112 lb/ft3
Cohesion: 0 psf
Friction Angle: 37 degrees
Material: Fine tailings
Strength Type: Mohr-Coulomb
Unit Weight: 122 lb/ft3
Cohesion: 100 psf
Friction Angle: 38 degrees
Material: Alluvial soils
Strength Type: Mohr-Coulomb
Unit Weight: 135 lb/ft3
Cohesion: 0 psf
Friction Angle: 38 degrees
2600
2400
2200
2000
1800
800
1000
1200
1400
1600
1800
2000
2200
2400
CH2MHILL
STABILITY ANALYSIS - SECTION H-H'
(Block Analysis - Janbu Corrected Method - Pseudostatic)


Safety Factor
0.000
0.500
1.000
1.500
2.000
2.500
3.000
3.500
4.000
4.500
5.000
5.500
6.000+
2.645
Projected Slope (from 1997 to present)
W
Material: Coarse Tailings
Strength Type: Mohr-Coulomb
Unit Weight: 112 lb/ft3
Cohesion: 0 psf
Friction Angle: 37 degrees
Material: Fine tailings
Strength Type: Mohr-Coulomb
Unit Weight: 122 lb/ft3
Cohesion: 100 psf
Friction Angle: 38 degrees
Material: Alluvial soils
Strength Type: Mohr-Coulomb
Unit Weight: 135 lb/ft3
Cohesion: 0 psf
Friction Angle: 38 degrees
2600
2400
2200
2000
1800
800
1000
1200
1400
1600
1800
2000
2200
2400
2600
CH2MHILL
STABILITY ANALYSIS - SECTION H-H'
(Circular Analysis - Bishop Simplified Method)

Appendix D
Local Stability Analysis
Circular Failure Surfaces


Safety Factor
0.000
0.500
1.000
1.500
2.000
2.500
3.000
3.500
4.000
4.500
5.000
5.500
6.000+
Material: Coarse Tailings
Strength Type: Mohr-Coulomb
Unit Weight: 112 lb/ft3
Cohesion: 0 psf
Friction Angle: 37 degrees
Projected Slope (from 1997 to present)
Material: Fine tailings
Strength Type: Mohr-Coulomb
Unit Weight: 122 lb/ft3
Cohesion: 100 psf
Friction Angle: 38 degrees
Material: Alluvial soils
Strength Type: Mohr-Coulomb
Unit Weight: 135 lb/ft3
Cohesion: 0 psf
Friction Angle: 38 degrees
0.934
0.053
W
W
STABILITY ANALYSIS - SECTION A-A'
(Circular Analysis - Bishop Simplified Method - Local Failure)
CH2MHILL
2400
2200
2000
1800
1600
-200
0
200
400
600
800
1000
1200
1400