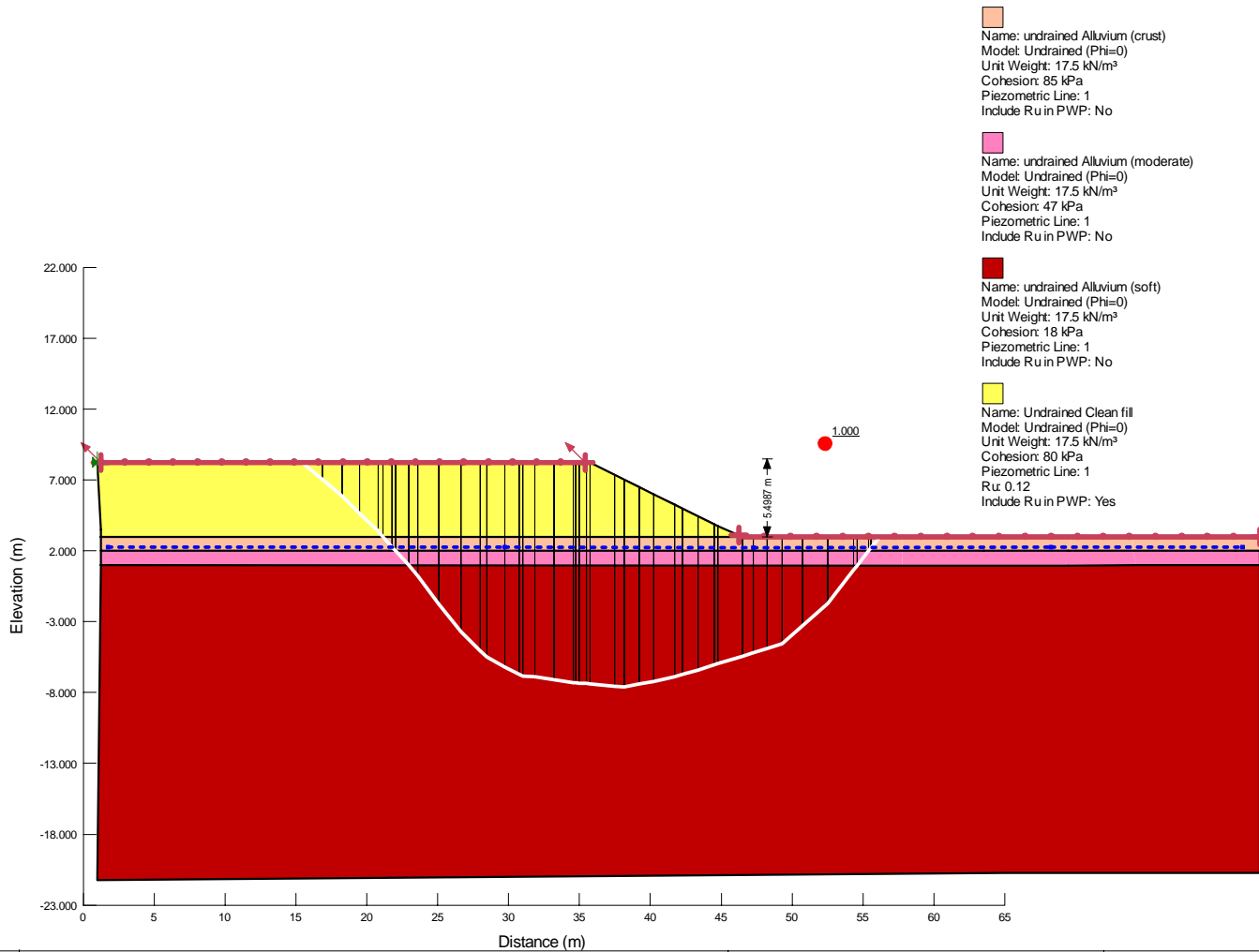


Appendix D: Stability Analysis Slope/W models

- **Back analysis**
- **Proposed design cases**



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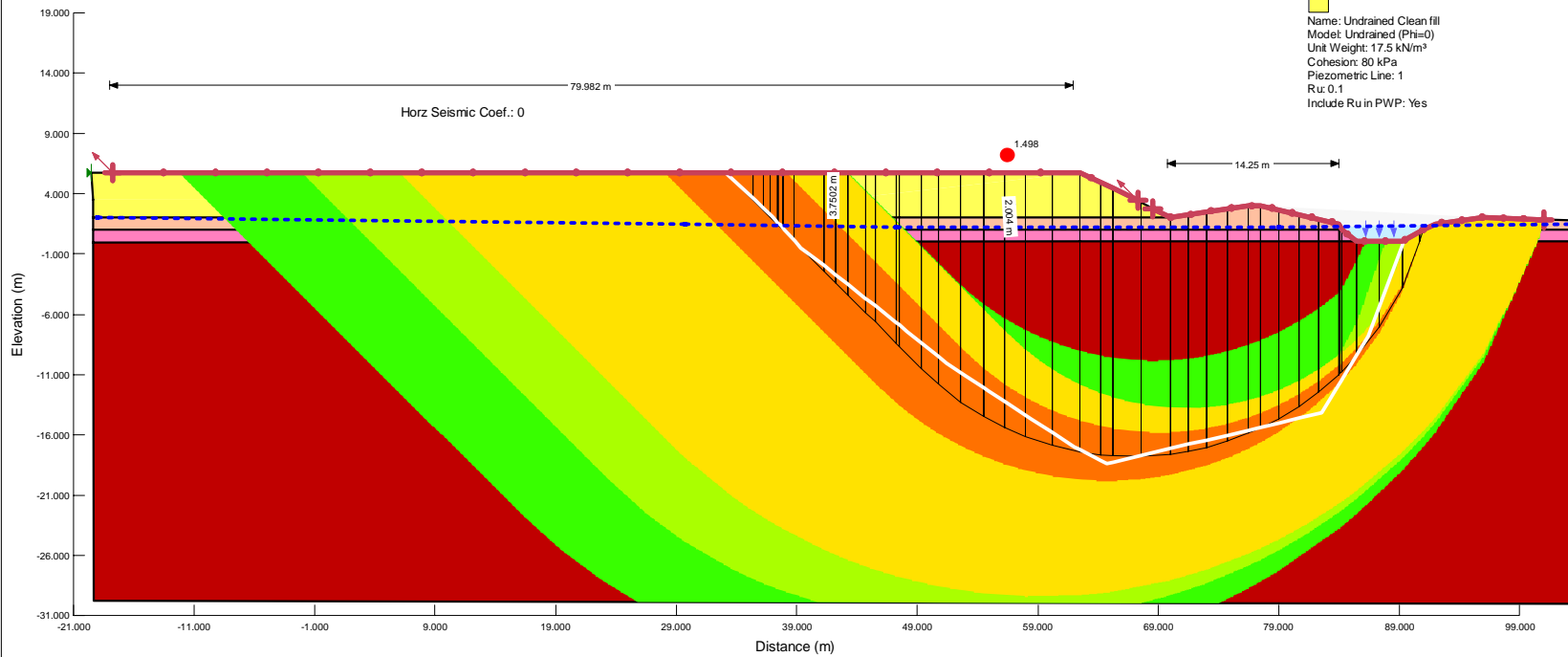
ENVIROERT
CLEANFILL AREA

Project: Envirofert Cleanfill
Location: [section]
Analysis Case:
Back analysis

Analysed by: JDFS
Checked by: YFT
Job Number: 1003199
Date: 15/10/2018
Time: 08:05:21 p.m.
Figure:

Analysis Notes:
 1. Name: 1.0 Static undrained
 2. Method: Spencer
 3. Direction of movement: Left to Right
 4. Slip Surface Option: Entry and Exit
 5. PWP Conditions Source: Piezometric Line with Ru
 6. Optimization: Yes
 7. Tension Crack Option: Tension Crack Line

- Name: undrained Alluvium (crust)
 Model: Undrained (Phi=0)
 Unit Weight: 17.5 kN/m³
 Cohesion: 85 kPa
 Piezometric Line: 1
 Include Ru in PWP: No
- Name: undrained Alluvium (moderate)
 Model: Undrained (Phi=0)
 Unit Weight: 17.5 kN/m³
 Cohesion: 47 kPa
 Piezometric Line: 1
 Include Ru in PWP: No
- Name: undrained Alluvium (soft)
 Model: Undrained (Phi=0)
 Unit Weight: 17.5 kN/m³
 Cohesion: 18 kPa
 Piezometric Line: 1
 Include Ru in PWP: No
- Name: Undrained Clean fill
 Model: Undrained (Phi=0)
 Unit Weight: 17.5 kN/m³
 Cohesion: 80 kPa
 Piezometric Line: 1
 Ru: 0.1
 Include Ru in PWP: Yes



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C:\Users\jdfs\Desktop\Proposed edge (spencer).gsz

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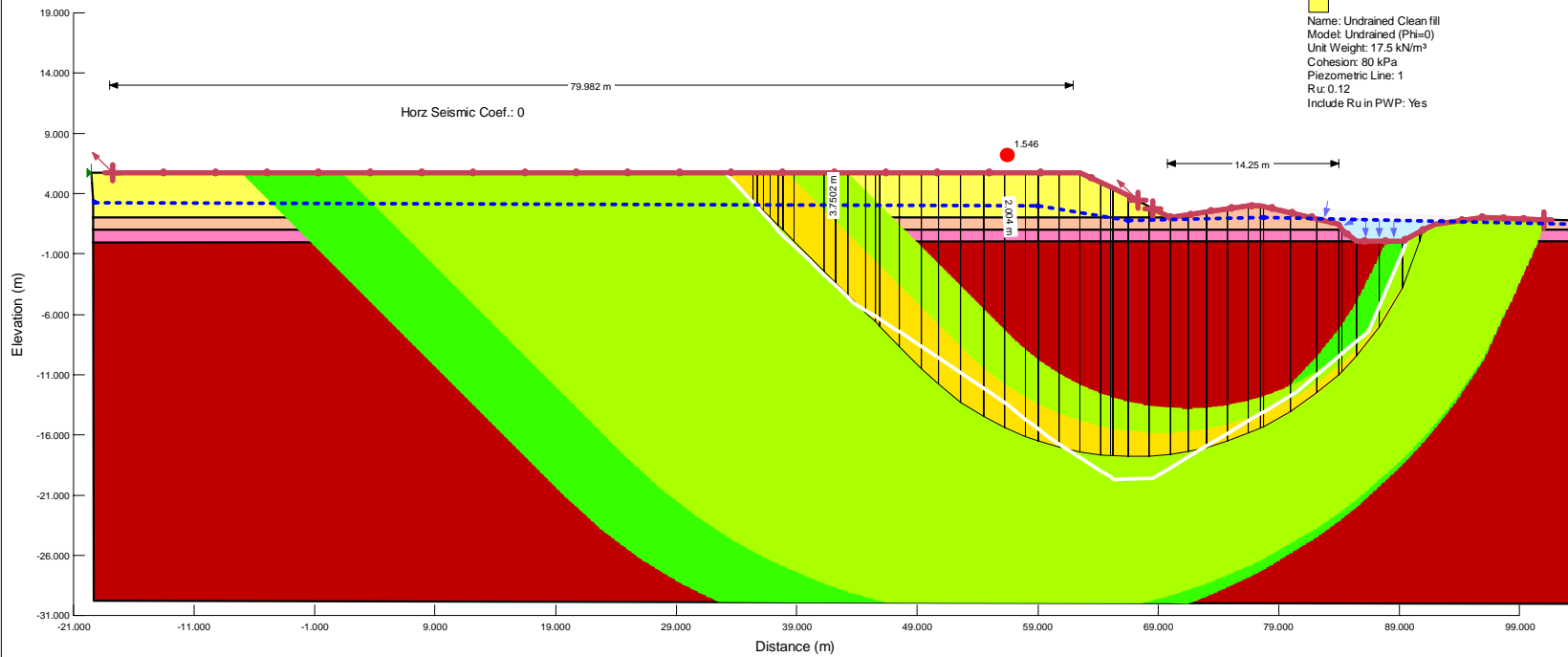
Project: Envirofert Cleanfill
 Location: [section]
 Analysis Case:

Design Case

Analysed by: JDFS
 Checked by: YFT
 Job Number: 1003199
 Date: 15/10/2018
 Time: 08:23:35 p.m.
 Figure:1.0

Analysis Notes:
 1. Name: 1.1 High Groundwater undrained
 2. Method: Spencer
 3. Direction of movement: Left to Right
 4. Slip Surface Option: Entry and Exit
 5. PWP Conditions Source: Piezometric Line with Ru
 6. Optimization: Yes
 7. Tension Crack Option: Tension Crack Line

- Name: undrained Alluvium (crust)
 Model: Undrained (Phi=0)
 Unit Weight: 17.5 kN/m³
 Cohesion: 85 kPa
 Piezometric Line: 1
 Include Ru in PWP: No
- Name: undrained Alluvium (moderate)
 Model: Undrained (Phi=0)
 Unit Weight: 17.5 kN/m³
 Cohesion: 47 kPa
 Piezometric Line: 1
 Include Ru in PWP: No
- Name: undrained Alluvium (soft)
 Model: Undrained (Phi=0)
 Unit Weight: 17.5 kN/m³
 Cohesion: 18 kPa
 Piezometric Line: 1
 Include Ru in PWP: No
- Name: Undrained Clean fill
 Model: Undrained (Phi=0)
 Unit Weight: 17.5 kN/m³
 Cohesion: 80 kPa
 Piezometric Line: 1
 Ru: 0.12
 Include Ru in PWP: Yes



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 CLEANFILL AREA

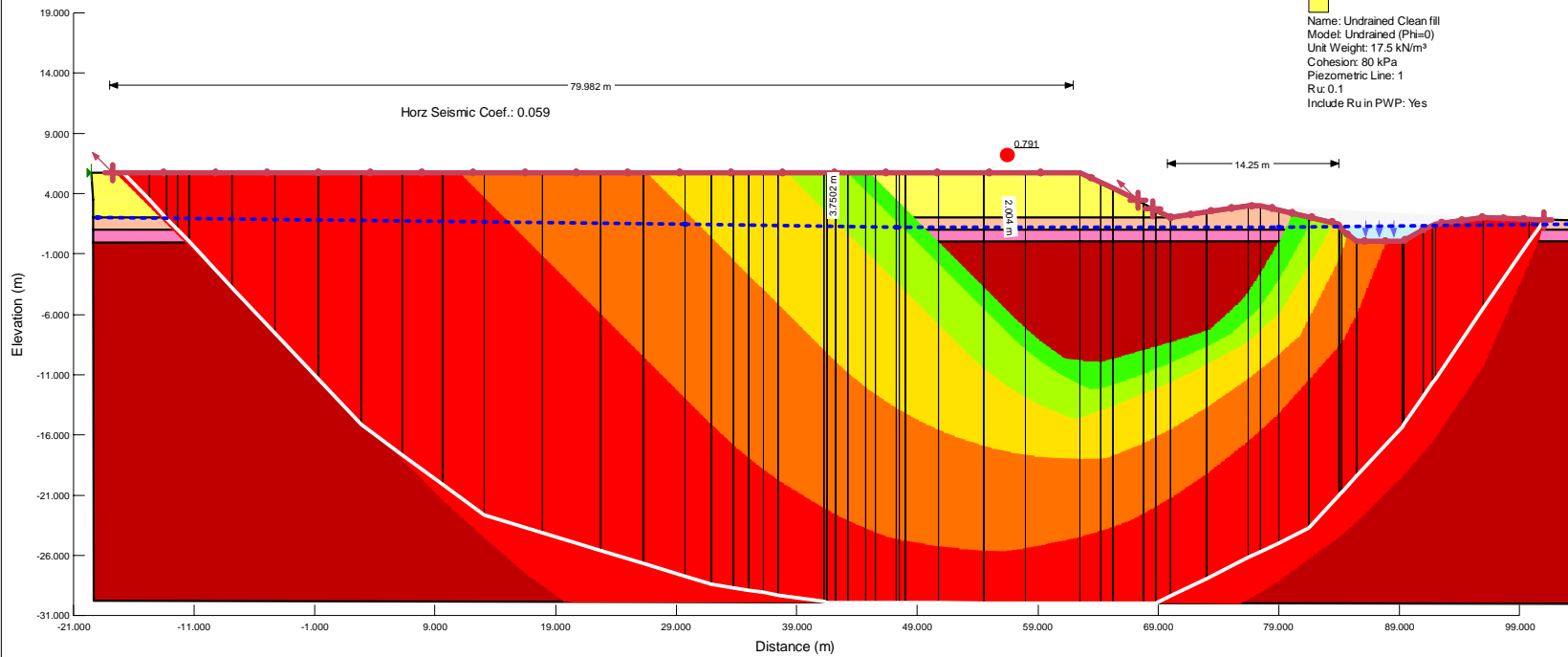
Project: Envirofert Cleanfill
 Location: [section]
 Analysis Case:

High GW case

Analysed by: JDFS
 Checked by: YFT
 Job Number: 1003199
 Date: 15/10/2018
 Time: 08:23:35 p.m.
 Figure:1.0

Analysis Notes:
 1. Name: 1.2 Seismic undrained
 2. Method: Spencer
 3. Direction of movement: Left to Right
 4. Slip Surface Option: Entry and Exit
 5. PWP Conditions Source: Piezometric Line with Ru
 6. Optimization: Yes
 7. Tension Crack Option: Tension Crack Line

- Name: undrained Alluvium (crust)
 Model: Undrained (Phi=0)
 Unit Weight: 17.5 kN/m³
 Cohesion: 85 kPa
 Piezometric Line: 1
 Include Ru in PWP: No
- Name: undrained Alluvium (moderate)
 Model: Undrained (Phi=0)
 Unit Weight: 17.5 kN/m³
 Cohesion: 47 kPa
 Piezometric Line: 1
 Include Ru in PWP: No
- Name: undrained Alluvium (soft)
 Model: Undrained (Phi=0)
 Unit Weight: 17.5 kN/m³
 Cohesion: 18 kPa
 Piezometric Line: 1
 Include Ru in PWP: No
- Name: Undrained Clean fill
 Model: Undrained (Phi=0)
 Unit Weight: 17.5 kN/m³
 Cohesion: 80 kPa
 Piezometric Line: 1
 Ru: 0.1
 Include Ru in PWP: Yes



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 CLEANFILL AREA

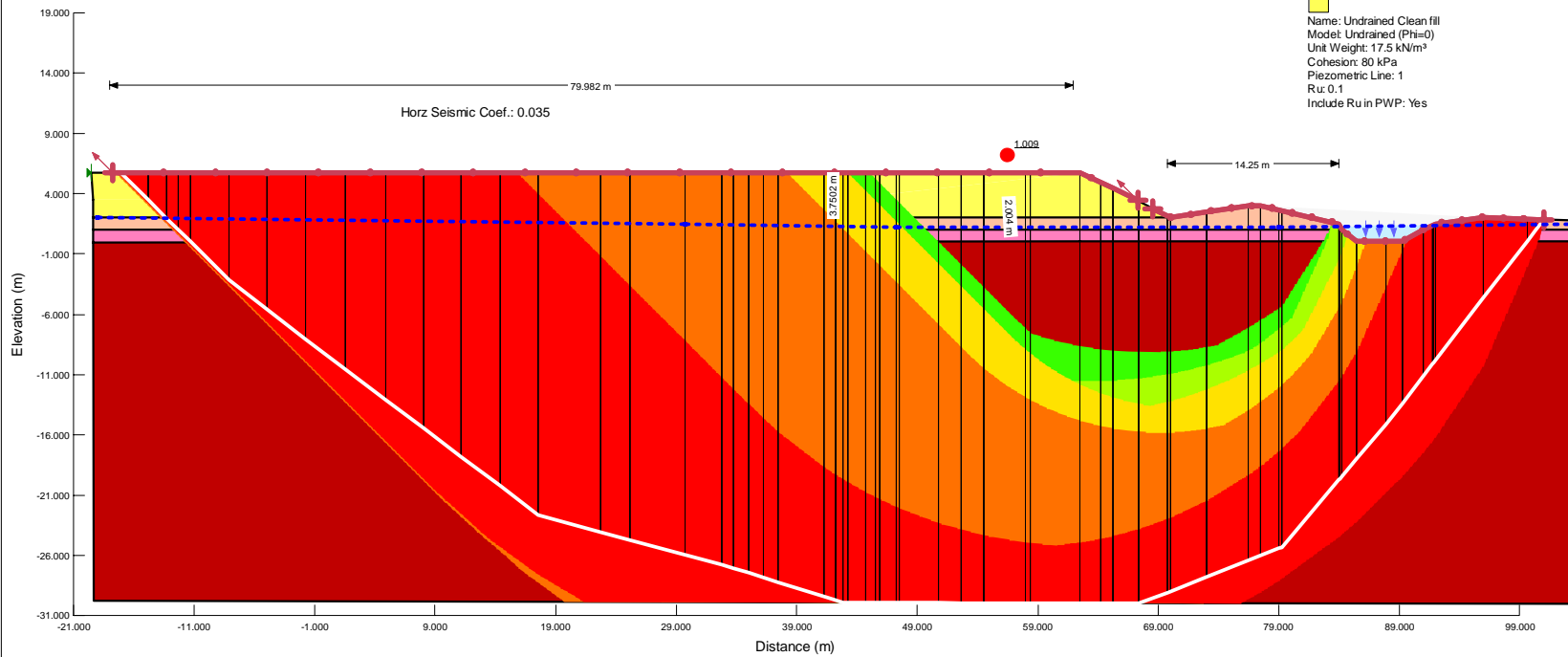
Project: Envirofert Cleanfill
 Location: [section]
 Analysis Case:

Seismic case

Analysed by: JDFS
 Checked by: YFT
 Job Number: 1 1003199
 Date: 15/10/2018
 Time: 08:23:35 p.m.
 Figure:1.0

Analysis Notes:
 1. Name: 1.3 Seismic undrained FOS 1.0
 2. Method: Spencer
 3. Direction of movement: Left to Right
 4. Slip Surface Option: Entry and Exit
 5. PWP Conditions Source: Piezometric Line with Ru
 6. Optimization: Yes
 7. Tension Crack Option: Tension Crack Line

- Name: undrained Alluvium (crust)
 Model: Undrained (Phi=0)
 Unit Weight: 17.5 kN/m³
 Cohesion: 85 kPa
 Piezometric Line: 1
 Include Ru in PWP: No
- Name: undrained Alluvium (moderate)
 Model: Undrained (Phi=0)
 Unit Weight: 17.5 kN/m³
 Cohesion: 47 kPa
 Piezometric Line: 1
 Include Ru in PWP: No
- Name: undrained Alluvium (soft)
 Model: Undrained (Phi=0)
 Unit Weight: 17.5 kN/m³
 Cohesion: 18 kPa
 Piezometric Line: 1
 Include Ru in PWP: No
- Name: Undrained Clean fill
 Model: Undrained (Phi=0)
 Unit Weight: 17.5 kN/m³
 Cohesion: 80 kPa
 Piezometric Line: 1
 Ru: 0.1
 Include Ru in PWP: Yes



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ENVIROERT
 CLEANFILL AREA

Project: Envirofert Cleanfill
 Location: [section]
 Analysis Case:

Seismic case (FOS of 1)

Analysed by: JDFS
 Checked by: YFT
 Job Number: 1003199
 Date: 15/10/2018
 Time: 08:23:35 p.m.
 Figure:1.0

