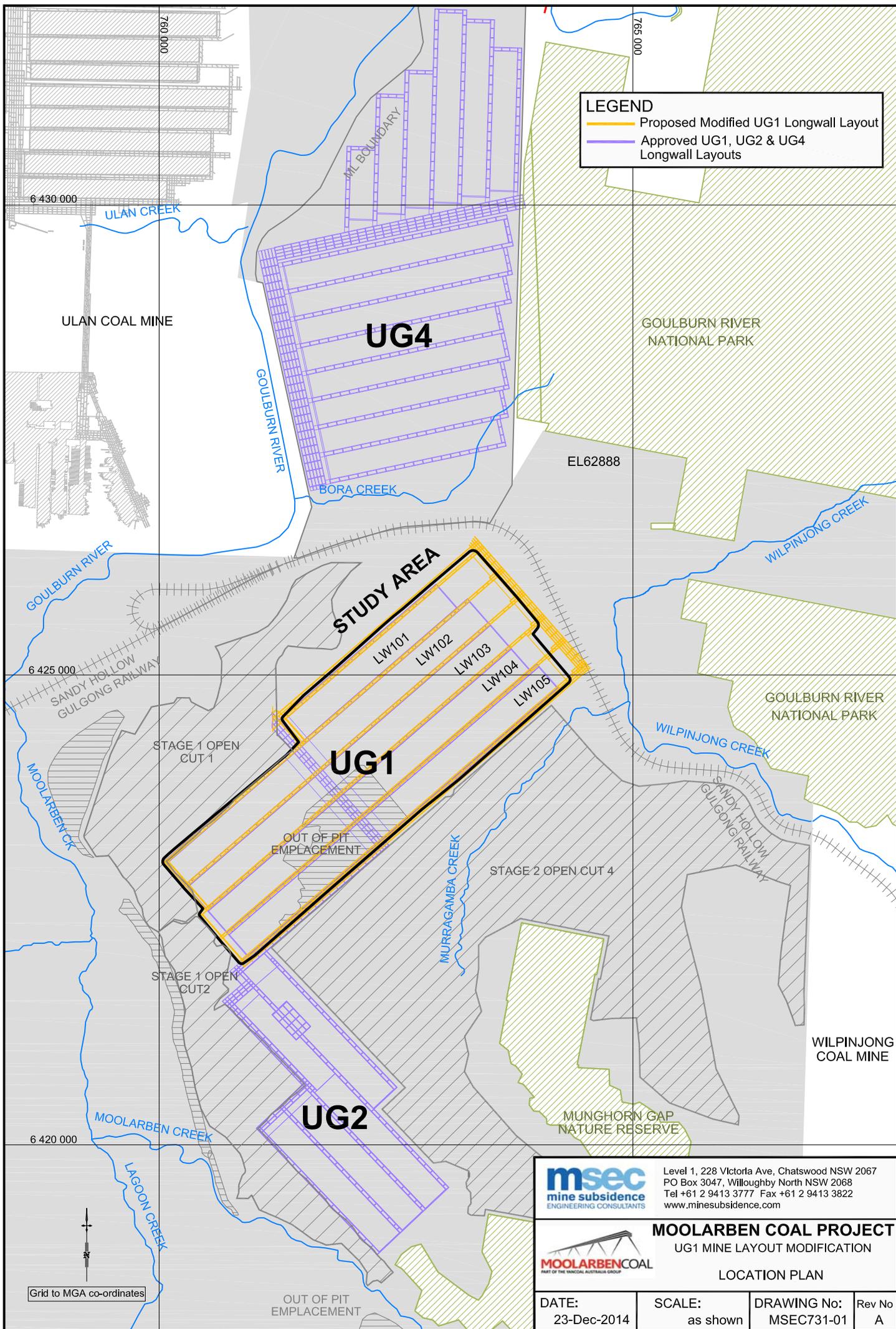


APPENDIX E. DRAWINGS

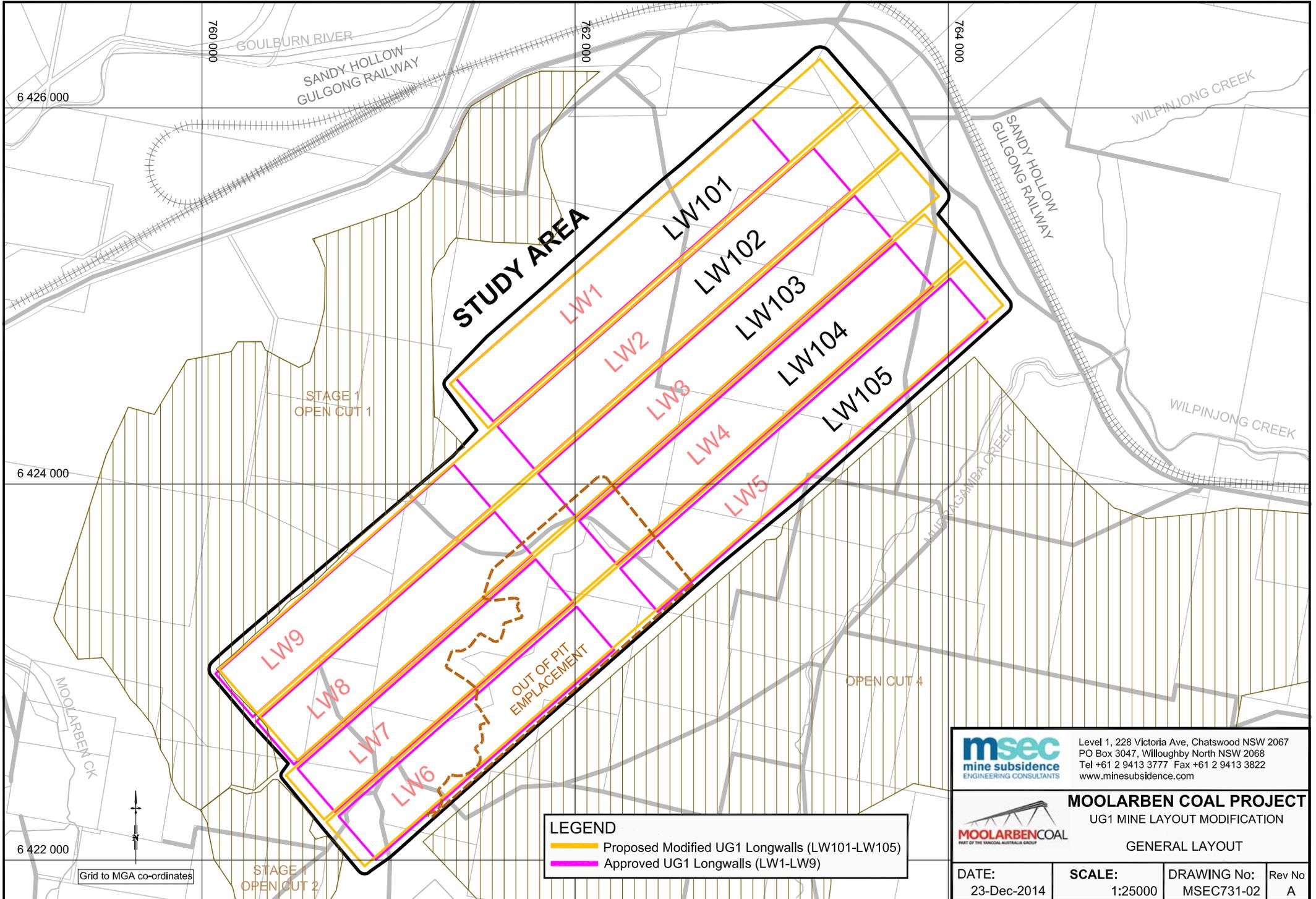


LEGEND

- Proposed Modified UG1 Longwall Layout
- Approved UG1, UG2 & UG4 Longwall Layouts

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		MOOLARBEN COAL PROJECT UG1 MINE LAYOUT MODIFICATION	
LOCATION PLAN			
DATE:	SCALE:	DRAWING No:	Rev No
23-Dec-2014	as shown	MSEC731-01	A

Grid to MGA co-ordinates



LEGEND

- Proposed Modified UG1 Longwalls (LW101-LW105)
- Approved UG1 Longwalls (LW1-LW9)

msec
mine subsidence
 ENGINEERING CONSULTANTS

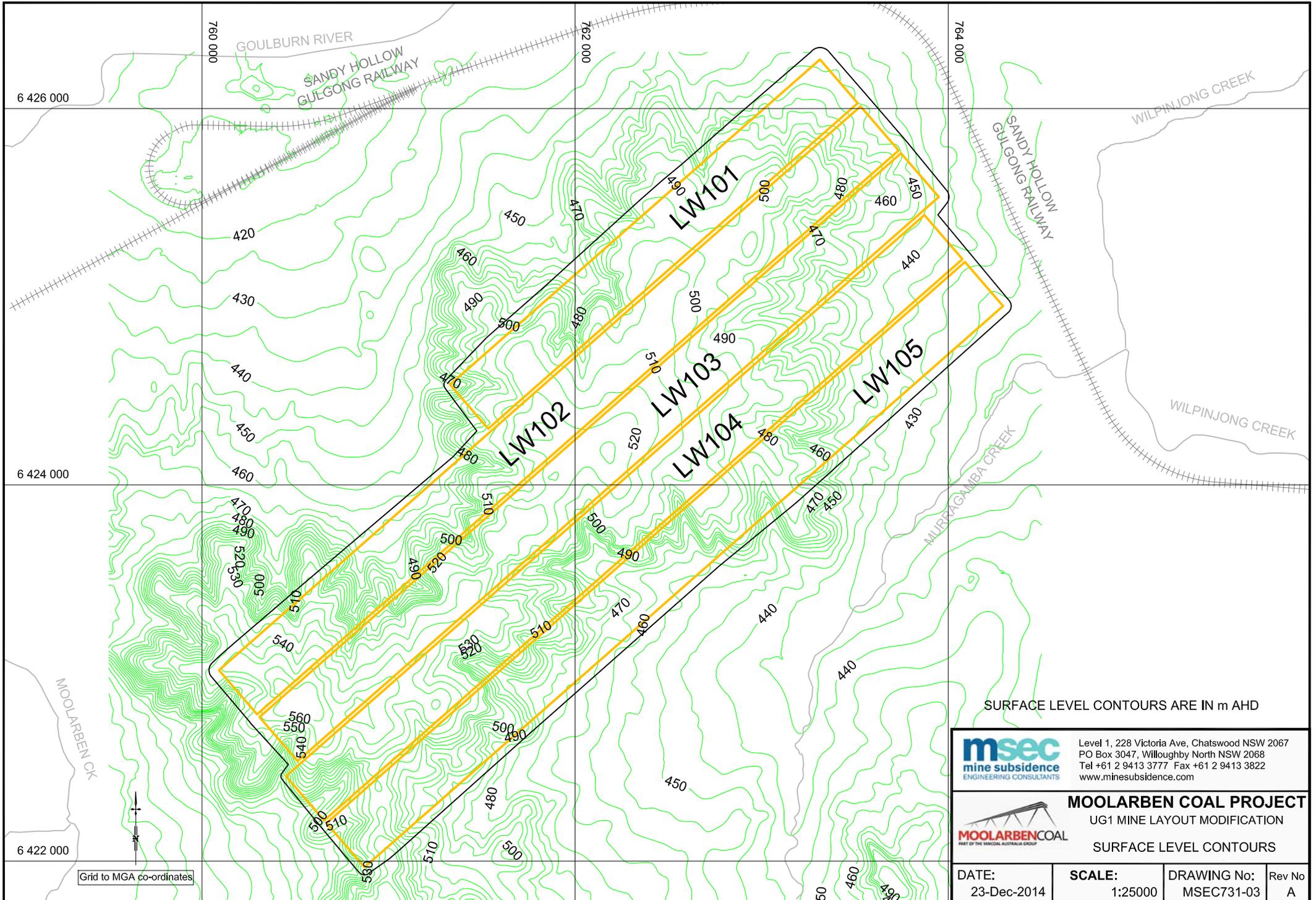
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MOOLARBEN COAL PROJECT
 UG1 MINE LAYOUT MODIFICATION

MOOLARBEN COAL
 PART OF THE VANTACO AUSTRALIA GROUP

GENERAL LAYOUT

DATE: 23-Dec-2014	SCALE: 1:25000	DRAWING No: MSEC731-02	Rev No: A
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SURFACE LEVEL CONTOURS ARE IN m AHD

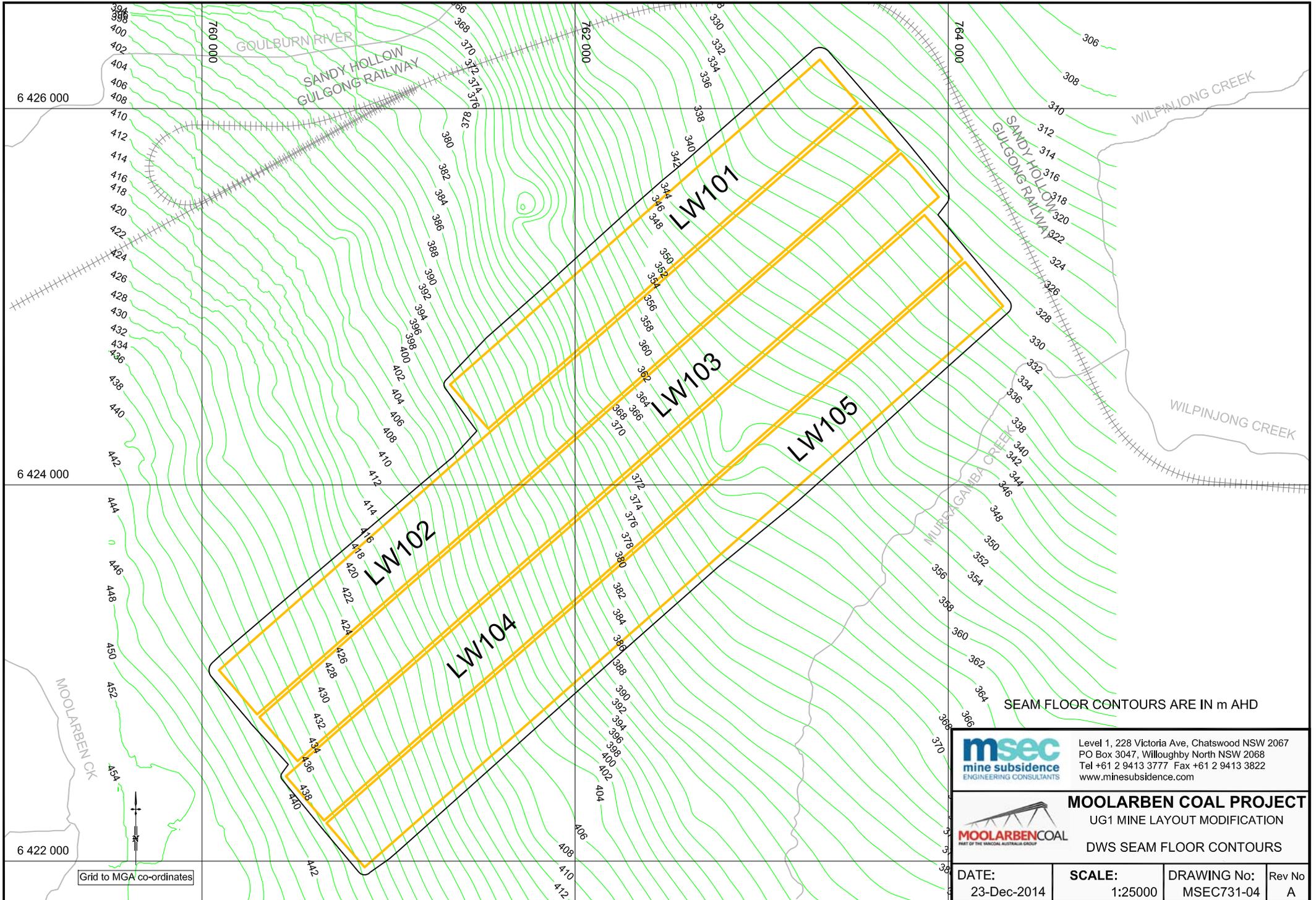


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MOOLARBEN COAL PROJECT
 UG1 MINE LAYOUT MODIFICATION
 SURFACE LEVEL CONTOURS

DATE: 23-Dec-2014	SCALE: 1:25000	DRAWING No: MSEC731-03	Rev No A
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SEAM FLOOR CONTOURS ARE IN m AHD

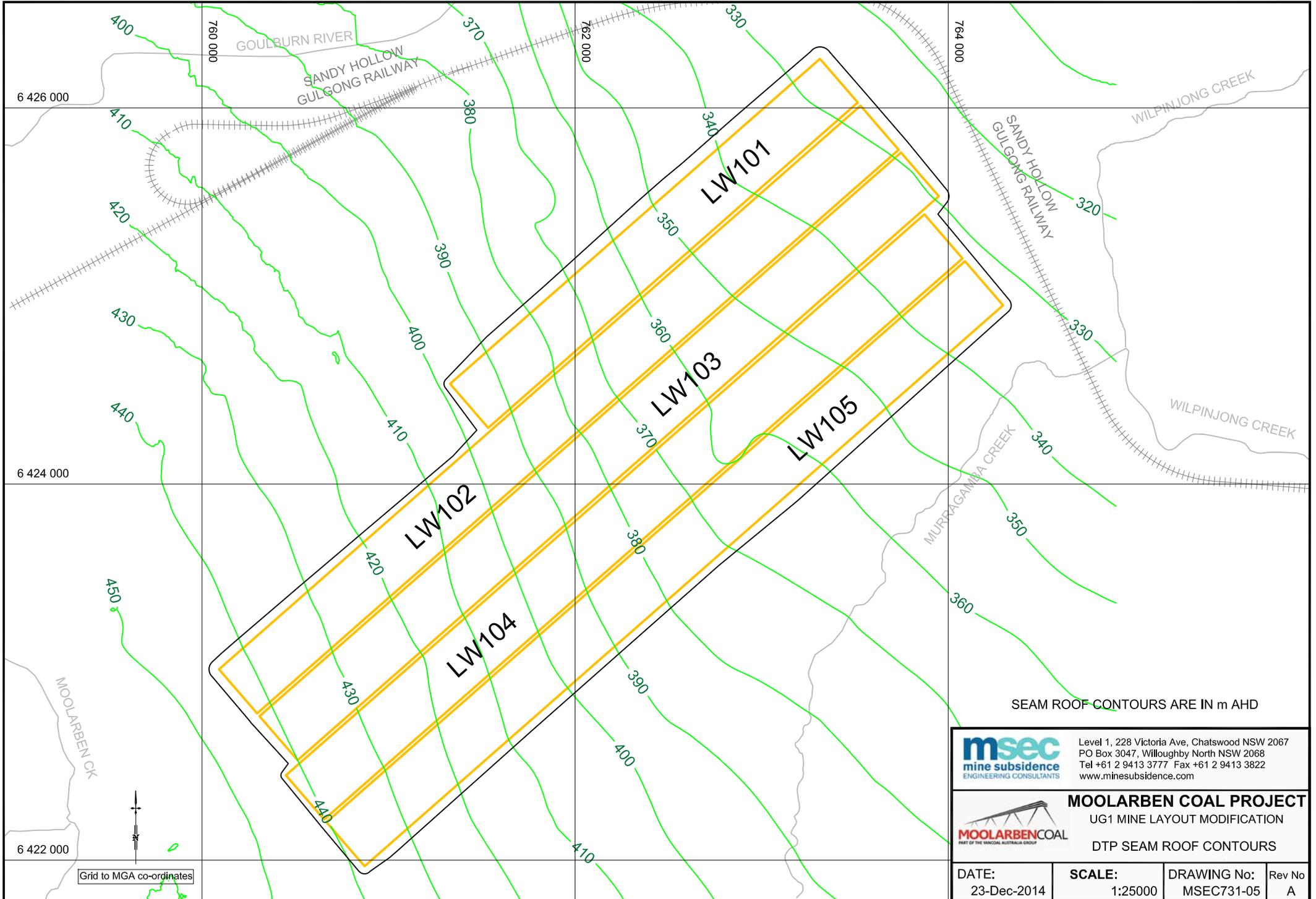
msec
mine subsidence
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MOOLARBEN COAL PROJECT
UG1 MINE LAYOUT MODIFICATION
DWS SEAM FLOOR CONTOURS

DATE: 23-Dec-2014	SCALE: 1:25000	DRAWING No: MSEC731-04	Rev No: A
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SEAM ROOF CONTOURS ARE IN m AHD

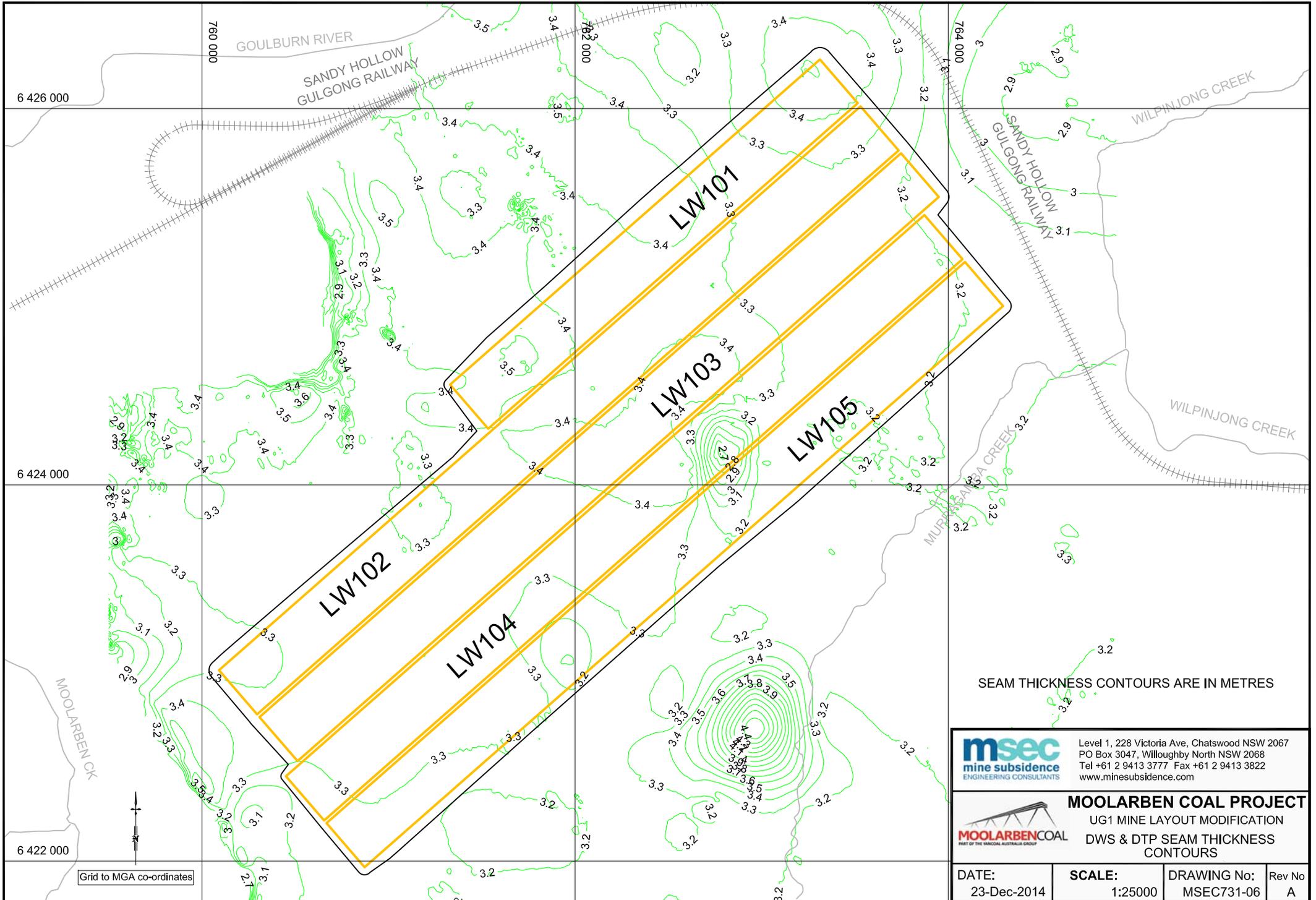


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MOOLARBEN COAL PROJECT
 UG1 MINE LAYOUT MODIFICATION
 DTP SEAM ROOF CONTOURS

DATE: 23-Dec-2014	SCALE: 1:25000	DRAWING No: MSEC731-05	Rev No A
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SEAM THICKNESS CONTOURS ARE IN METRES

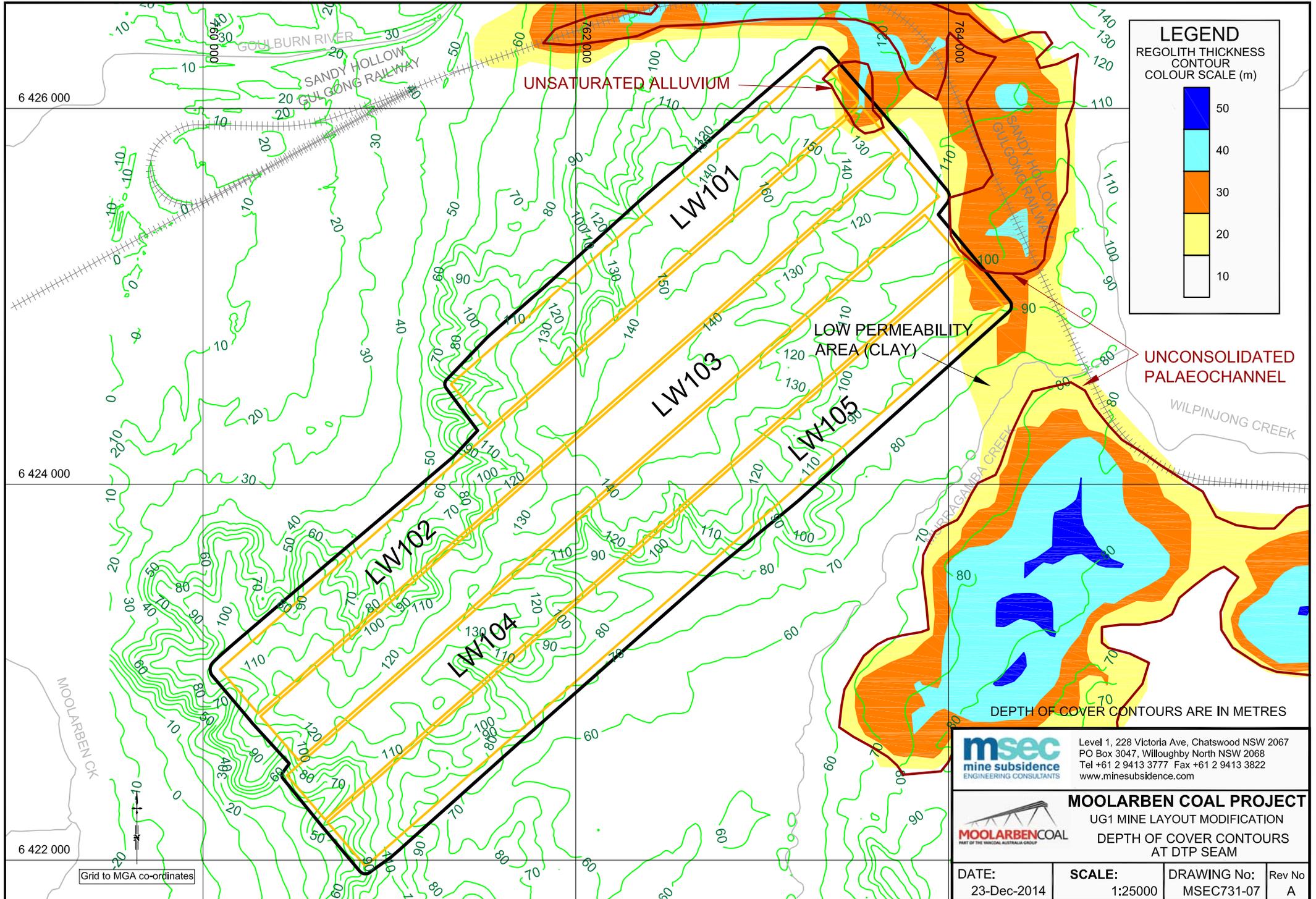
msec
mine subsidence
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MOOLARBEN COAL
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MOOLARBEN COAL PROJECT
UG1 MINE LAYOUT MODIFICATION
DWS & DTP SEAM THICKNESS CONTOURS

DATE: 23-Dec-2014	SCALE: 1:25000	DRAWING No: MSEC731-06	Rev No A
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LEGEND
 REGOLITH THICKNESS
 CONTOUR
 COLOUR SCALE (m)

50
40
30
20
10

DEPTH OF COVER CONTOURS ARE IN METRES

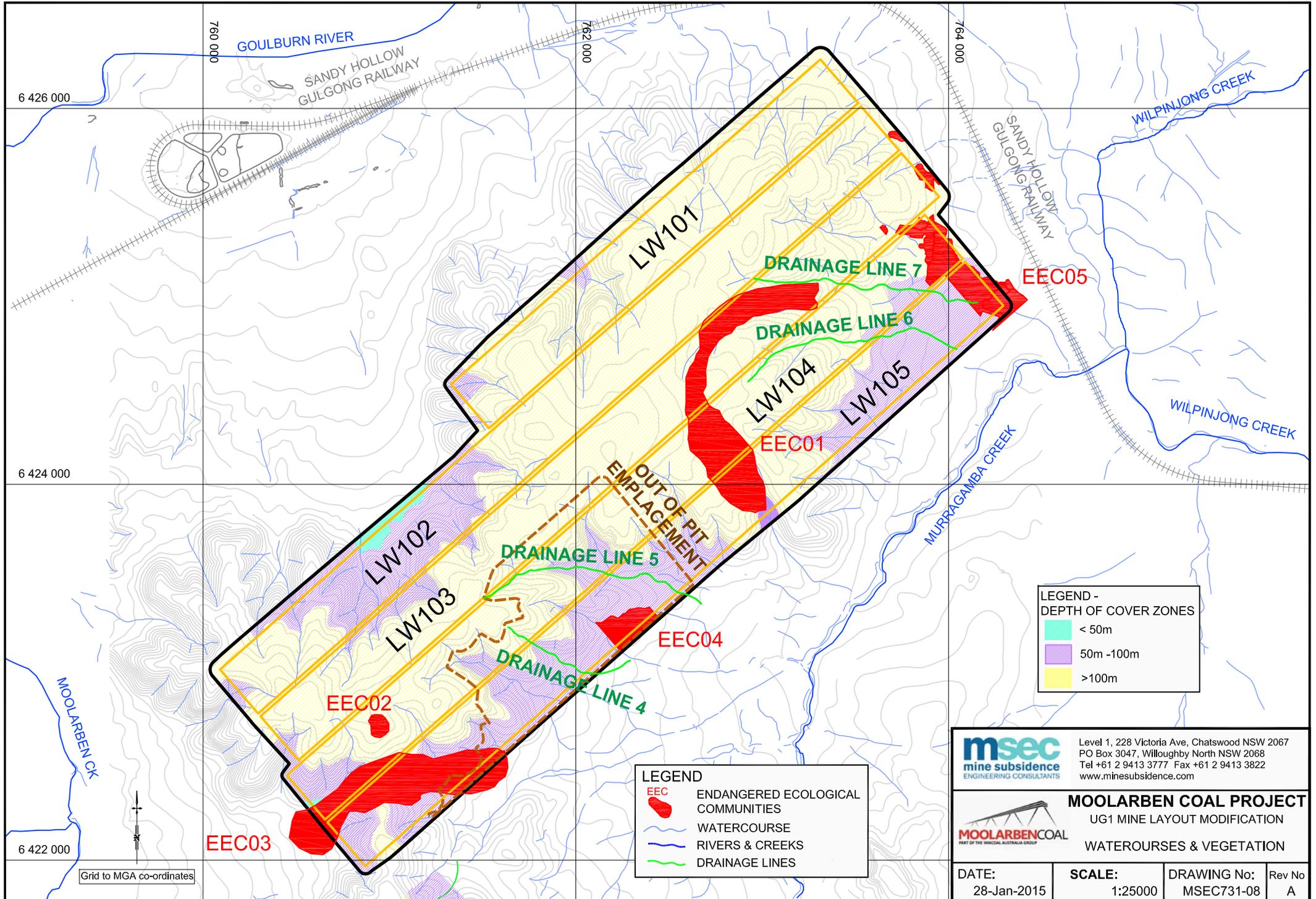
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MOOLARBEN COAL PROJECT
 UG1 MINE LAYOUT MODIFICATION
 DEPTH OF COVER CONTOURS
 AT DTP SEAM

DATE: 23-Dec-2014	SCALE: 1:25000	DRAWING No: MSEC731-07	Rev No: A
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Grid to MGA co-ordinates

FOR DETAIL ON REGOLITH THICKNESS & PALAEOCHANNEL THICKNESS SEE REPORT BY MERRICK (2014)



LEGEND - DEPTH OF COVER ZONES

- < 50m
- 50m -100m
- >100m

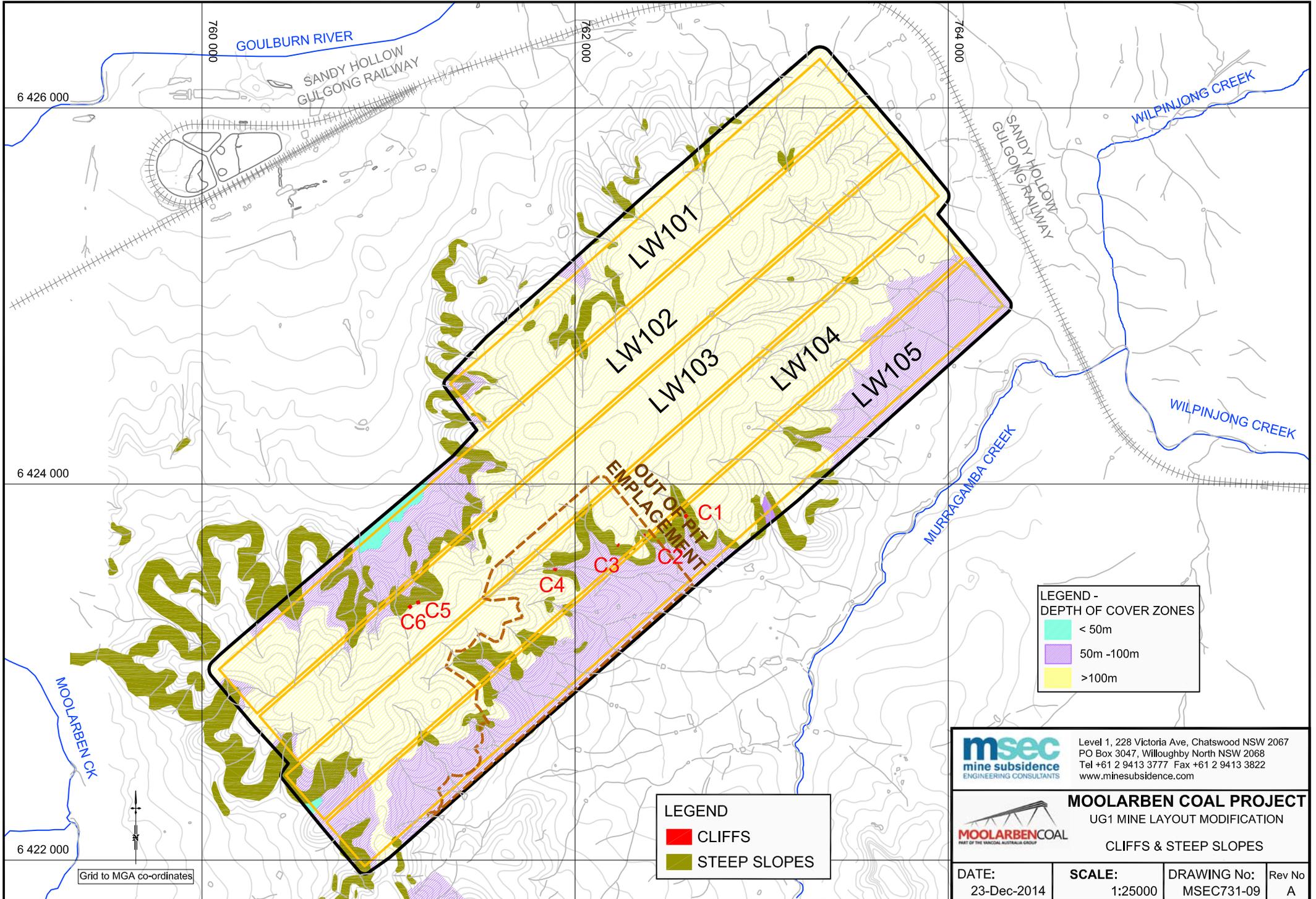
LEGEND

- EEC ENDANGERED ECOLOGICAL COMMUNITIES
- WATERCOURSE
- RIVERS & CREEKS
- DRAINAGE LINES

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MOOLARBEN COAL PROJECT
 UG1 MINE LAYOUT MODIFICATION
 WATERCOURSES & VEGETATION

DATE: 28-Jan-2015	SCALE: 1:25000	DRAWING No: MSEC731-08	Rev No: A
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**LEGEND -
DEPTH OF COVER ZONES**

- < 50m
- 50m -100m
- >100m

LEGEND

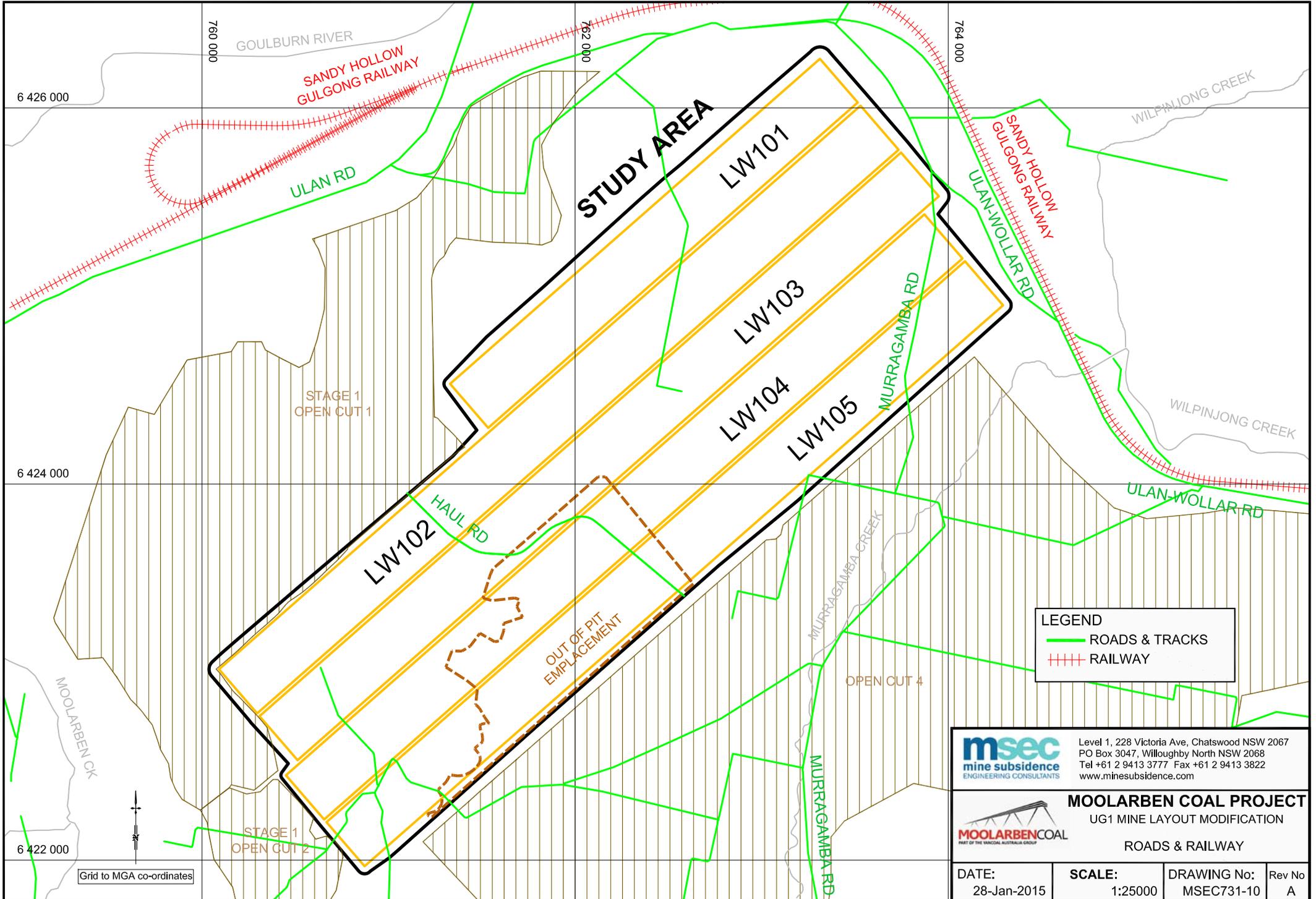
- CLIFFS
- STEEP SLOPES

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MOOLARBEN COAL PROJECT
 UG1 MINE LAYOUT MODIFICATION
MOOLARBEN COAL PART OF THE VANTACOL AUSTRALIA GROUP
 CLIFFS & STEEP SLOPES

DATE: 23-Dec-2014	SCALE: 1:25000	DRAWING No: MSEC731-09	Rev No A
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Grid to MGA co-ordinates



LEGEND

- ROADS & TRACKS
- + + + RAILWAY

msec
mine subsidence
 ENGINEERING CONSULTANTS

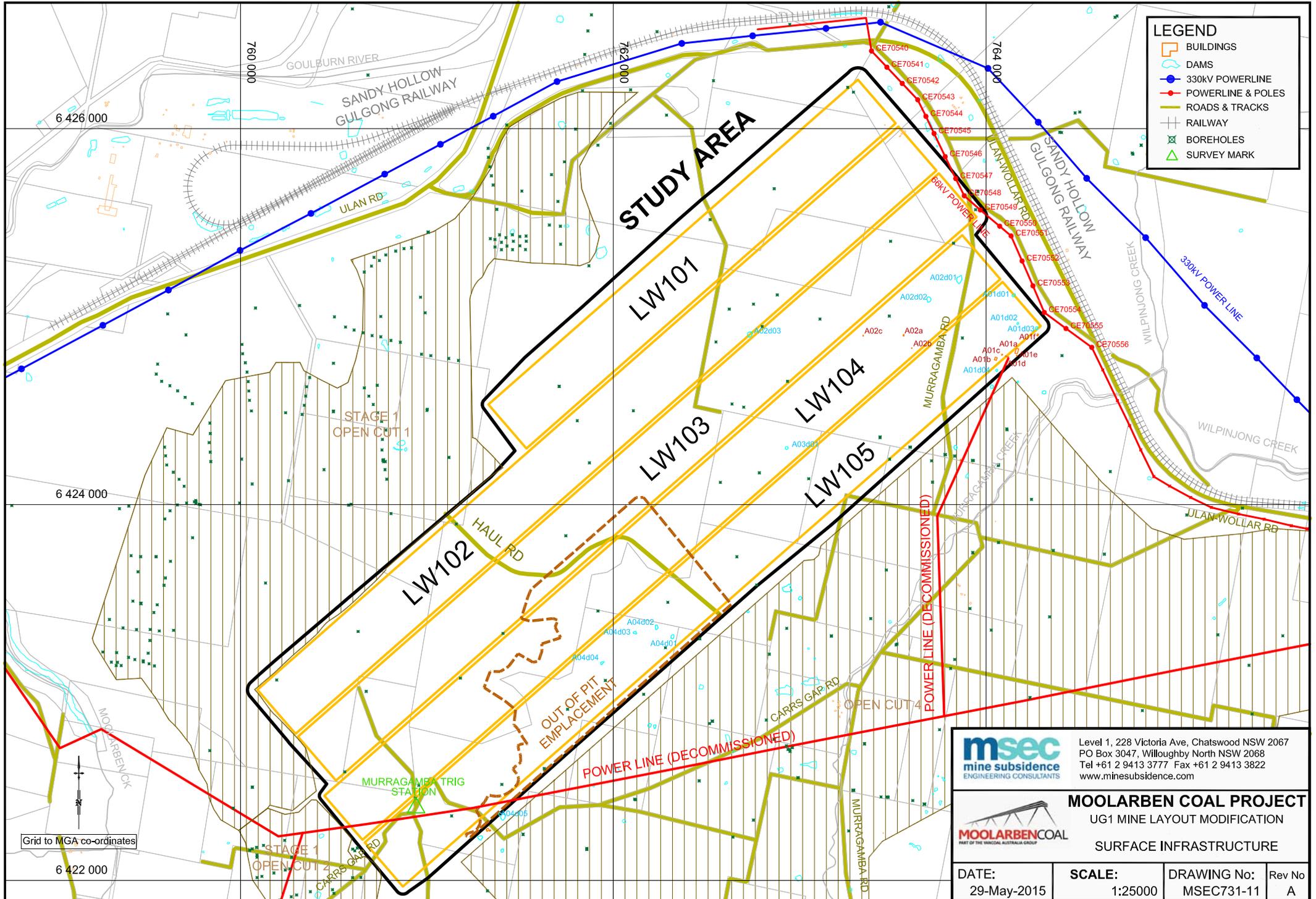
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MOOLARBEN COAL PROJECT
 UG1 MINE LAYOUT MODIFICATION

MOOLARBEN COAL
 PART OF THE VANTACO AUSTRALIA GROUP

ROADS & RAILWAY

DATE: 28-Jan-2015	SCALE: 1:25000	DRAWING No: MSEC731-10	Rev No A
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LEGEND

- BUILDINGS
- DAMS
- 330kV POWERLINE
- POWERLINE & POLES
- ROADS & TRACKS
- RAILWAY
- BOREHOLES
- SURVEY MARK

msec
mine subsidence
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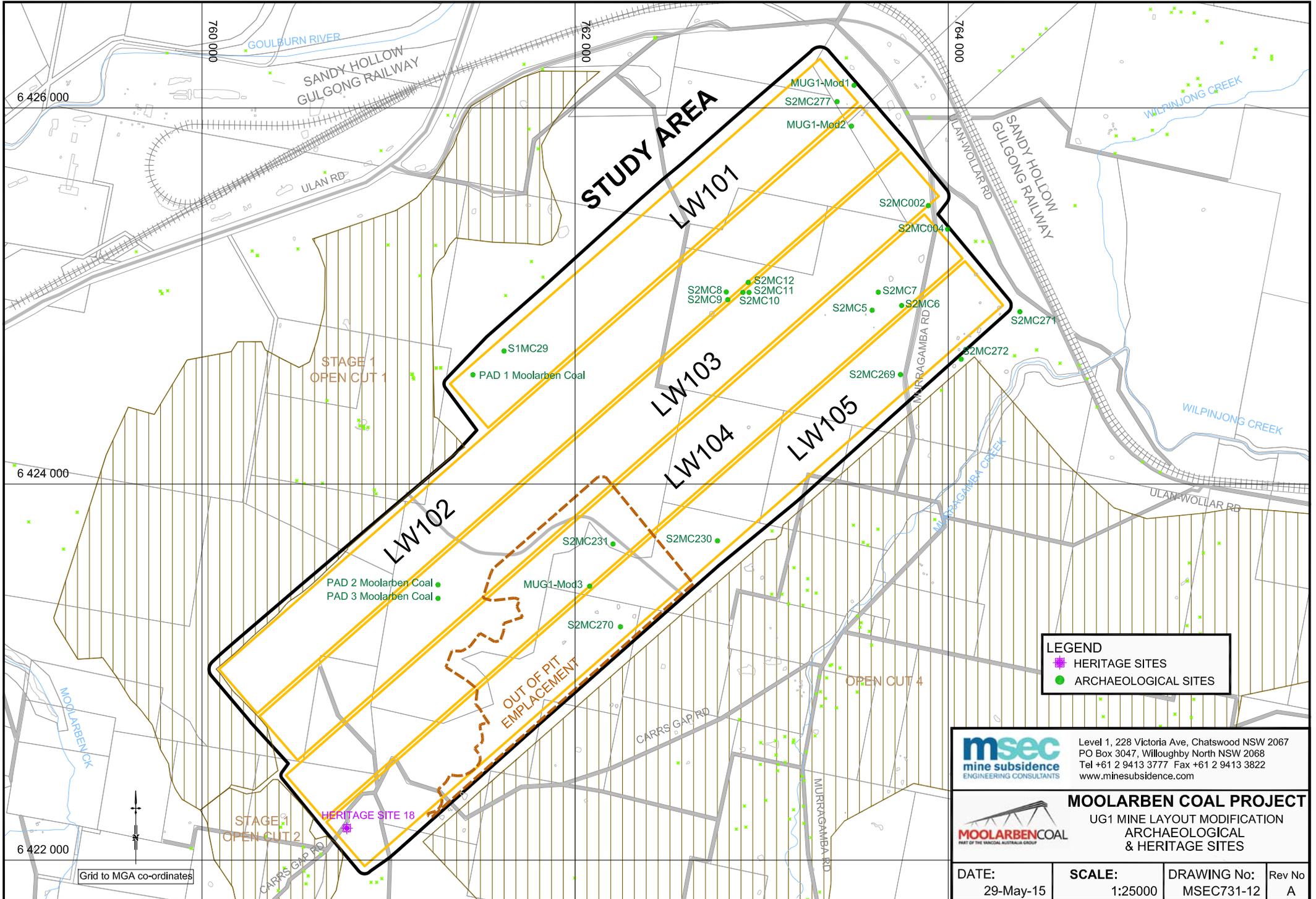
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MOOLARBEN COAL PROJECT
UG1 MINE LAYOUT MODIFICATION
SURFACE INFRASTRUCTURE

MOOLARBEN COAL
PART OF THE VANTACO AUSTRALIA GROUP

DATE: 29-May-2015	SCALE: 1:25000	DRAWING No: MSEC731-11	Rev No: A
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Grid to MGA co-ordinates



LEGEND

- HERITAGE SITES
- ARCHAEOLOGICAL SITES

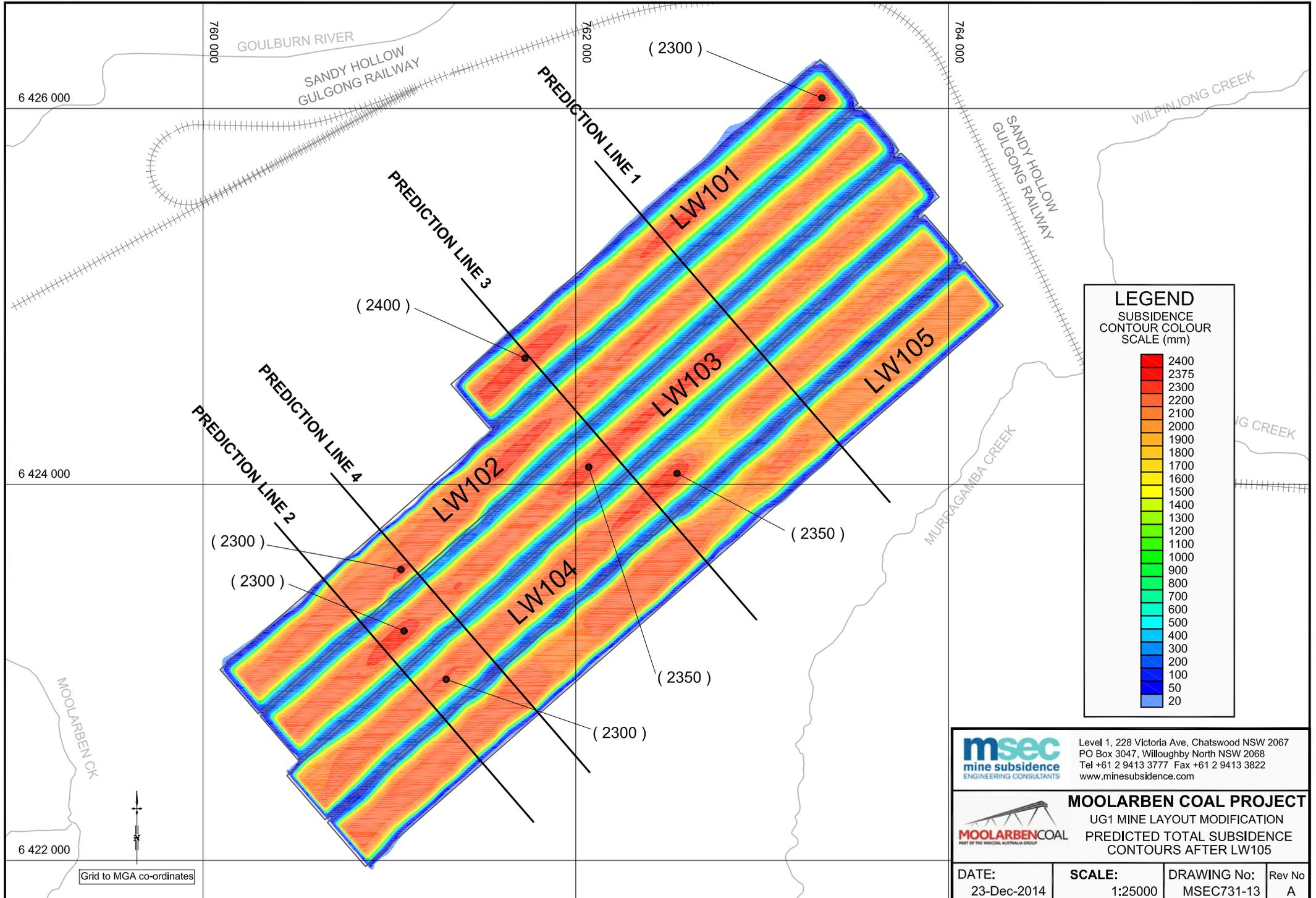
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MOOLARBEN COAL PROJECT
 UG1 MINE LAYOUT MODIFICATION
 ARCHAEOLOGICAL
 & HERITAGE SITES

DATE: 29-May-15	SCALE: 1:25000	DRAWING No: MSEC731-12	Rev No: A
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LEGEND
 SUBSIDENCE
 CONTOUR COLOUR
 SCALE (mm)

2400
2375
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
50
20

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MOOLARBEN COAL PROJECT
 UG1 MINE LAYOUT MODIFICATION
 PREDICTED TOTAL SUBSIDENCE
 CONTOURS AFTER LW105

DATE: 23-Dec-2014	SCALE: 1:25000	DRAWING No: MSEC731-13	Rev No: A
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