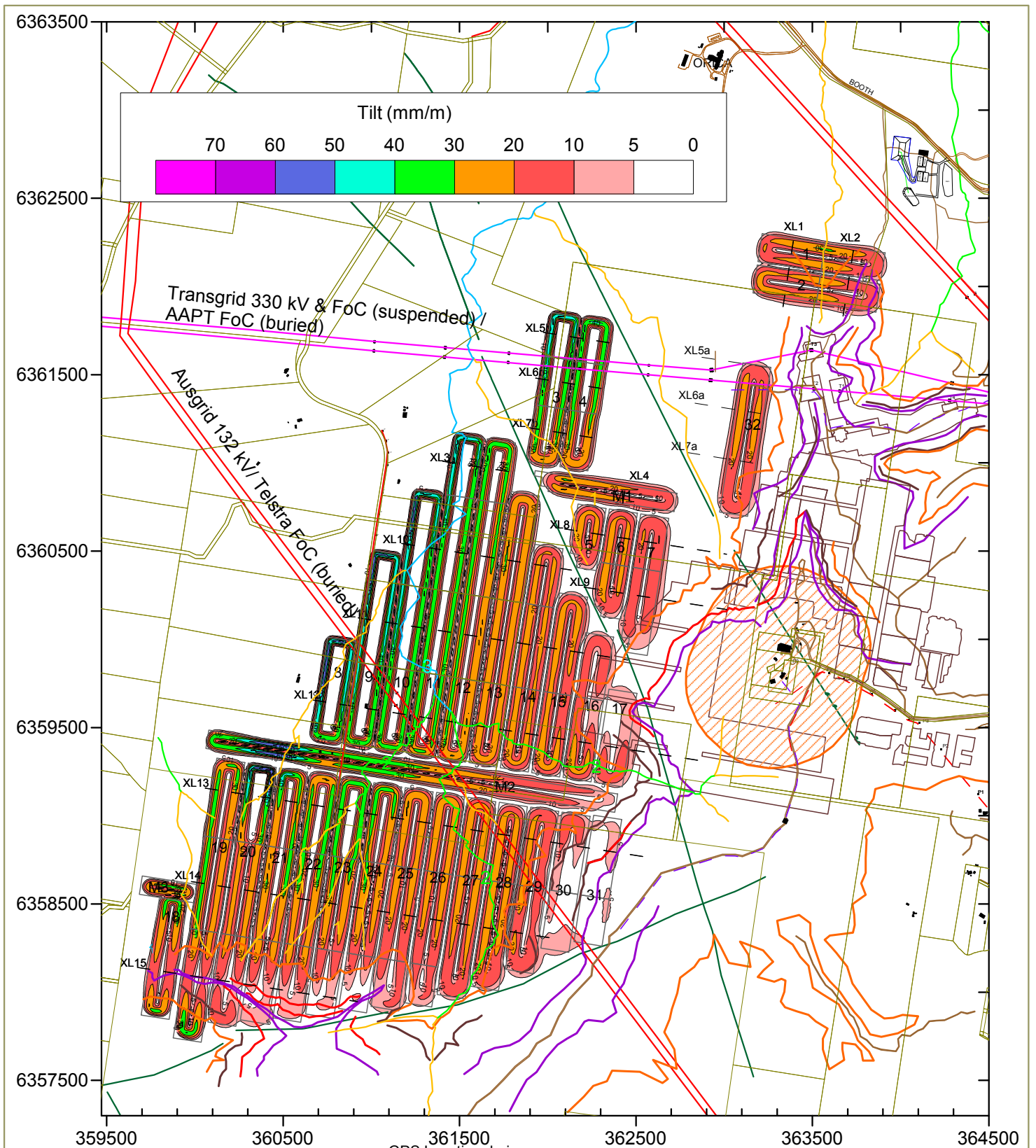


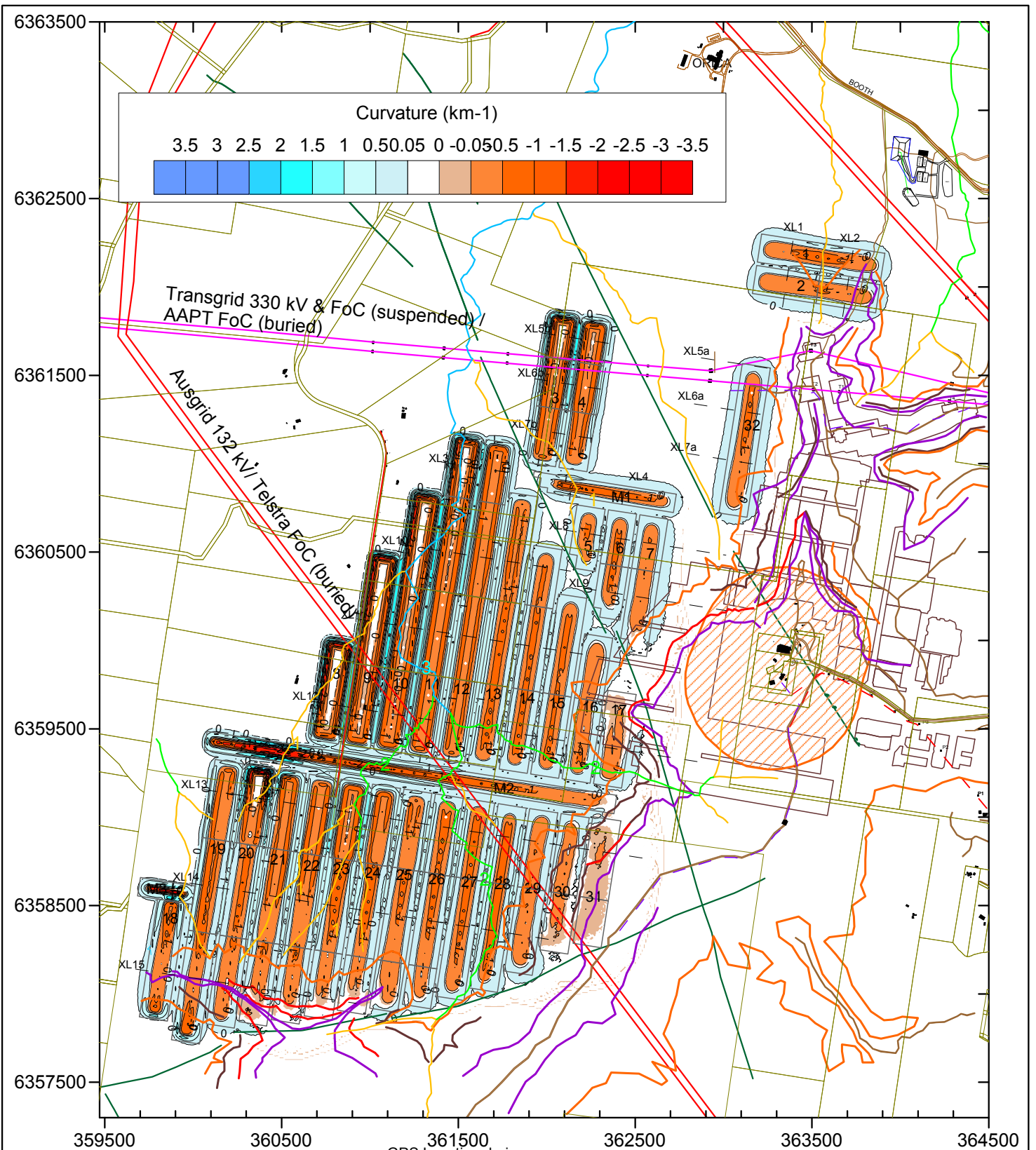
Key:		GPS Location during Site Inspection	Ausgrid 132 kV Easement
Subsidence Contours (m)	Crest of Steep Slope (>26o)	Buildings	Proposed Workings in WBH Seam
Water Courses (in Stream Order)	Toe of Steep Slopes (>26o)	11 kV Ausgrid	Tasman Mine Workings in FAS Seam
Geological Structure	Cliff > 20 m High	Fibre Optic Cable	
Cadastral Boundaries	Minor cliff (10-20 m High)	Public Access Roads	
XL1 - Prediction Cross Lines	Transgrid 330 kV Easement	WBH Mining Exclusion Zone	

	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project
	Drawn:	S.Ditton		TAS-005/1
	Date:	04.12.11	Title:	Predicted U95%CL Subsidence Contours for the Proposed Pillar Extraction Panels without Subsidence Control Zones
Ditton Geotechnical Services Pty Ltd		Scale:	1:30,000 (A4)	Figure No: 30a



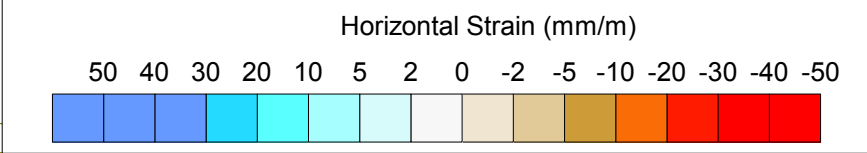
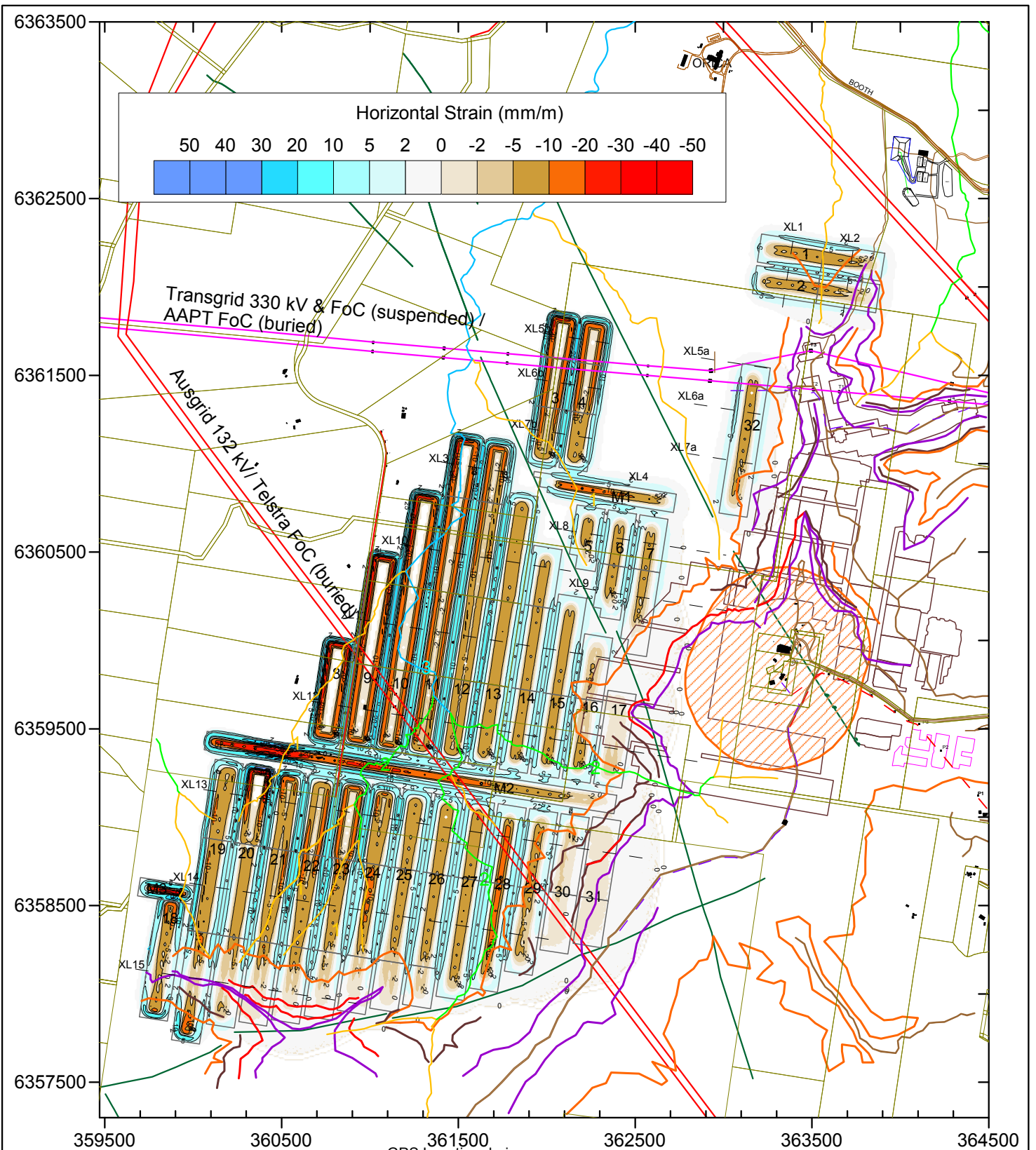
- Key:**
- Tilt Contours (mm/m)
 - Water Courses (in Stream Order)
 - Geological Structure
 - Cadastral Boundaries
 - GPS Location during Site Inspection
 - Crest of Steep Slope (>26o)
 - Toe of Steep Slopes (>26o)
 - Cliff > 20 m High
 - Minor cliff (10-20 m High)
 - Transgrid 330 kV Easement
 - Ausgrid 132 kV Easement
 - Buildings
 - 11 kV Ausgrid
 - Fibre Optic Cable
 - Public Access Roads
 - WBH Mining Exclusion Zone
 - Proposed Workings in WBH Seam
 - Tasman Mine Workings in FAS Seam
- XL1 - - Prediction Cross Lines

DgS	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project	
	Drawn:	S.Ditton		TAS-005/1	
	Date:	04.12.11	Title:	Predicted Tilt Contours for the Proposed Pillar Extraction Panels without Subsidence Control Zones	
Ditton Geotechnical Services Pty Ltd			Scale:	1:30,000 (A4)	Figure No: 30b



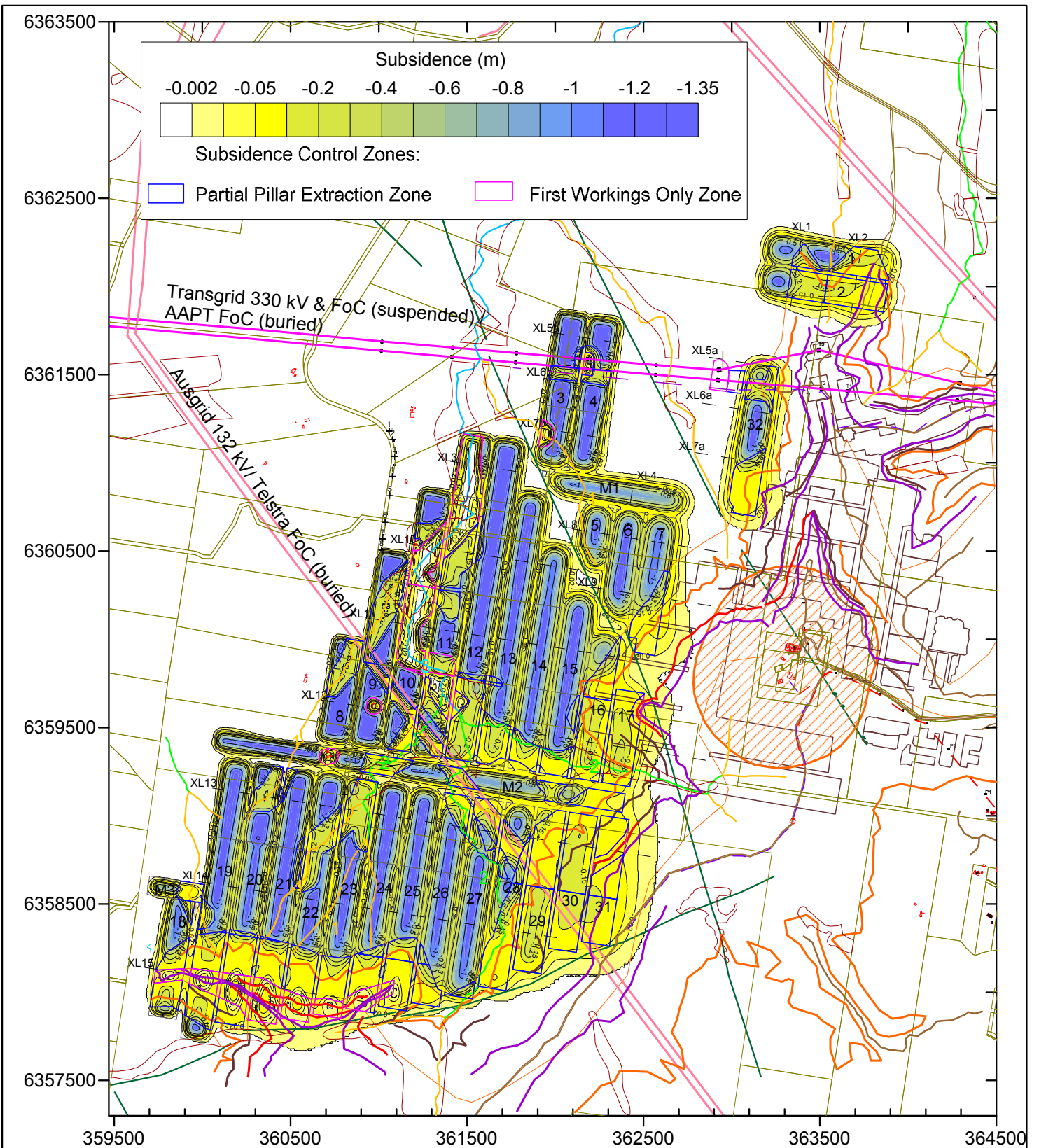
- Key:
- Curvature Contours (1/km)
 - Water Courses (in Stream Order)
 - Geological Structure
 - Cadastral Boundaries
 - XL1— - Prediction Cross Lines
 - GPS Location during Site Inspection
 - Crest of Steep Slope (>26°)
 - Toe of Steep Slopes (>26°)
 - Cliff > 20 m High
 - Minor cliff (10-20 m High)
 - Transgrid 330 kV Easement
 - Ausgrid 132 kV Easement
 - Buildings
 - 11 kV Ausgrid
 - Fibre Optic Cable
 - Public Access Roads
 - Proposed Workings in WBH Seam
 - Tasman Mine Workings in FAS Seam
 - WBH Mining Exclusion Zone

	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project	
	Drawn:	S.Ditton		TAS-005/1	
	Date:	04.12.11	Title:	Predicted Curvature Contours for the Proposed Pillar Extraction Panels without Subsidence Control Zones	
	Ditton Geotechnical Services Pty Ltd		Scale:	1:30,000 (A4)	Figure No:



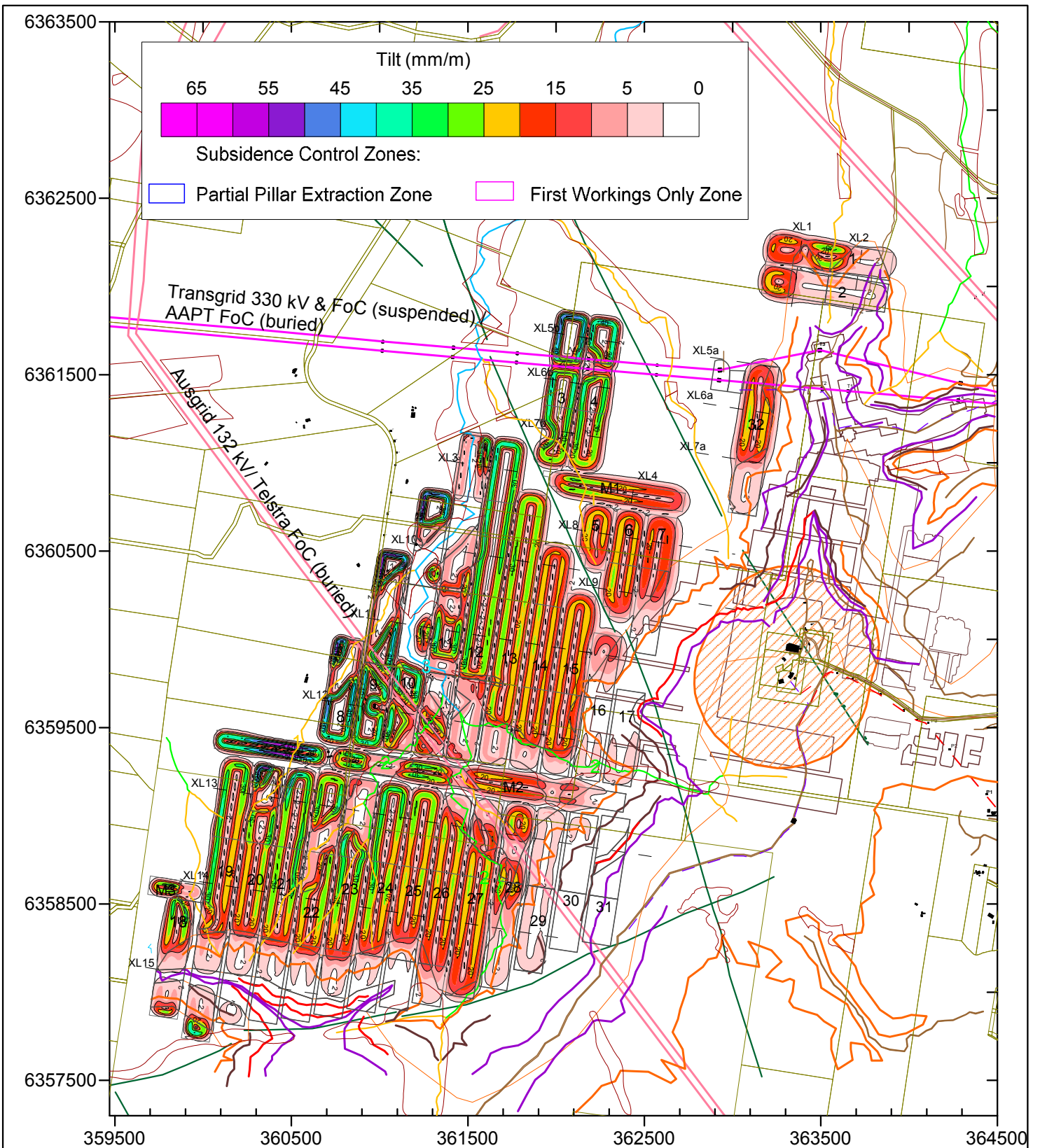
- Key:
- Strain Contours (mm/m)
 - Water Courses (in Stream Order)
 - Geological Structure
 - Cadastral Boundaries
 - XL1— - Prediction Cross Lines
 - GPS Location during Site Inspection
 - Crest of Steep Slope (>26o)
 - Toe of Steep Slopes (>26o)
 - Cliff > 20 m High
 - Minor cliff (10-20 m High)
 - Transgrid 330 kV Easement
 - Ausgrid 132 kV Easement
 - 11 kV Ausgrid
 - Fibre Optic Cable
 - Public Access Roads
 - Buildings
 - Proposed Workings in WBH Seam
 - Tasman Mine Workings in FAS Seam
 - WBH Mining Exclusion Zone

	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project	
	Drawn:	S.Ditton		TAS-005/1	
	Date:	04.12.11	Title:	Predicted Horizontal Strain Contours for the Proposed Pillar Extraction Panels without Subsidence Control Zones	
	Ditton Geotechnical Services Pty Ltd		Scale:	1:30,000 (A4)	Figure No:



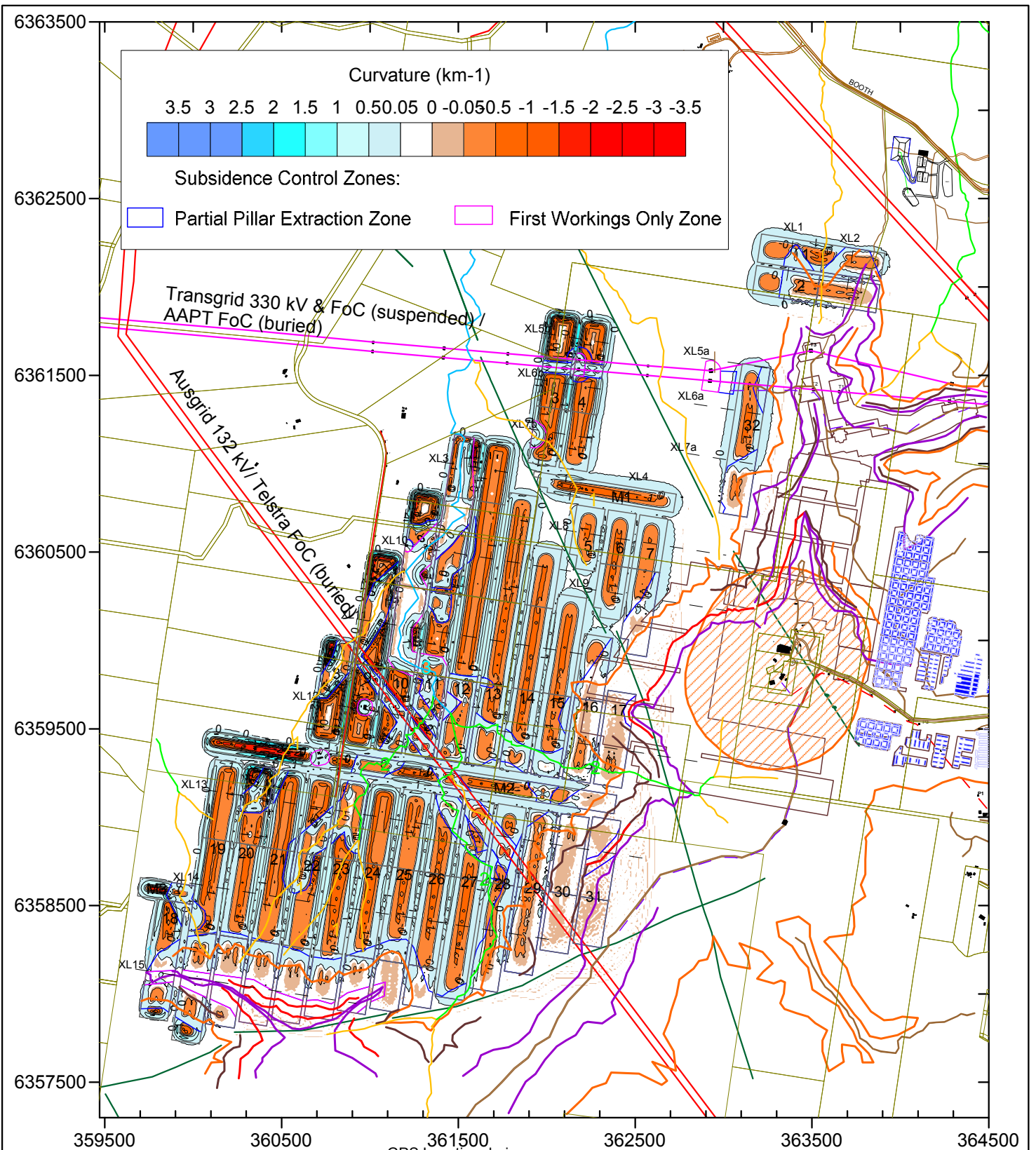
- Key:
- Cliffs > 20 m
 - Minor Cliffs < 20 m
 - Buildings
 - Proposed Workings in WBH Seam
 - Subsidence Contours (m)
 - Toe of Steep Slopes (>26°)
 - 11 kV Ausgrid
 - Tasman Mine Workings in FAS Seam
 - Water Courses (in Stream Order)
 - Crest of Steep Slopes (>26°)
 - Fibre Optic Cable
 - Geological Structure
 - Transgrid 330 kV Towers/Easement
 - Public Access Roads
 - Cadastral Boundaries
 - Ausgrid 132 kV Easement
 - Mining Exclusion Zone
 - XL1 — Prediction Cross Lines

DgS	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project	
	Drawn:	S.Ditton		TAS-005/1	
	Date:	04.08.11	Title:	Predicted U95%CL Subsidence Contours for the Proposed Pillar Extraction Panels with Subsidence Control Zones	
	Ditton Geotechnical Services Pty Ltd		Scale:	1:30,000 (A4)	Figure No:



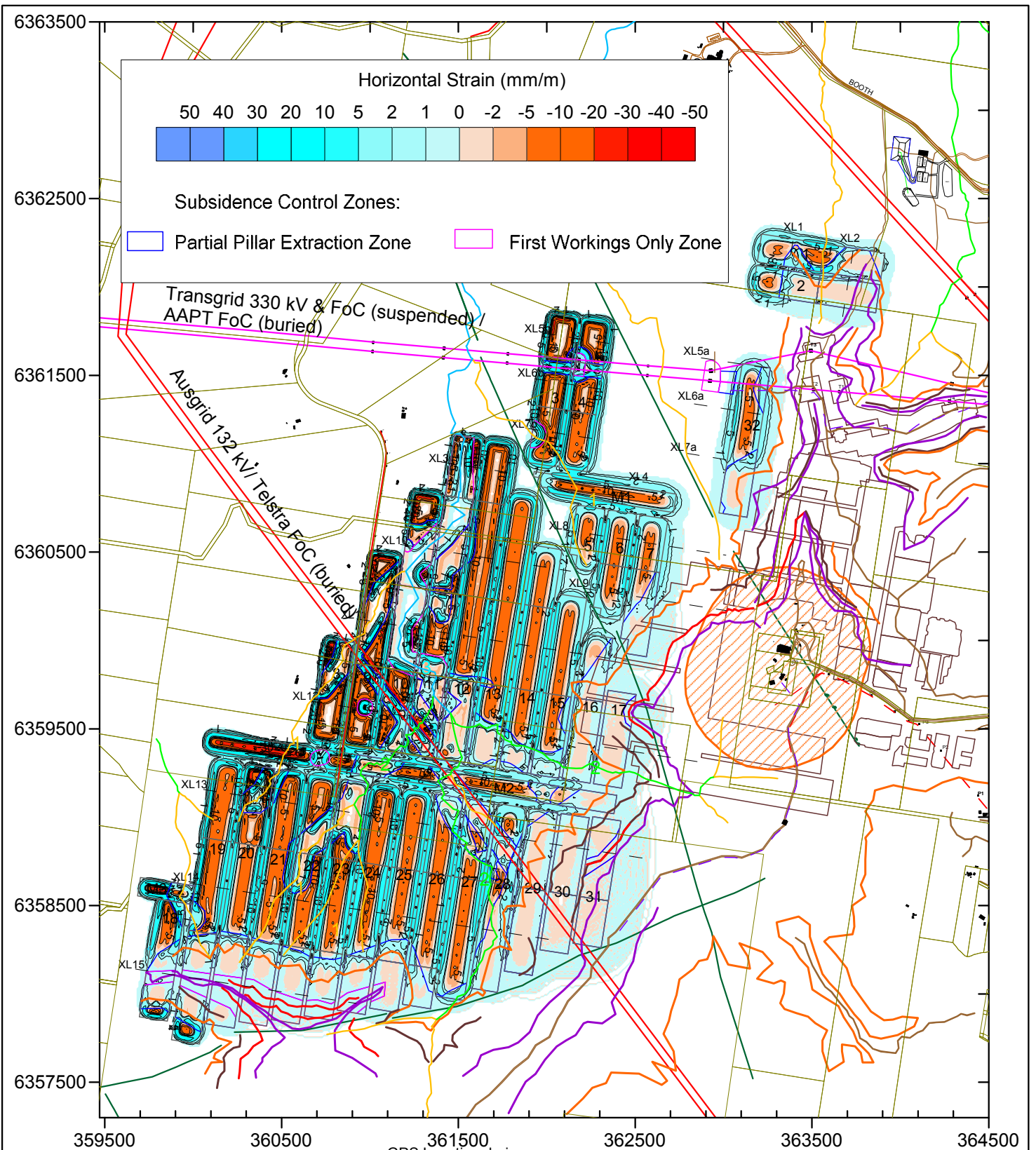
- Key:
- Cliffs > 20 m
 - Minor Cliffs < 20 m
 - Buildings
 - Proposed Workings in WBH Seam
 - Tilt Contours (mm/m)
 - Toe of Steep Slopes (>26°)
 - 11 kV Ausgrid
 - Tasman Mine Workings in FAS Seam
 - Water Courses (in Stream Order)
 - Crest of Steep Slopes (>26°)
 - Fibre Optic Cable
 - Geological Structure
 - Cadastral Boundaries
 - Transgrid 330 kV Towers/Easement
 - Public Access Roads
 - Ausgrid 132 kV Easement
 - Mining Exclusion Zone
- XL1 — Prediction Cross Lines

	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project	
	Drawn:	S.Ditton		TAS-005/1	
	Date:	04.08.11	Title:	Predicted Tilt Contours for the Proposed Pillar Extraction Panels with Subsidence Control Zones	
	Ditton Geotechnical Services Pty Ltd		Scale:	1:30,000 (A4)	Figure No:



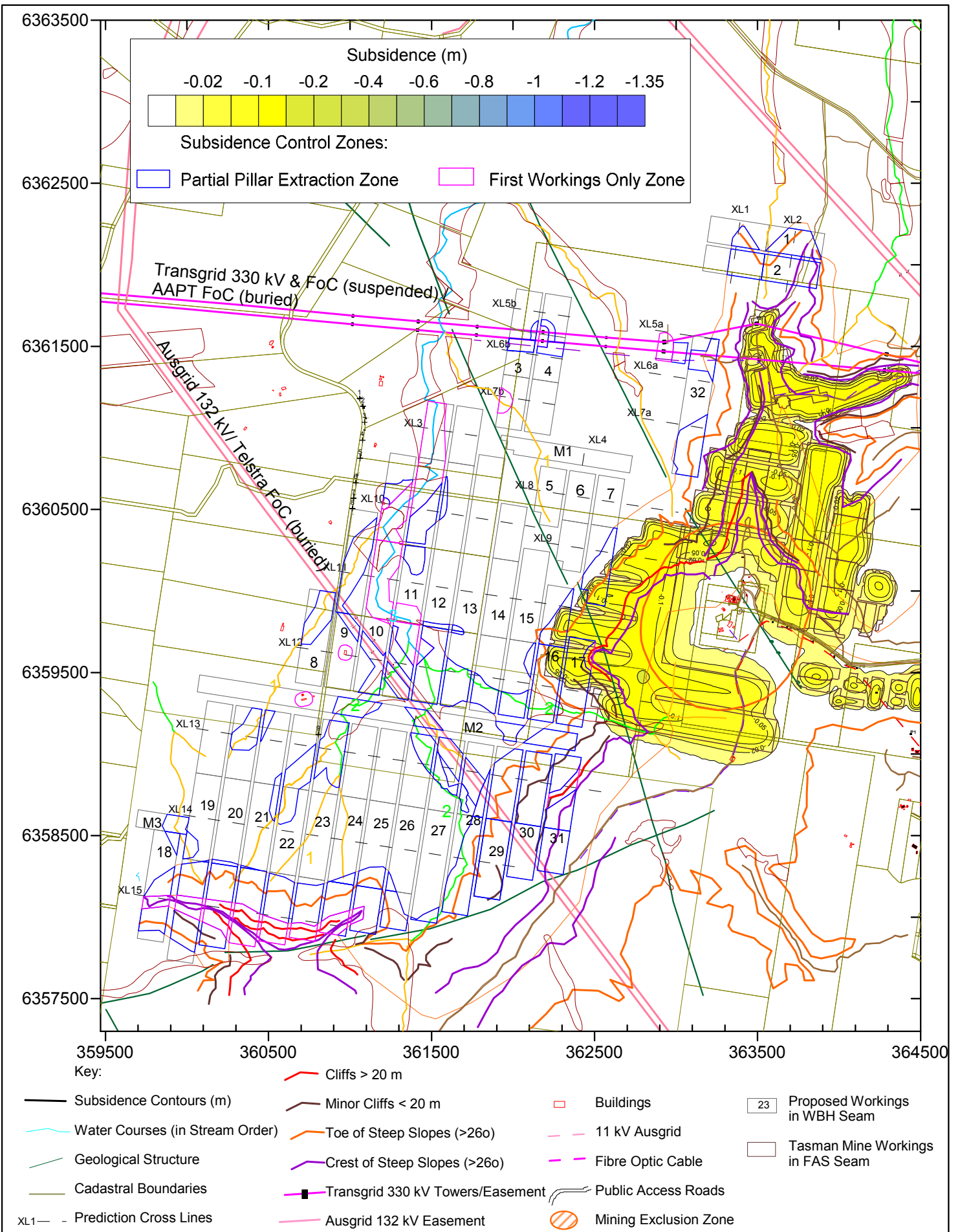
- Key:
- Curvature Contours (1/km)
 - Water Courses (in Stream Order)
 - Geological Structure
 - Cadastral Boundaries
 - XL1 - Prediction Cross Lines
 - GPS Location during Site Inspection
 - Crest of Steep Slope (>26°)
 - Toe of Steep Slopes (>26°)
 - Cliff > 20 m High
 - Minor cliff (10-20 m High)
 - Transgrid 330 kV Easement
 - Ausgrid 132 kV Easement
 - 11 kV Ausgrid
 - Fibre Optic Cable
 - Public Access Roads
 - Buildings
 - Proposed Workings in WBH Seam
 - Tasman Mine Workings in FAS Seam
 - WBH Mining Exclusion Zone


DgS	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project	
	Drawn:	S.Ditton		TAS-005/1	
	Date:	04.12.11	Title:	Predicted Curvature Contours for the Proposed Pillar Extraction Panels with Subsidence Control Zones	
Ditton Geotechnical Services Pty Ltd			Scale:	1:30,000 (A4)	Figure No: 31c

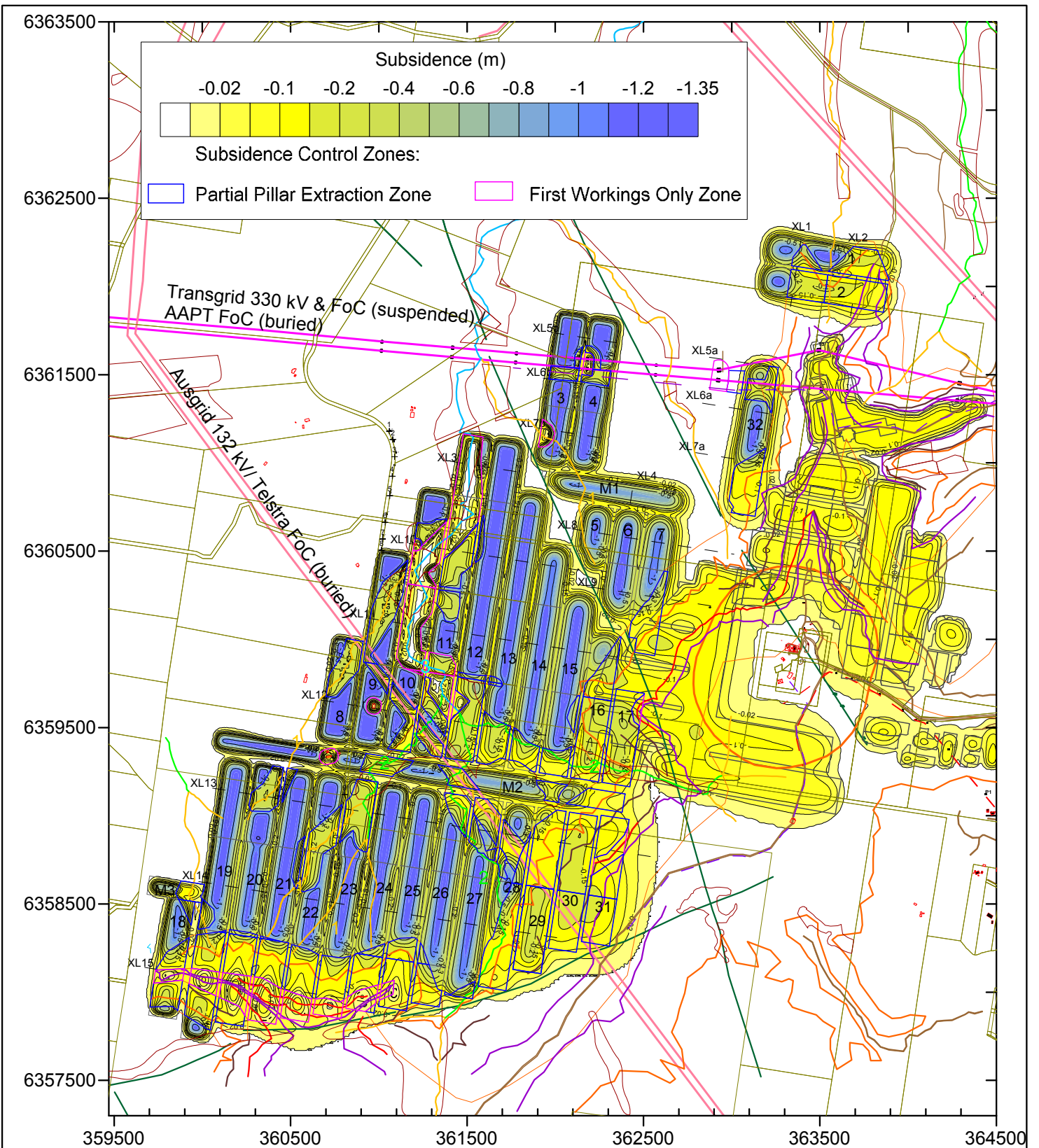


- Key:
- Strain Contours (mm/m)
 - Water Courses (in Stream Order)
 - Geological Structure
 - Cadastral Boundaries
 - XL1— Prediction Cross Lines
 - GPS Location during Site Inspection
 - Crest of Steep Slope (>26°)
 - Toe of Steep Slopes (>26°)
 - Cliff > 20 m High
 - Minor cliff (10-20 m High)
 - Transgrid 330 kV Easement
 - Buildings
 - 11 kV Ausgrid
 - Fibre Optic Cable
 - Public Access Roads
 - WBH Mining Exclusion Zone
 - Proposed Workings in WBH Seam
 - Tasman Mine Workings in FAS Seam

DgS	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project	
	Drawn:	S.Ditton		TAS-005/1	
	Date:	04.12.11	Title:	Predicted Horizontal Strain Contours for the Proposed Pillar Extraction Panels with Subsidence Control Zones	
Ditton Geotechnical Services Pty Ltd			Scale:	1:30,000 (A4)	Figure No: 31d

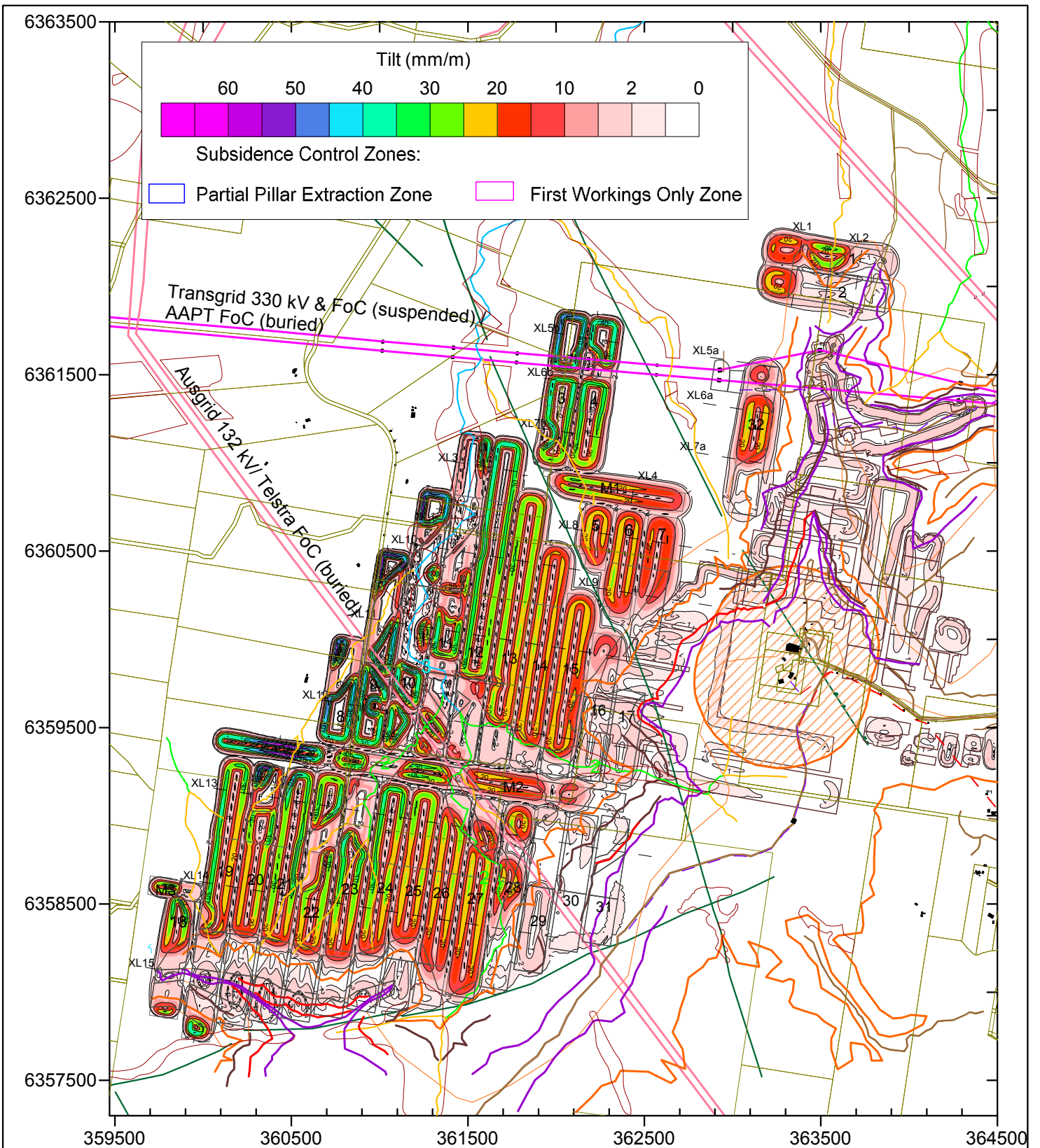


	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project	
	Drawn:	S.Ditton		TAS-005/1	
	Date:	04.08.11	Title:	Predicted U95%CL Subsidence Contours for the Proposed Tasman Mine Partial Pillar Extraction Panels in the Fassifern Seam	
	Ditton Geotechnical Services Pty Ltd		Scale:	1:30,000 (A4)	Figure No:



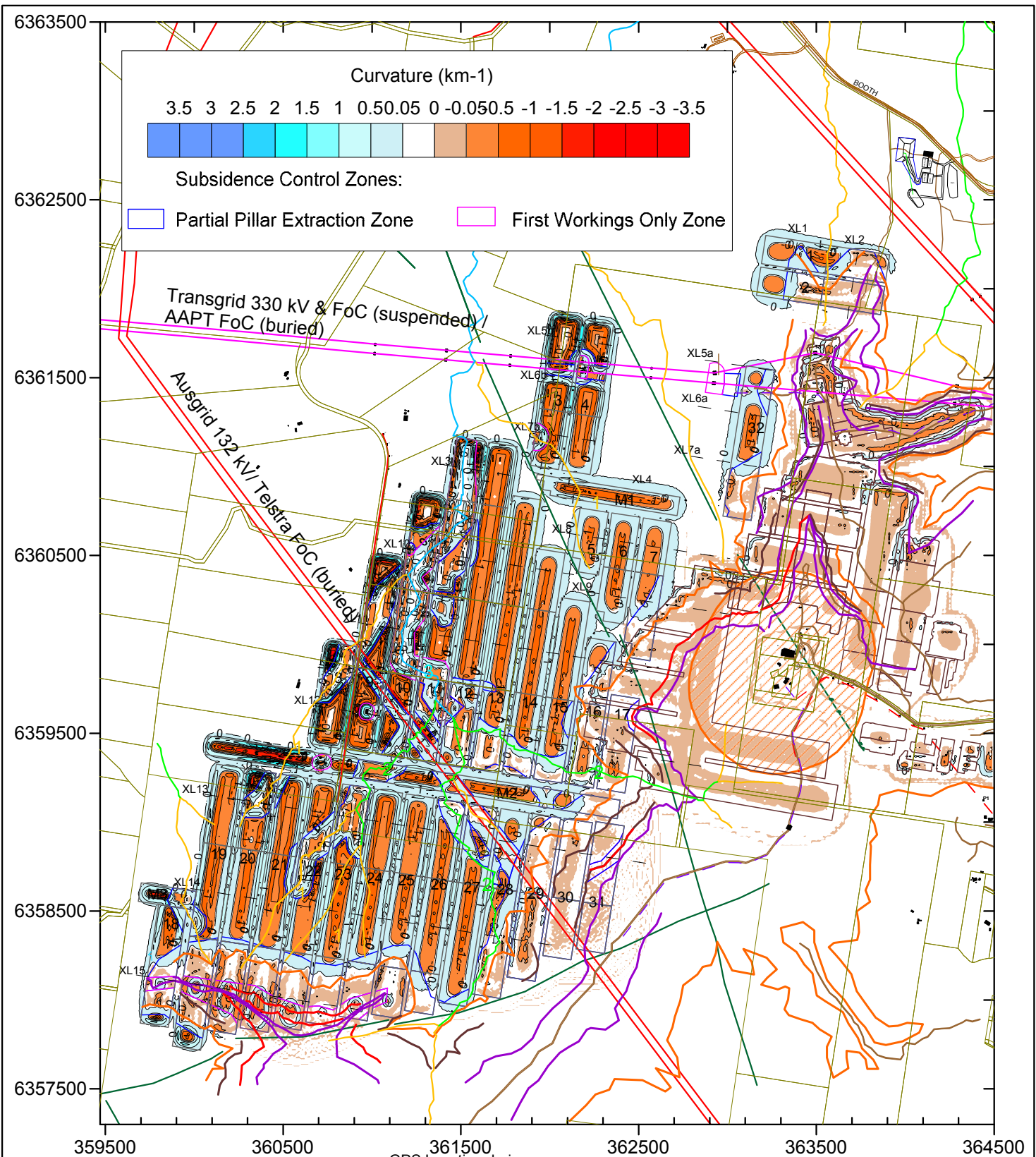
- Key:
- Subsidence Contours (m)
 - Water Courses (in Stream Order)
 - Geological Structure
 - Cadastral Boundaries
 - XL1— - Prediction Cross Lines
 - Cliffs > 20 m
 - Minor Cliffs < 20 m
 - Toe of Steep Slopes (>26°)
 - Crest of Steep Slopes (>26°)
 - Transgrid 330 kV Towers/Easement
 - Ausgrid 132 kV Easement
 - Buildings
 - 11 kV Ausgrid
 - Fibre Optic Cable
 - Public Access Roads
 - Mining Exclusion Zone
 - 23 Proposed Workings in WBH Seam
 - Tasman Mine Workings in FAS Seam (First & 2nd Workings)

DgS	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project	
	Drawn:	S.Ditton		TAS-005/1	
	Date:	04.08.11	Title:	Predicted Cumulative Subsidence Contours for the Proposed Pillar Extraction Panels with Subsidence Control Zones plus Effect of Tasman Mine Workings in the Fassifern Seam	
	Ditton Geotechnical Services Pty Ltd		Scale:	1:30,000 (A4)	Figure No:



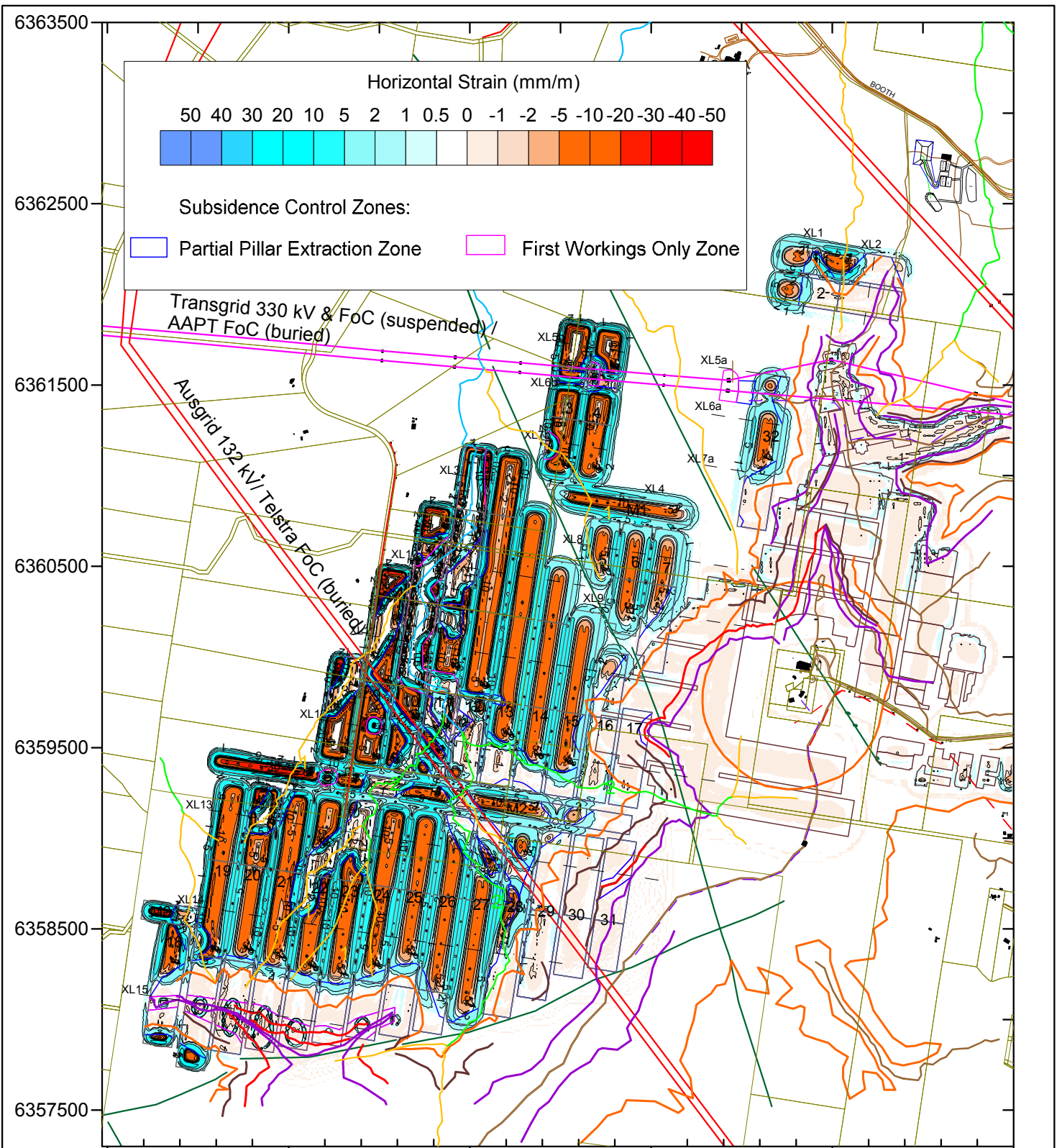
Key:		Cliffs > 20 m	Buildings	Proposed Workings in WBH Seam
Tilt Contours (mm/m)	Minor Cliffs < 20 m	Toe of Steep Slopes (>26o)	11 kV Ausgrid	Tasman Mine Workings in FAS Seam (First & 2nd Workings)
Water Courses (in Stream Order)	Crest of Steep Slopes (>26o)	Fibre Optic Cable	Public Access Roads	
Geological Structure	Transgrid 330 kV Towers/Easement	Ausgrid 132 kV Easement	Mining Exclusion Zone	
Cadastral Boundaries	XL1 - Prediction Cross Lines			

	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project	
	Drawn:	S.Ditton		TAS-005/1	
	Date:	04.08.11	Title:	Predicted Cumulative Tilt Contours for the Proposed Pillar Extraction Panels with Subsidence Control Zones plus Effect of Tasman Mine Workings in the Fassifern Seam	
	Ditton Geotechnical Services Pty Ltd		Scale:	1:30,000 (A4)	Figure No:



- Key:**
- Curvature Contours (1/km)
 - Water Courses (in Stream Order)
 - Geological Structure
 - Cadastral Boundaries
 - XL1— Prediction Cross Lines
 - GPS Location during Site Inspection
 - Crest of Steep Slope (>26°)
 - Toe of Steep Slopes (>26°)
 - Cliff > 20 m High
 - Minor cliff (10-20 m High)
 - Transgrid 330 kV Easement
 - Ausgrid 132 kV Easement
 - 11 kV Ausgrid
 - Fibre Optic Cable
 - Public Access Roads
 - Buildings
 - Proposed Workings in WBH Seam
 - Tasman Mine Workings in FAS Seam
 - WBH Mining Exclusion Zone

DgS	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project	
	Drawn:	S.Ditton		TAS-005/1	
	Date:	04.12.11	Title:	Predicted Cumulative Curvature Contours for the Proposed Pillar Extraction Panels with Subsidence Control Zones plus Effects of Tasman Mine Workings in the Fassifern Seam	
	Ditton Geotechnical Services Pty Ltd		Scale:	1:30,000 (A4)	Figure No:



Horizontal Strain (mm/m)

50 40 30 20 10 5 2 1 0.5 0 -1 -2 -5 -10 -20 -30 -40 -50

Subsidence Control Zones:

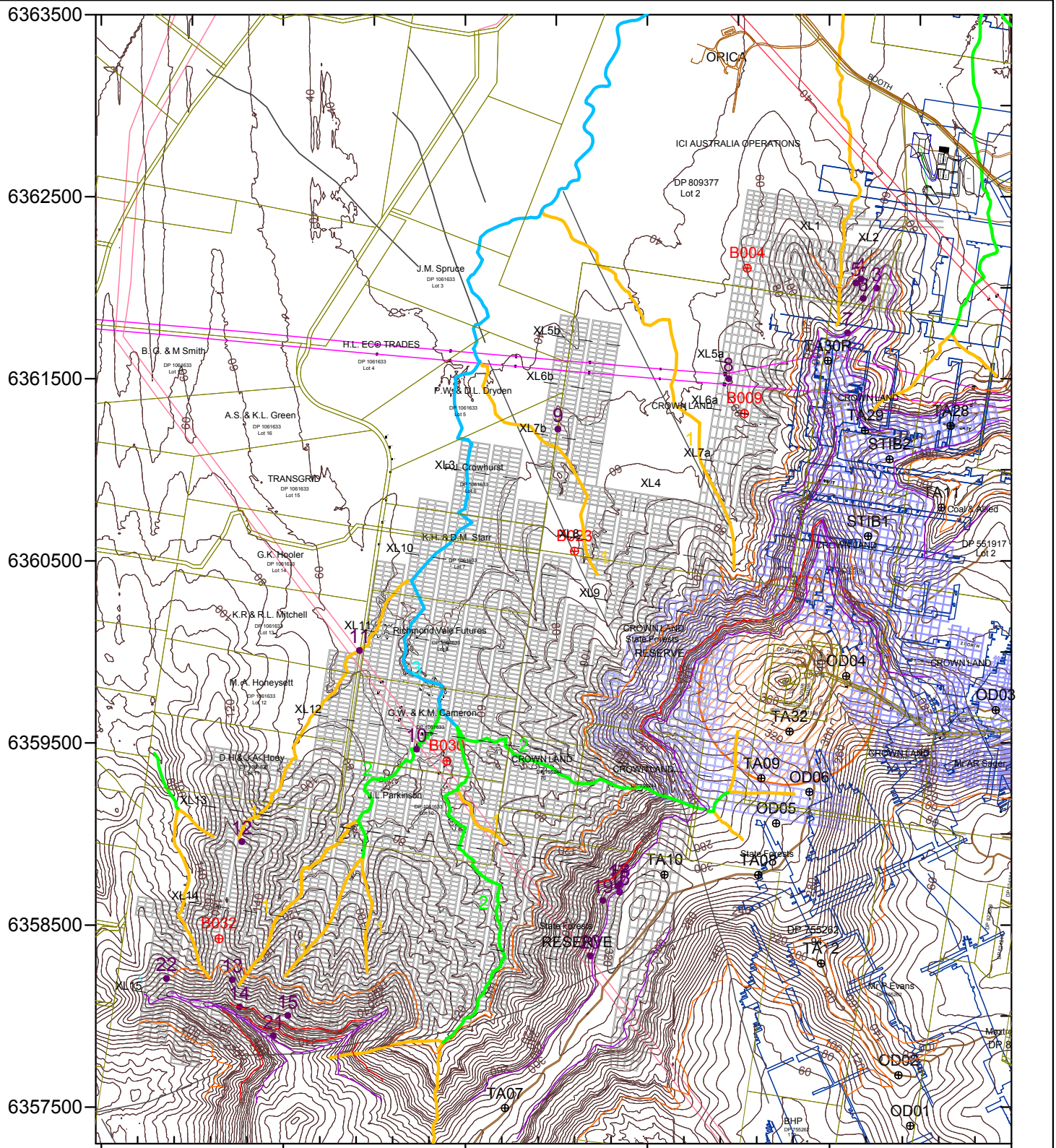
 Partial Pillar Extraction Zone
 First Workings Only Zone

Transgrid 330 kV & FoC (suspended) /
AAPT FoC (buried)

Ausgrid 132 kV / Telstra FoC (buried)

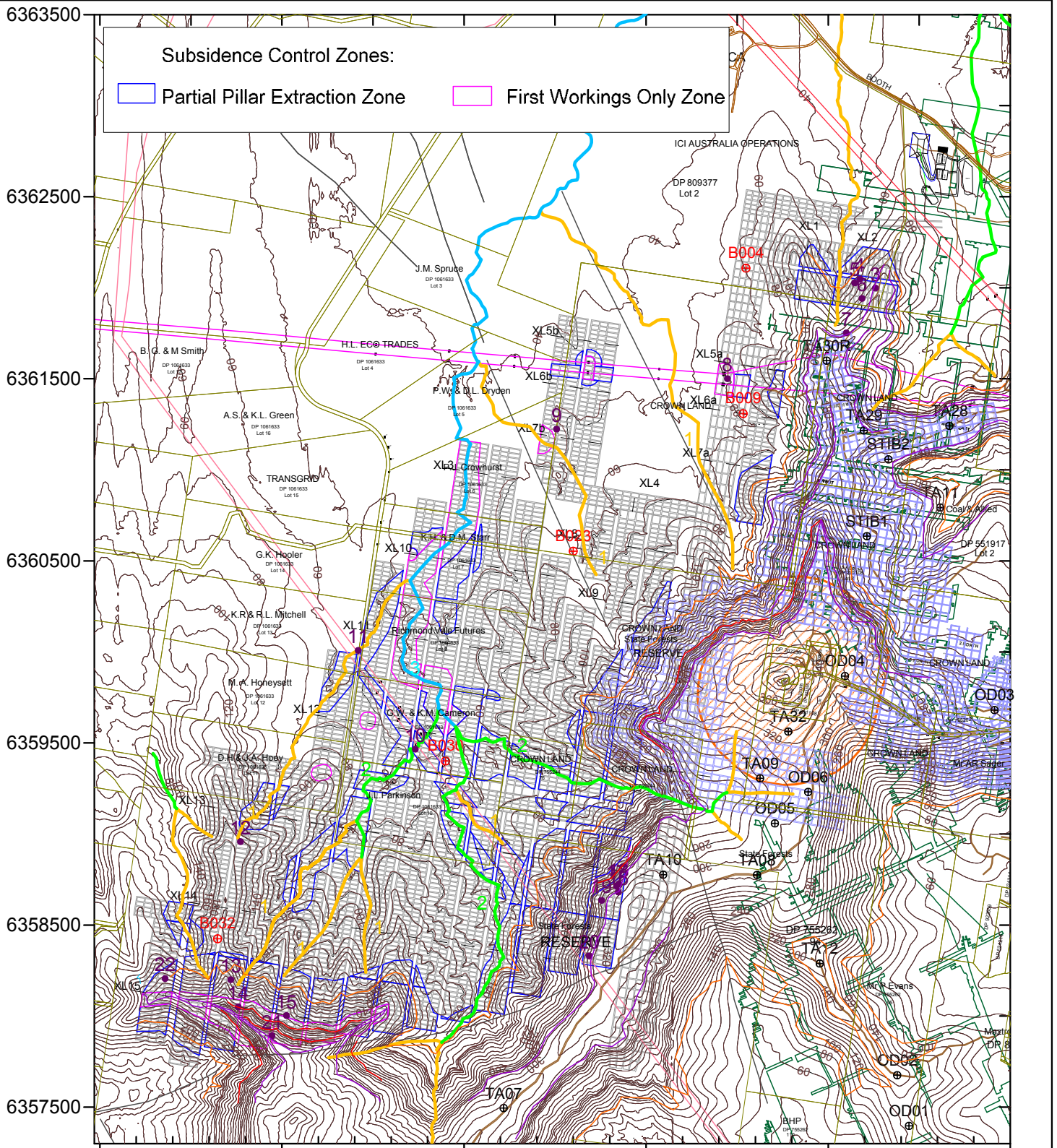
- | | | |
|--|---|--|
| <p>Key:</p> <ul style="list-style-type: none"> Strain Contours (mm/m) Water Courses (in Stream Order) Geological Structure Cadastral Boundaries Prediction Cross Lines | <ul style="list-style-type: none"> ● GPS Location during Site Inspection Crest of Steep Slope (>26°) Toe of Steep Slopes (>26°) Cliff > 20 m High Minor cliff (10-20 m High) Transgrid 330 kV Easement | <ul style="list-style-type: none"> Ausgrid 132 kV Easement Buildings 11 kV Ausgrid Fibre Optic Cable Public Access Roads WBH Mining Exclusion Zone Proposed Workings in WBH Seam Tasman Mine Workings in FAS Seam |
|--|---|--|

DgS	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project	
	Drawn:	S.Ditton		TAS-005/1	
	Date:	04.12.11	Title:	Predicted Cumulative Horizontal Strain Contours for the Proposed Pillar Extraction Panels with Subsidence Control Zones plus Tasman Mine Effects in the Fassifern Seam	
Ditton Geotechnical Services Pty Ltd			Scale:	1:30,000 (A4)	Figure No: 31i



Key:		GPS Location during Site Inspection	Ausgrid 132 kV Easement	Borehole Location
Surface Level Contours - Pre-mining (m)	Surface Level Contours - Post-mining (m)	Crest of Steep Slope (>26°)	Buildings	Proposed Workings in WBH Seam
Water Courses (in Stream Order)	Geological Structure	Toe of Steep Slopes (>26°)	11 kV Ausgrid	Old Workings in WBH Seam
Cadastral Boundaries	Minor cliff (10-20 m High)	Cliff > 20 m High	Fibre Optic Cable	Tasman Mine Workings in FAS Seam (First & 2nd Workings)
XL1 - Prediction Cross Lines	Transgrid 330 kV Easement	Public Access Roads	WBH Mining Exclusion Zone	

	Client:	Donaldson Coal - Tasman Extension Project		
	Drawn:	S.Ditton	TAS-005/1	
	Date:	04.08.11	Title:	Proposed Pillar Extraction Panels with Pre and Post Mining Surface Levels without SCZs
	Ditton Geotechnical Services Pty Ltd		Scale:	1:30,000 (A4)
			Figure No: 32a	

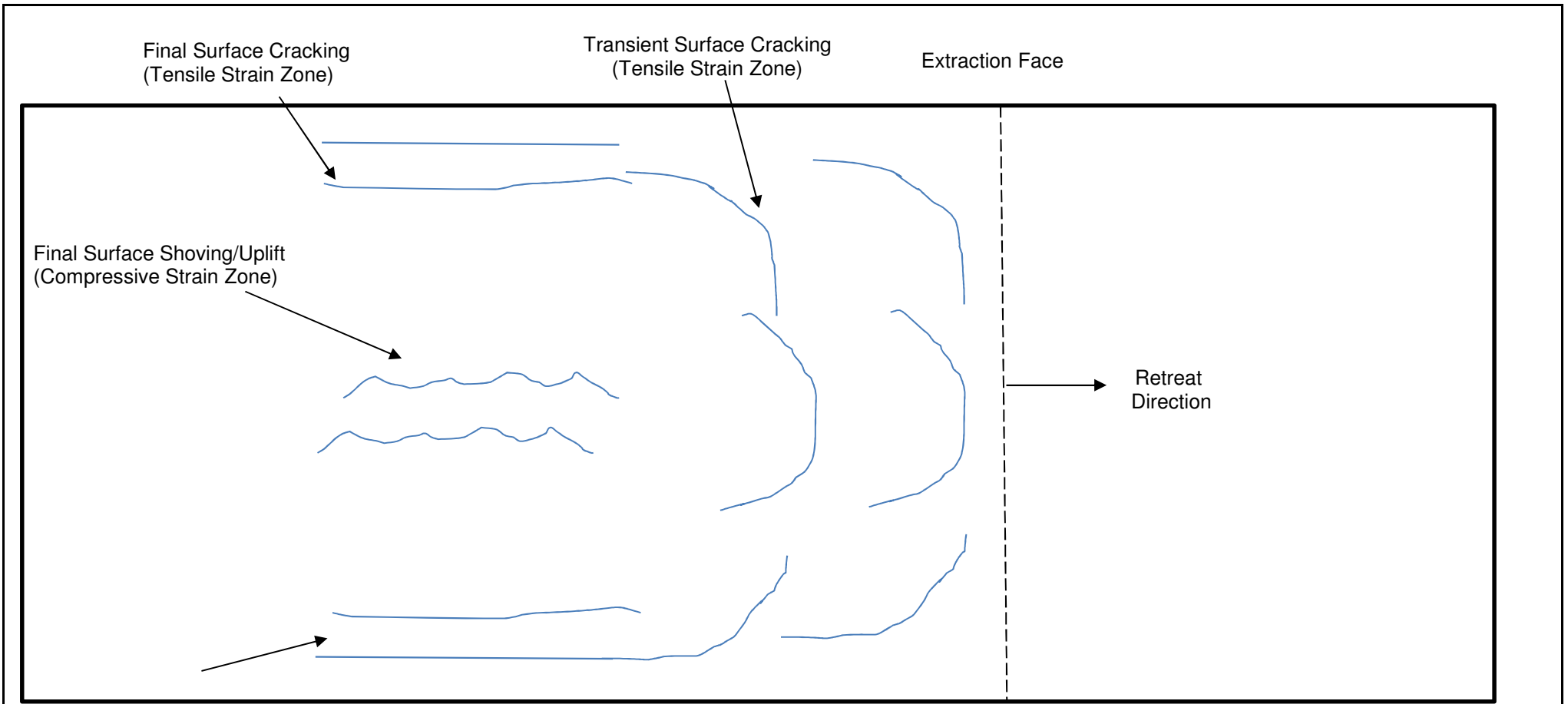


Subsidence Control Zones:


Partial Pillar Extraction Zone
 First Workings Only Zone

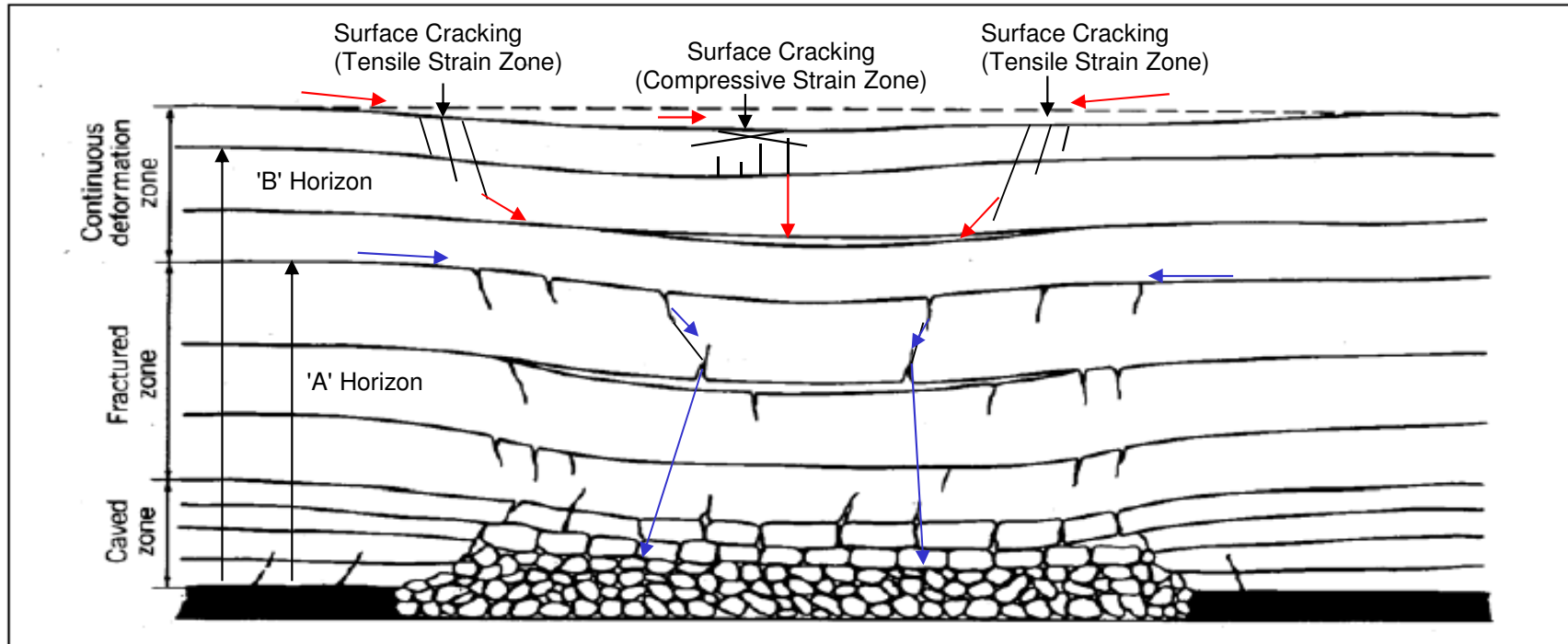
- | | | | |
|-------------|---|---|---|
| Key: | <ul style="list-style-type: none"> Surface Level Contours - Pre-mining (m) Surface Level Contours - Post-mining (m) Water Courses (in Stream Order) Geological Structure Cadastral Boundaries XL1 - - - Prediction Cross Lines | <ul style="list-style-type: none"> ● GPS Location during Site Inspection Crest of Steep Slope (>26°) Toe of Steep Slopes (>26°) Cliff > 20 m High Minor cliff (10-20 m High) Transgrid 330 kV Easement Buildings 11 kV Ausgrid Fibre Optic Cable Public Access Roads WBH Mining Exclusion Zone | <ul style="list-style-type: none"> ⊕ Borehole Location Proposed Workings in WBH Seam Old Workings in WBH Seam Tasman Mine Workings in FAS Seam (First & 2nd Workings) |
|-------------|---|---|---|

DgS	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project	
	Drawn:	S.Ditton	Title:	TAS-005/1	
	Date:	04.08.11	Proposed Pillar Extraction Panels with Pre and Post Mining Surface Levels with SCZs		
	Ditton Geotechnical Services Pty Ltd				



Final Surface Cracking (Tensile Strain Zone)

	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project
	Drawn:	S.Ditton		TAS-005/1
	Date:	14.12.11	Title:	Schematic Model of Surface Fracture Zones Behind a Retreating Extraction Face in a Total Pillar Extraction Panel
	Ditton Geotechnical Services Pty Ltd		Scale:	NTS




Zones in the Overburden According to Peng and Chiang (1984)

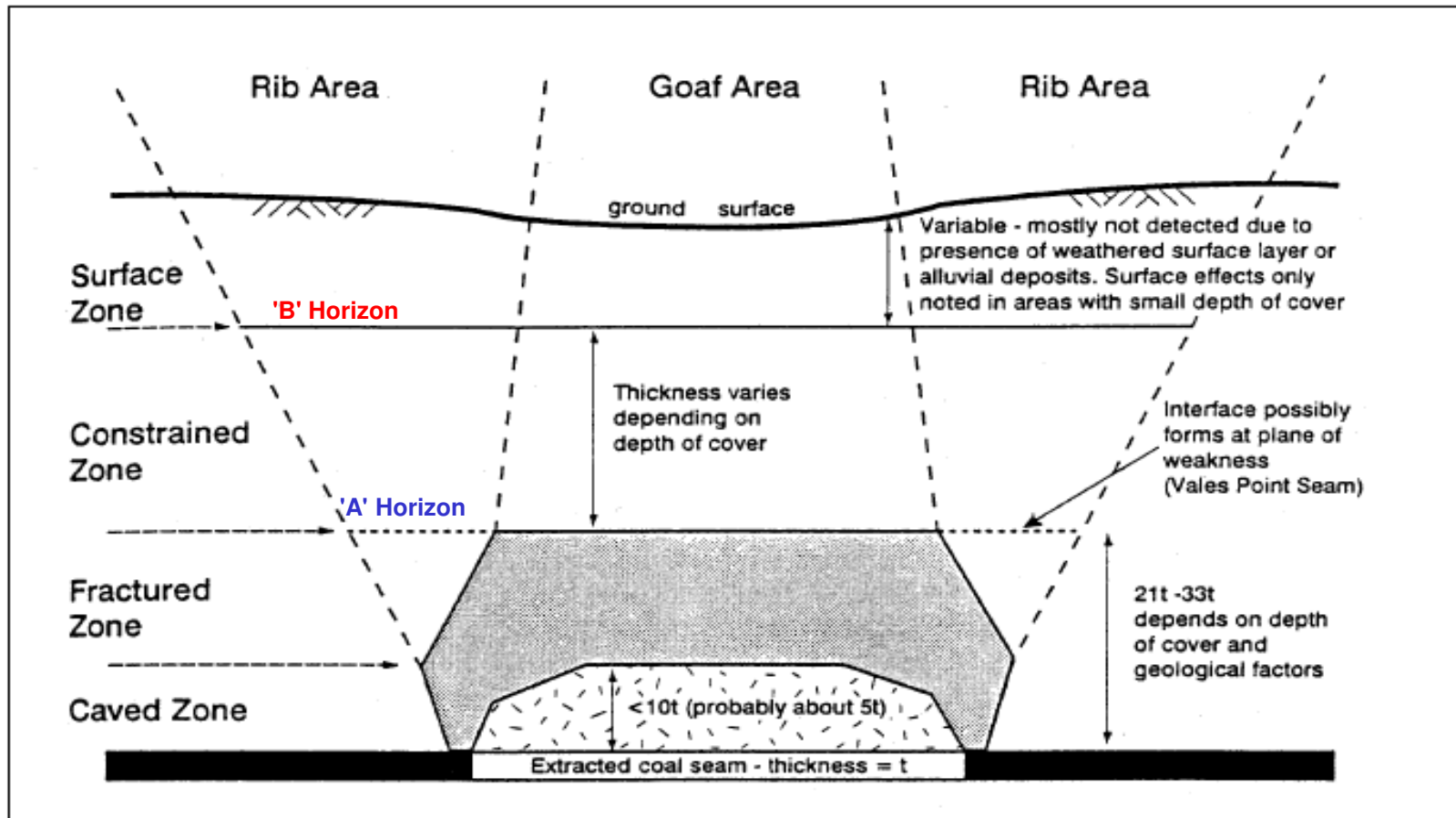
Key

'A' Horizon - Zone of Continuous Crack Connection to Workings (**Whittaker and Reddish, 1989**)


'B' Horizon - Zone Of Discontinuous Crack Connection to Workings (**Whittaker and Reddish, 1989**)

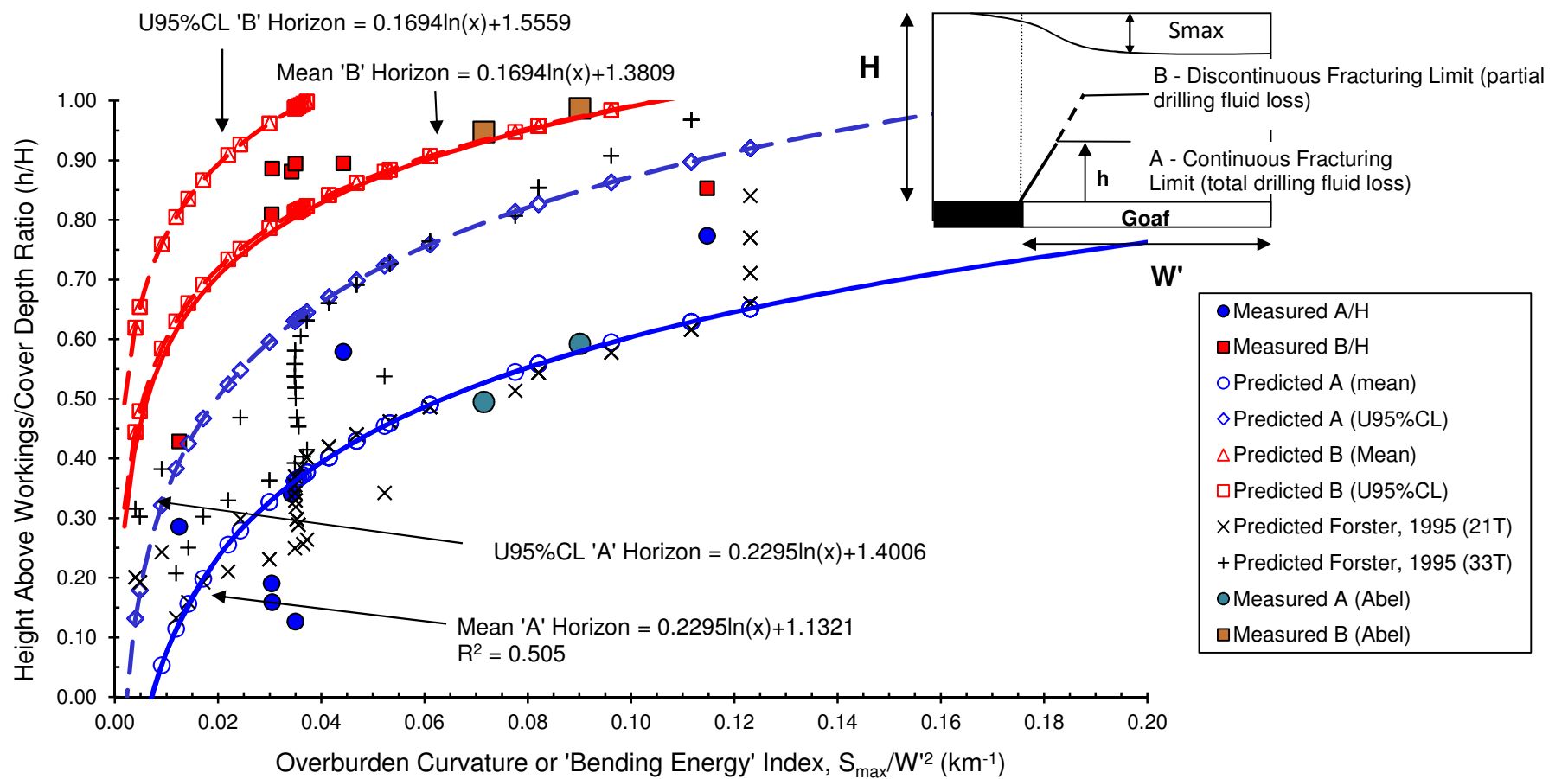
→ Surface water flow path → Sub-surface water flow path

	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project
	Drawn:	S.Ditton		TAS-005/1
	Date:	12.12.11	Title:	Schematic Model of Overburden Fracture Zones Above Longwall or Total Pillar Extraction Panels
	Ditton Geotechnical Services Pty Ltd		Scale:	NTS




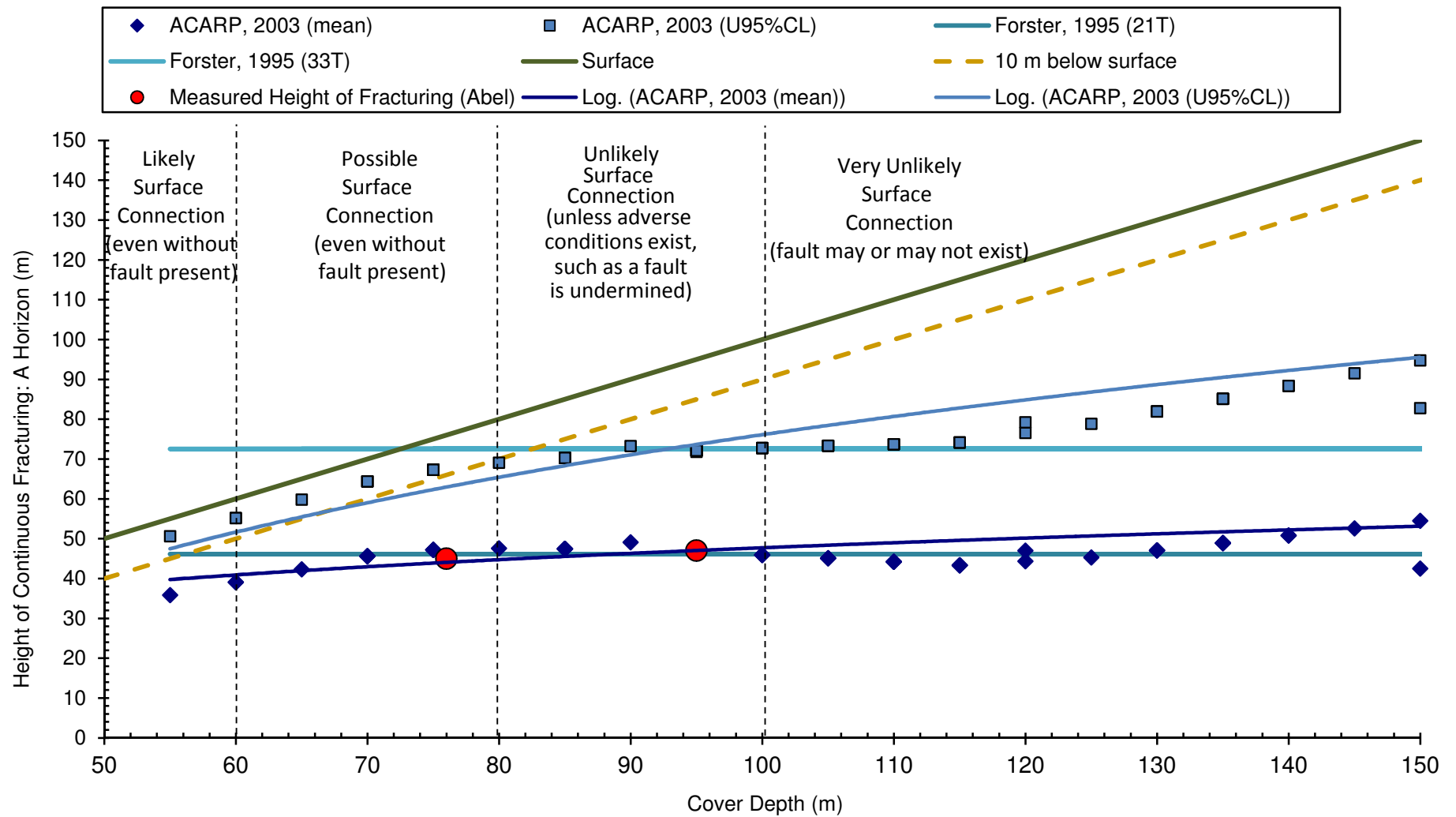
Zones in the Overburden according to Forster (1995)


	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project
	Drawn:	S.Ditton		TAS-005/1
	Date:	12.12.11	Title:	Schematic Model of Overburden Fracture Zones in Forster, 1995 Model (based on Piezometric Data Above High Extraction Panels in the Newcastle Coalfield)
	Ditton Geotechnical Services Pty Ltd		Scale:	NTS

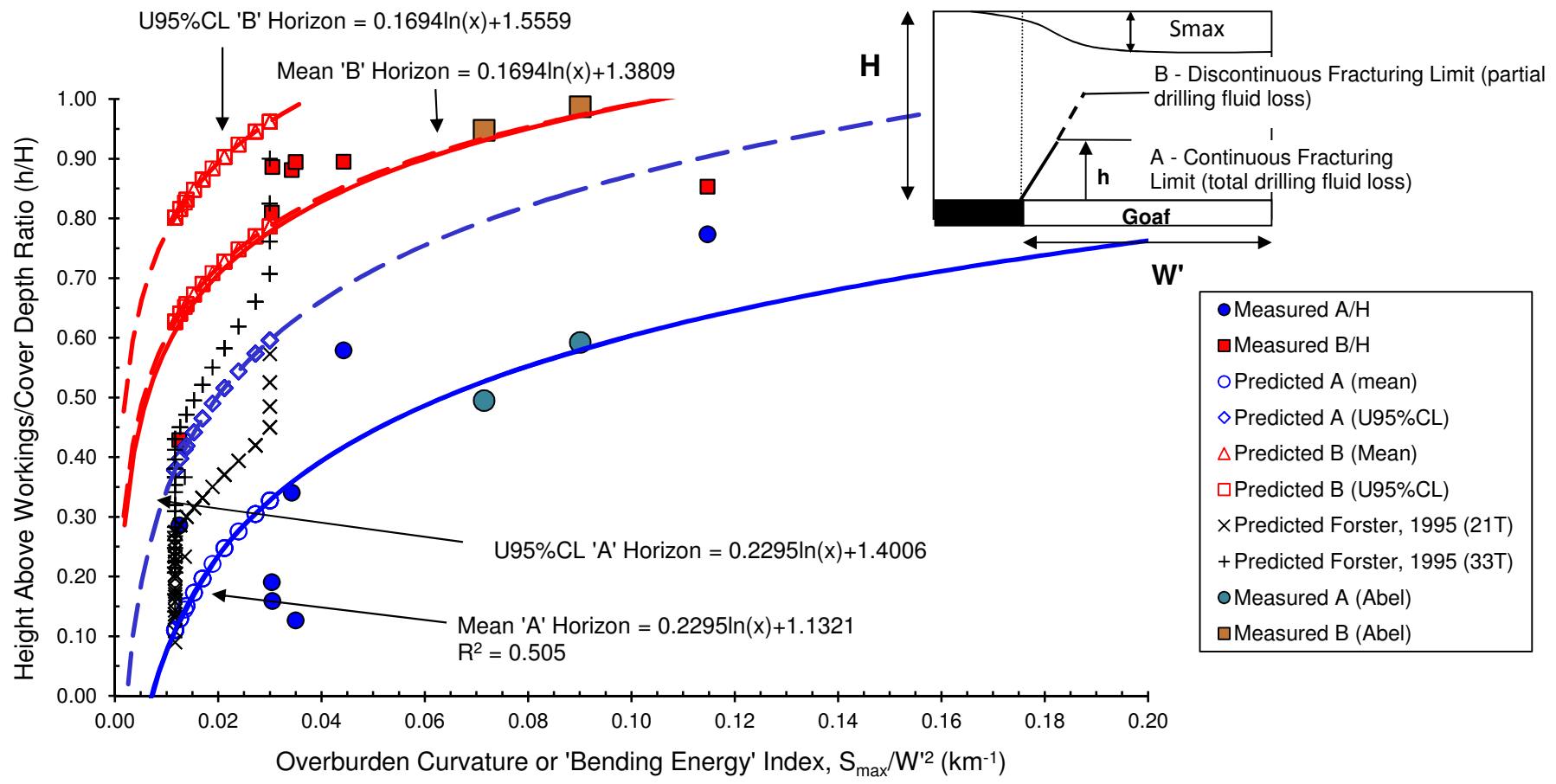


Ref: ACARP, 2003 and Forster, 1995


	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project
	Drawn:	S.Ditton		TAS-005/1
	Date:	12.12.11	Title:	Continuous and Discontinuous Sub-Surface Fracture Heights above the Proposed Total Pillar Extraction Panels at the Tasman Extended Mine
	Ditton Geotechnical Services Pty Ltd		Scale:	NTS
			Figure No:	36a

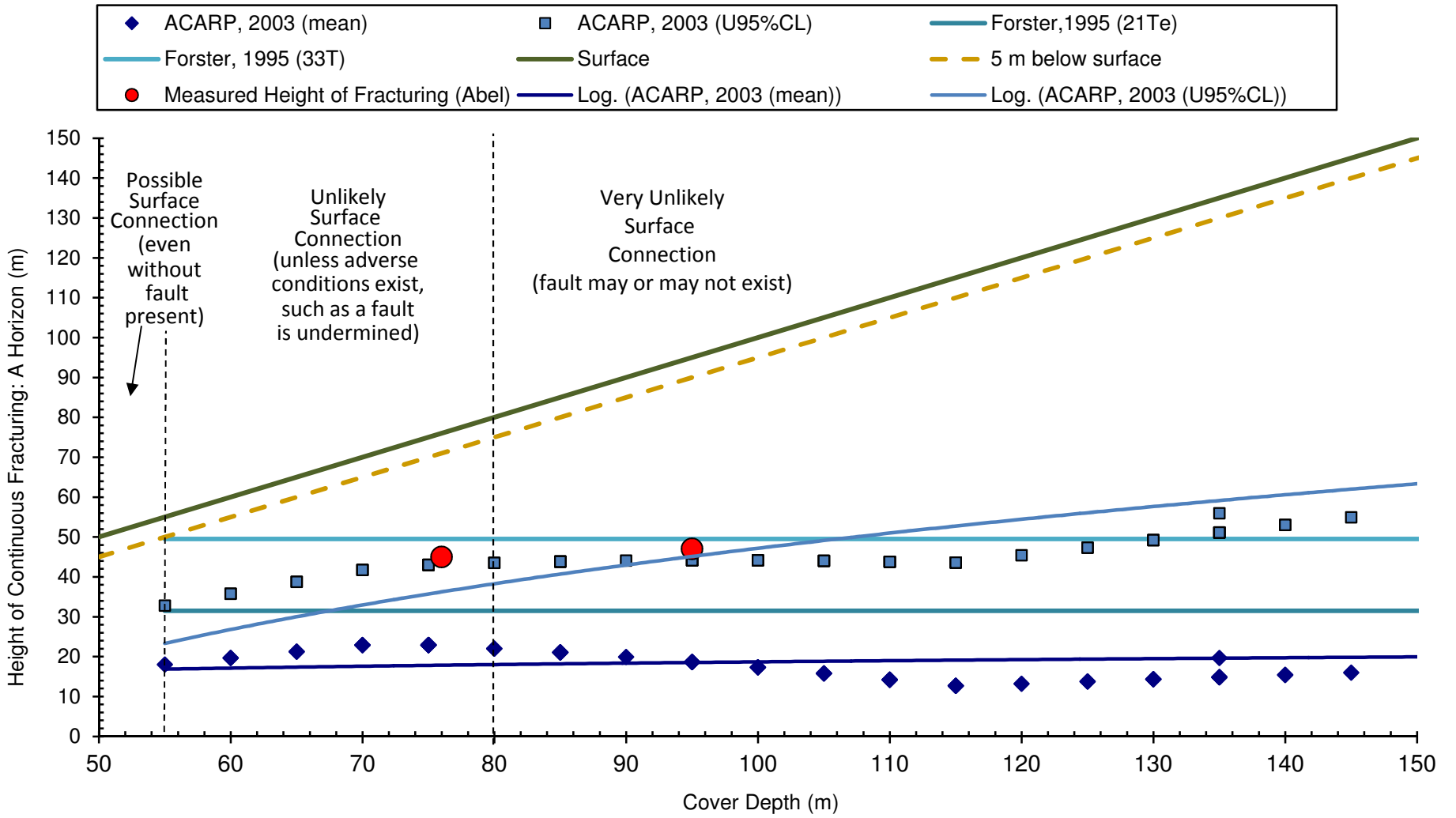



	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project	
	Drawn:	S.Ditton		TAS-005/1	
	Date:	29.09.11	Title:	Predicted Sub-surface Fracture Height v. Cover Depth for the Proposed Total Pillar Extraction Panels at the Tasman Extended Mine	
	Ditton Geotechnical Services Pty Ltd		Scale:	NTS	Figure No:

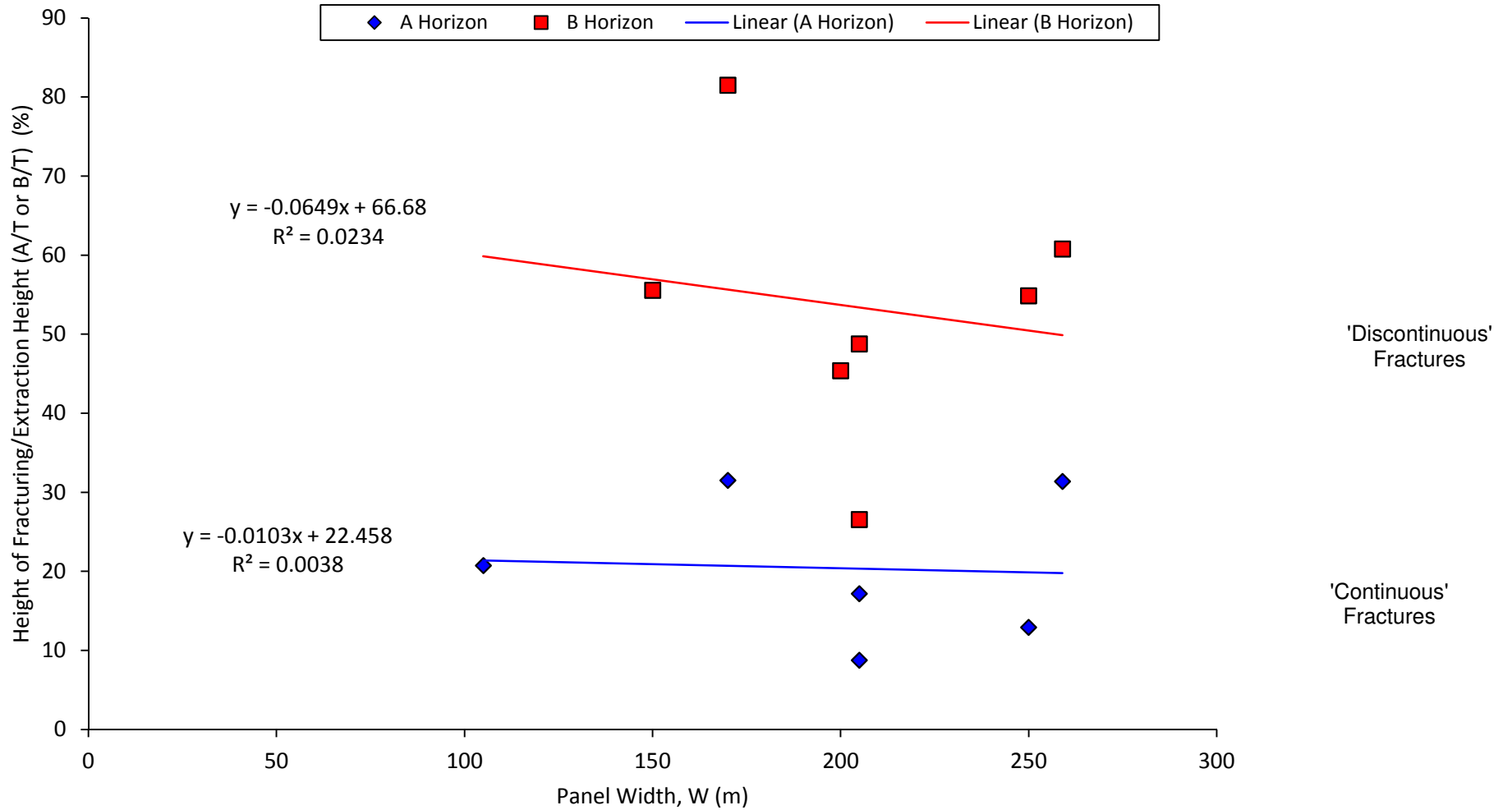



Ref: ACARP, 2003 and Forster, 1995

	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project
	Drawn:	S.Ditton		TAS-005/1
	Date:	12.12.11	Title:	Continuous and Discontinuous Sub-Surface Fracture Heights above the Proposed Partial Pillar Extraction Panels at the Tasman Extended Mine
	Ditton Geotechnical Services Pty Ltd		Scale:	NTS
			Figure No:	36c

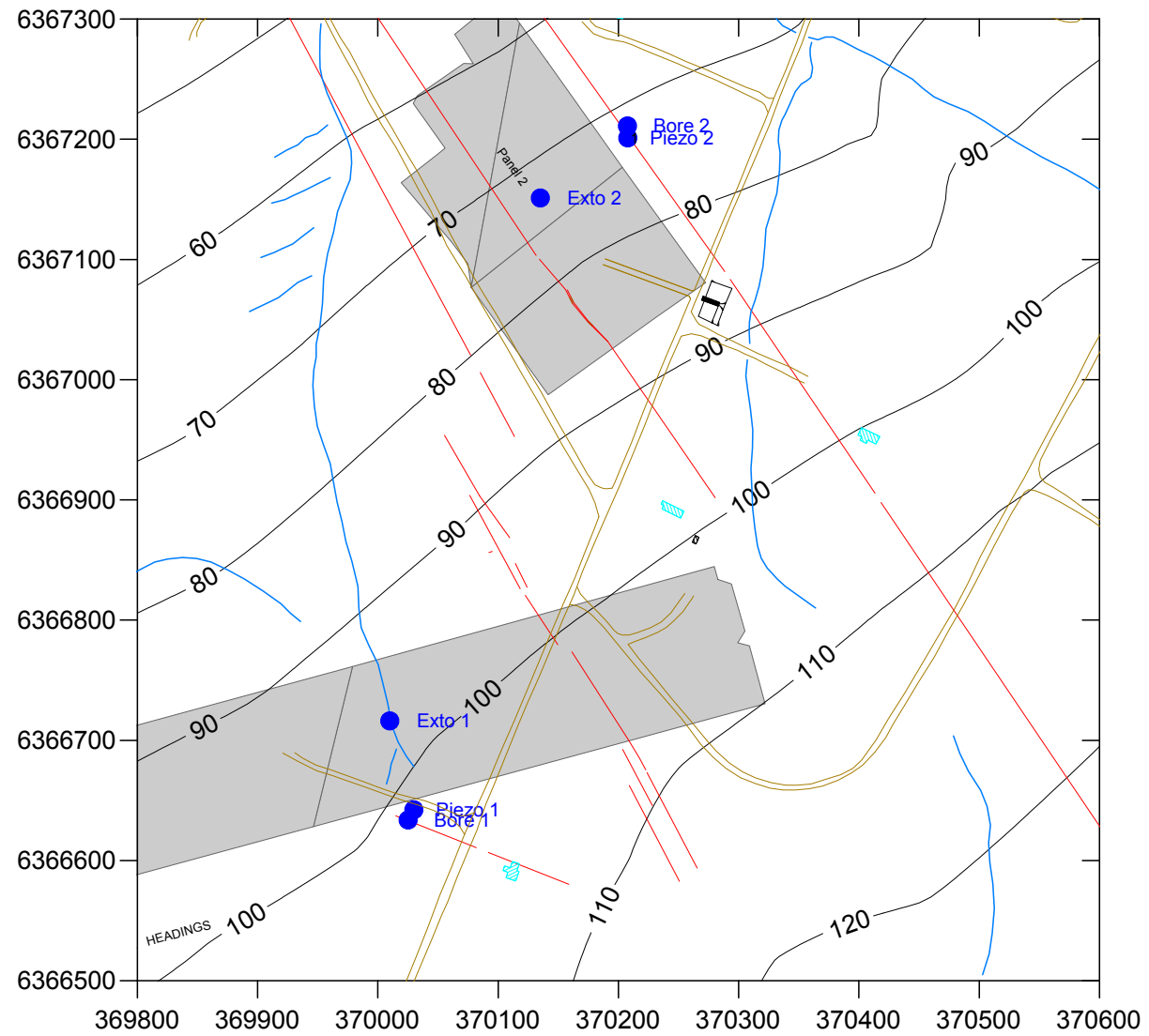


	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project
	Drawn:	S.Ditton		TAS-005/1
	Date:	29.09.11	Title:	Predicted Sub-surface Fracture Height v. Cover Depth for the Proposed Partial Pillar Extraction Panels at the Tasman Extended Mine
	Ditton Geotechnical Services Pty Ltd		Scale:	NTS
				Figure No: 36d

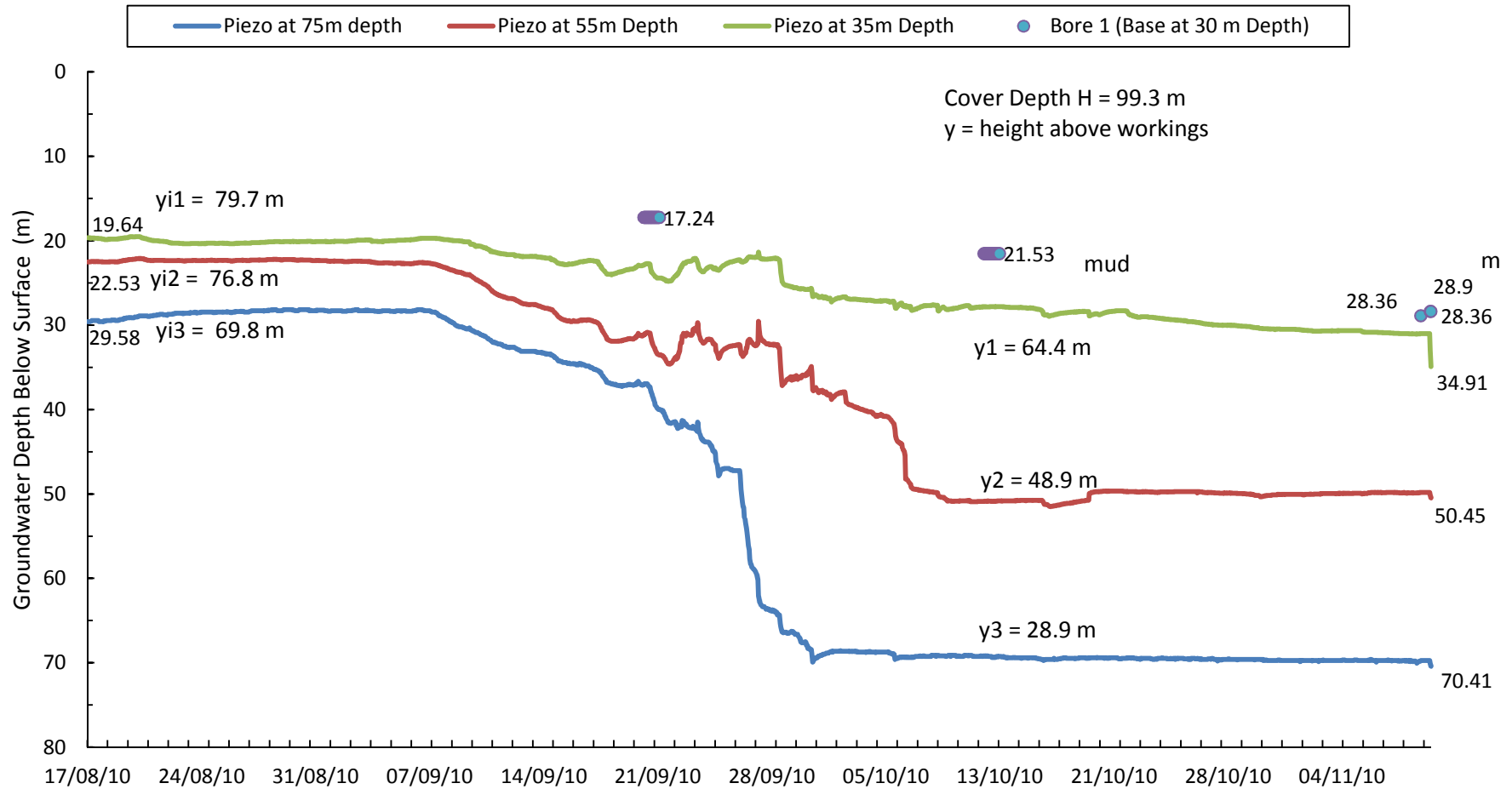



	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project	
	Drawn:	S.Ditton		TAS-005/1	
	Date:	30.11.10	Title:	Measured Sub-surface Fracture Heights above Longwall Panels v. Panel Width	
	Ditton Geotechnical Services Pty Ltd			(based on ACARP, 2003 data)	
		Scale:	NTS	Figure No:	36e

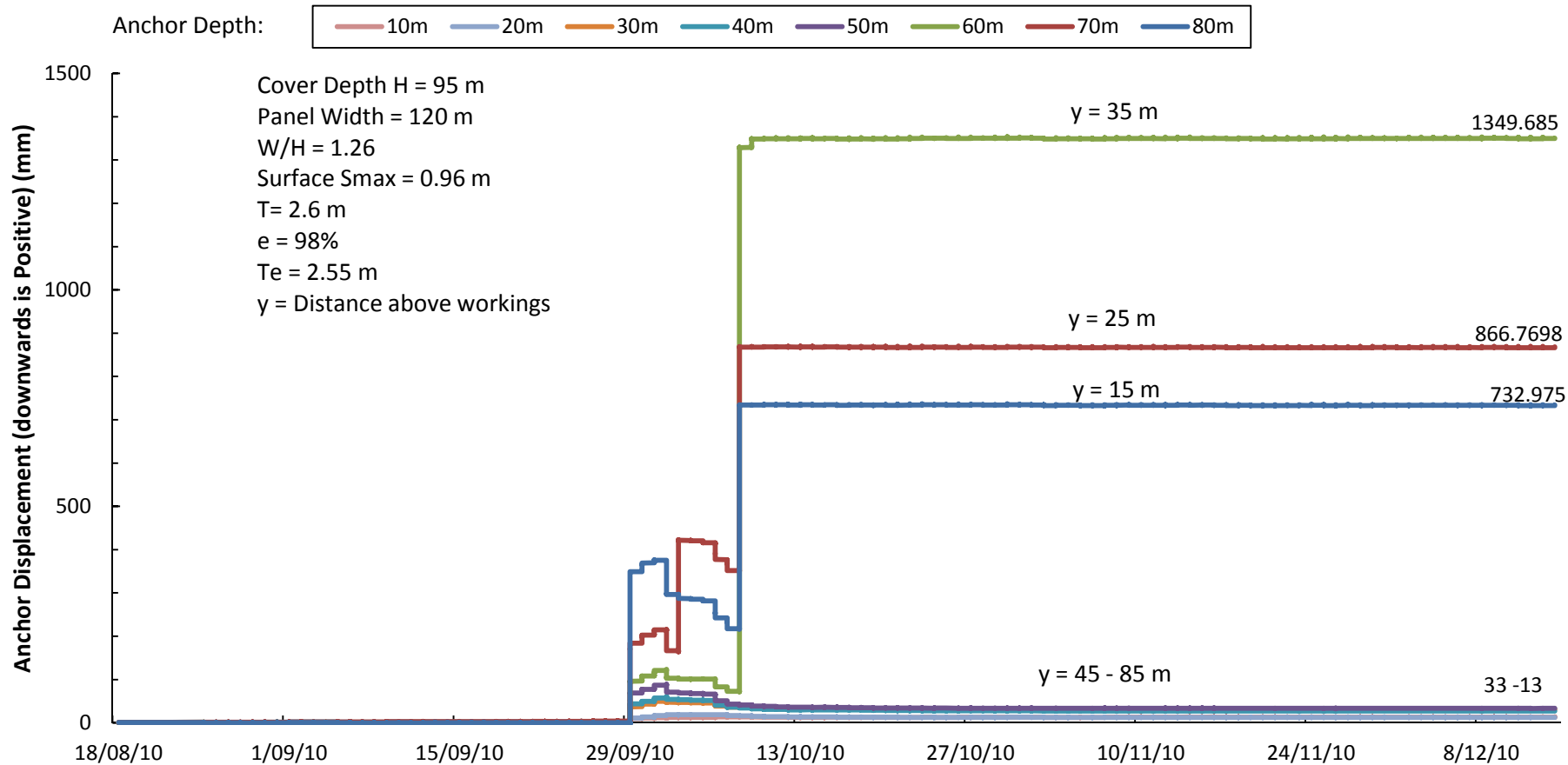
- Key**
- Extensometer & Piezometer Locations
 - Disused Buildings
 - Second Workings
 - Cover Depth Contours (m)
 - Schedule 1 creeks/ gullies
 - Geological Structure
 - Access Roads
 - Cattle Yard




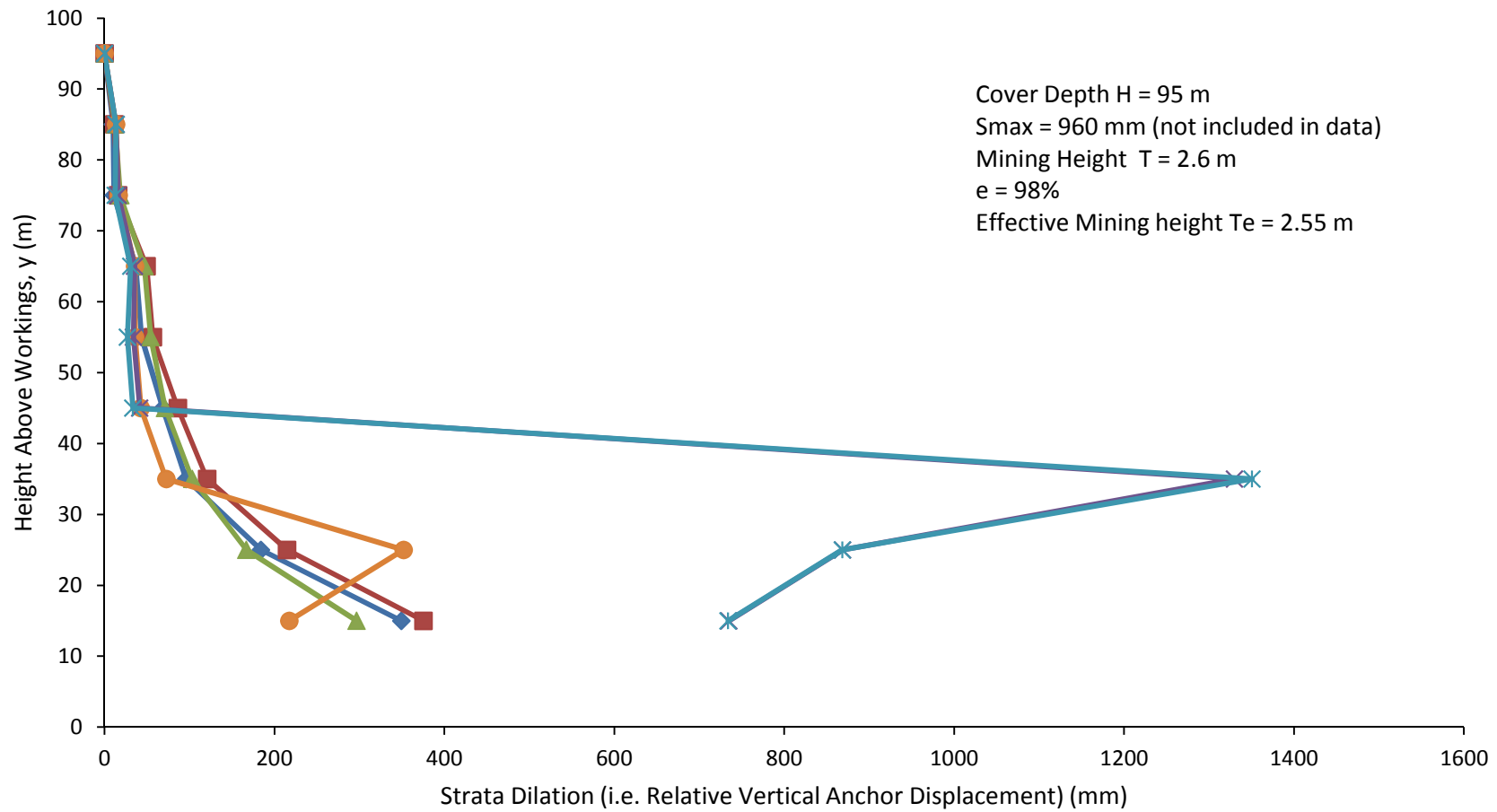
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	Drawn:	S.Ditton	Title:	TAS-005/1		
	Date:	21.11.11	Title:	Location of Deep Borehole Extensometers and Piezometers above the Panels 1 and 2 in SMP Area 1 at the Abel Mine		
	Ditton Geotechnical Services Pty Ltd			Scale:	1:7,500	Figure No:




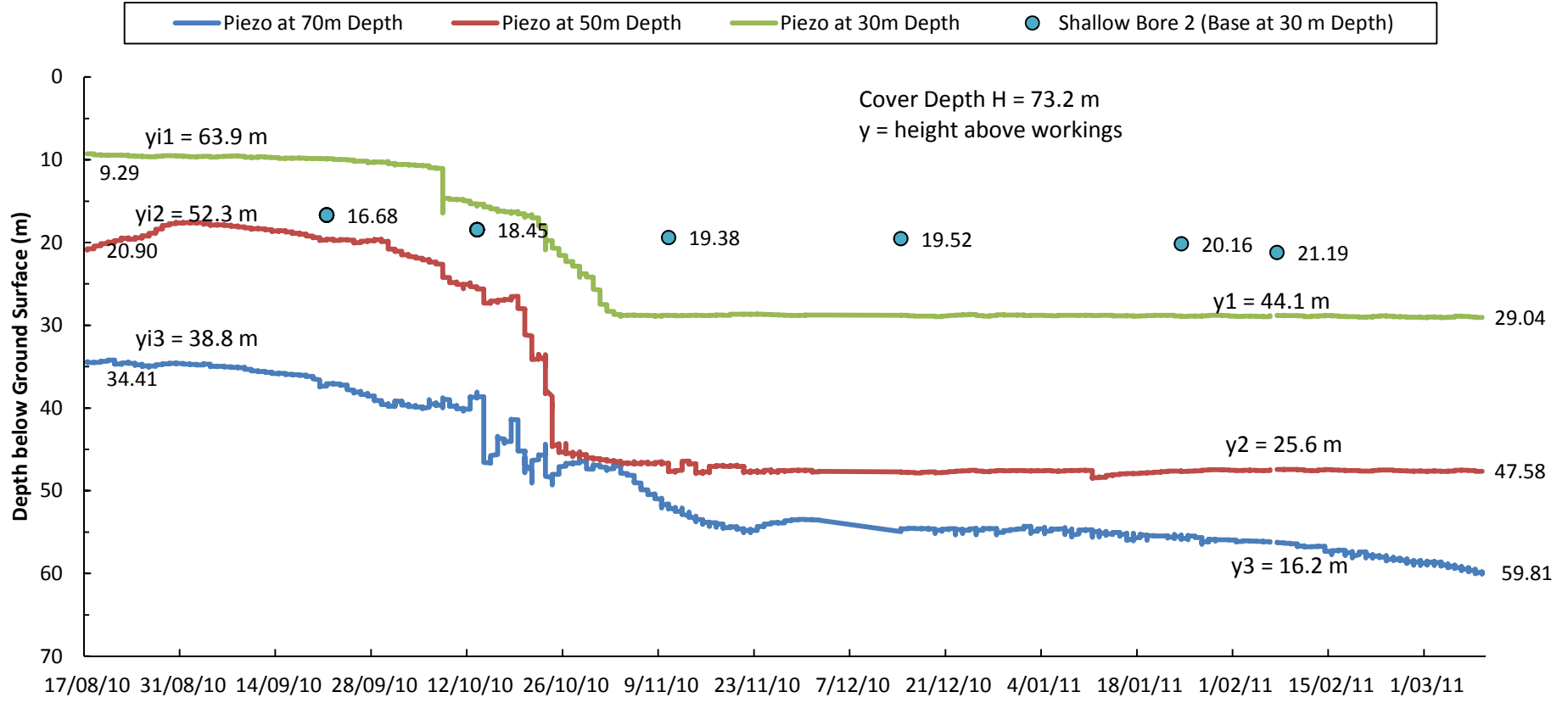
	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project
	Drawn:	S.Ditton		TAS-005/1
	Date:	12.12.11	Title:	Measured Groundwater Levels in Surface and Subsurface Aquifers Before & After Panel 1 at the Abel Mine (see Figure 37 for location)
	Ditton Geotechnical Services Pty Ltd		Scale:	NTS
				Figure No: 38a




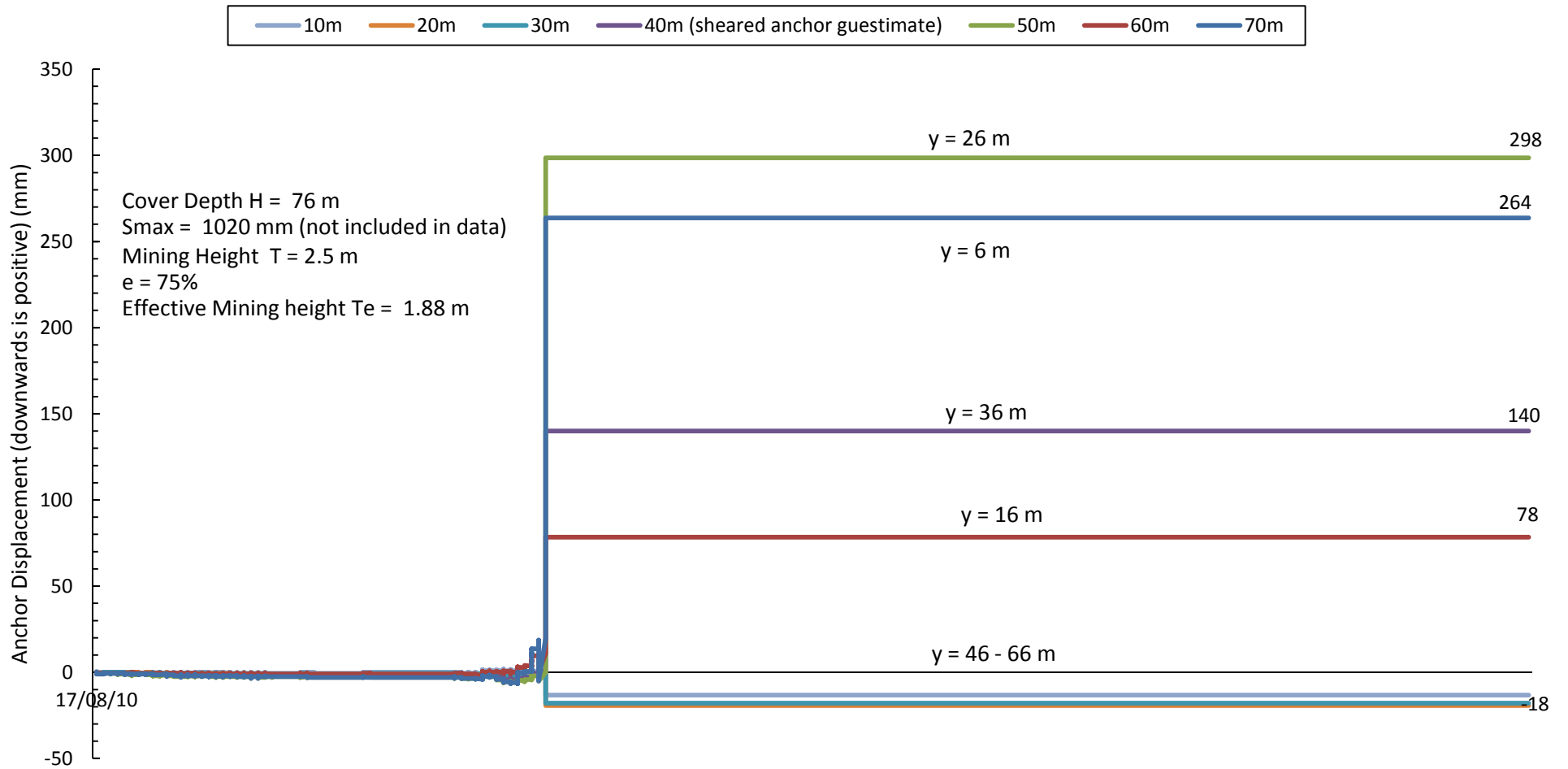
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	Drawn:	S.Ditton		TAS-005/1	
	Date:	21.09.11	Title:	Measured Anchor Displacements in Deep Borehole above Panel 1 (Exto 1) at Abel Mine (see Figure 37 for location)	
	Ditton Geotechnical Services Pty Ltd		Scale:	NTS	
				Figure No:	38b




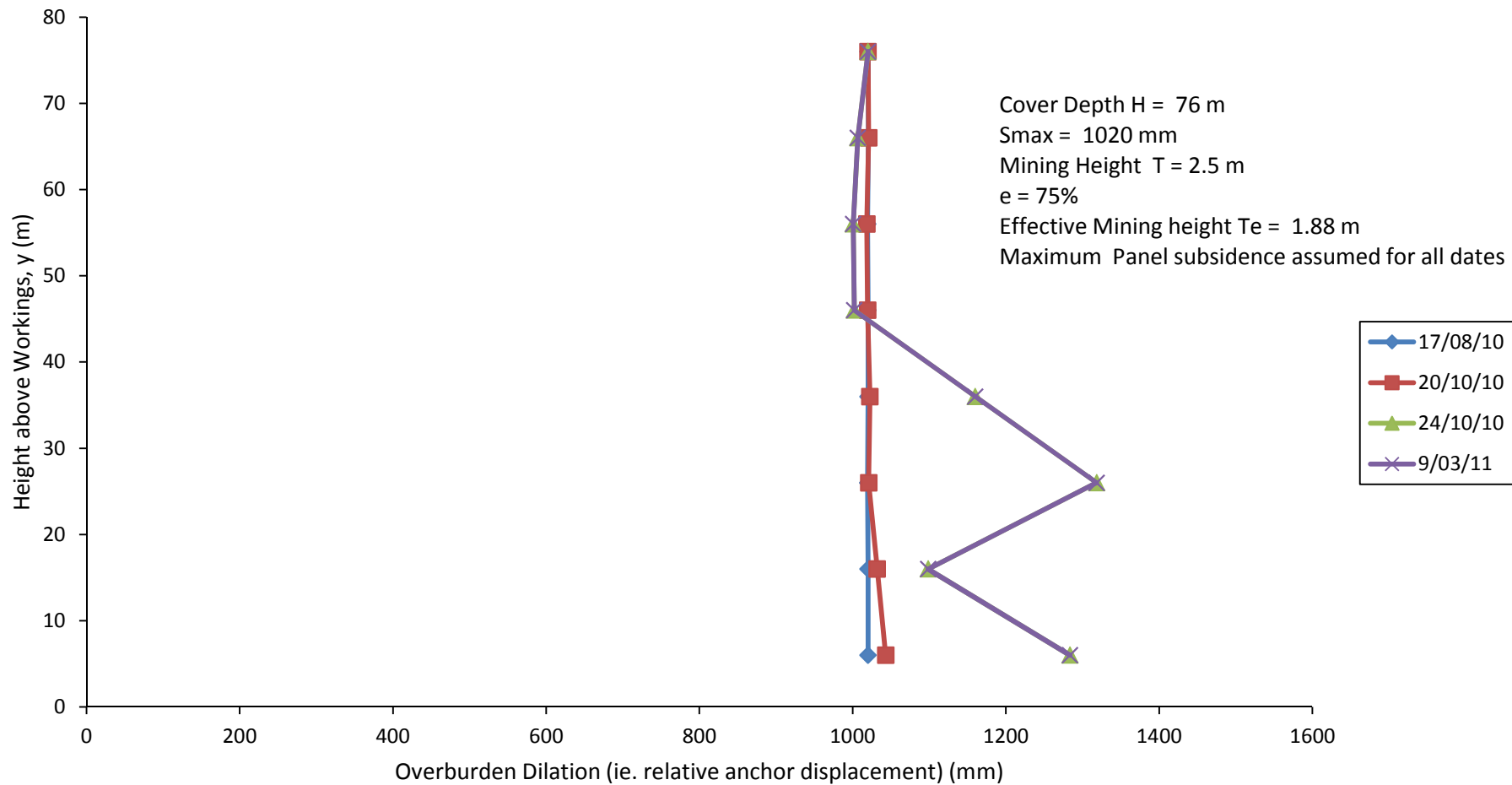
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	Date:	12.12.11	Title:	Measured Strata Dilation in Deep Borehole above Panel 1 (Exto 1) at Abel Mine (see Figure 37 for location)	
	Ditton Geotechnical Services Pty Ltd		Scale:	NTS	Figure No:




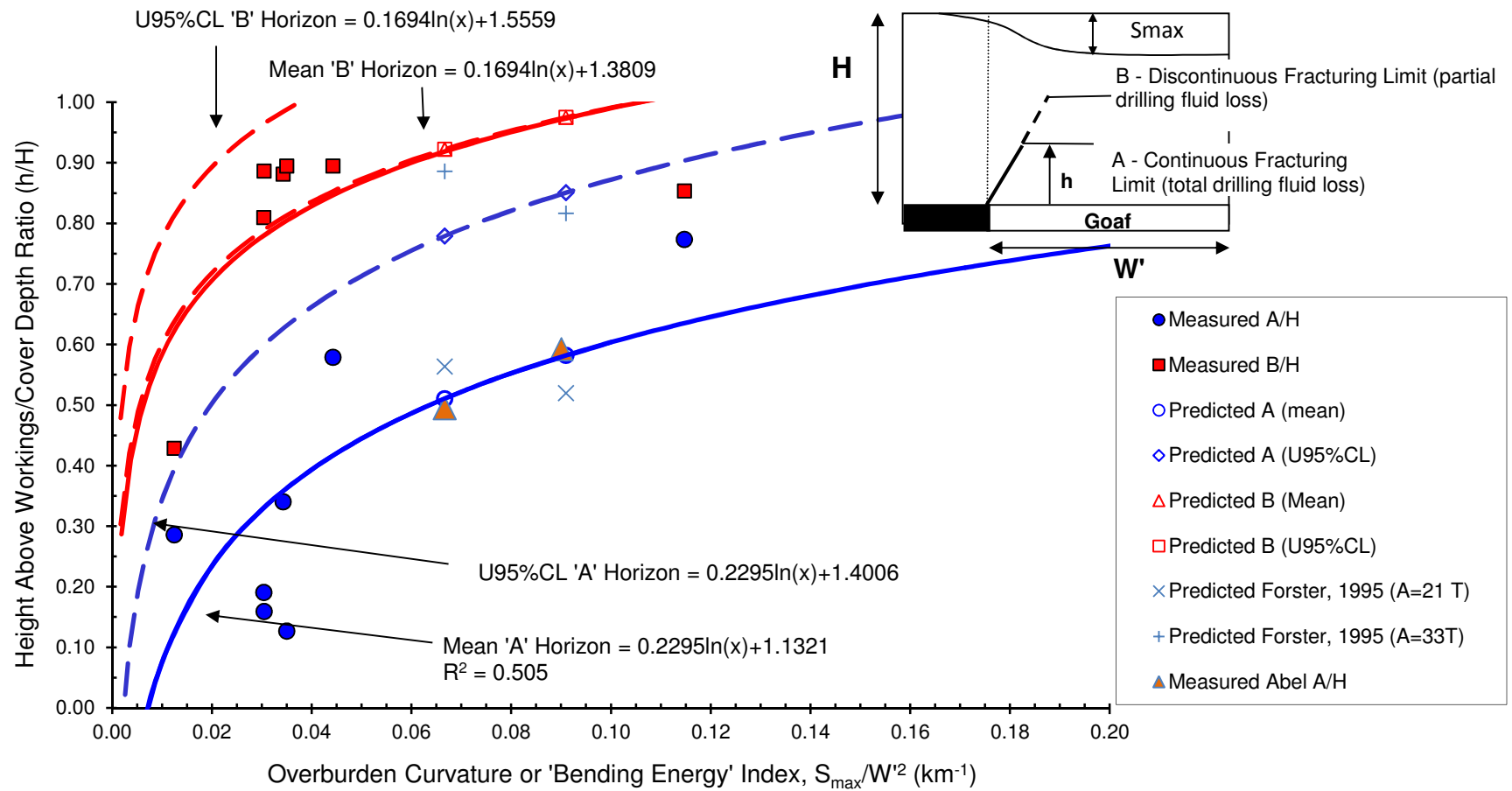
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	Drawn:	S.Ditton		TAS-005/1
	Date:	12.12.11	Title:	Measured Groundwater Levels in Surface and Subsurface Aquifers Before & After Panel 2 (see Figure 37 for location)
	Ditton Geotechnical Services Pty Ltd		Scale:	NTS
			Figure No:	38d




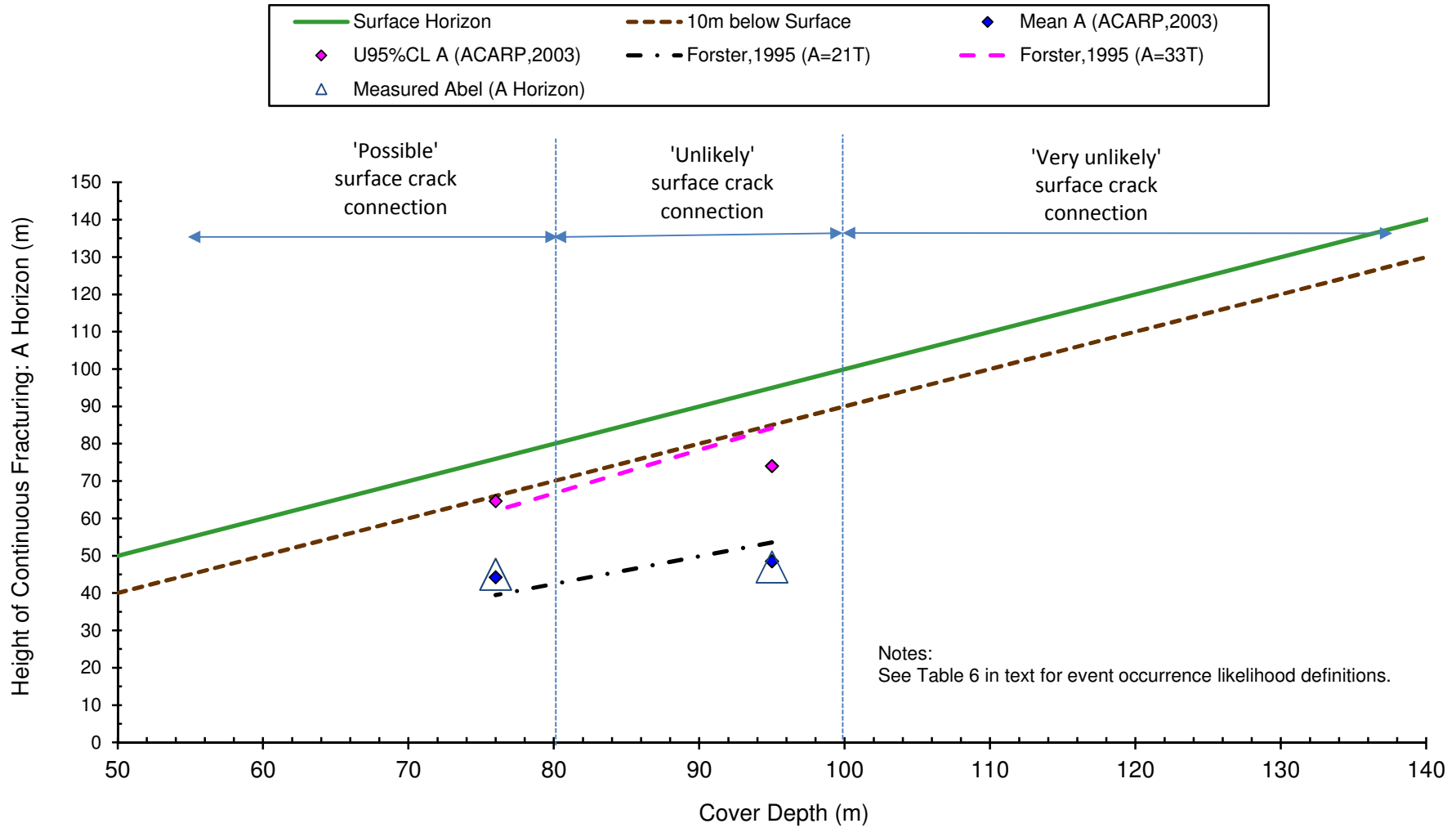
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	Date:	12.12.11	Title:	Measured Anchor Displacements in Deep Borehole above Panel 2 (Exto 2) at Abel Mine (see Figure 37 for location)	
	Ditton Geotechnical Services Pty Ltd		Scale:	NTS	Figure No:



	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project	
	Drawn:	S.Ditton		TAS-005/1	
	Date:	12.12.11	Title:	Measured Strata Dilatation in Deep Borehole above Panel 2 (Exto 2) at Abel Mine (see Figure 37 for location)	
	Ditton Geotechnical Services Pty Ltd		Scale:	NTS	Figure No:



	Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project	
	Drawn:	S.Ditton		TAS-005/1	
	Date:	12.12.11	Title:	Continuous and Discontinuous Sub-Surface Fracture Heights above Total	
	Ditton Geotechnical Services Pty Ltd			Pillar Extraction Panels 1 and 2 at Abel Mine (ref: ACARP < 2003 & Fortser, 1995)	
Scale:			NTS	Figure No:	38g



Engineer:	S.Ditton	Client:	Donaldson Coal - Tasman Extension Project
Drawn:	S.Ditton		TAS-005/1
Date:	12.12.11	Title:	Predicted v Measured Continuous Fracture Height v. Cover Depth for Panels 1 and 2 at the Abel Mine (based on ACARP, 2003 Model)
Ditton Geotechnical Services Pty Ltd		Scale:	NTS
		Figure No:	38h