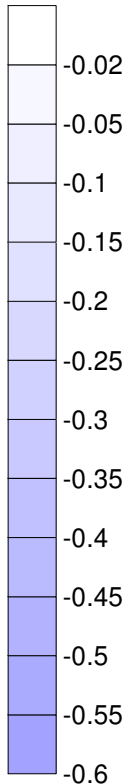
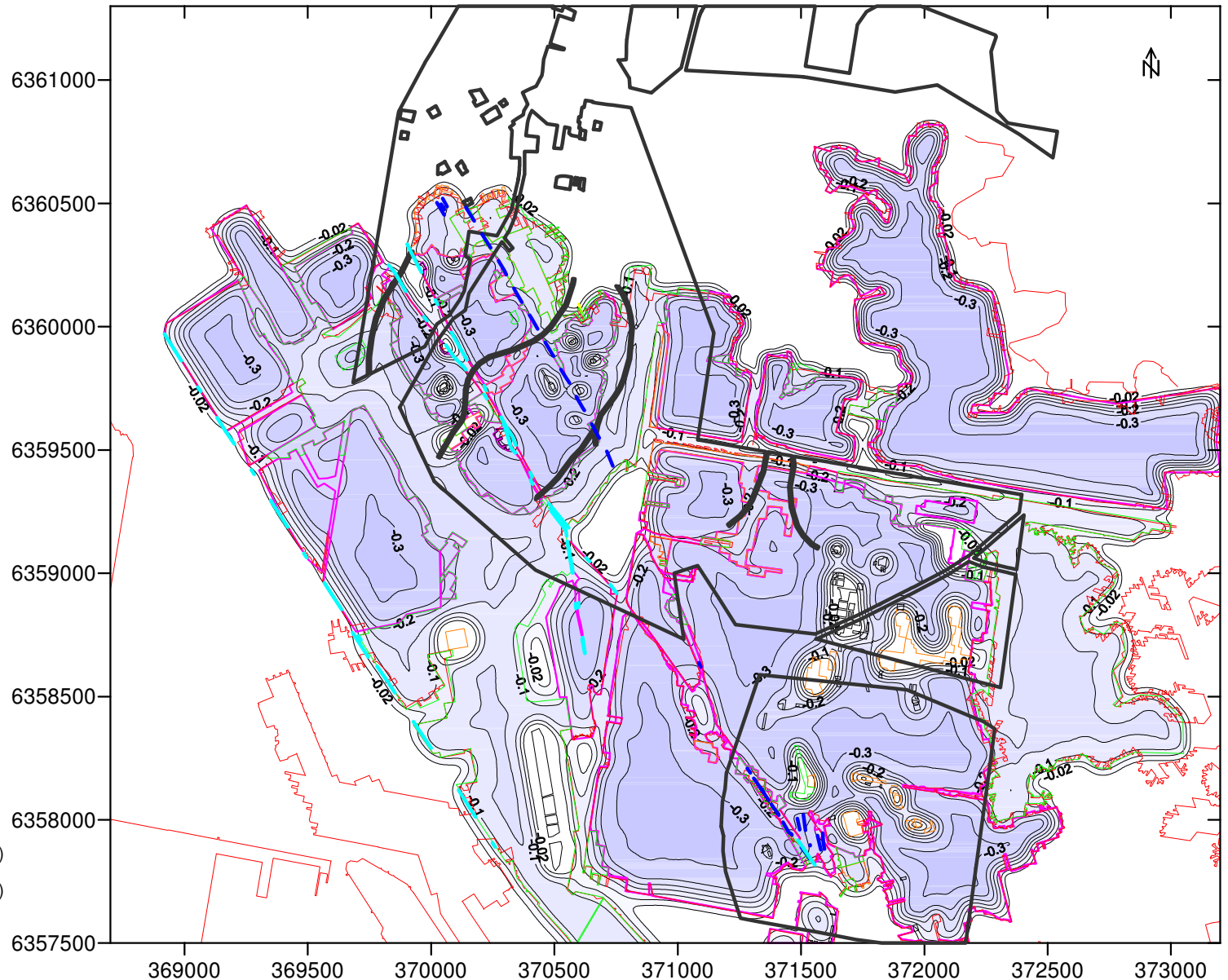


Subsidence (m)



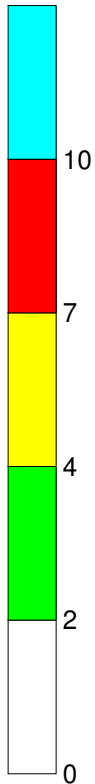
Key

- Mine Workings Limits (>85% Extraction)
- Mine Workings Limits (40-50% Extraction)
- Mine Workings Limits (20-35% Extraction)
- Remnant Pillars of Potential Significance
- Site Boundary
- Normal Fault
- Igneous Dyke (Very High Strength)
- Outline of all Known Borehole Seam Workings



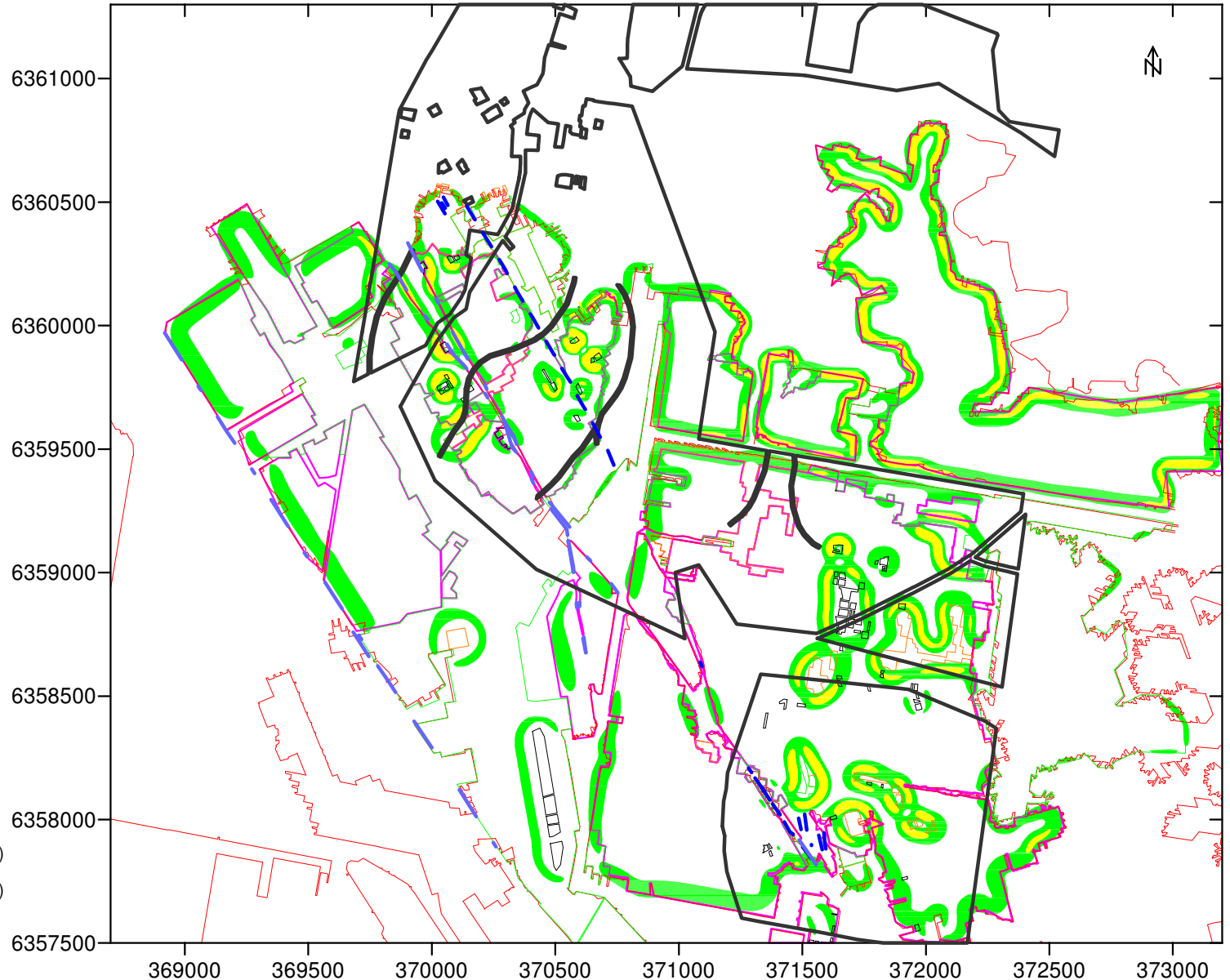
	Engineer:	S.Ditton	Client:	Douglas Partners DPS-002/1	
	Drawn:	S.Ditton	Title:	Predicted Future Worst-Case Subsidence Contours for the Pillar Extraction Panels in the Young Wallsend Seam (Wallsend Borehole and Gretley Collieries)	
	Date:	29.11.07	Scale:	1:25,000	Figure No:
Ditton Geotechnical Services Pty Ltd					

Tilt (mm/m)



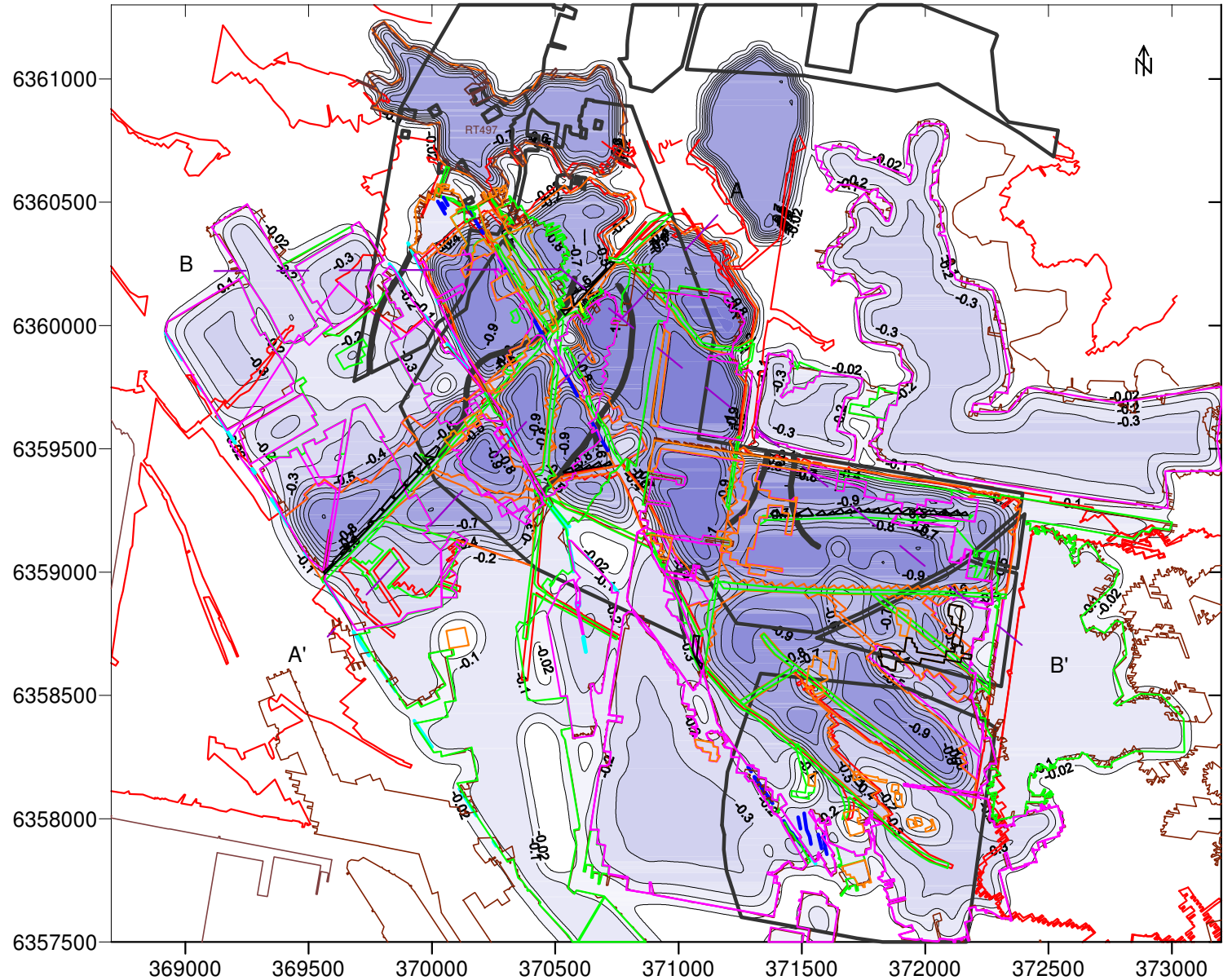
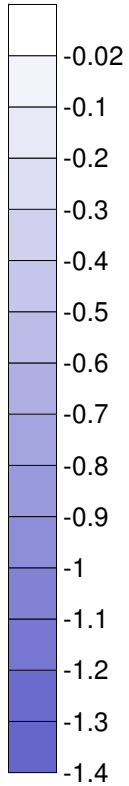
Key

- Mine Workings Limits (>85% Extraction)
- Mine Workings Limits (40-50% Extraction)
- Mine Workings Limits (20-35% Extraction)
- Remnant Pillars of Potential Significance
- Site Boundary
- Normal Fault
- Igneous Dyke (Very High Strength)
- Outline of all Known Borehole Seam Workings












	Engineer: S.Ditton	Client: Douglas Partners DPS-002/1
	Drawn: S.Ditton	
	Date: 29.11.07	Title: Predicted Future Worst-Case Tilt Contours for the Pillar Extraction Panels in the Young Wallsend Seam (Wallsend Borehole and Gretley Collieries)
Ditton Geotechnical Services Pty Ltd	Scale: 1:25,000	Figure No: 9b

Subsidence (m)

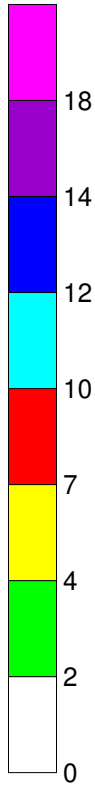


Key









-  Mine Workings Limits (>85% Extraction)
-  Mine Workings Limits (50-70% Extraction)
-  Mine Workings Limits (20-40% Extraction)
-  Site Boundary
-  Normal Fault
-  Igneous Dyke (Very High Strength)
-  Extent of Browns-Minmi & Duckenfield Mines
-  Extent of Wallsend Borehole & Gretley Mines

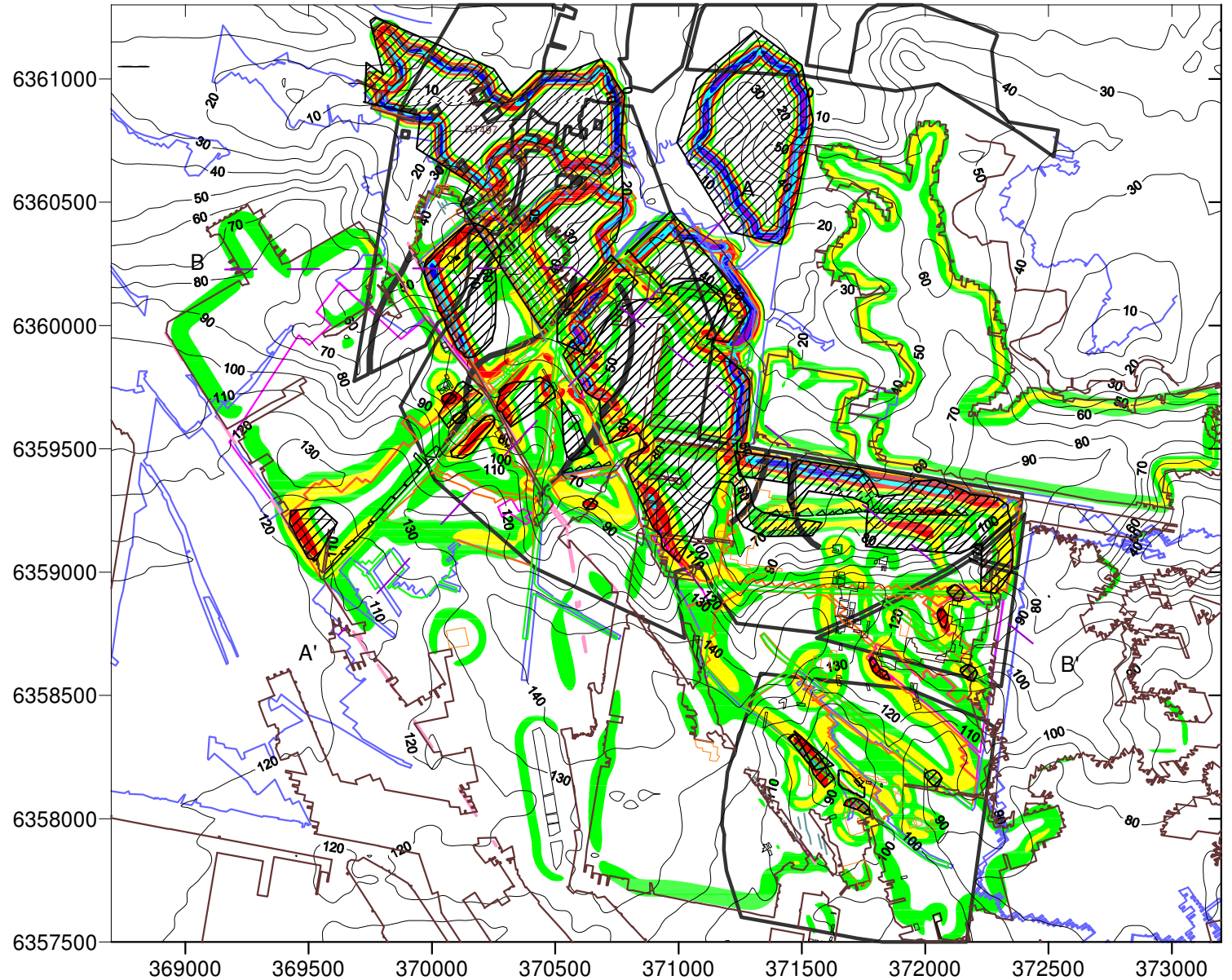
	Engineer:	S.Ditton	Client:	Douglas Partners	
	Drawn:	S.Ditton		DPS-002/1	
	Date:	29.11.07	Title:	Predicted Future Worst-case Subsidence Contours above the Pillar Extraction Panels in the Borehole Seam and Young Wallsend Seam if Pillar FoS under FTA Load Case is Ignored	
Ditton Geotechnical Services Pty Ltd			Scale:	1:25,000	Figure No: 10a


Tilt (mm/m)



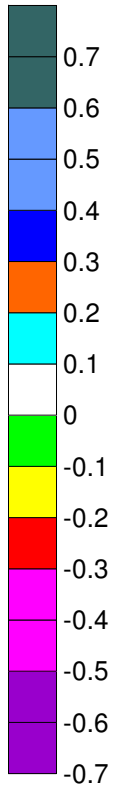
Key

-  High Tilt Hazard Zones (>7mm/m)
-  Moderate Tilt Hazard Zones (4 - 7 mm/m)
-  Site Boundary
-  Normal Fault
-  Igneous Dyke (Very High Strength)
-  Extent of Browns-Minmi & Duckenfield Mines in Borehole Seam
-  Extent of Wallsend Borehole & Gretley Workings in Young Wallsend Seam
-  Depth of Cover above Borehole Seam











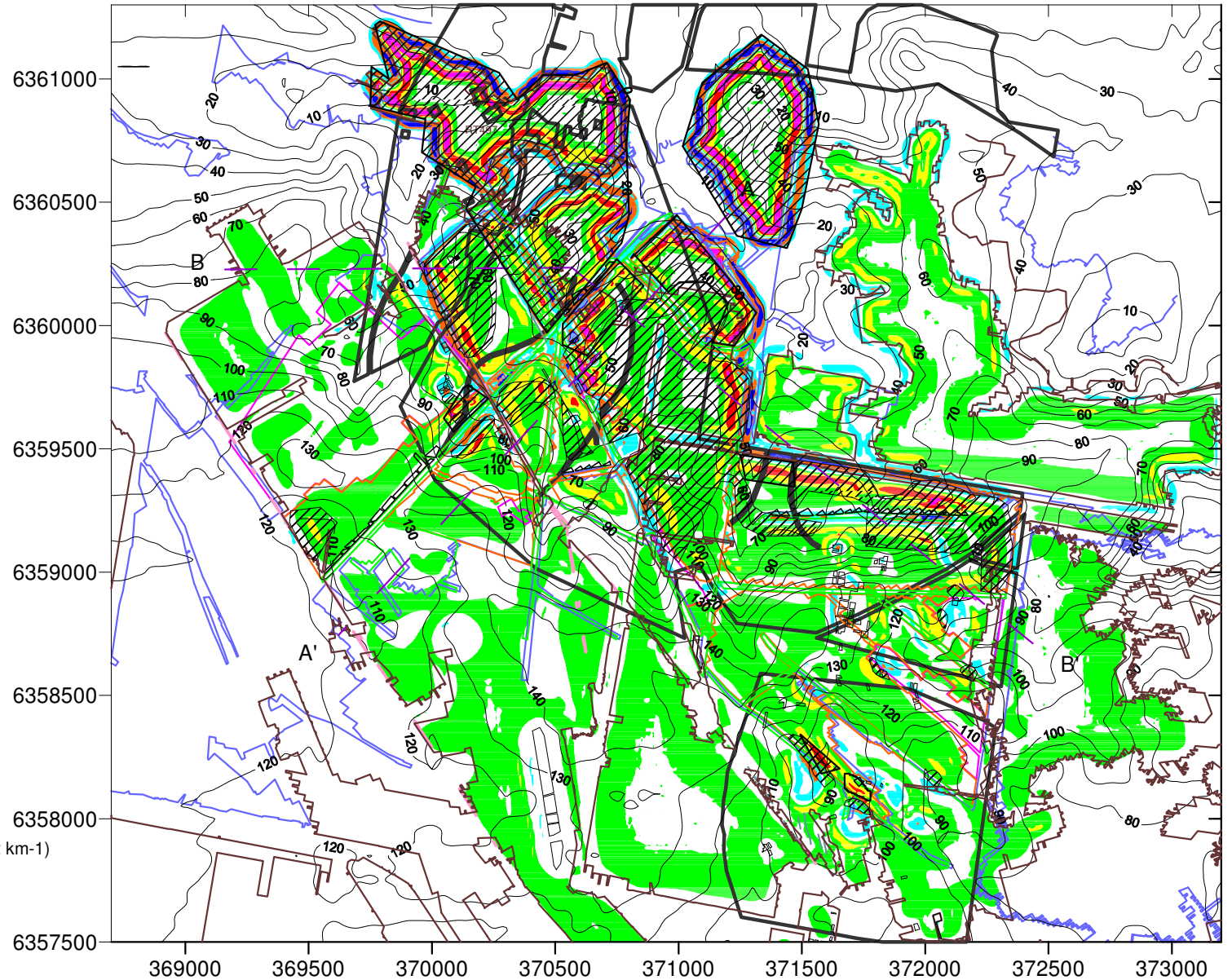
	Engineer:	S.Ditton	Client:	Douglas Partners	
	Drawn:	S.Ditton		DPS-002/1	
	Date:	17.01.08	Title:	Worst-case Future Tilt Contours above the Pillar Extraction Panels in the Borehole Seam and Young Wallsend Seams if Pillar FoS under FTA Load is Ignored	
			Scale:	1:25,000	Figure No: 10b


Curvature (1/km)



Key

-  High Curvature Hazard Zones (>0.2 km⁻¹)
-  Moderate Curvature Hazard Zones (0.1-0.2 km⁻¹)
-  Site Boundary
-  Normal Fault
-  Igneous Dyke (Very High Strength)
-  Extent of Browns-Minmi & Duckenfield Mines in Borehole Seam
-  Extent of Wallsend Borehole & Gretley Workings in Young Wallsend Seam
-  Depth of Cover above Borehole Seam



	Engineer:	S.Ditton	Client:	Douglas Partners	
	Drawn:	S.Ditton		DPS-002/1	
	Date:	17.07.08	Title:	Worst-case Future Curvature Contours above the Pillar Extraction Panels in the Borehole Seam and Young Wallsend Seams with Pillar FoS > 2.11 Limits under FTA Load Case	
	Ditton Geotechnical Services Pty Ltd		Scale:	1:25,000	Figure No: 10c