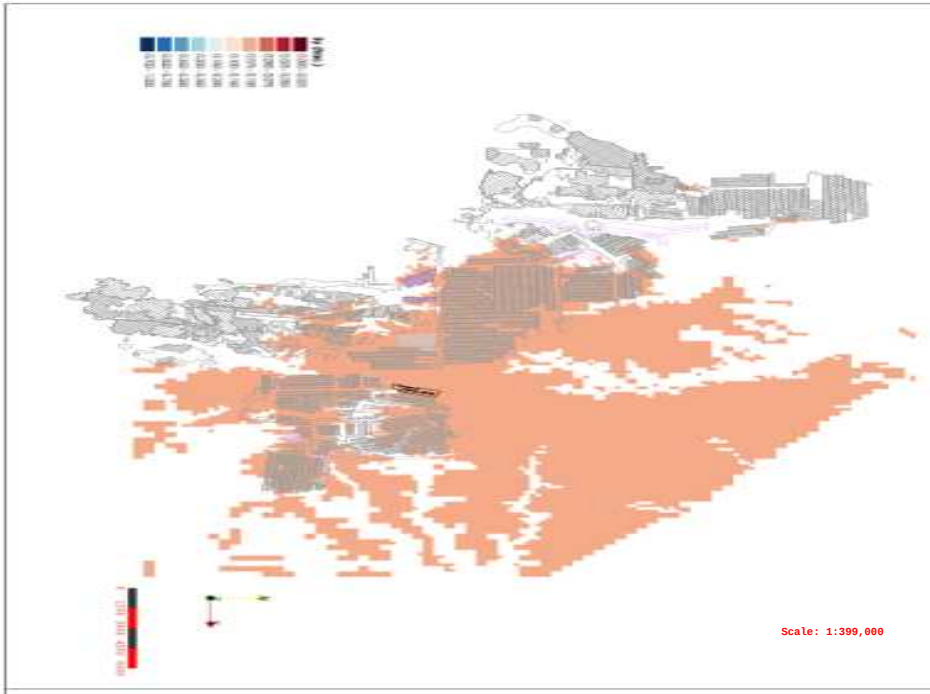
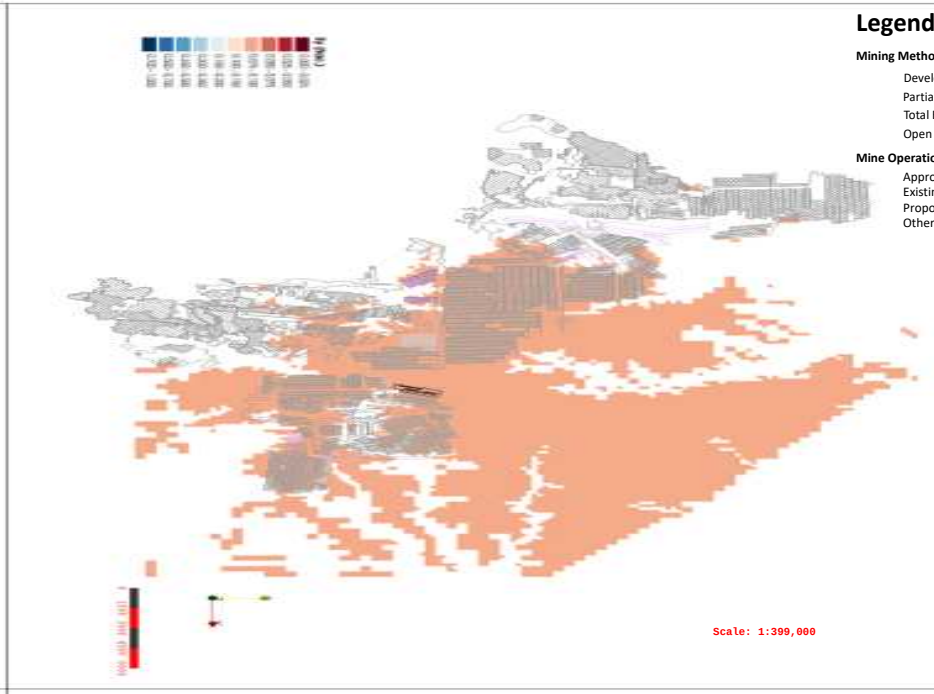
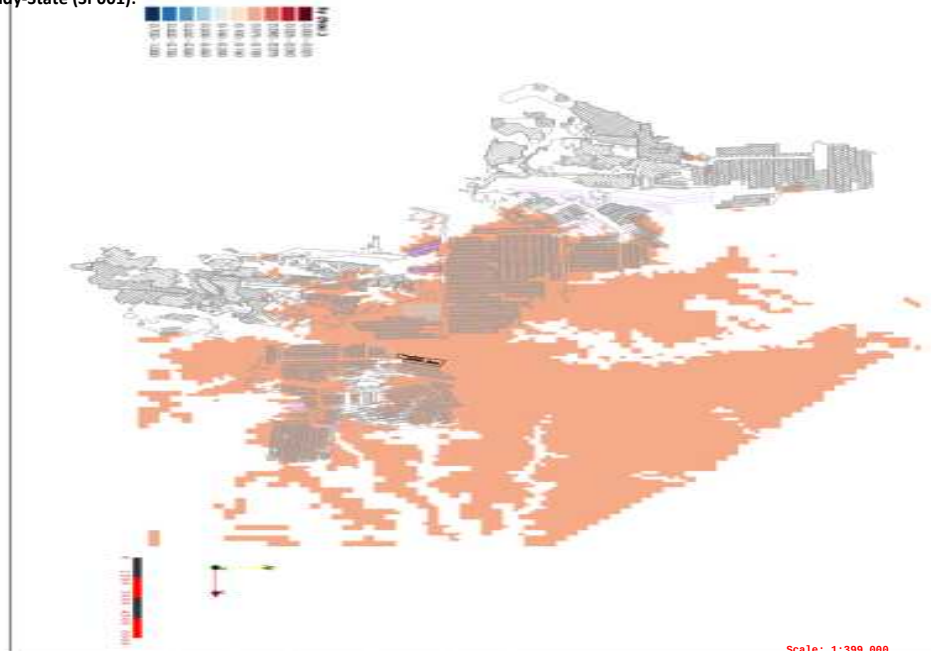


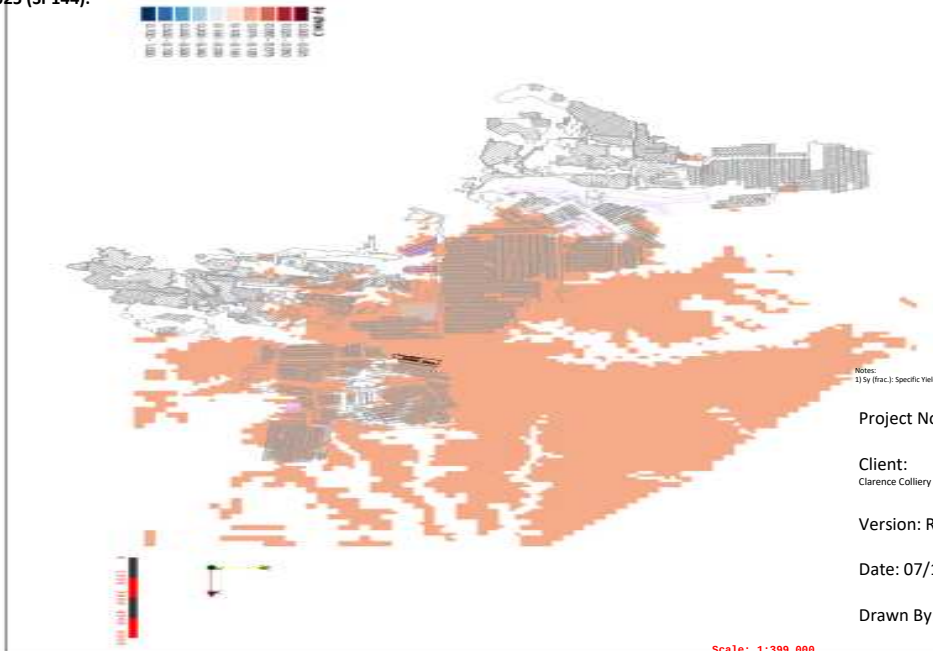
Steady-State (SP001):



September 2025 (SP144):



September 2026 (SP148):



December 2049 (SP241):

Legend

Mining Methods:

- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:

- Approved
- Existing
- Proposed
- Other Proposed

Notes:
1) Sy (frac.): Specific Yield (frac.).

Project No: 68229

Client:
Clarence Colliery Pty Ltd

Version: R01RevA

Date: 07/11/2025

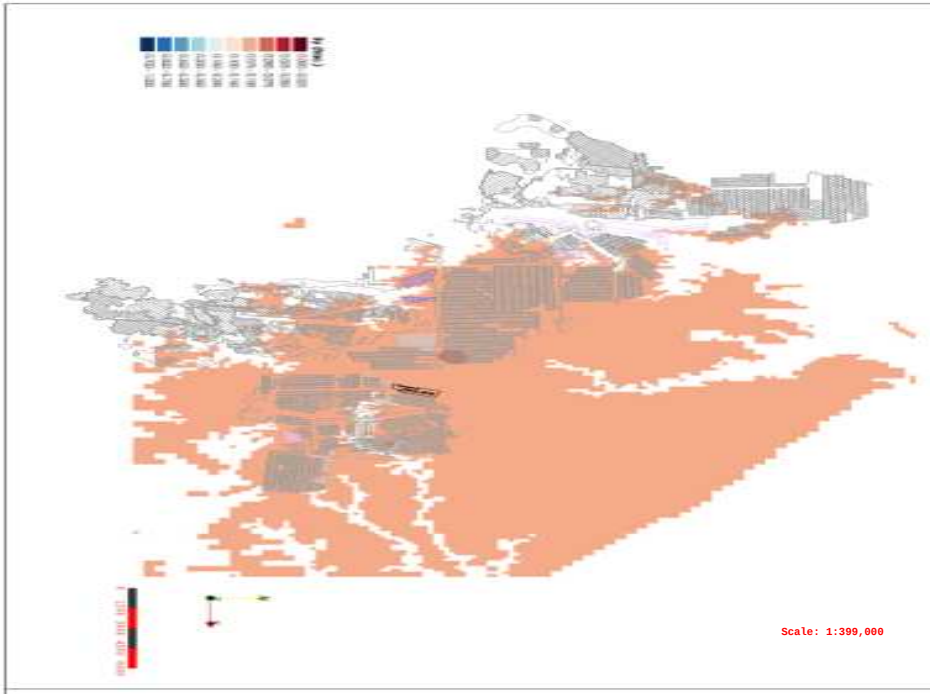
Drawn By: DAW

Checked By: JRWB

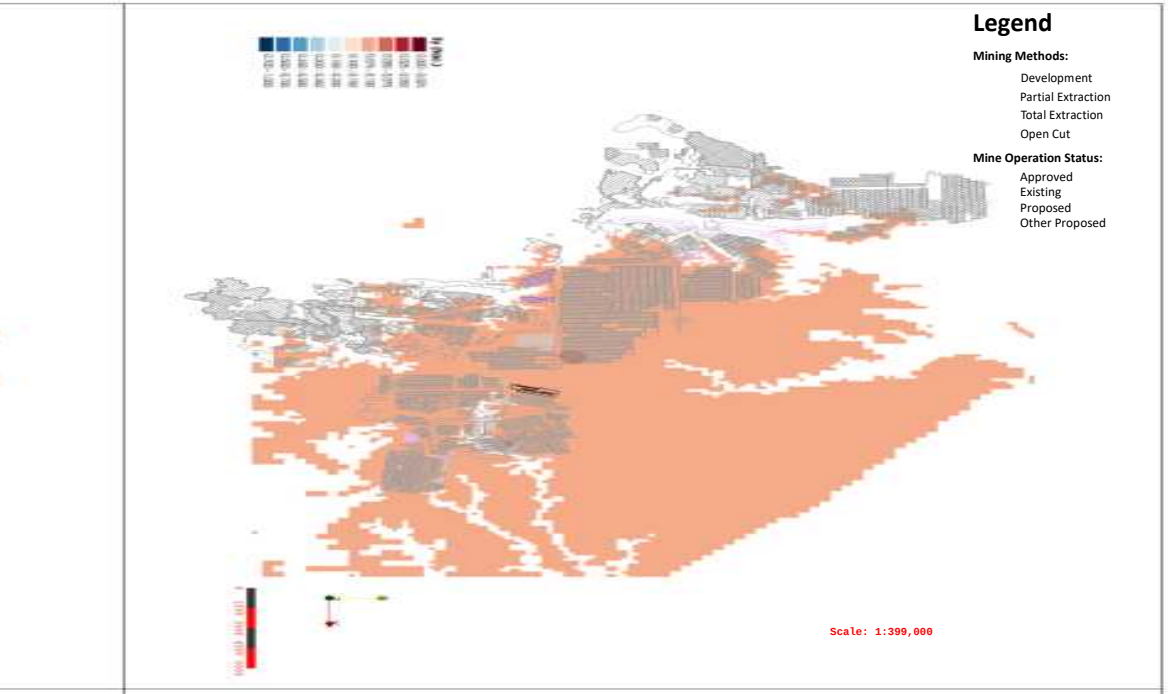
File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EPI\Figures\Grapher\68229_R01RevA_D059_Plan_Sy\68229_R01RevA_D059_Plan_Sy_L13.grf

Reference: 68229_R01RevA_PRO_02a

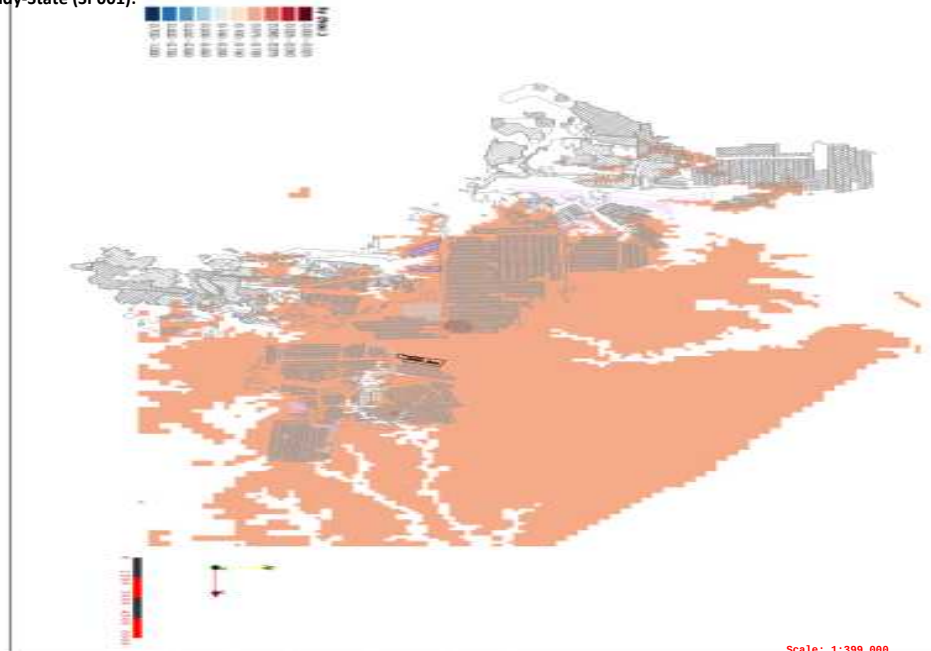
Figure E1d-13: Modelled Specific Yield (frac.) - Layer 13



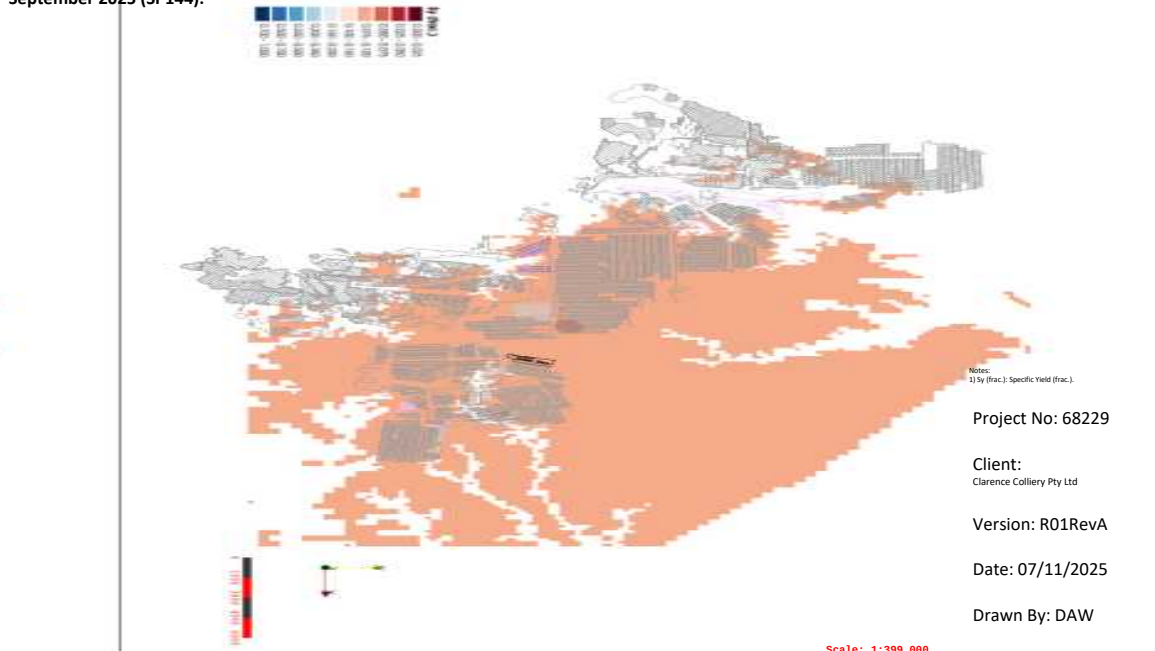
Steady-State (SP001):



September 2025 (SP144):



September 2026 (SP148):



December 2049 (SP241):

Legend

Mining Methods:

- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:

- Approved
- Existing
- Proposed
- Other Proposed

Notes:
1) Sy (frac.): Specific Yield (frac.).

Project No: 68229

Client:
Clarence Colliery Pty Ltd

Version: R01RevA

Date: 07/11/2025

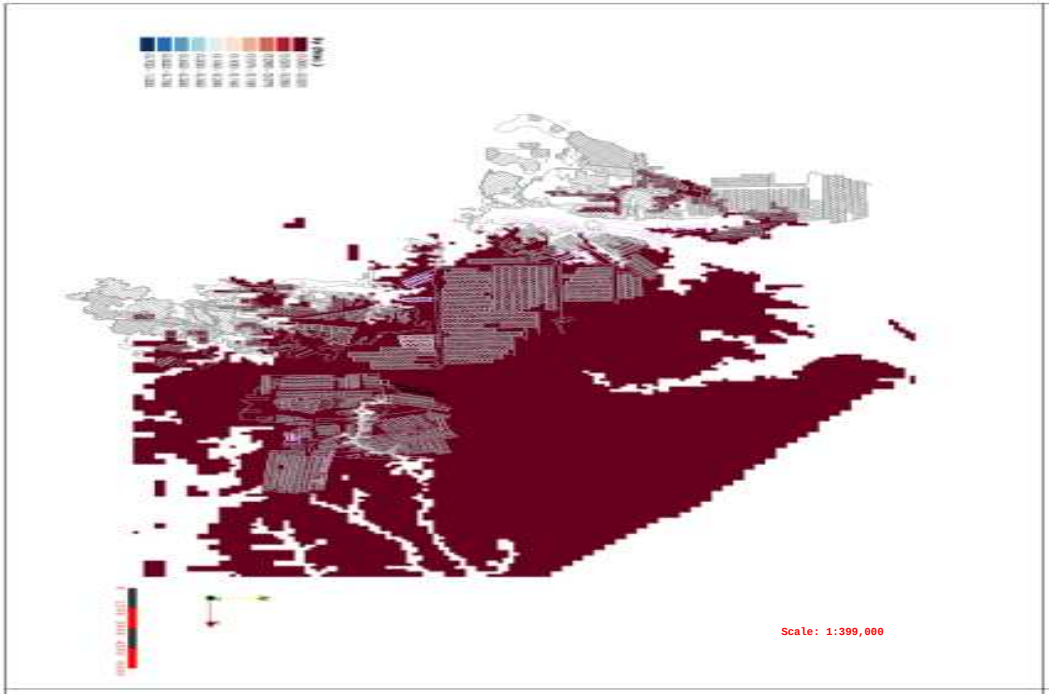
Drawn By: DAW

Checked By: JRWB

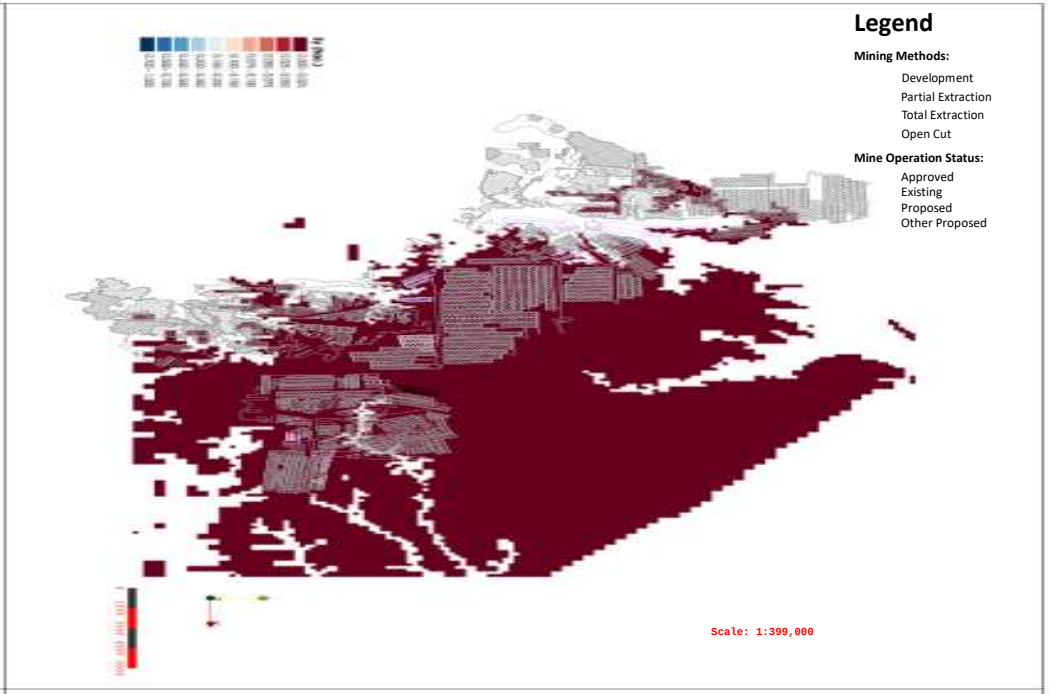
File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EPI\Figures\Grapher\68229_R01RevA_D059_Plan_Sy\68229_R01RevA_D059_Plan_Sy_L14.grf

Reference: 68229_R01RevA_PRO_02a

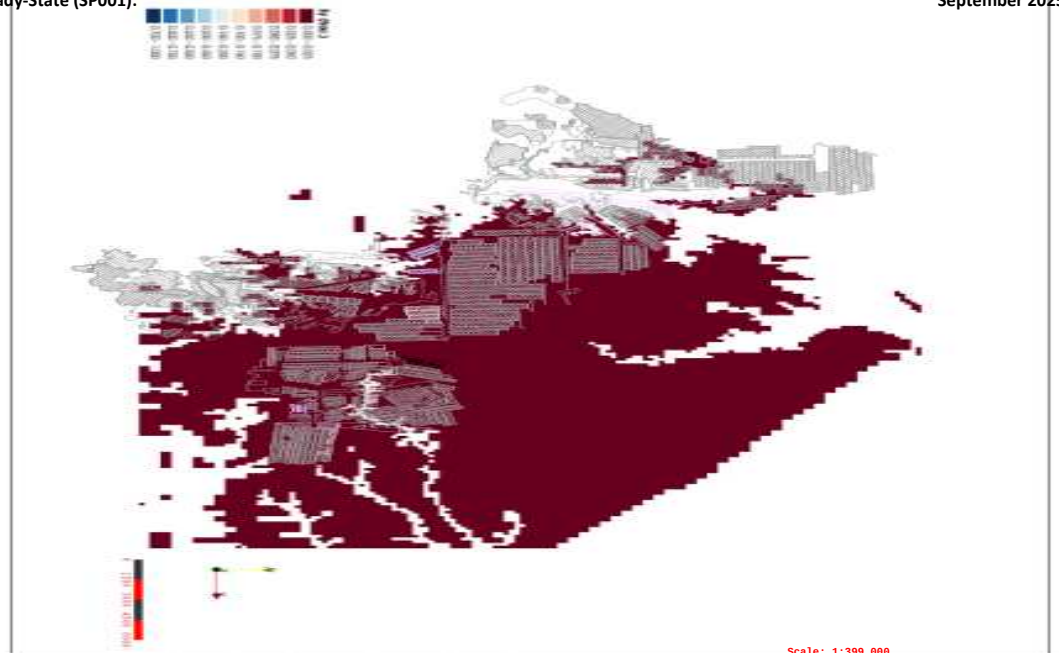
Figure E1d-14: Modelled Specific Yield (frac.) - Layer 14



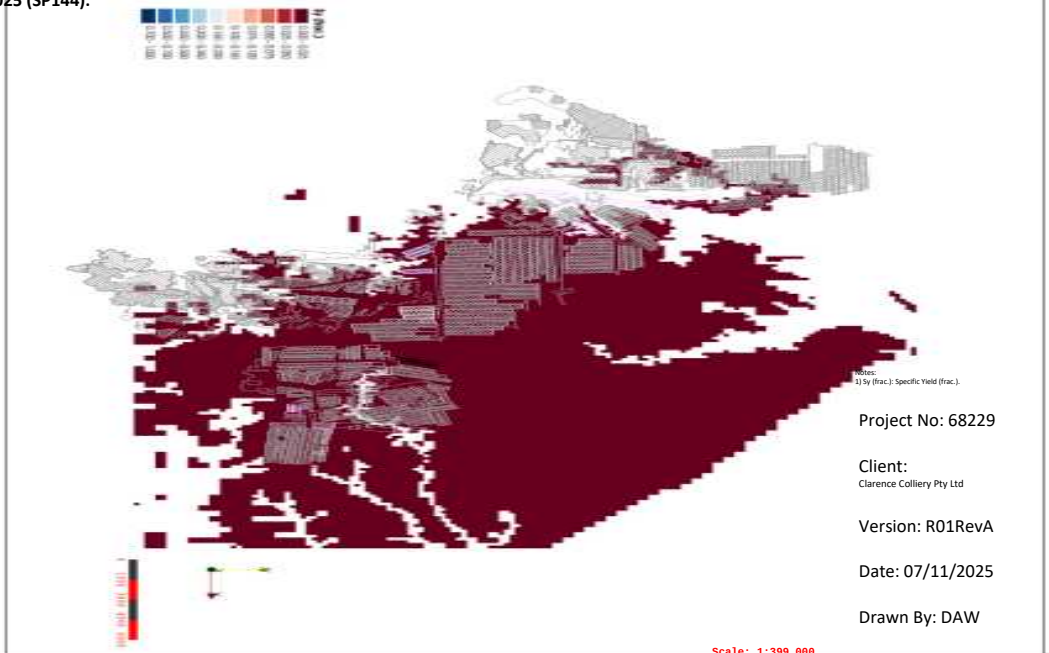
Steady-State (SP001):



September 2025 (SP144):



September 2026 (SP148):



December 2049 (SP241):

Project No: 68229

Client:
Clarence Colliery Pty Ltd

Version: R01RevA

Date: 07/11/2025

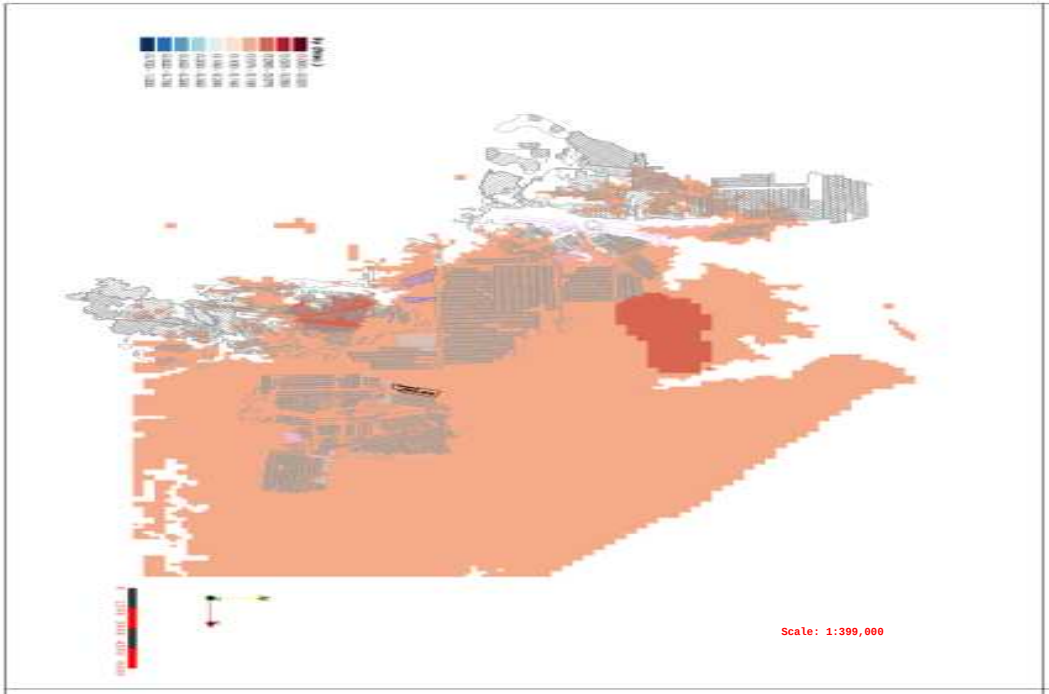
Drawn By: DAW

Checked By: JRWB

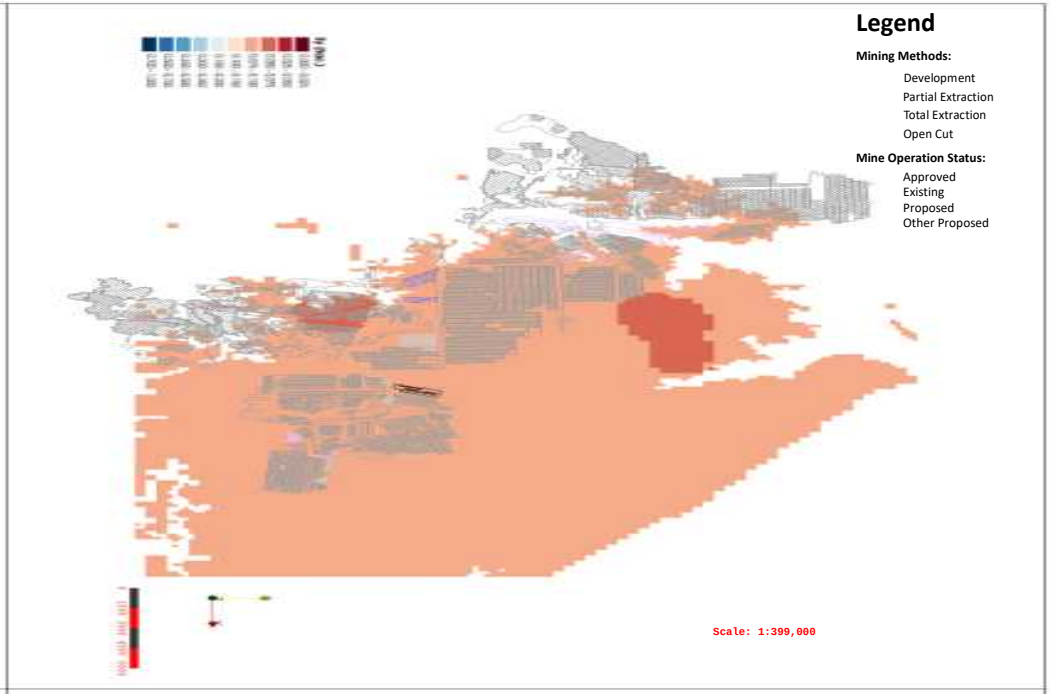
File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EPI\Figures\Grapher\68229_R01RevA_D059_Plan_Sy\68229_R01RevA_D059_Plan_Sy_L15.grf

Reference: 68229_R01RevA_PRO_02a

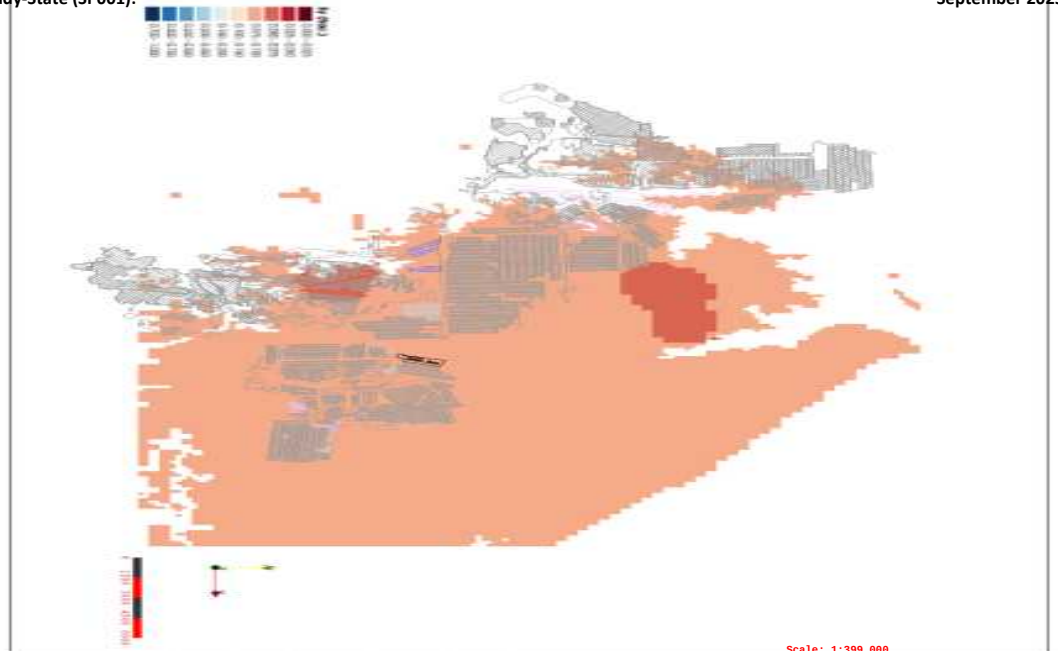
Figure E1d-15: Modelled Specific Yield (frac.) - Layer 15



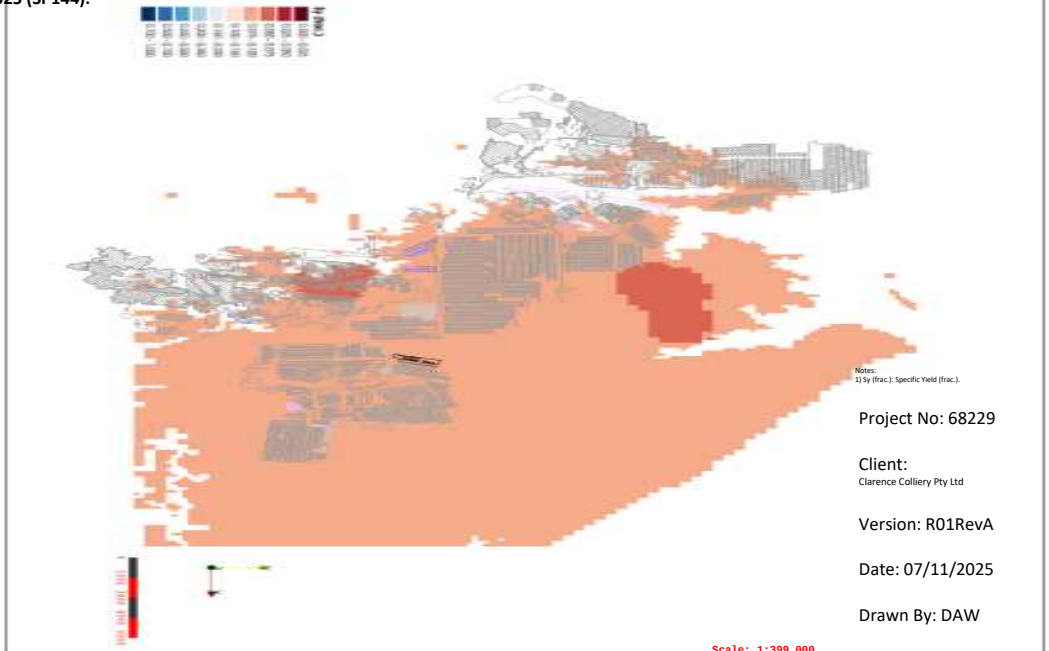
Steady-State (SP001):



September 2025 (SP144):



September 2026 (SP148):



December 2049 (SP241):

Project No: 68229

Client:
Clarence Colliery Pty Ltd

Version: R01RevA

Date: 07/11/2025

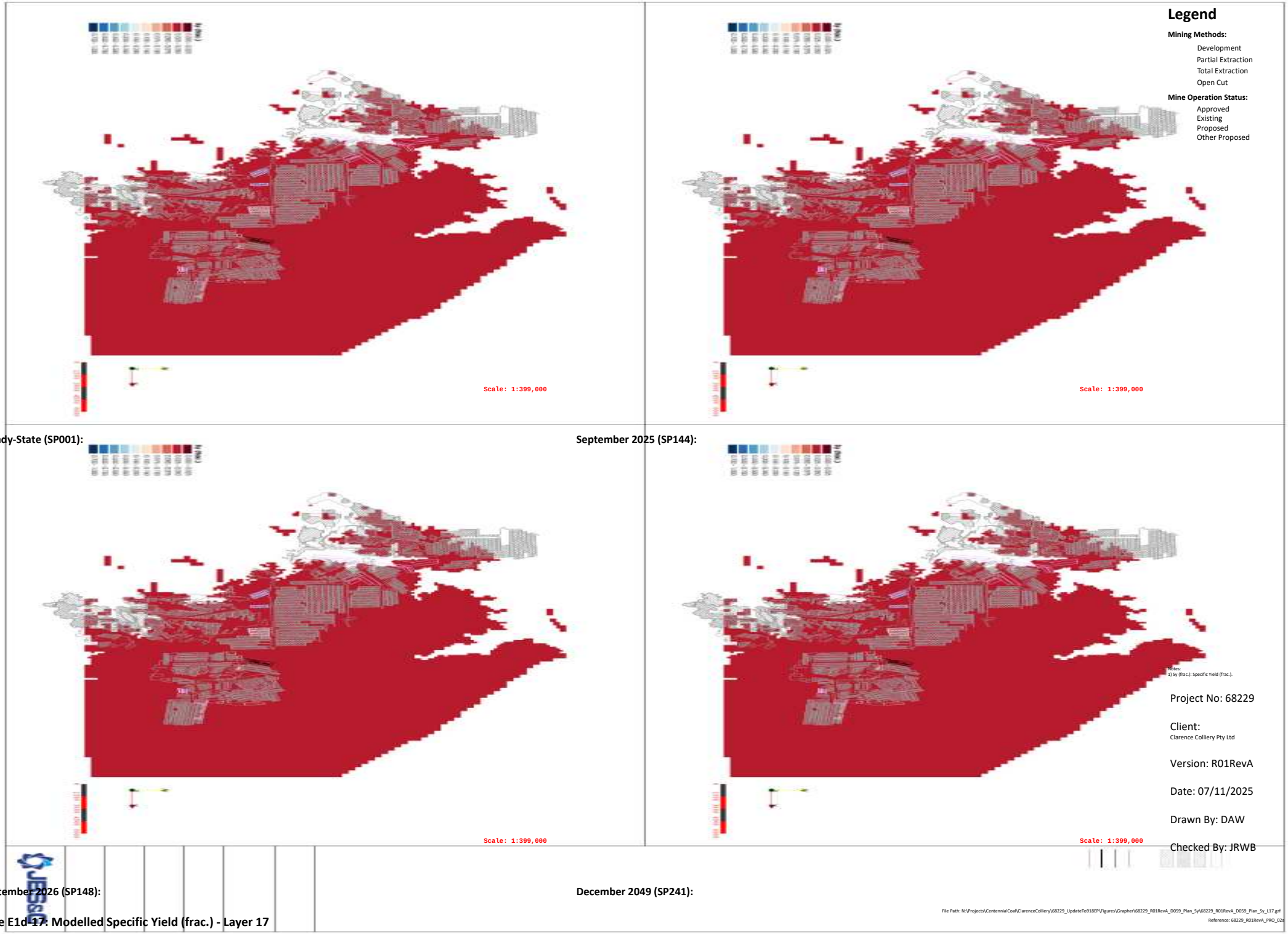
Drawn By: DAW

Checked By: JRWB

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EPI\Figures\Grapher\68229_R01RevA_D059_Plan_Sy\68229_R01RevA_D059_Plan_Sy_L16.grf

Reference: 68229_R01RevA_PRO_02a

Figure E1d-16: Modelled Specific Yield (frac.) - Layer 16



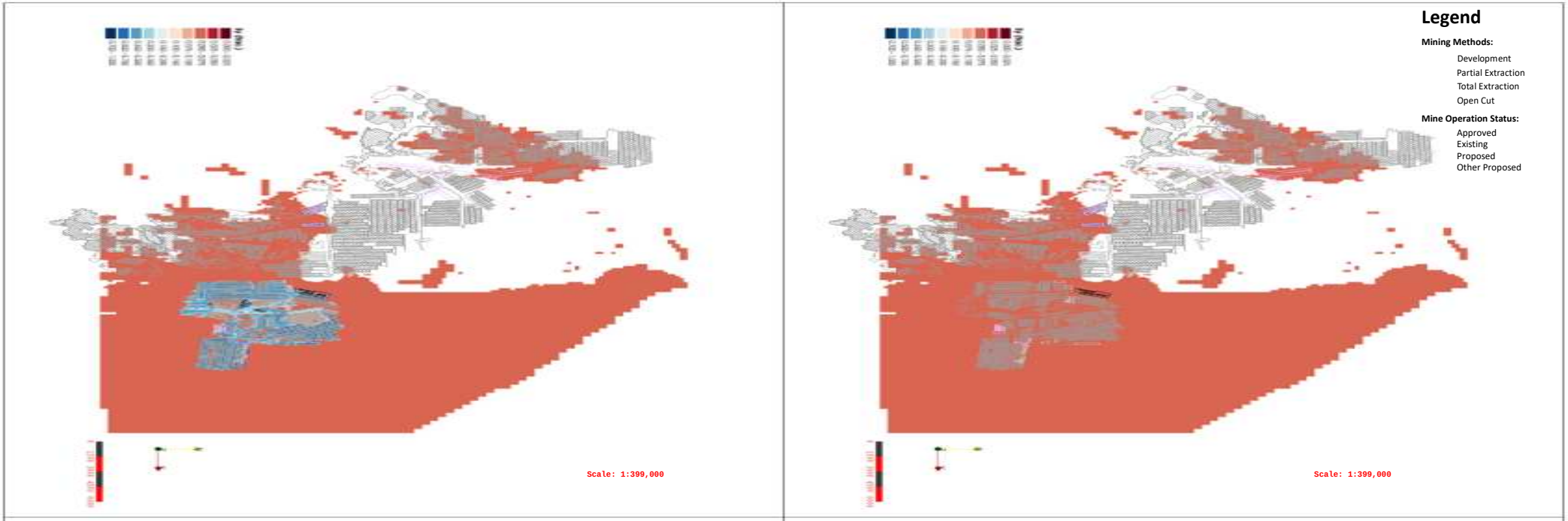
Steady-State (SP001):

September 2025 (SP144):

September 2026 (SP148):

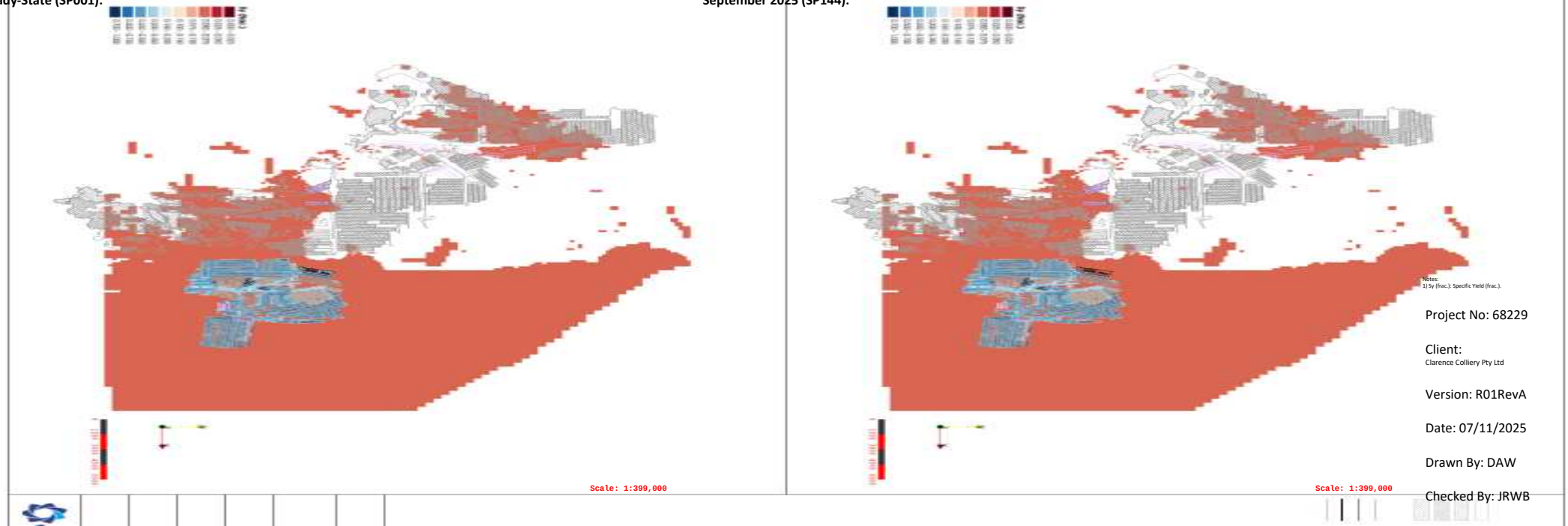
December 2049 (SP241):

Figure E1d-17: Modelled Specific Yield (frac.) - Layer 17



Steady-State (SP001):

September 2025 (SP144):

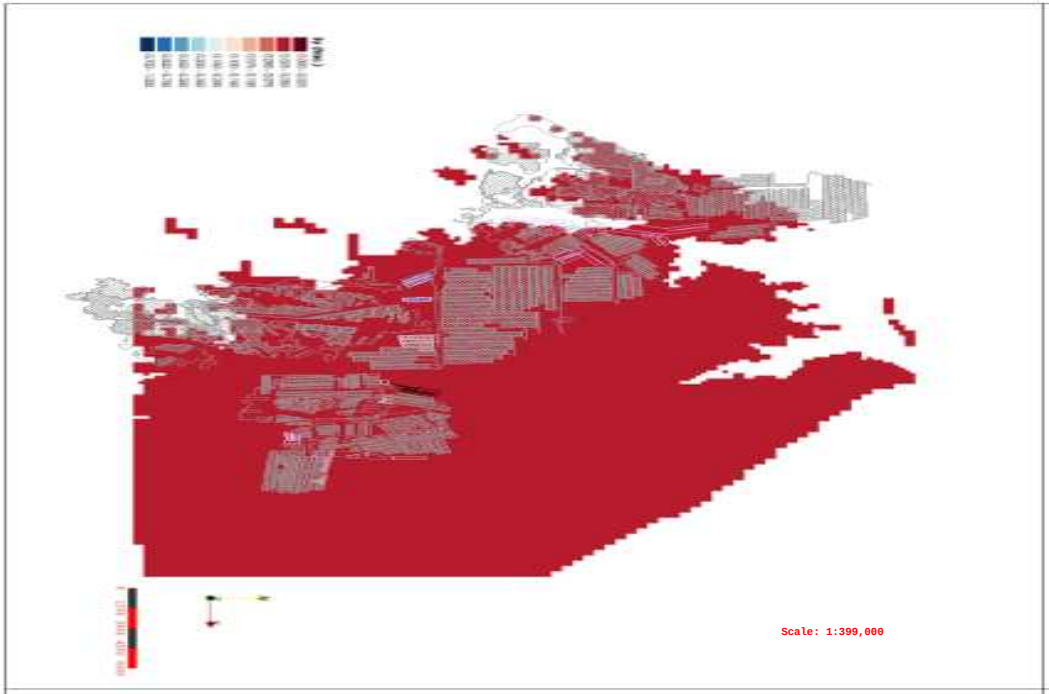


September 2026 (SP148):

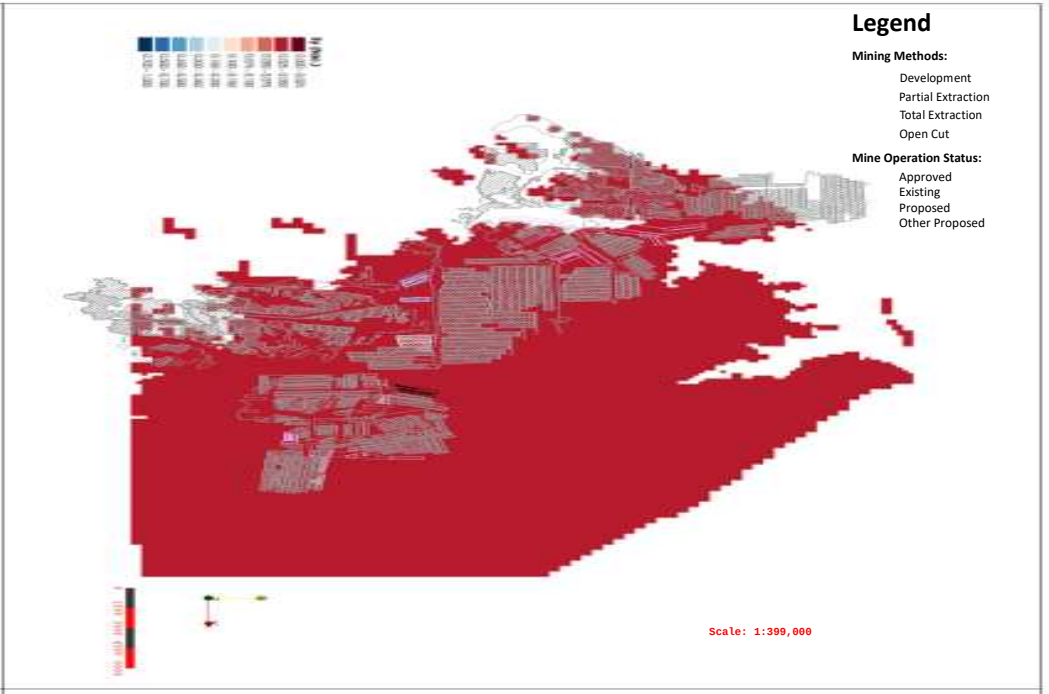
December 2049 (SP241):

Figure E1d-18: Modelled Specific Yield (frac.) - Layer 18

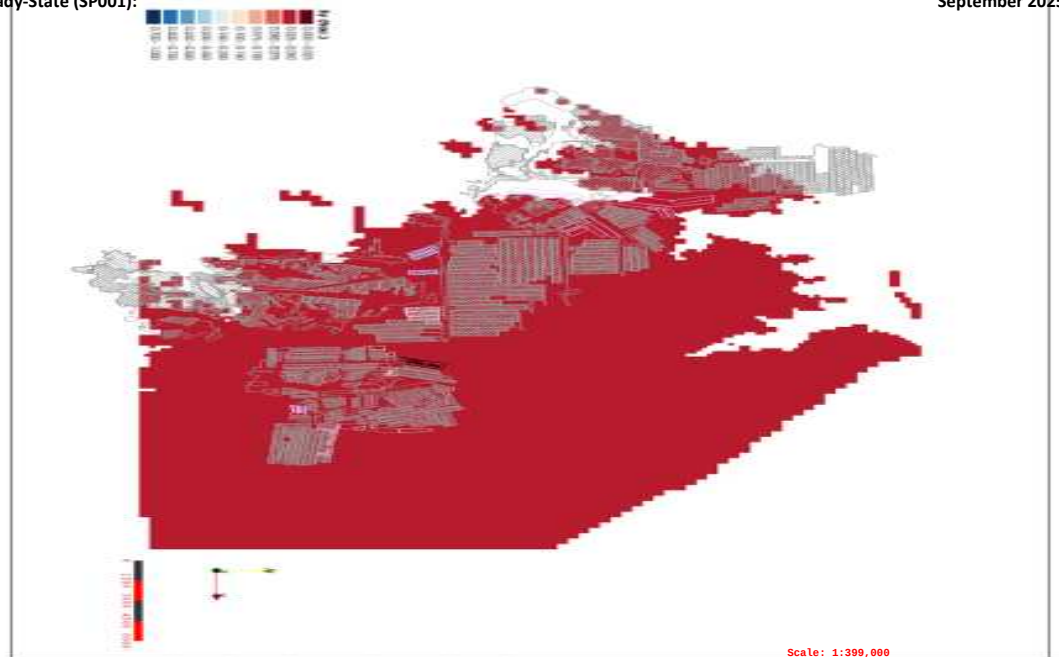
File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EPI\Figures\Grapher\68229_R01RevA_D059_Plan_Sy\68229_R01RevA_D059_Plan_Sy_L18.grf
Reference: 68229_R01RevA_PRO_02a



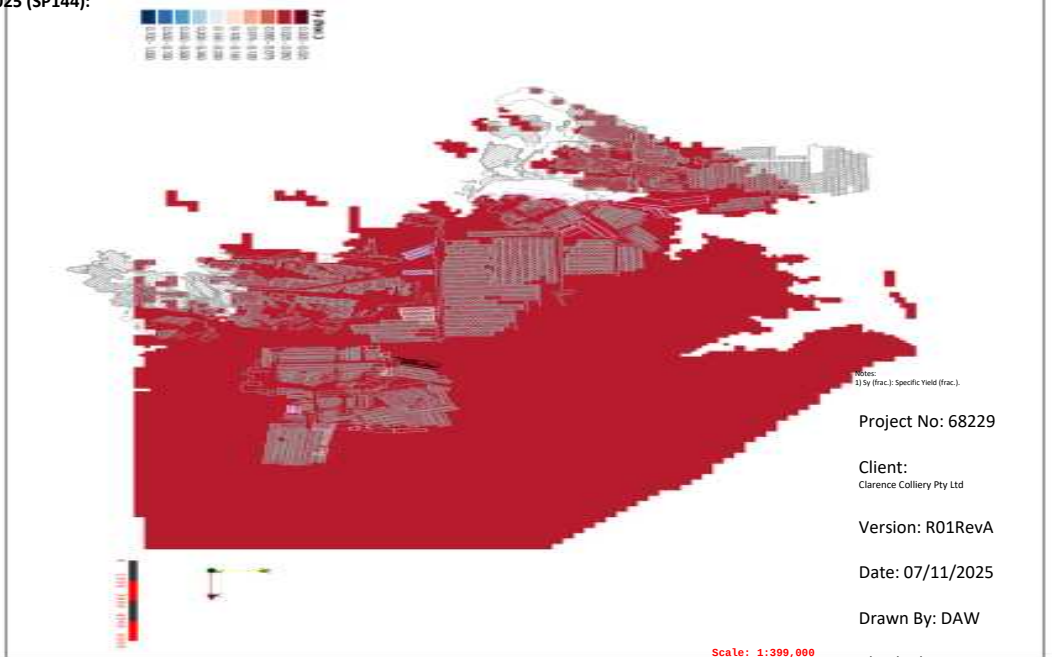
Steady-State (SP001):



September 2025 (SP144):



September 2026 (SP148):



December 2049 (SP241):

Legend

Mining Methods:

- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:

- Approved
- Existing
- Proposed
- Other Proposed

Notes:
1) Sy (frac.): Specific Yield (frac.).

Project No: 68229

Client:
Clarence Colliery Pty Ltd

Version: R01RevA

Date: 07/11/2025

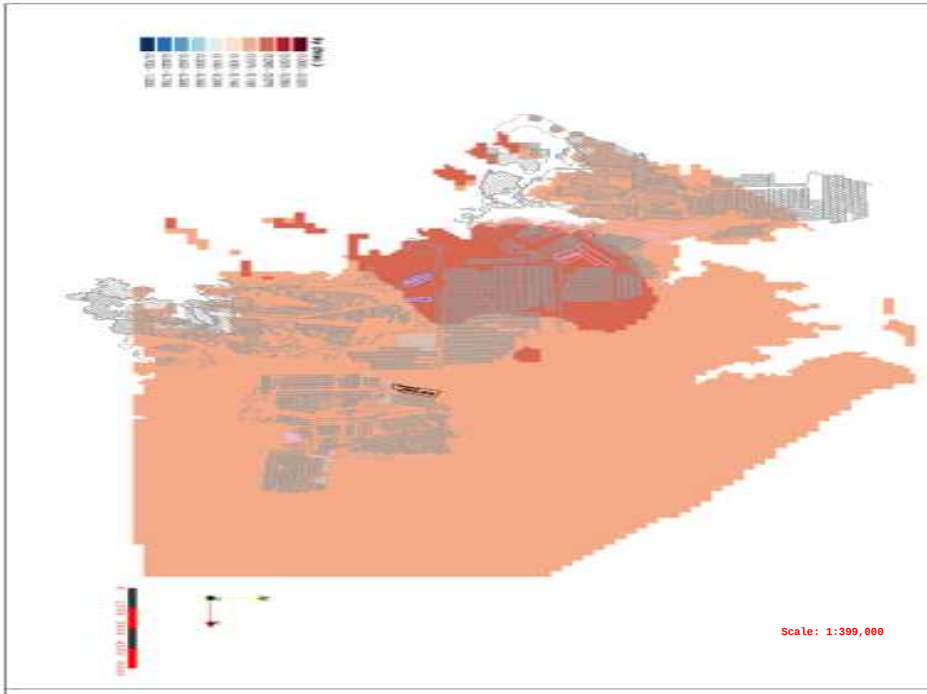
Drawn By: DAW

Checked By: JRWB

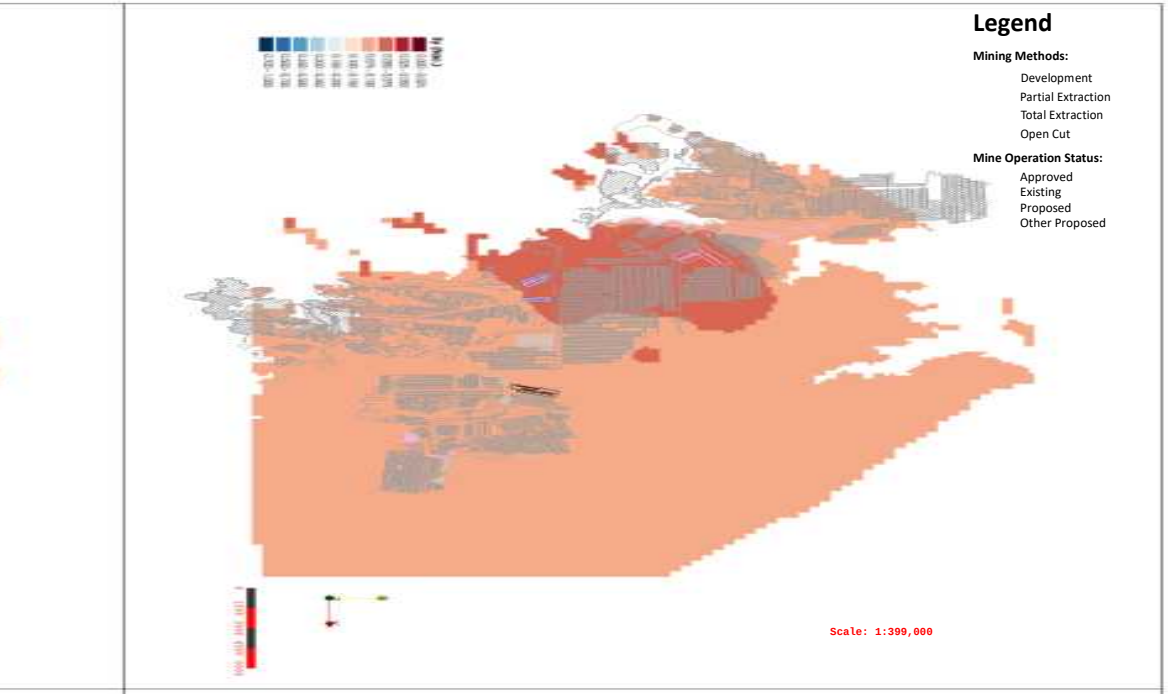
File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EPI\Figures\Grapher\68229_R01RevA_D059_Plan_Sy\68229_R01RevA_D059_Plan_Sy_L19.grf

Reference: 68229_R01RevA_PRO_02a

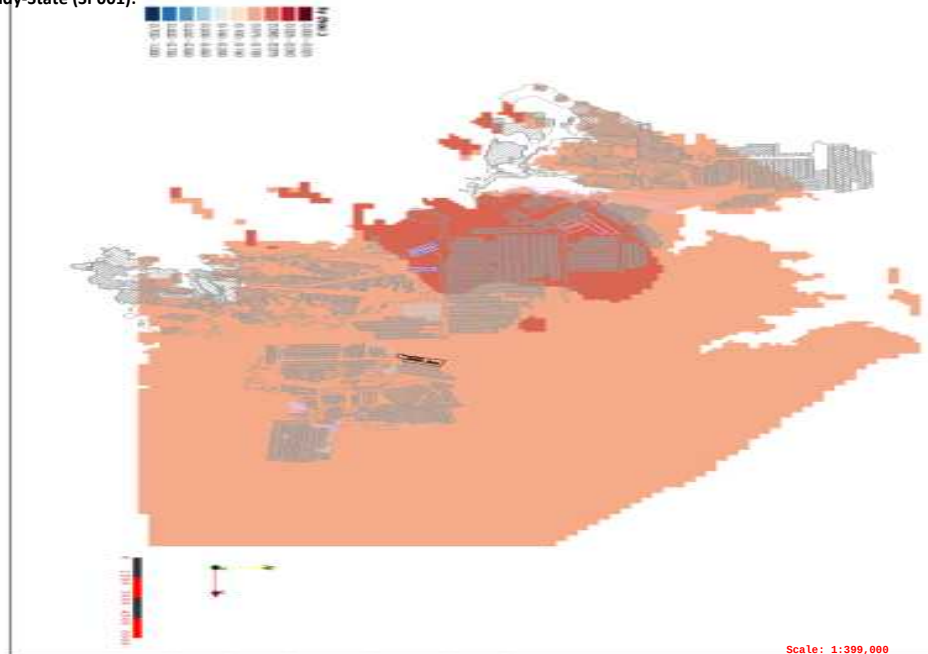
Figure E1d-19: Modelled Specific Yield (frac.) - Layer 19



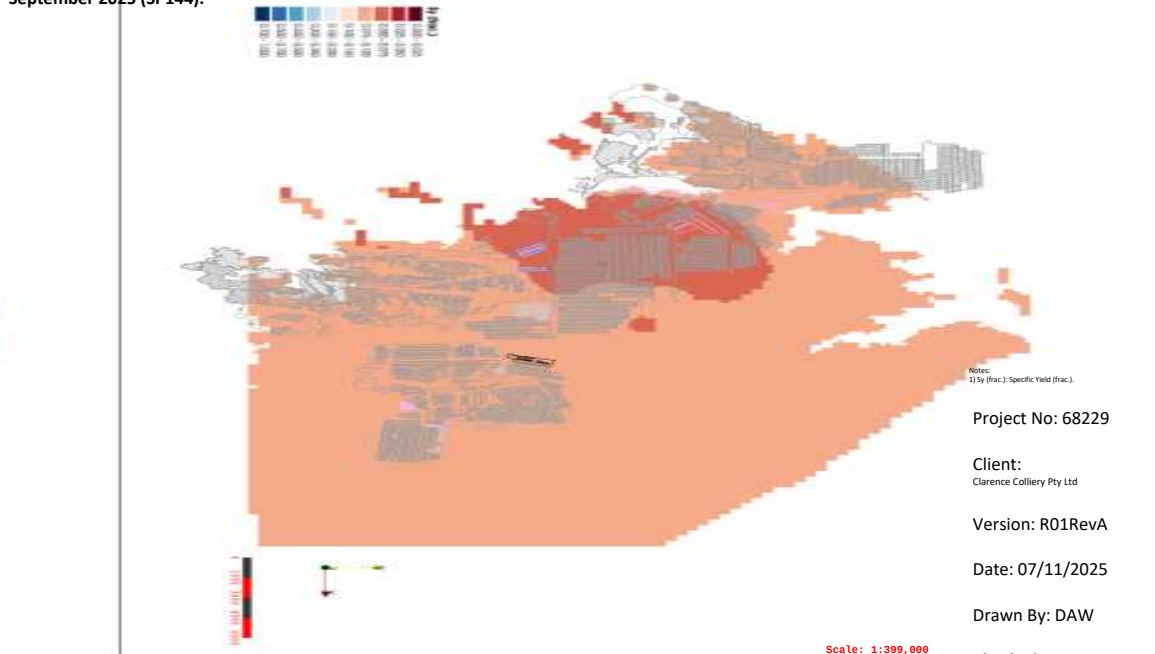
Steady-State (SP001):



September 2025 (SP144):



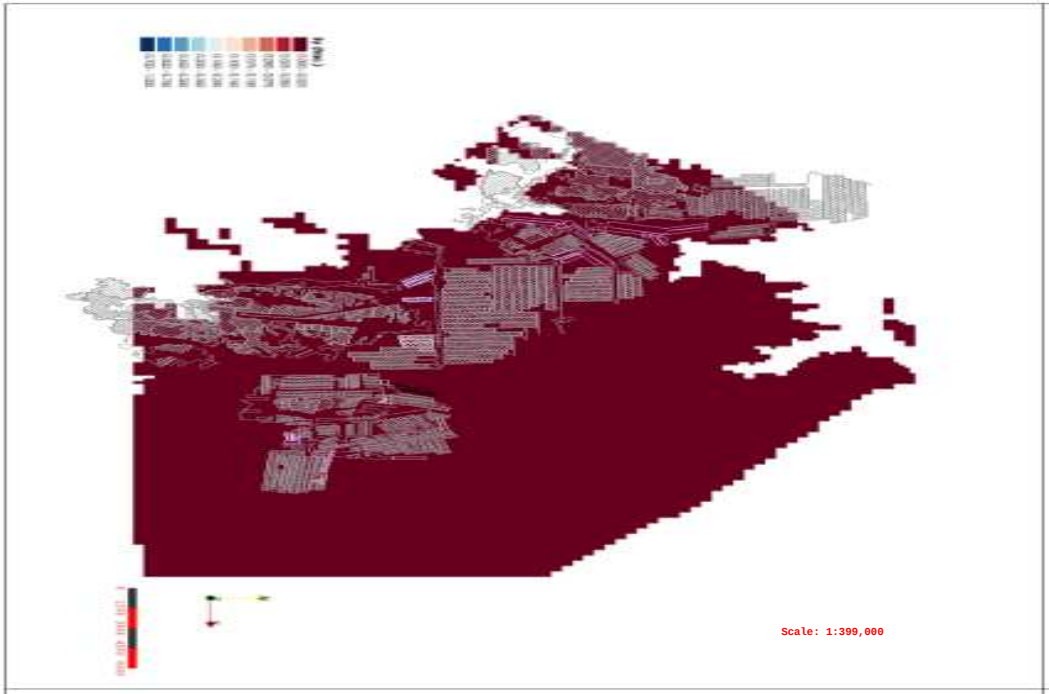
September 2026 (SP148):



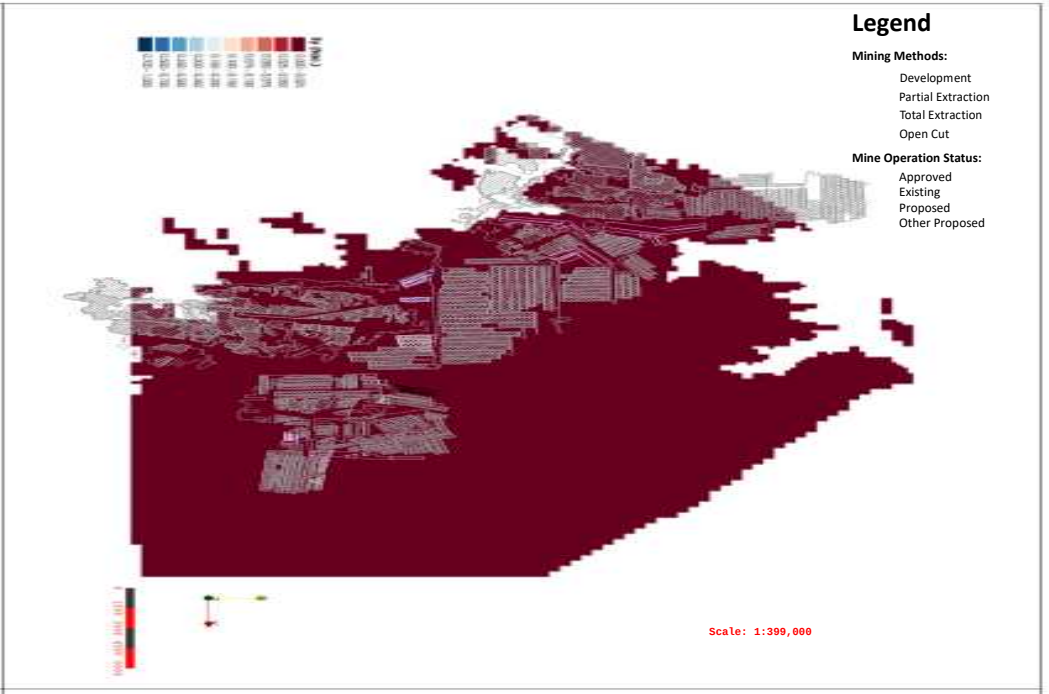
December 2049 (SP241):

Figure E1d-20: Modelled Specific Yield (frac.) - Layer 20

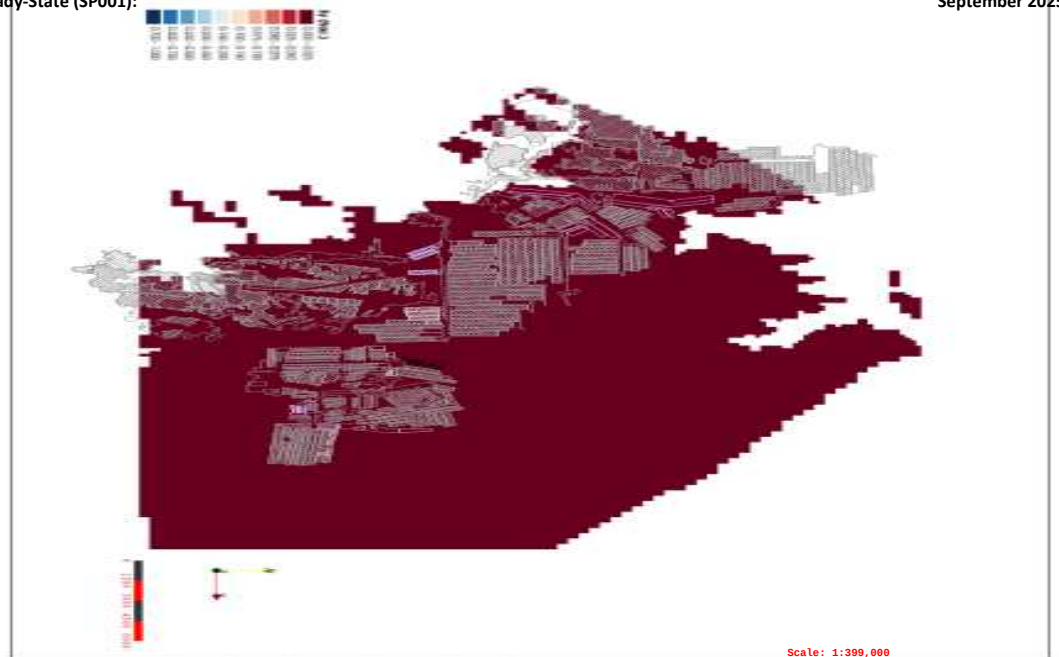
File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EPI\Figures\Grapher\68229_R01RevA_D059_Plan_Sy\68229_R01RevA_D059_Plan_Sy_L20.grf
Reference: 68229_R01RevA_PRO_02a



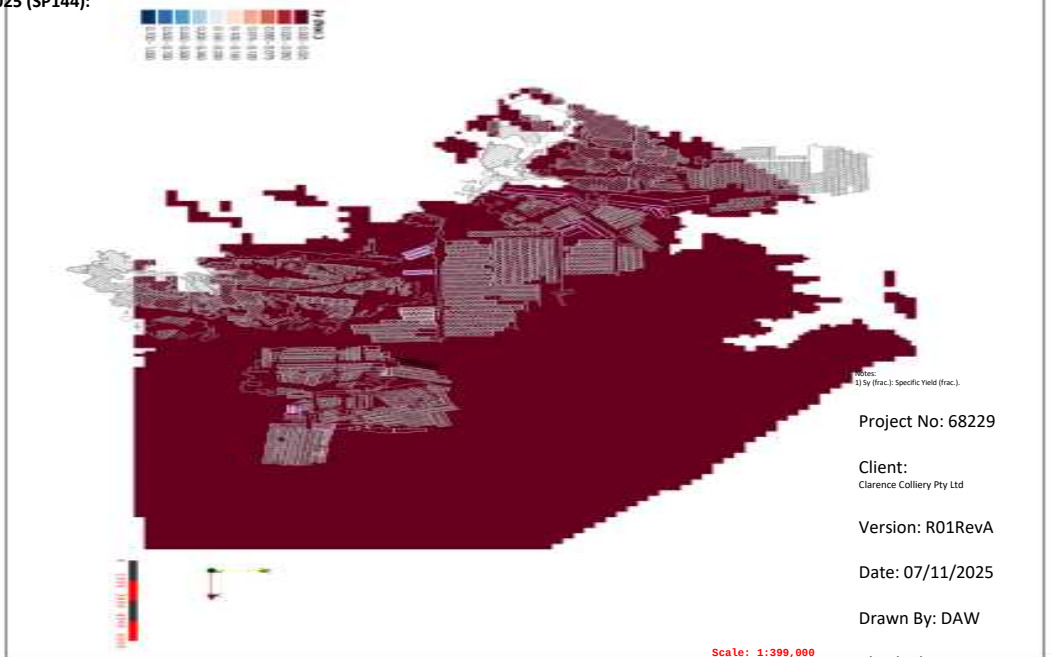
Steady-State (SP001):



September 2025 (SP144):



September 2026 (SP148):



December 2049 (SP241):

Legend

Mining Methods:

- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:

- Approved
- Existing
- Proposed
- Other Proposed

Notes:
1) Sy (frac.): Specific Yield (frac.).

Project No: 68229

Client:
Clarence Colliery Pty Ltd

Version: R01RevA

Date: 07/11/2025

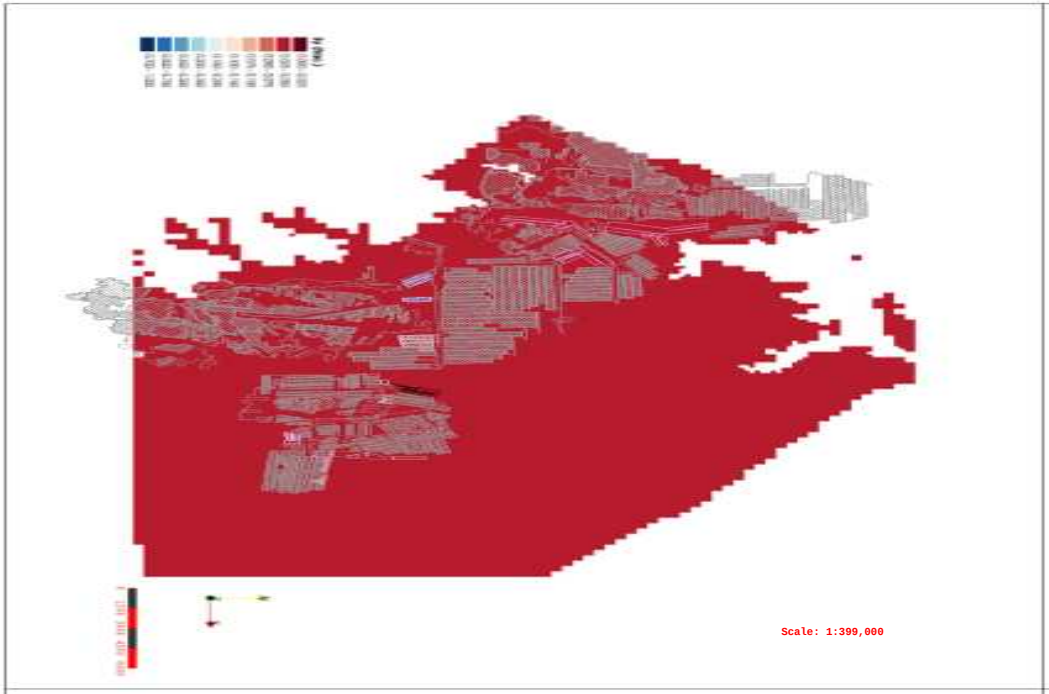
Drawn By: DAW

Checked By: JRWB

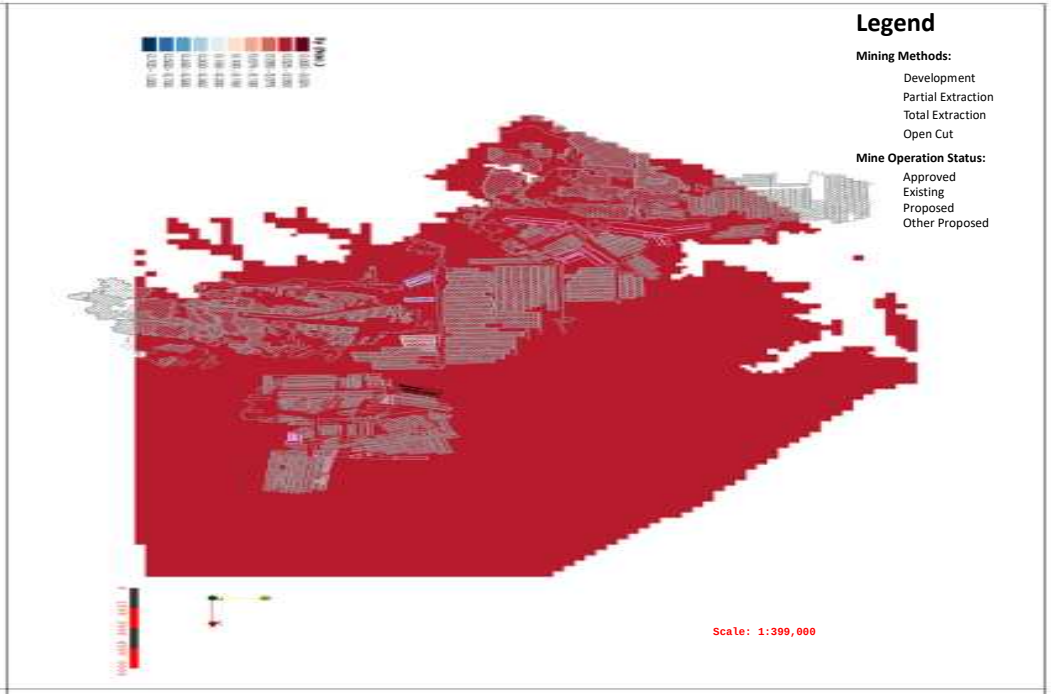
File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EPI\Figures\Grapher\68229_R01RevA_D059_Plan_Sy\68229_R01RevA_D059_Plan_Sy_L21.grf

Reference: 68229_R01RevA_PRO_02a

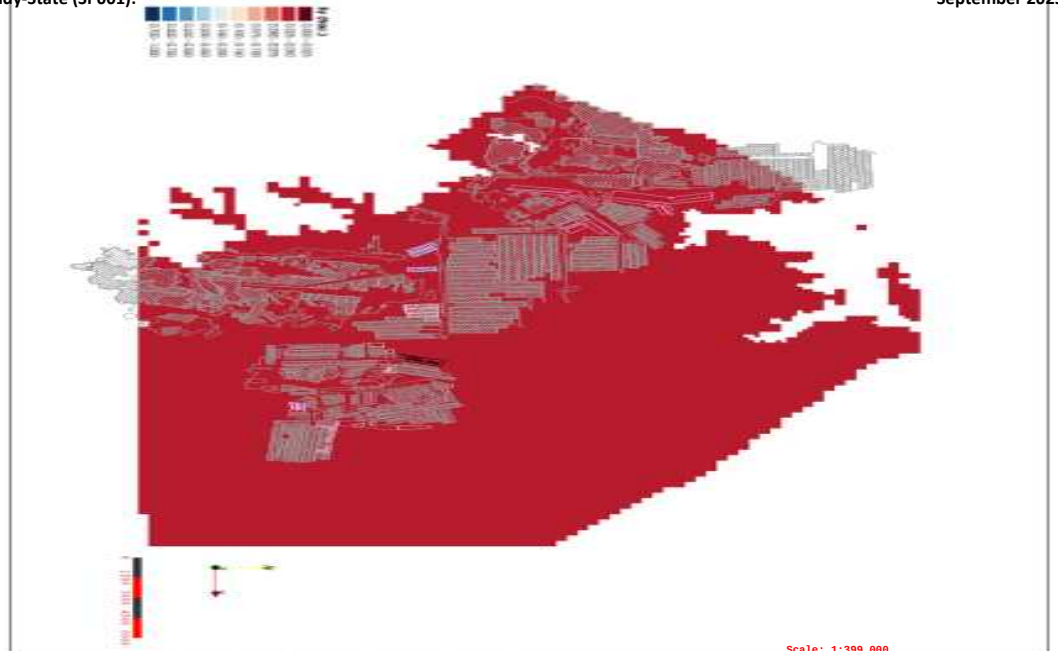
Figure E1d-21: Modelled Specific Yield (frac.) - Layer 21



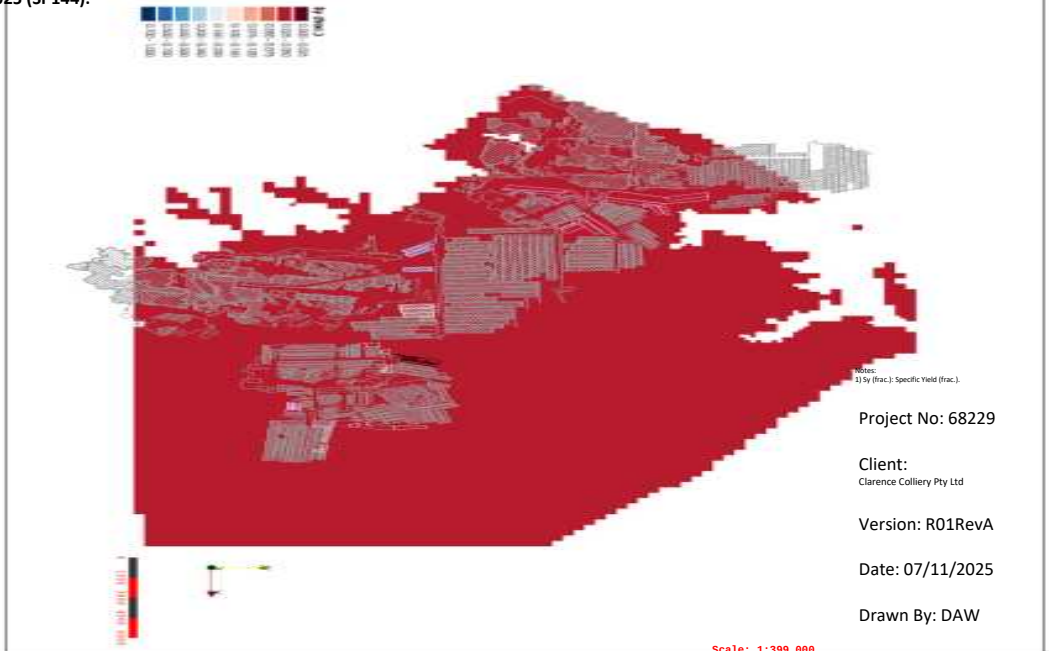
Steady-State (SP001):



September 2025 (SP144):



September 2026 (SP148):



December 2049 (SP241):

Legend

Mining Methods:

- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:

- Approved
- Existing
- Proposed
- Other Proposed

Notes:
1) Sy (frac.): Specific Yield (frac.).

Project No: 68229

Client:
Clarence Colliery Pty Ltd

Version: R01RevA

Date: 07/11/2025

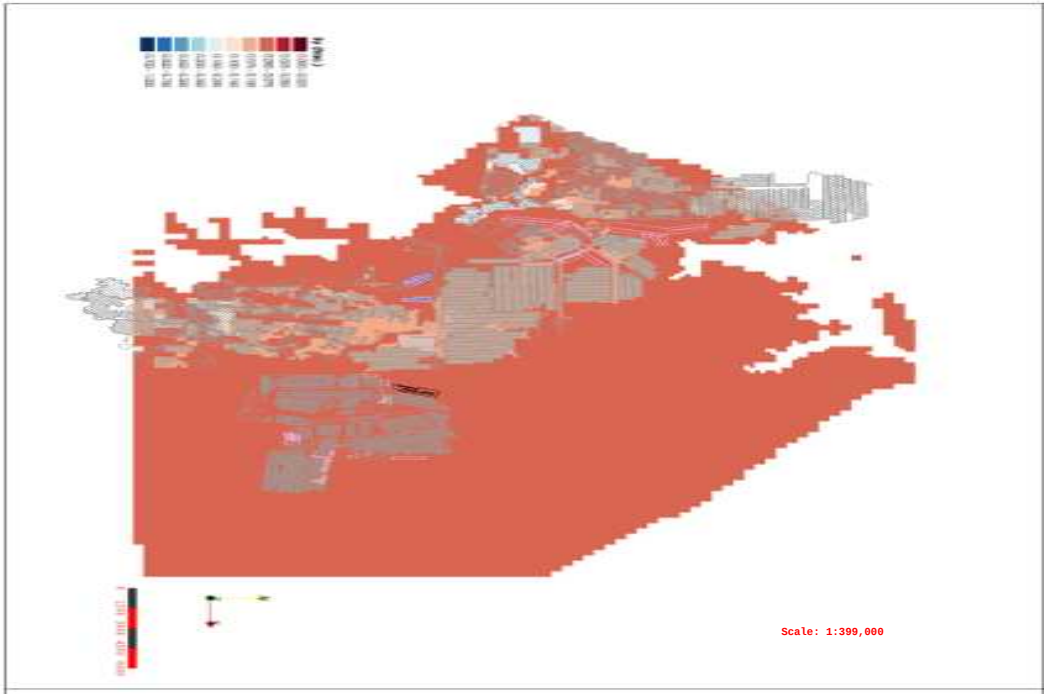
Drawn By: DAW

Checked By: JRWB

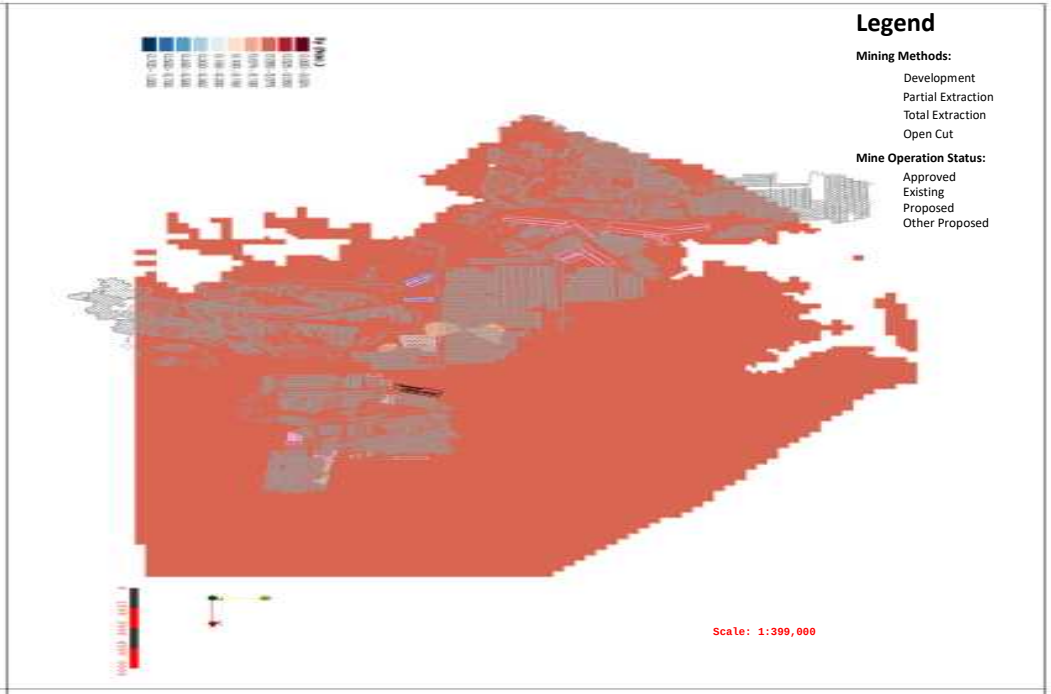
File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EPI\Figures\Grapher\68229_R01RevA_D059_Plan_Sy\68229_R01RevA_D059_Plan_Sy_L22.grf

Reference: 68229_R01RevA_PRO_02a

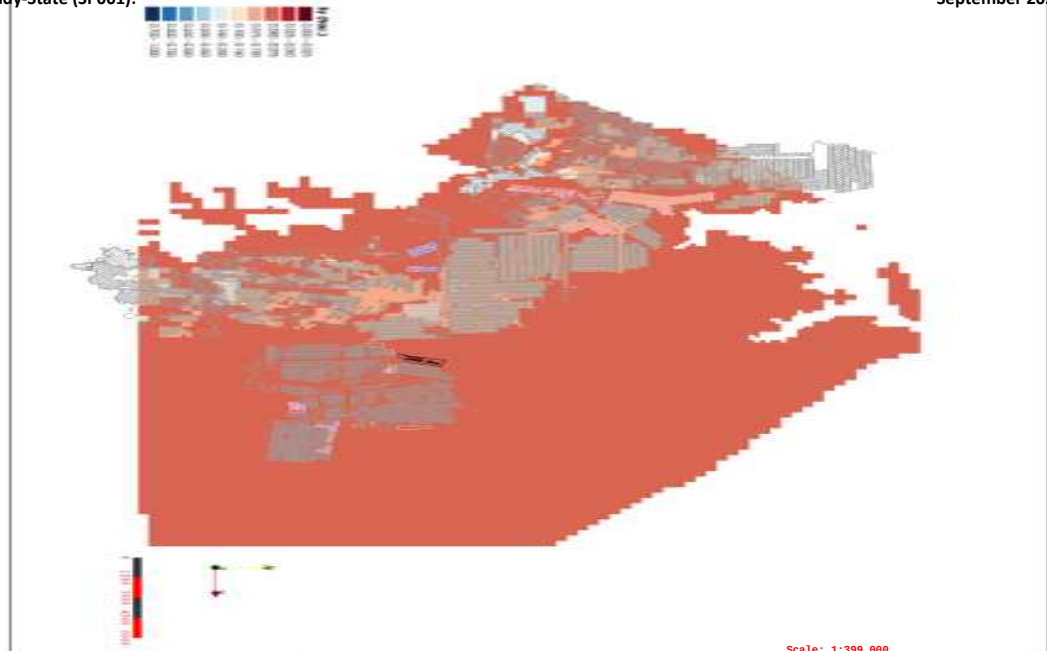
Figure E1d-22: Modelled Specific Yield (frac.) - Layer 22



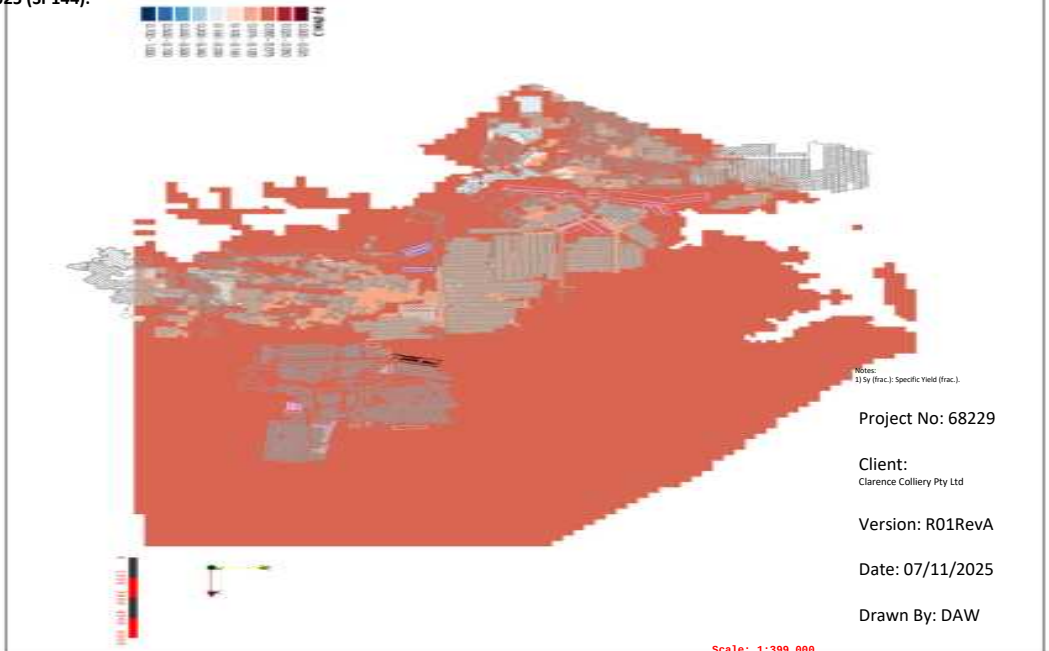
Steady-State (SP001):



September 2025 (SP144):



September 2026 (SP148):



December 2049 (SP241):

Legend

Mining Methods:

- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:

- Approved
- Existing
- Proposed
- Other Proposed

Notes:
1) Sy (frac.): Specific Yield (frac.).

Project No: 68229

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Version: R01RevA

Date: 07/11/2025

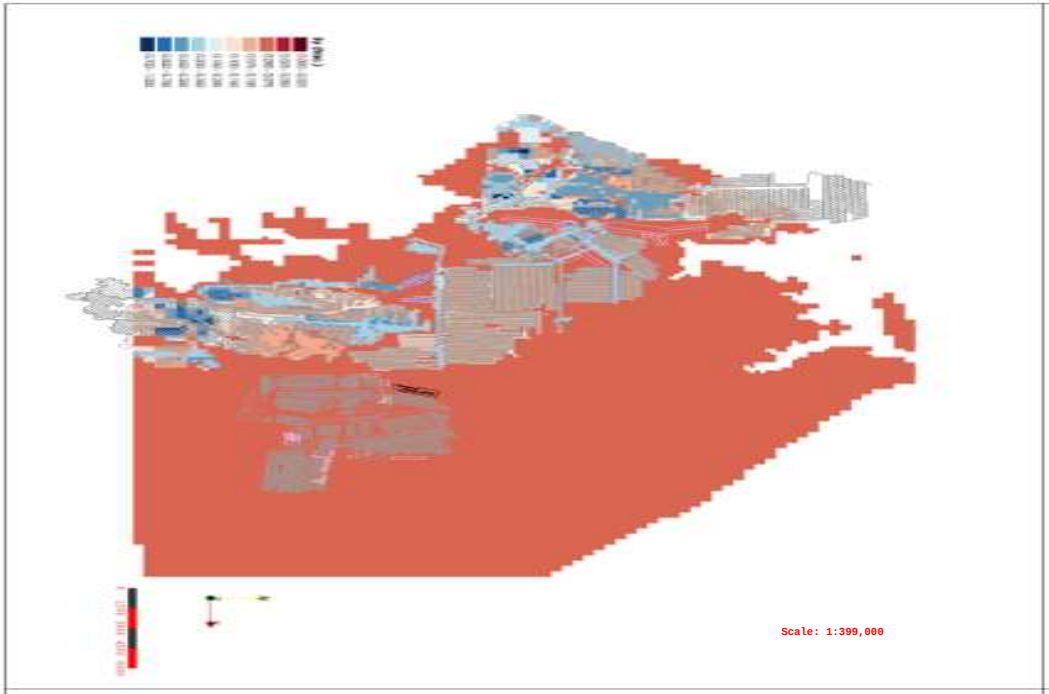
Drawn By: DAW

Checked By: JRWB

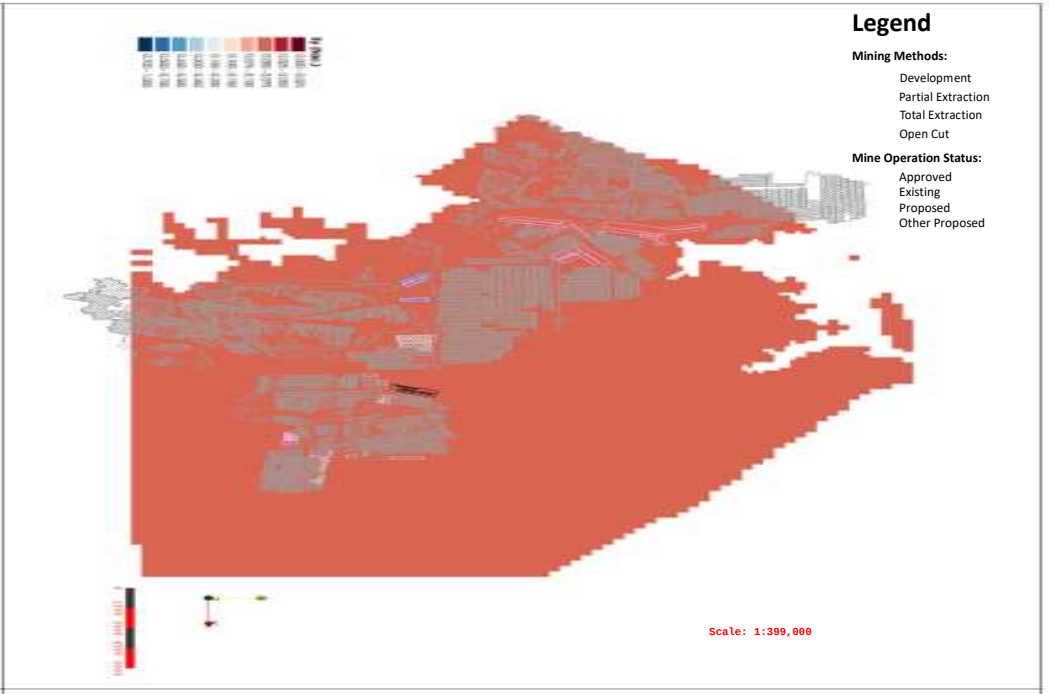
File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EPI\Figures\Grapher\68229_R01RevA_D059_Plan_Sy\68229_R01RevA_D059_Plan_Sy_L23.grf

Reference: 68229_R01RevA_PRO_02a

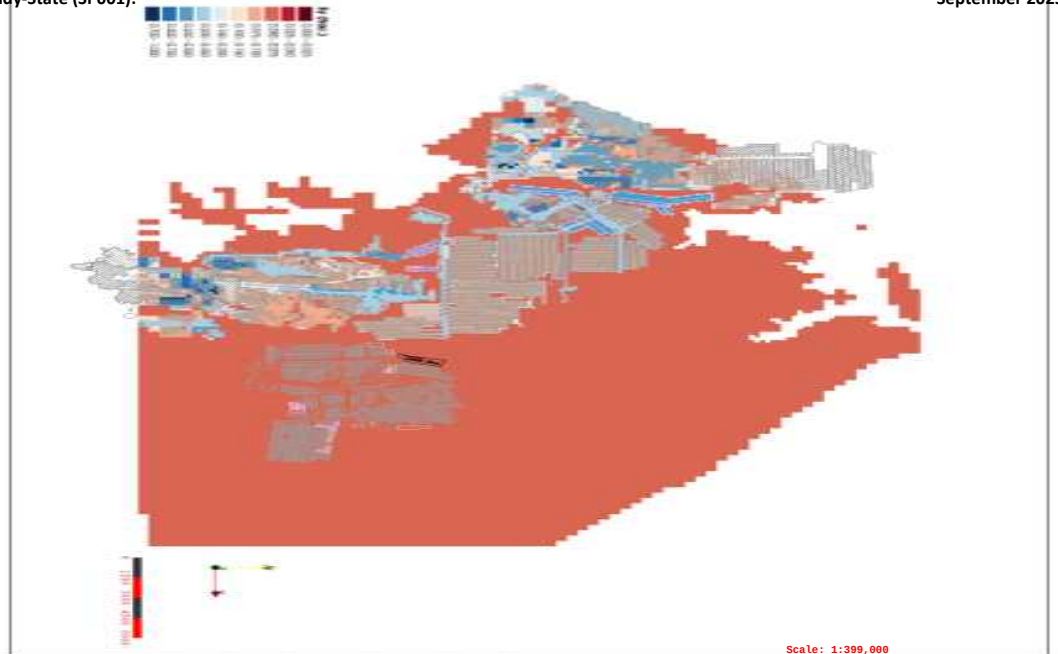
Figure E1d-23: Modelled Specific Yield (frac.) - Layer 23



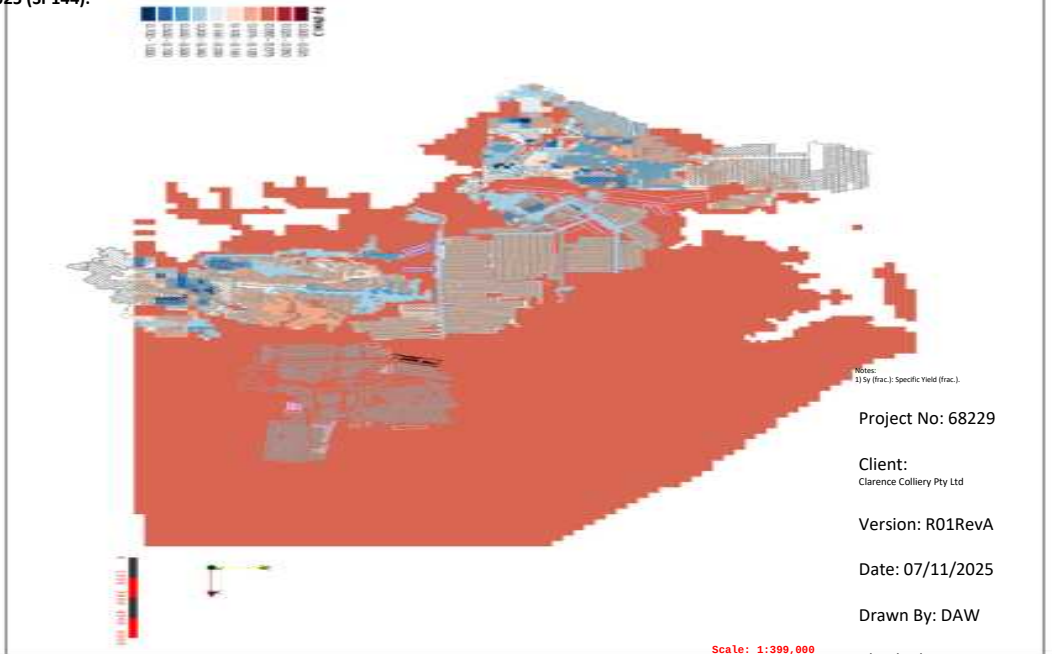
Steady-State (SP001):



September 2025 (SP144):



September 2026 (SP148):



December 2049 (SP241):

Project No: 68229

Client:
Clarence Colliery Pty Ltd

Version: R01RevA

Date: 07/11/2025

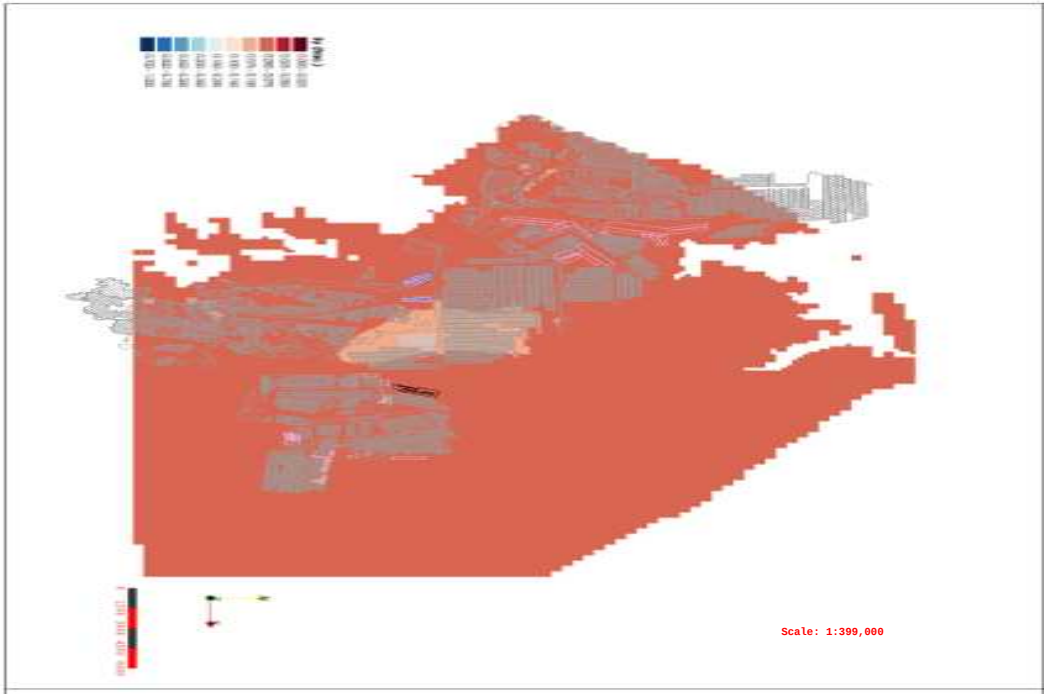
Drawn By: DAW

Checked By: JRWB

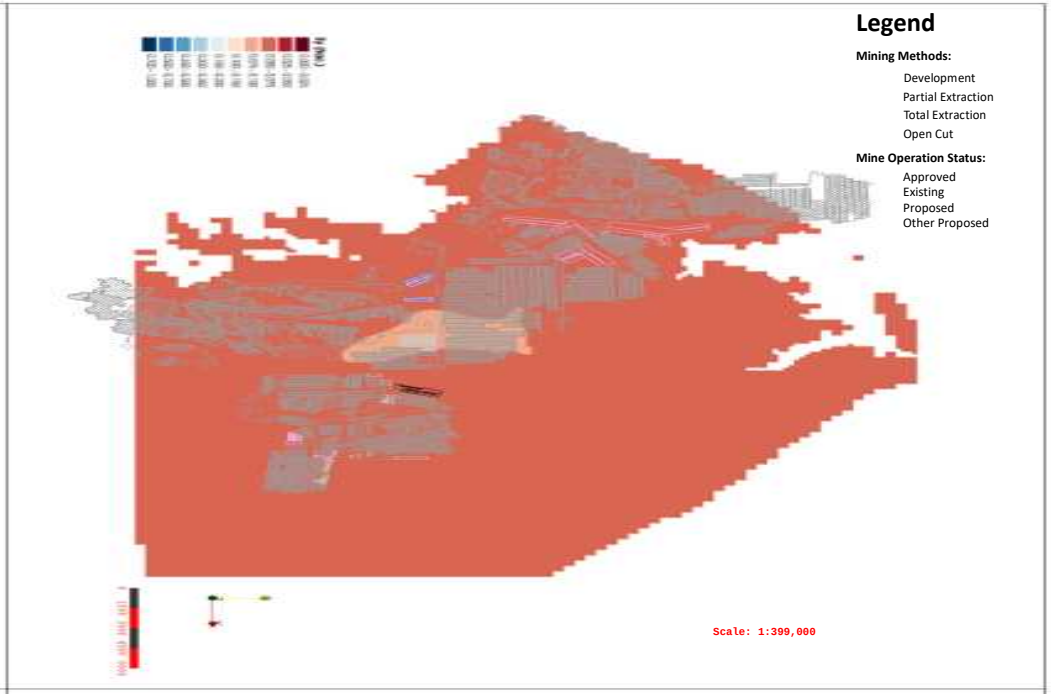
File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EPI\Figures\Grapher\68229_R01RevA_D059_Plan_Sy\68229_R01RevA_D059_Plan_Sy_L24.grf

Reference: 68229_R01RevA_PRO_02a

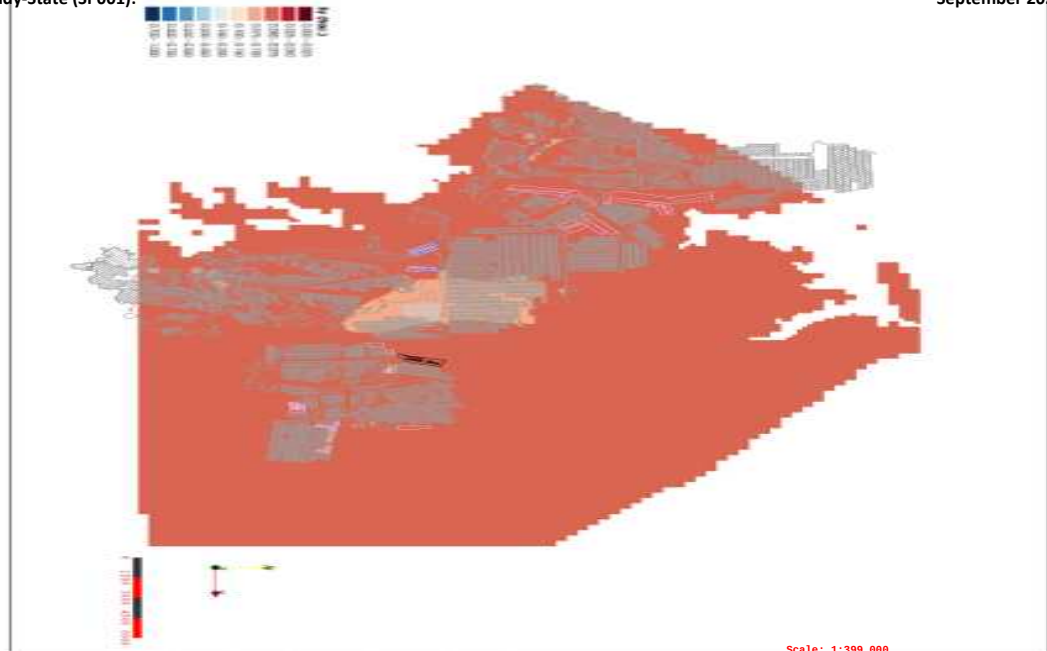
Figure E1d-24: Modelled Specific Yield (frac.) - Layer 24



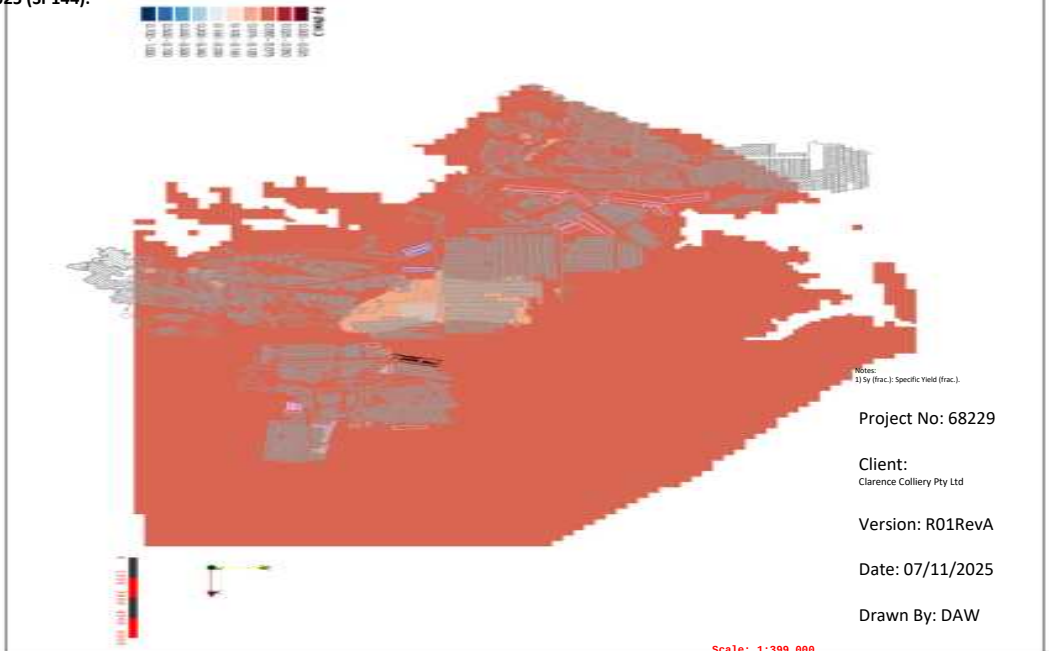
Steady-State (SP001):



September 2025 (SP144):



September 2026 (SP148):



December 2049 (SP241):

Legend

Mining Methods:

- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:

- Approved
- Existing
- Proposed
- Other Proposed

Notes:
1) Sy (frac.): Specific Yield (frac.).

Project No: 68229

Client:
Clarence Colliery Pty Ltd

Version: R01RevA

Date: 07/11/2025

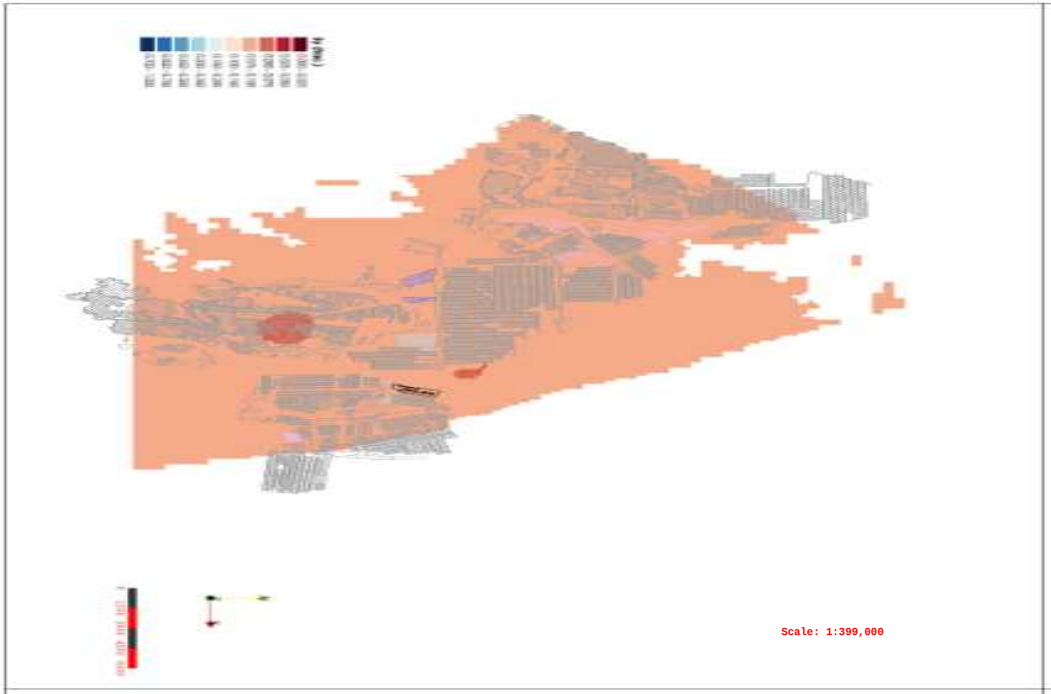
Drawn By: DAW

Checked By: JRWB

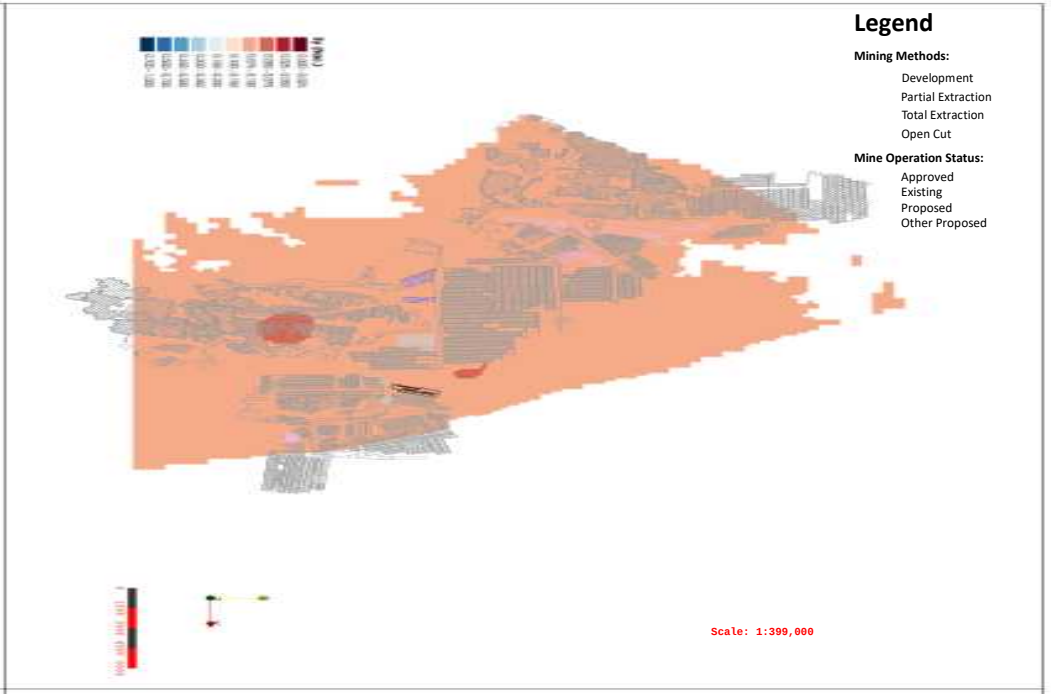
File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EPI\Figures\Grapher\68229_R01RevA_D059_Plan_Sy\68229_R01RevA_D059_Plan_Sy_L25.grf

Reference: 68229_R01RevA_PRO_02a

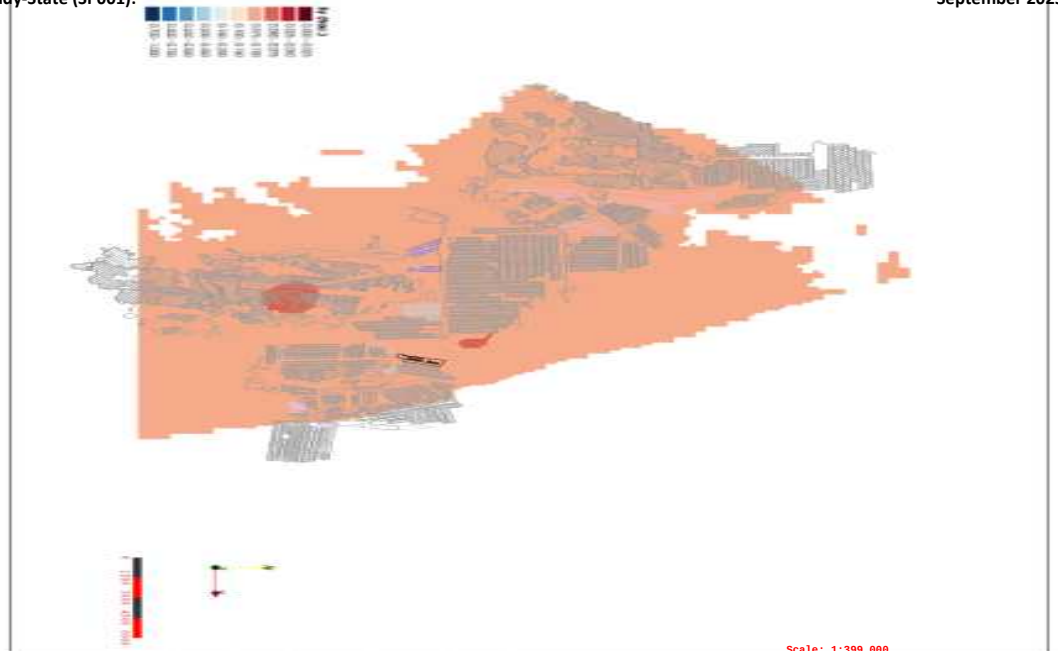
Figure E1d-25: Modelled Specific Yield (frac.) - Layer 25



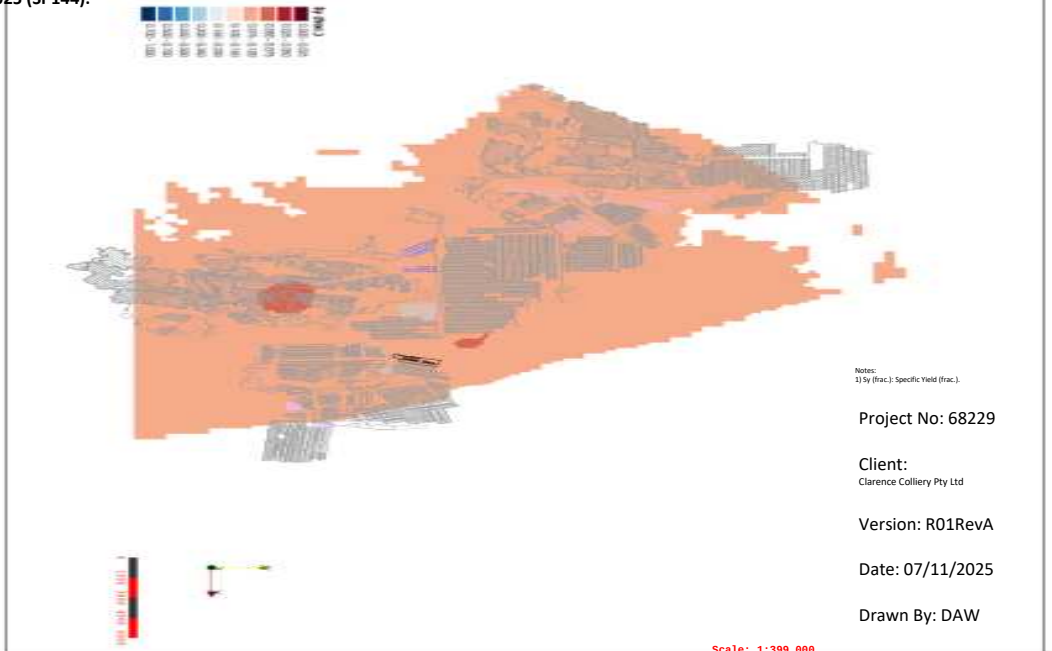
Steady-State (SP001):



September 2025 (SP144):



September 2026 (SP148):



December 2049 (SP241):

Legend

Mining Methods:

- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:

- Approved
- Existing
- Proposed
- Other Proposed

Notes:
1) Sy (frac.): Specific Yield (frac.).

Project No: 68229

Client:
Clarence Colliery Pty Ltd

Version: R01RevA

Date: 07/11/2025

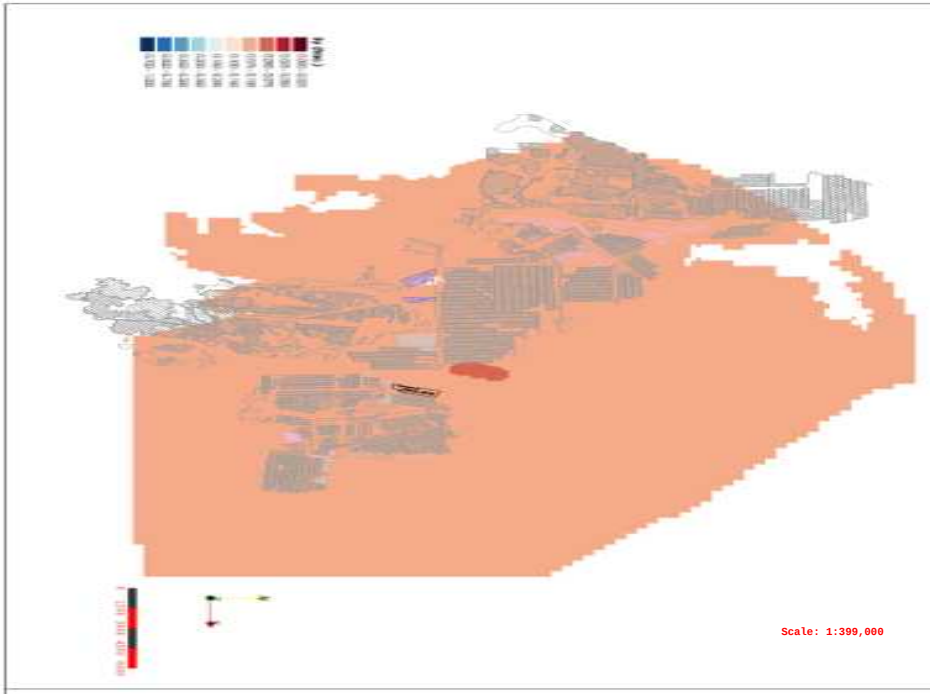
Drawn By: DAW

Checked By: JRWB

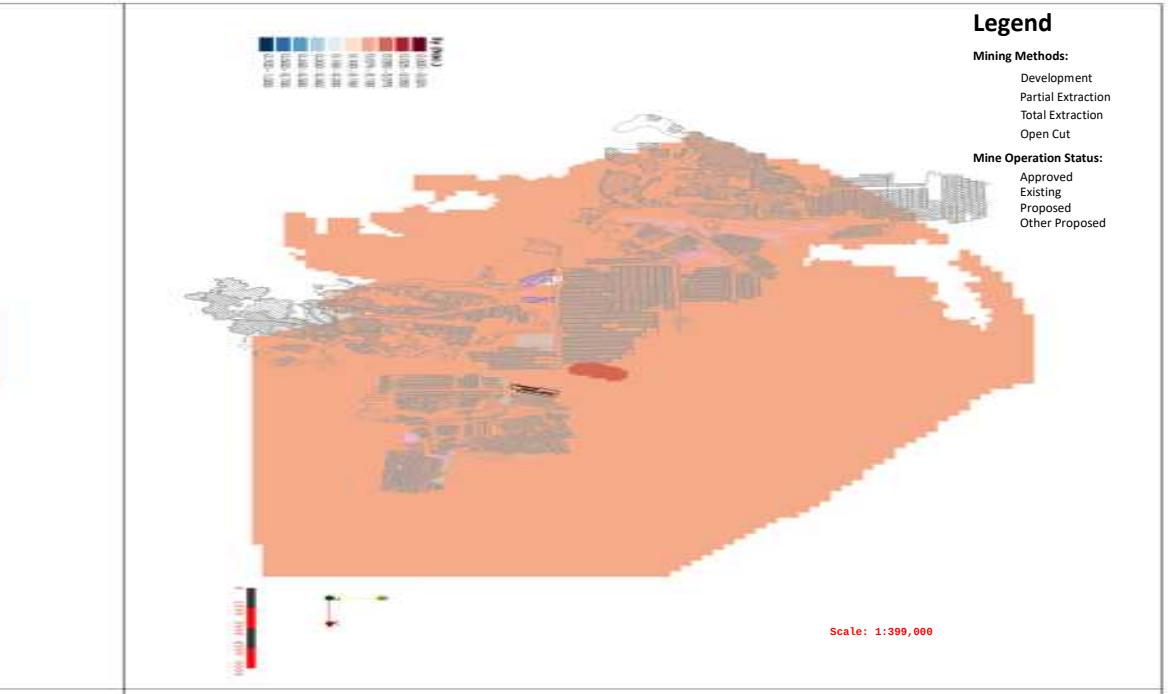
File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EPI\Figures\Grapher\68229_R01RevA_D059_Plan_Sy\68229_R01RevA_D059_Plan_Sy_L26.grf

Reference: 68229_R01RevA_PRO_02a

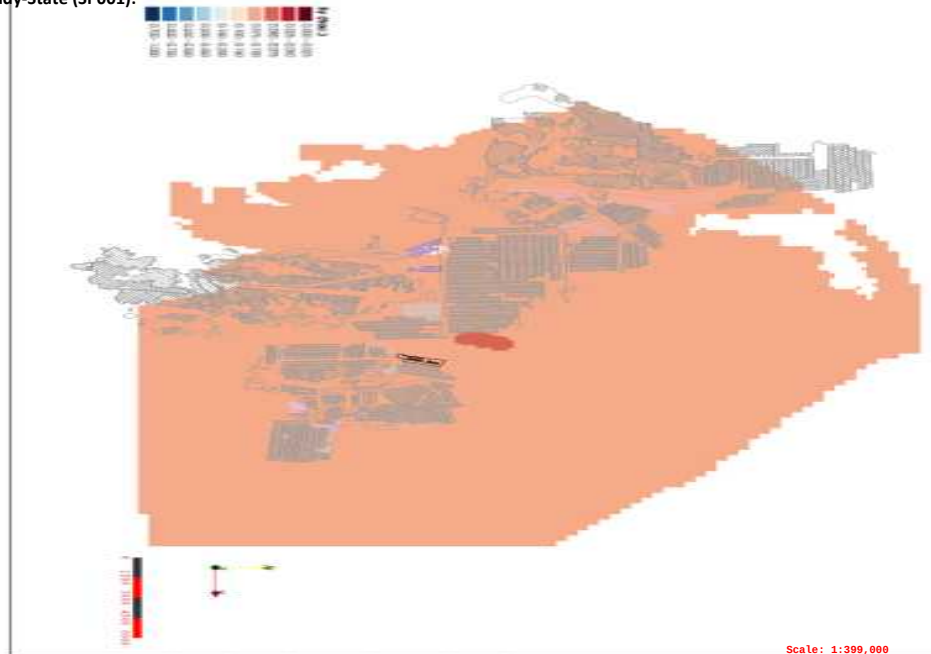
Figure E1d-26: Modelled Specific Yield (frac.) - Layer 26



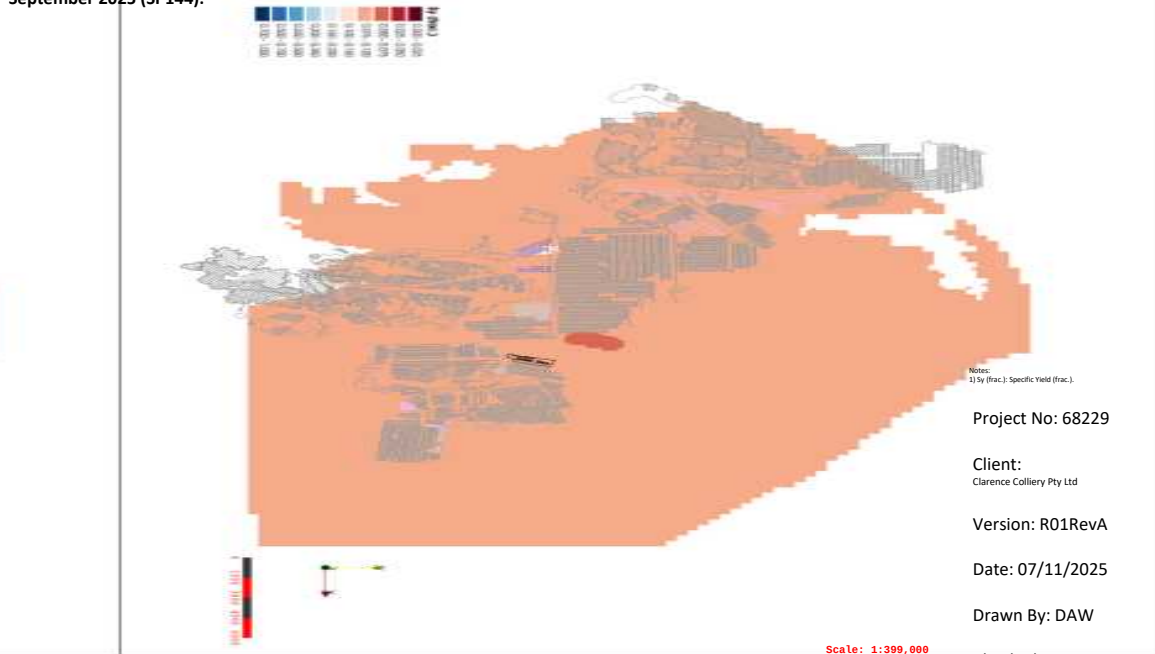
Steady-State (SP001):



September 2025 (SP144):



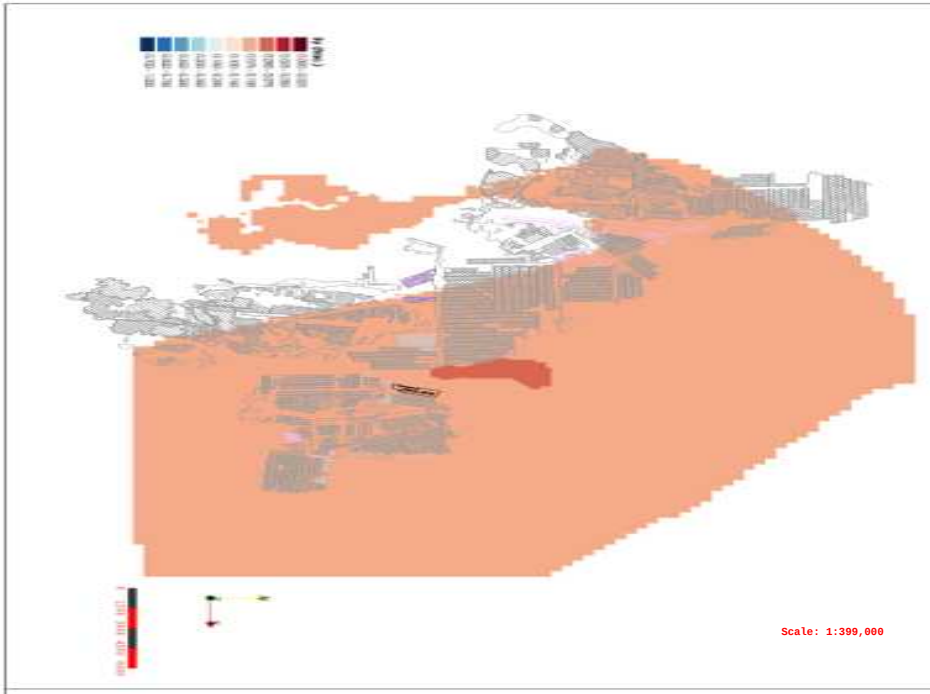
September 2026 (SP148):



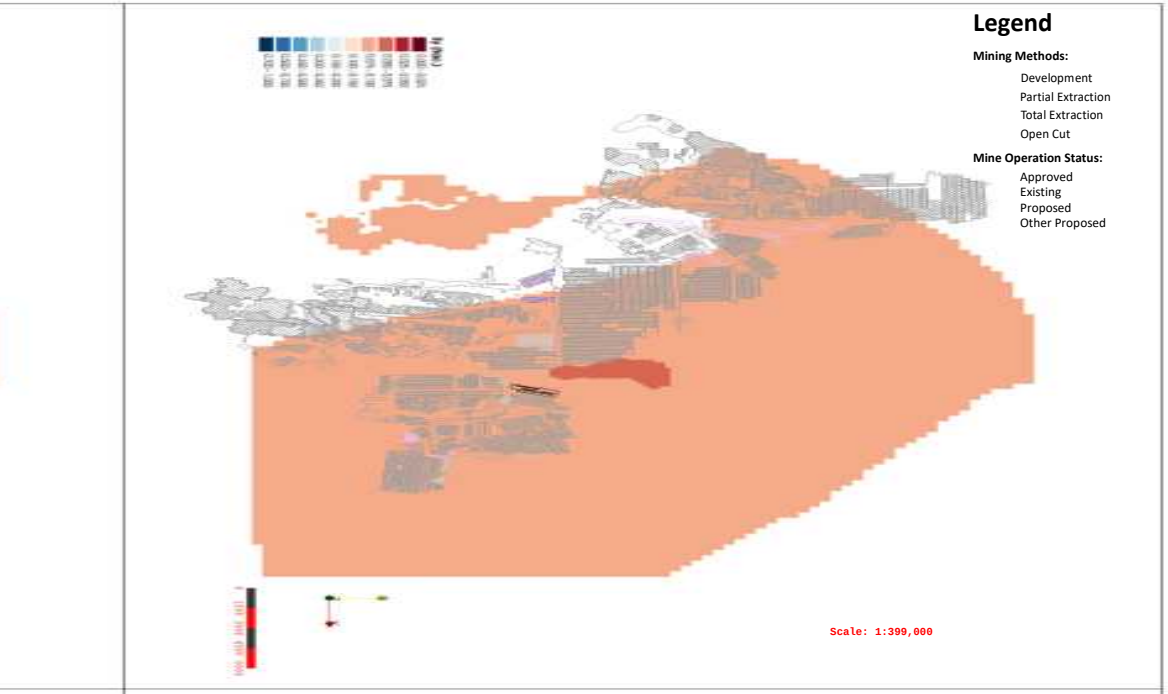
December 2049 (SP241):

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EPI\Figures\Grapher\68229_R01RevA_D059_Plan_Sy\68229_R01RevA_D059_Plan_Sy_L27.grf
Reference: 68229_R01RevA_PRO_02a

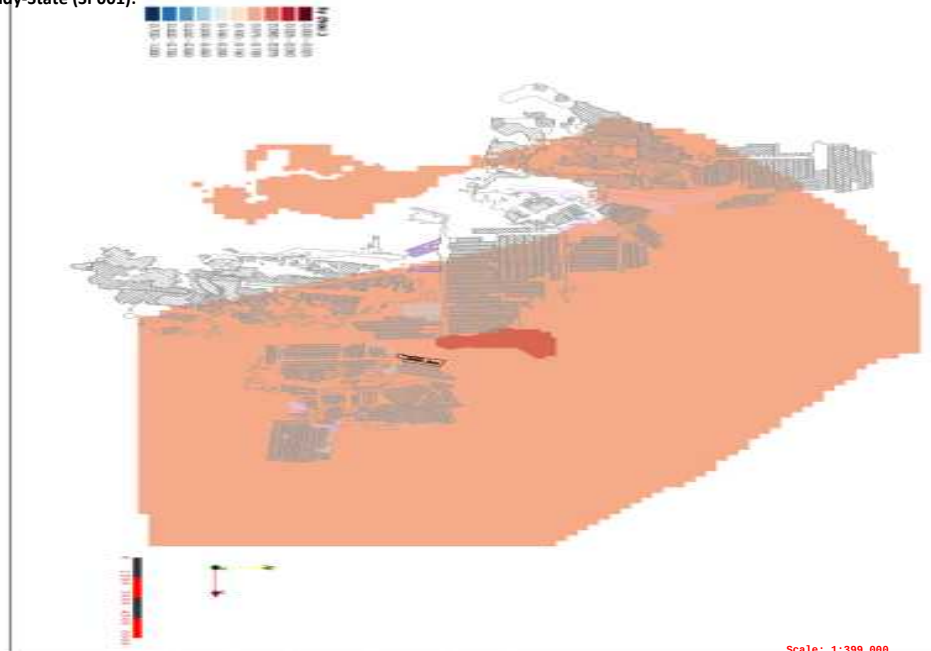
Figure E1d-27: Modelled Specific Yield (frac.) - Layer 27



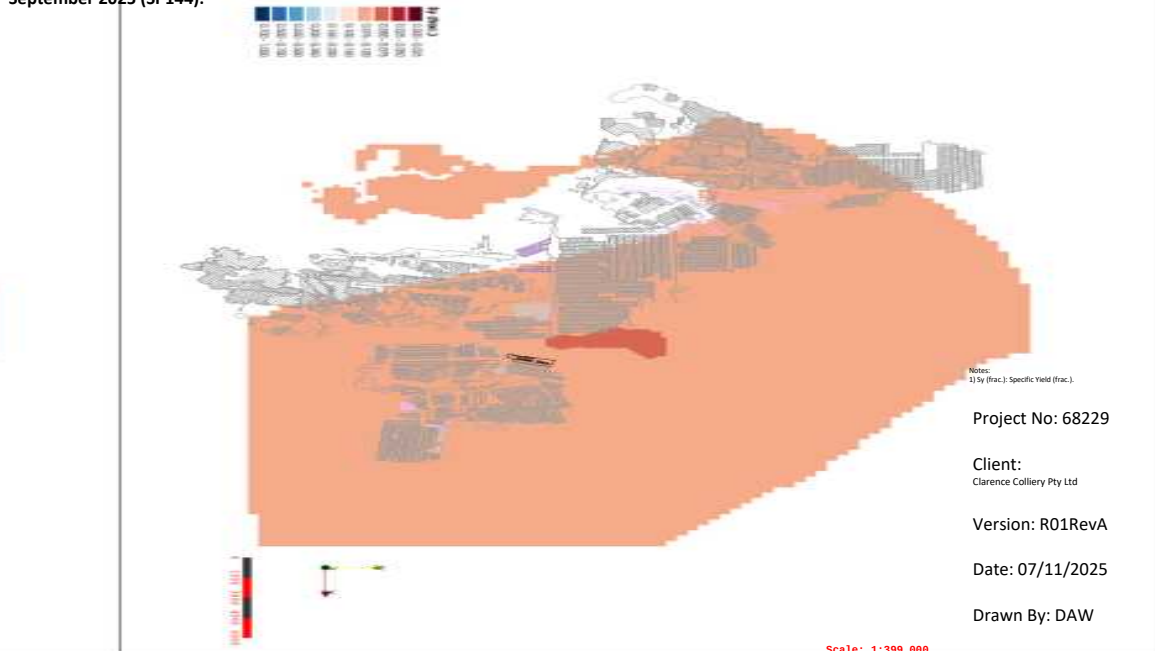
Steady-State (SP001):



September 2025 (SP144):



September 2026 (SP148):



December 2049 (SP241):

Legend

Mining Methods:

- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:

- Approved
- Existing
- Proposed
- Other Proposed

Notes:
1) Sy (frac.): Specific Yield (frac.).

Project No: 68229

Client:
Clarence Colliery Pty Ltd

Version: R01RevA

Date: 07/11/2025

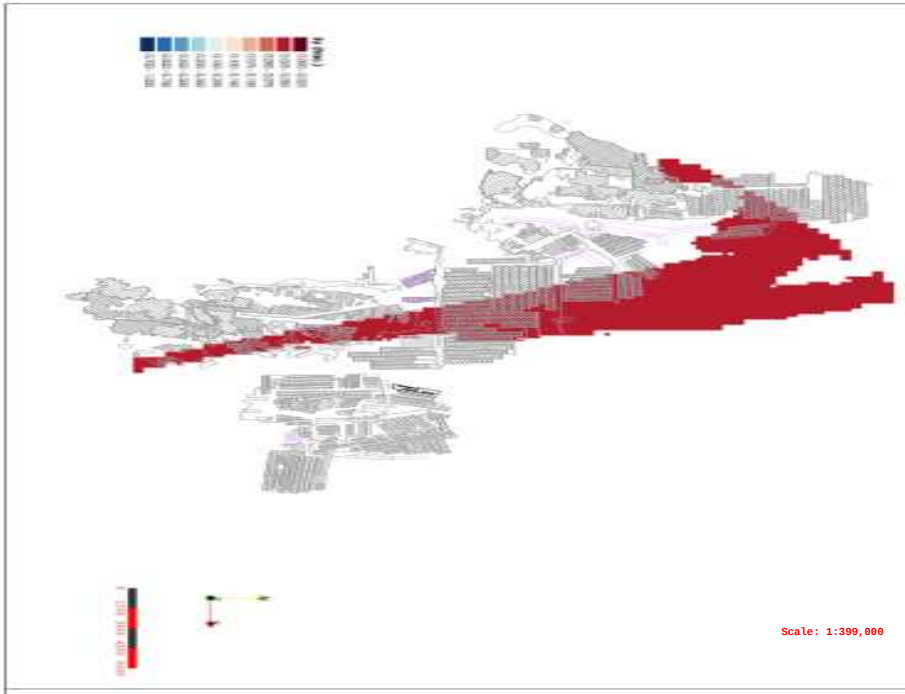
Drawn By: DAW

Checked By: JRWB

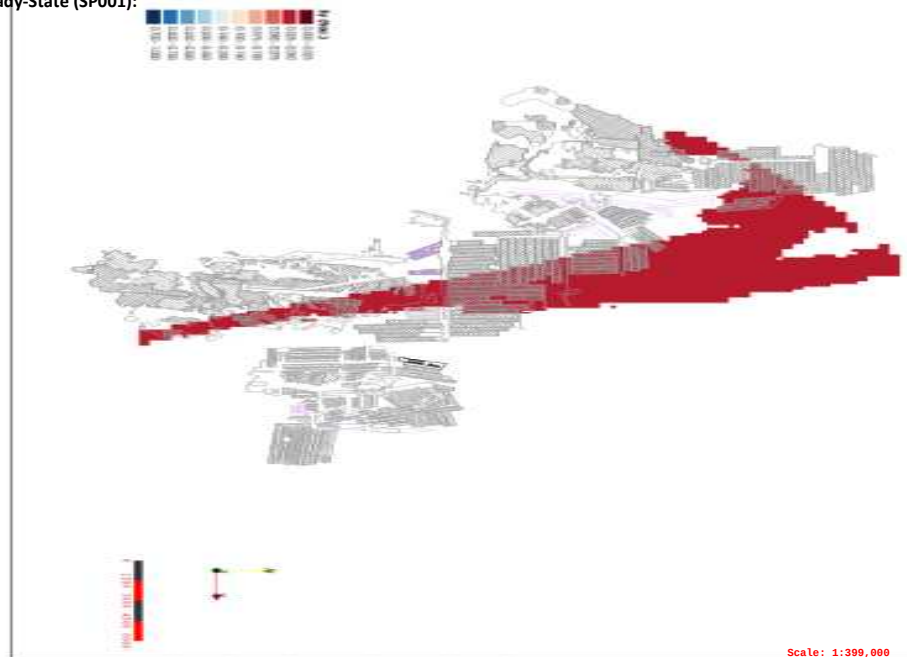
File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EPI\Figures\Grapher\68229_R01RevA_D059_Plan_Sy\68229_R01RevA_D059_Plan_Sy_L28.grf

Reference: 68229_R01RevA_PRO_02a

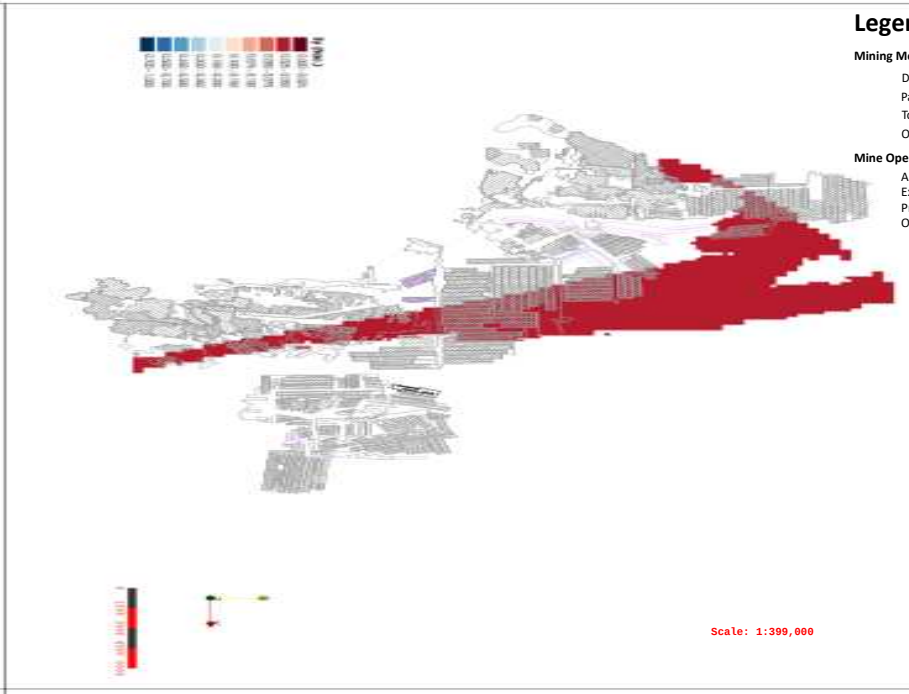
Figure E1d-28: Modelled Specific Yield (frac.) - Layer 28



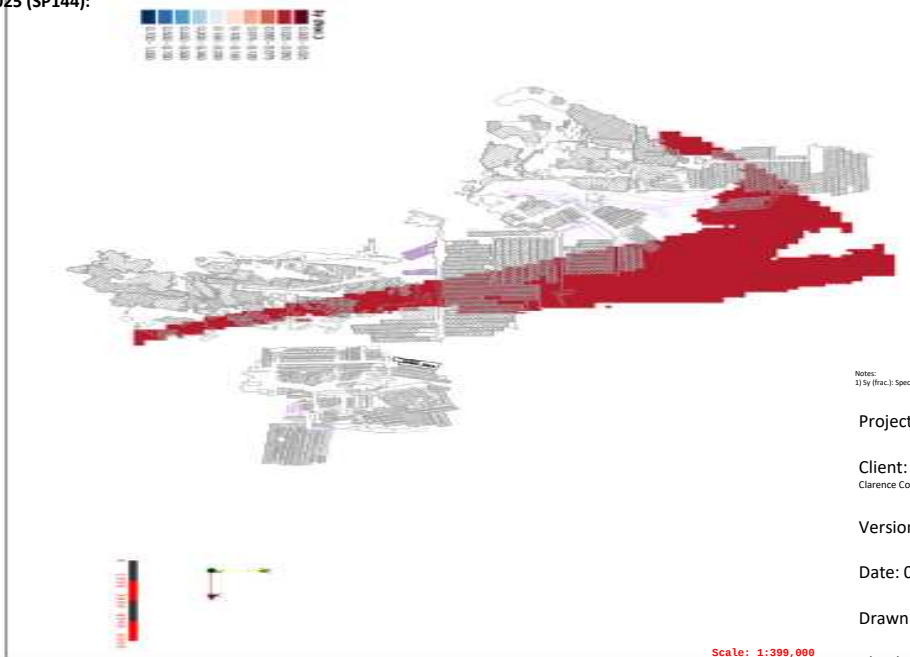
Steady-State (SP001):



September 2026 (SP148):



September 2025 (SP144):



December 2049 (SP241):

Legend

Mining Methods:

- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:

- Approved
- Existing
- Proposed
- Other Proposed

Notes:
1) Sy (frac.): Specific Yield (frac.).

Project No: 68229

Client:
Clarence Colliery Pty Ltd

Version: R01RevA

Date: 07/11/2025

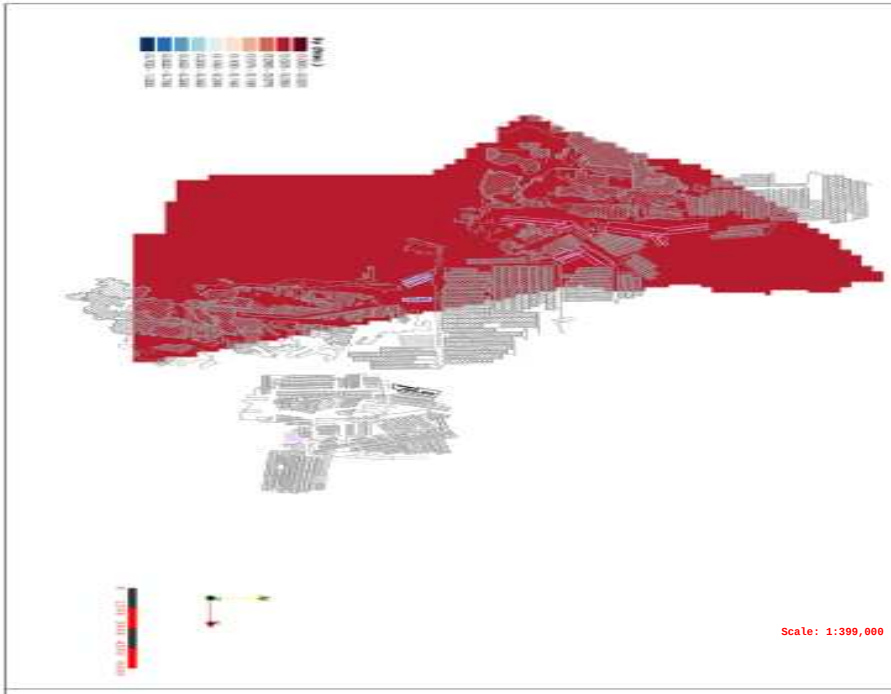
Drawn By: DAW

Checked By: JRWB

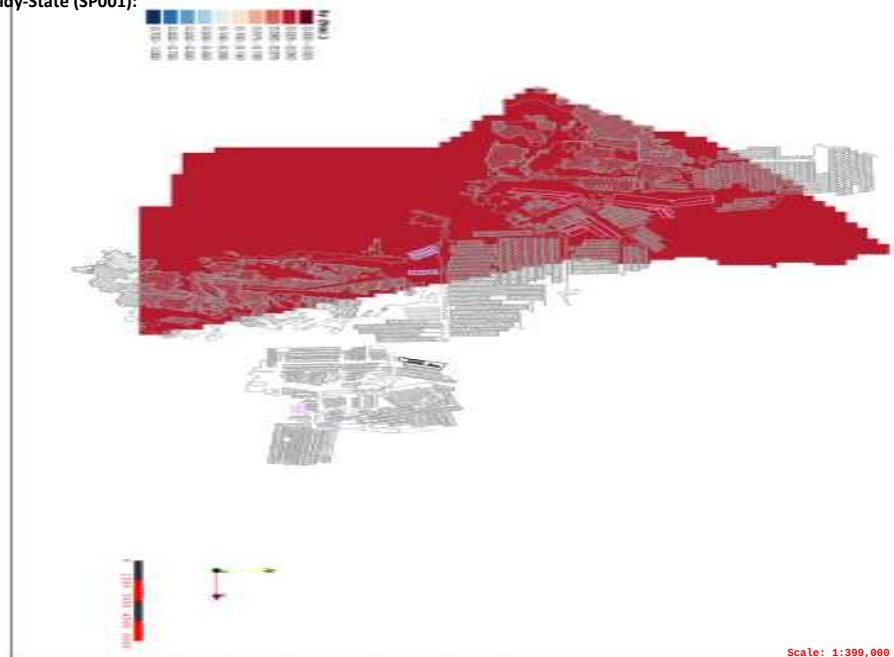
File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EPI\Figures\Grapher\68229_R01RevA_D059_Plan_Sy_L29.grf

Reference: 68229_R01RevA_PRO_02a

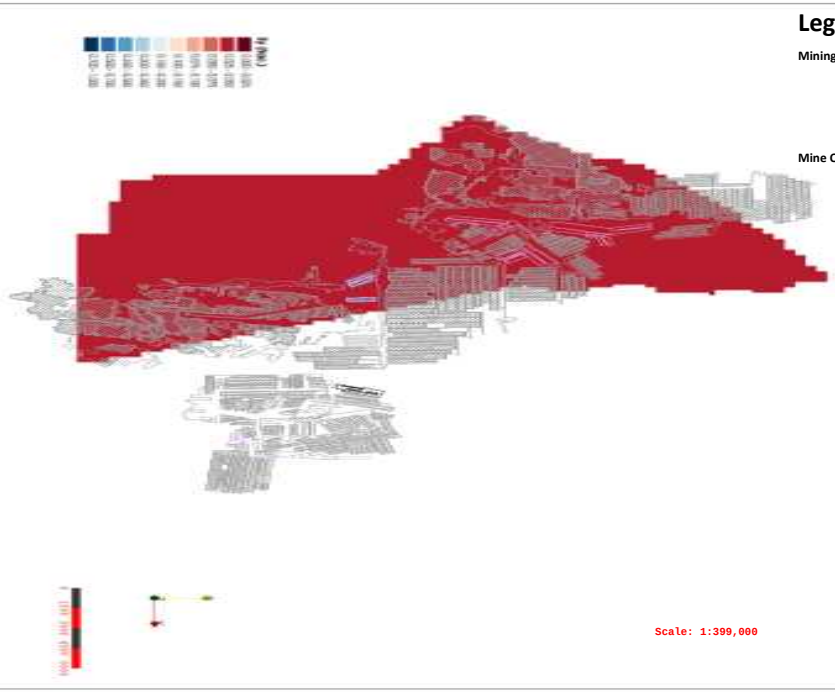
Figure E1d-29: Modelled Specific Yield (frac.) - Layer 29



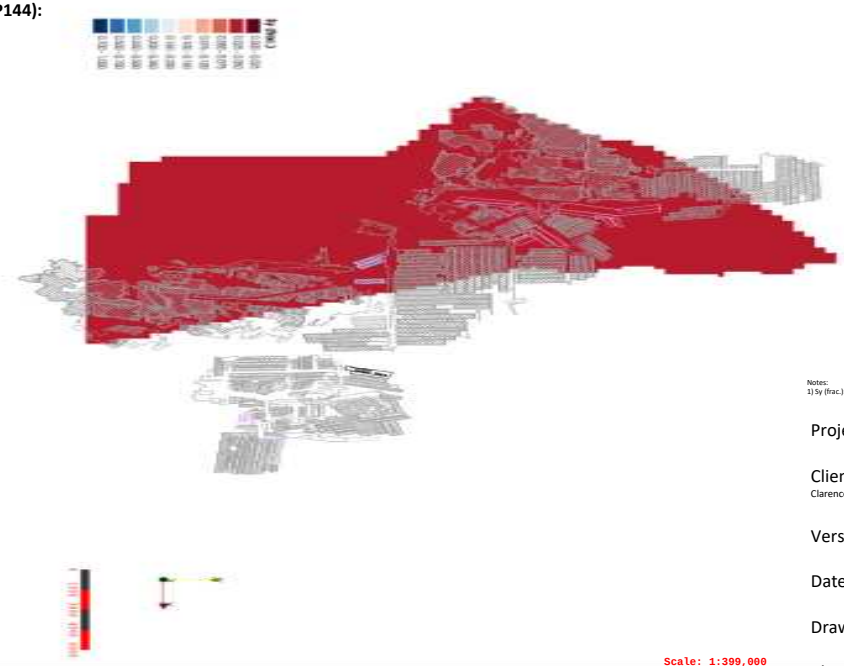
Steady-State (SP001):



September 2026 (SP148):



September 2025 (SP144):



December 2049 (SP241):

Legend

Mining Methods:

- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:

- Approved
- Existing
- Proposed
- Other Proposed

Notes:
1) Sy (frac.): Specific Yield (frac.).

Project No: 68229

Client:
Clarence Colliery Pty Ltd

Version: R01RevA

Date: 07/11/2025

Drawn By: DAW

Checked By: JRWB

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EPI\Figures\Grapher\68229_R01RevA_D059_Plan_Sy\68229_R01RevA_D059_Plan_Sy_L30.grf

Reference: 68229_R01RevA_PRO_02a

Figure E1d-30: Modelled Specific Yield (frac.) - Layer 30

Appendix F Distribution of Calibration Residuals

Appendix F

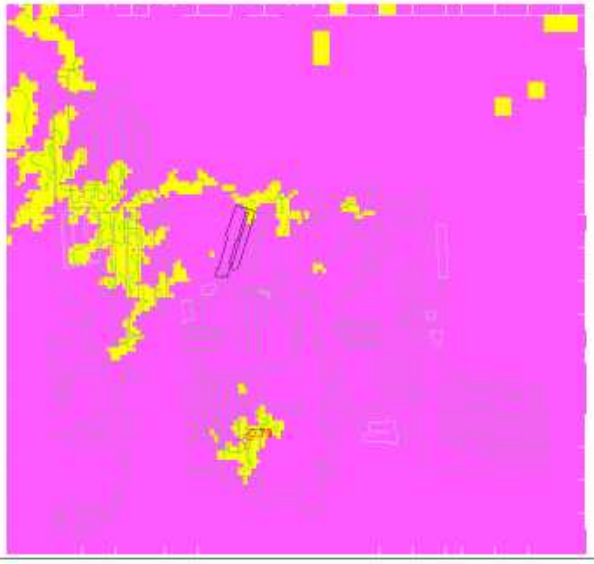
F1. Distribution of Calibration Residuals

The residual, being the difference between modelled and observed groundwater elevation in Layer 01 to Layer 25 in the general vicinity of 918 Panel at each of six selected model output times (output control, .OC).

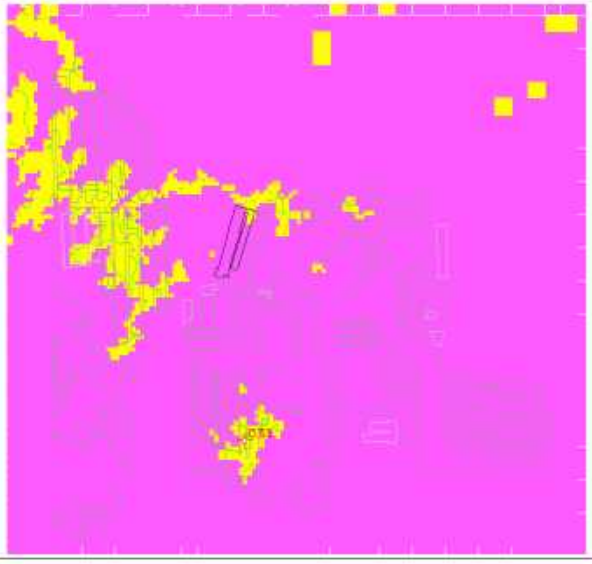
Output was generated by a custom-developed script, using a TIMEACCURACY (equivalent) of 16, therefore capturing a residual either 16 days before or 16 days after the selected model output time.

The selected stress periods were:

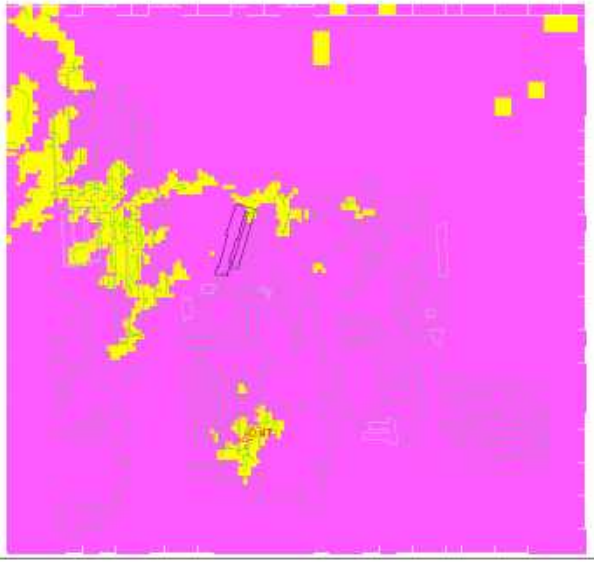
- 31 December 2009 (SP081; TOTIM = 51866)
- 30 June 2012 (SP091; TOTIM = 52778)
- 31 March 2015 (SP102; TOTIM = 53782)
- 30 June 2017 (SP111; TOTIM = 54604)
- 31 December 2018 (SP117; TOTIM = 55153)
- 31 December 2020 (SP125; TOTIM = 55884).



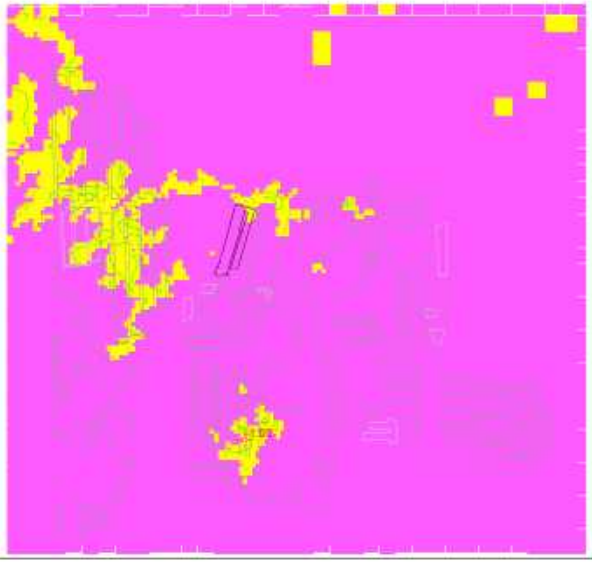
December 2009 (SP081)



June 2012 (SP091)



March 2015 (SP102)



June 2017 (SP111)

December 2018 (SP117) Scale 1:182,000 @A4: 0 1 2km

December 2020 (SP125) Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

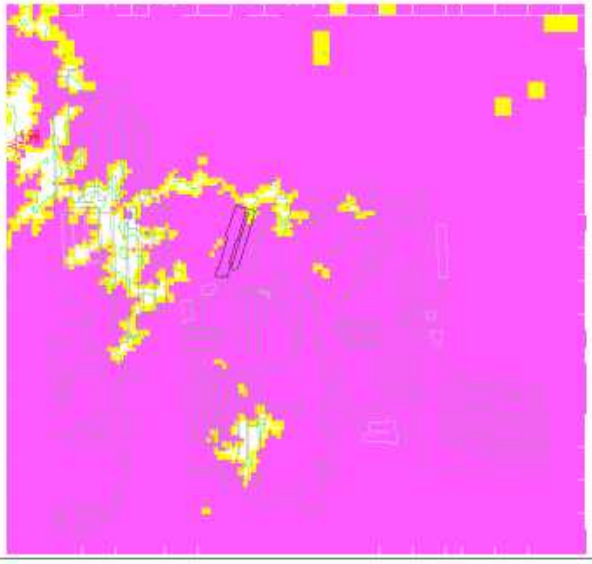
Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

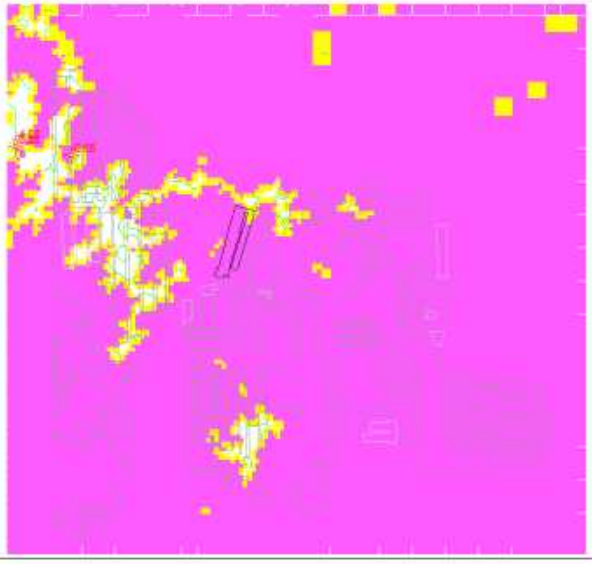
Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Sandstone (Layer 01)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-01** JBS&G

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L01.grf

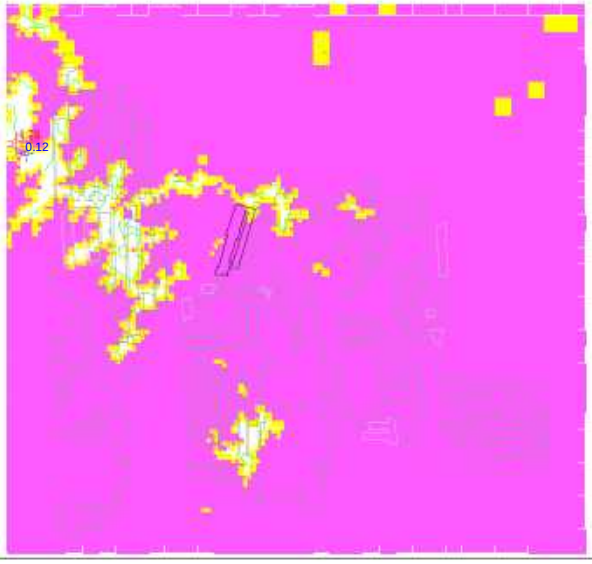
Reference: 68229_R01RevA_APR_03c.



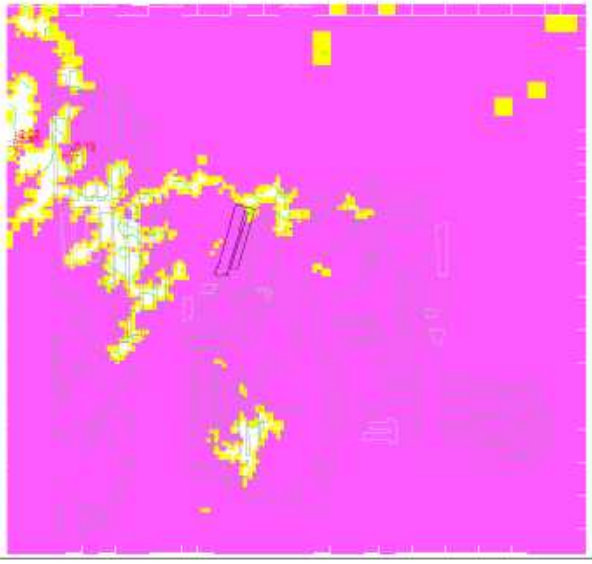
December 2009 (SP081)



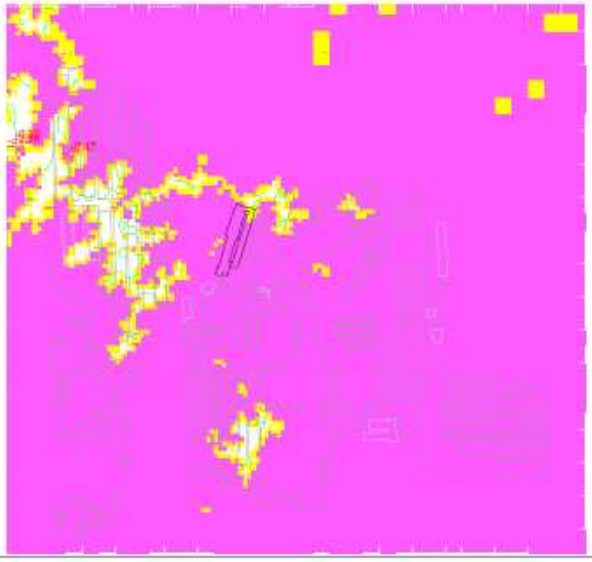
June 2012 (SP091)



March 2015 (SP102)

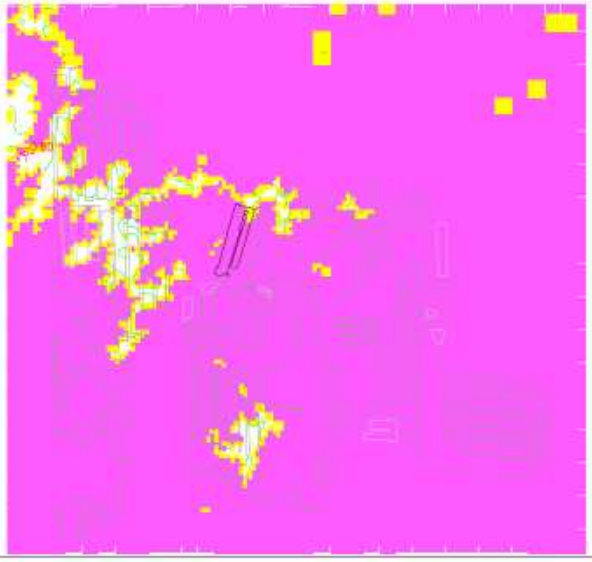


June 2017 (SP111)



December 2018 (SP117)

Scale 1:182,000 @A4: 0 1 2km



December 2020 (SP125)

Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

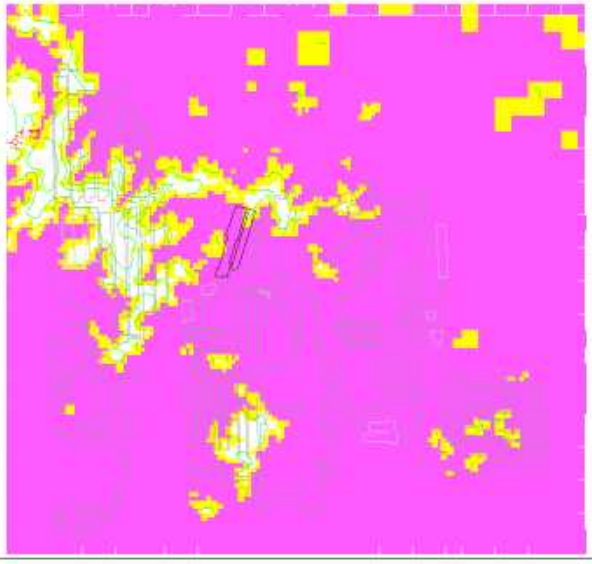
Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Shale (YS1) (Layer 02)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-02**

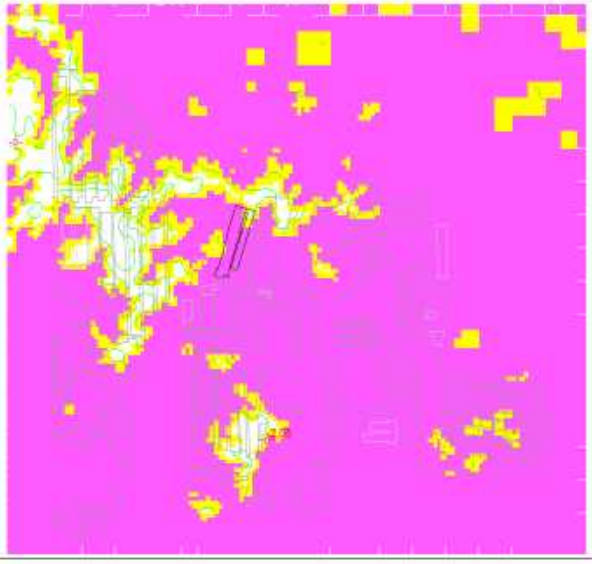
JBS&G

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L02.grf

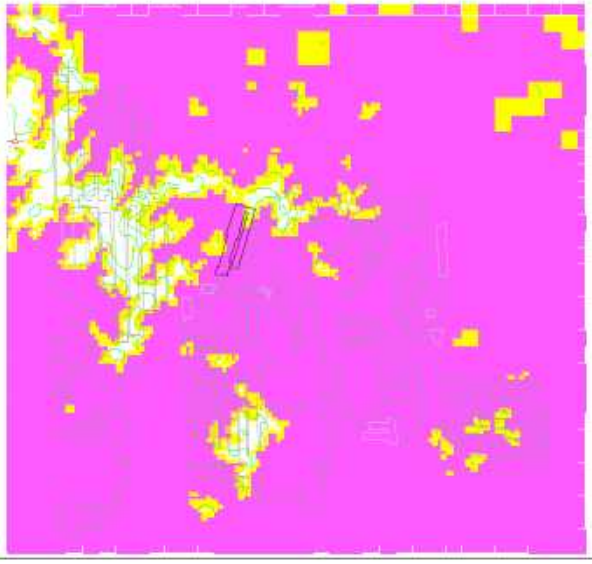
Reference: 68229_R01RevA_APR_03c.



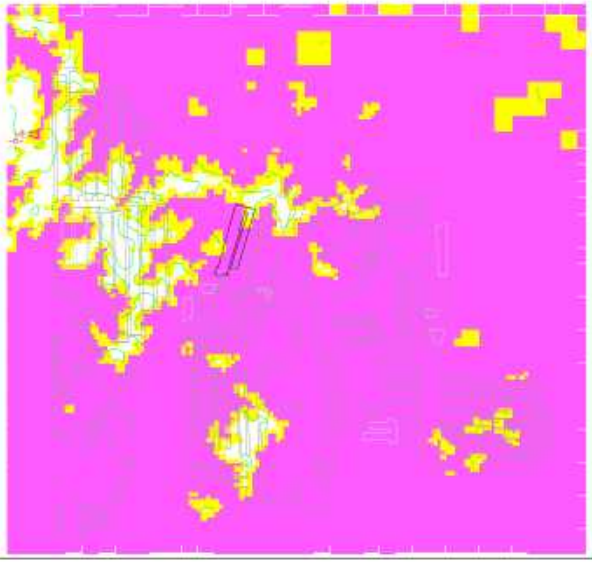
December 2009 (SP081)



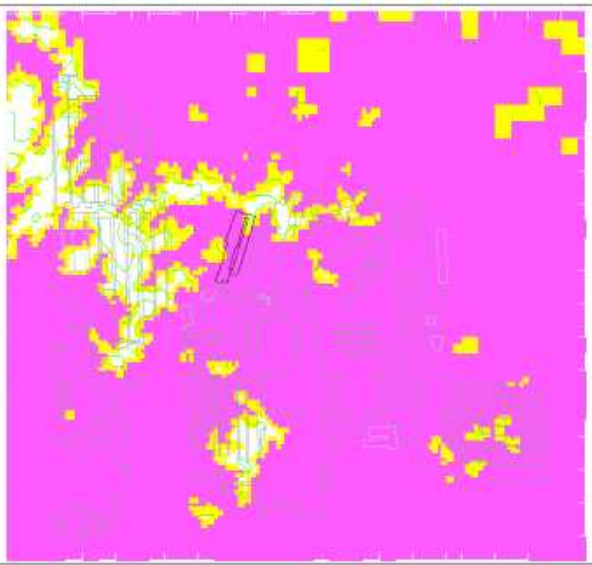
June 2012 (SP091)



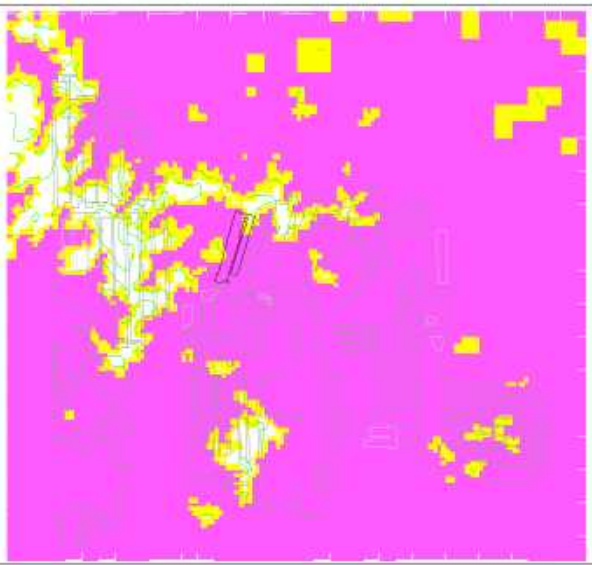
March 2015 (SP102)



June 2017 (SP111)



December 2018 (SP117) Scale 1:182,000 @A4: 0 1 2km



December 2020 (SP125) Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

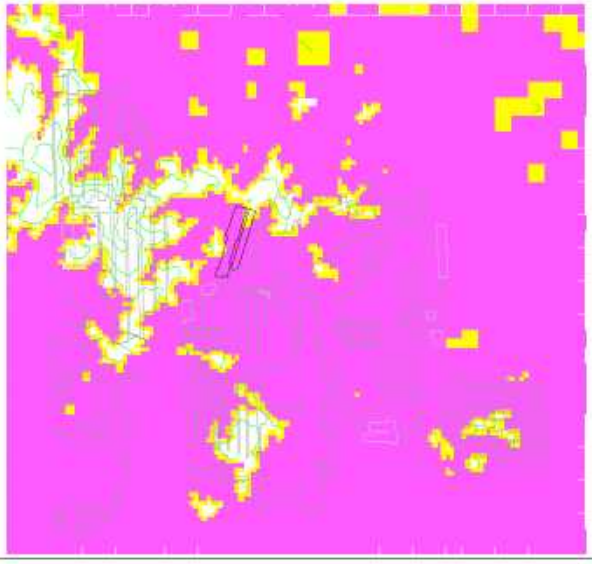
Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

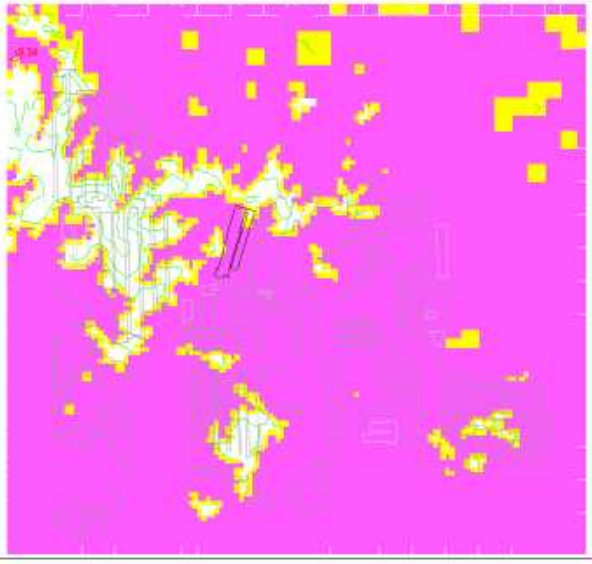
Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Sandstone (Layer 03)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-03** JBS&G

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L03.grf

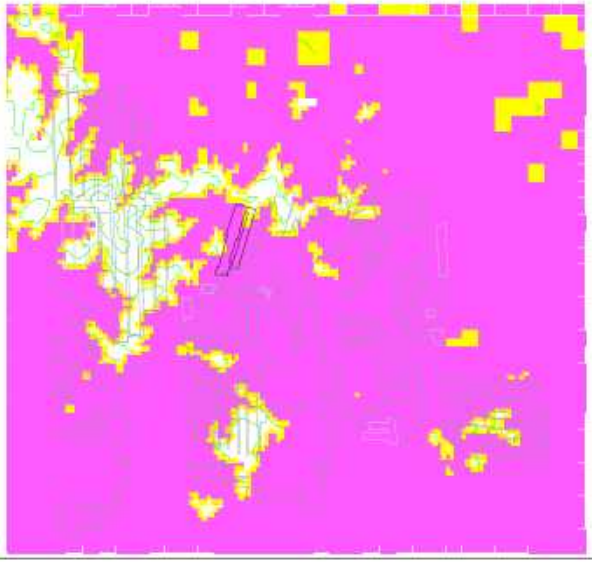
Reference: 68229_R01RevA_APR_03c.



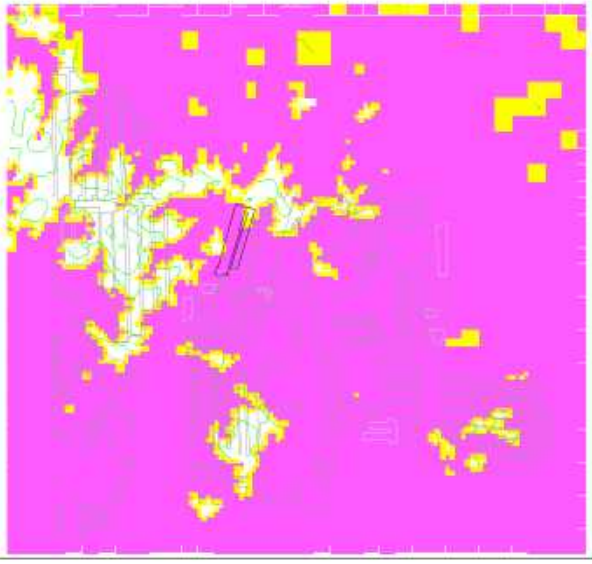
December 2009 (SP081)



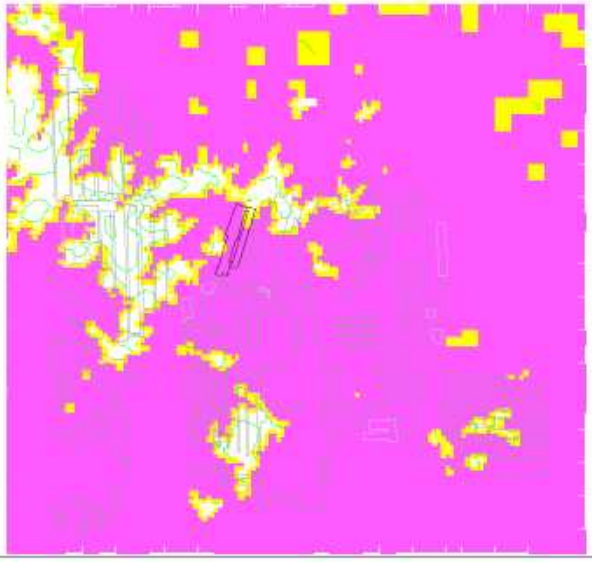
June 2012 (SP091)



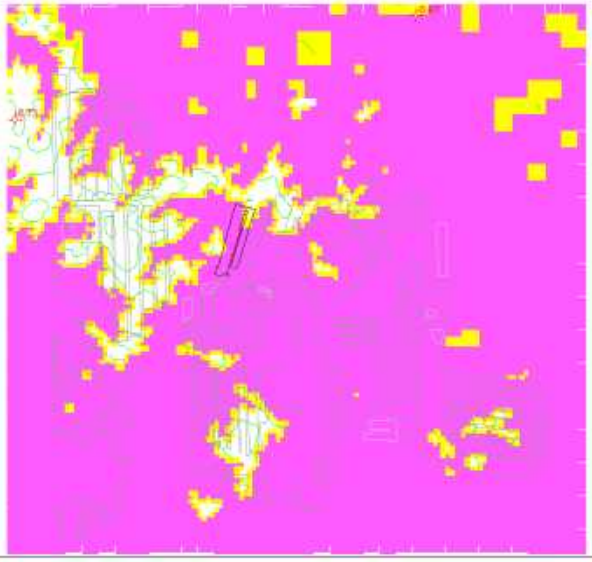
March 2015 (SP102)



June 2017 (SP111)



December 2018 (SP117) Scale 1:182,000 @A4: 0 1 2km



December 2020 (SP125) Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

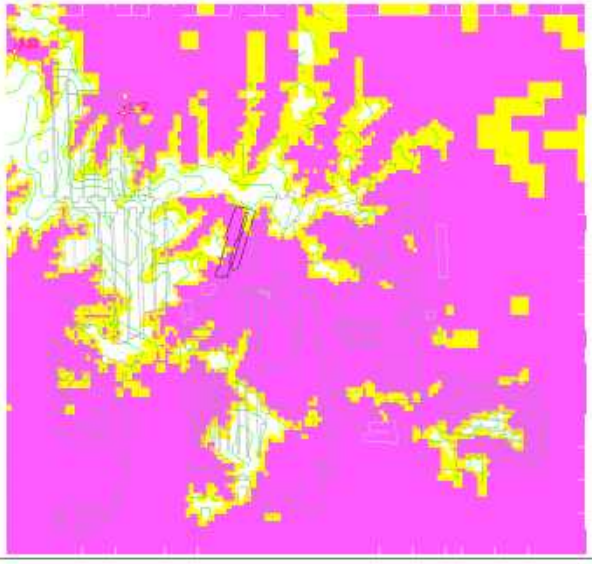
Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

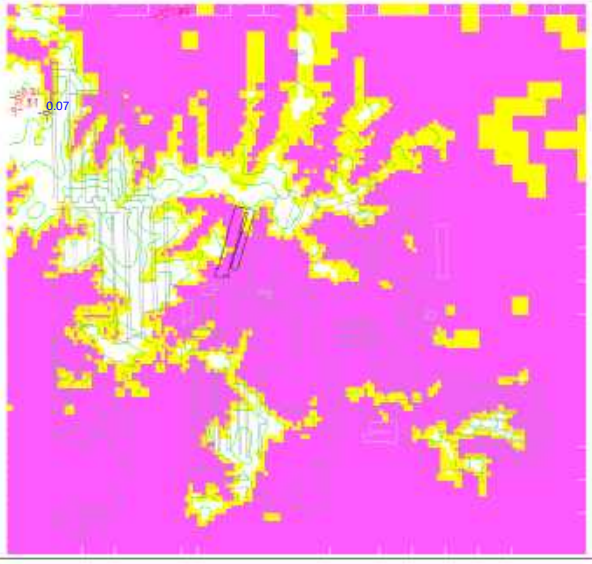
Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Shale (YS2) (Layer 04)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-04** JBS&G

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L04.grf

Reference: 68229_R01RevA_APR_03c.



December 2009 (SP081)



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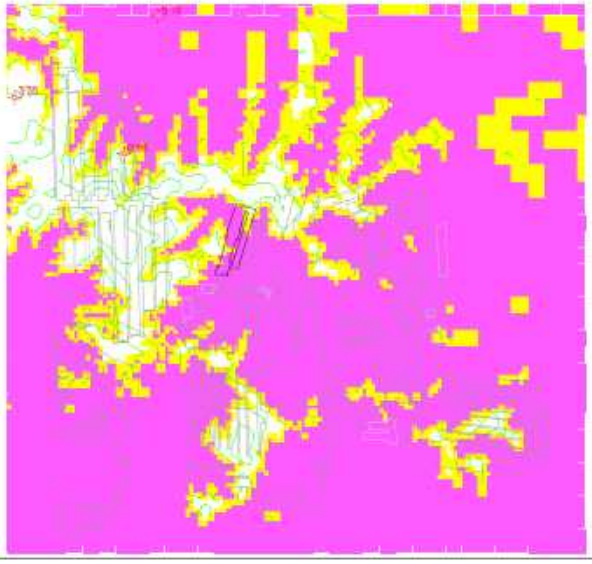

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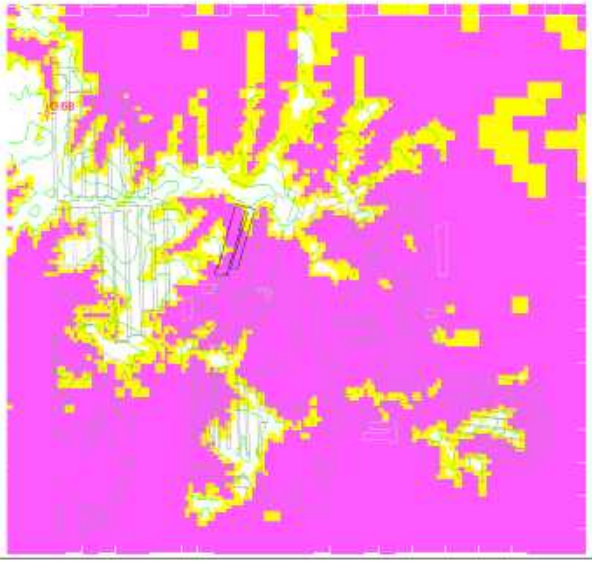

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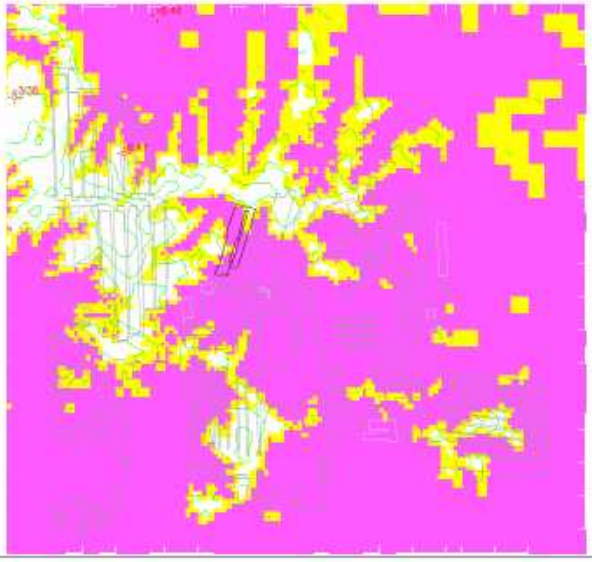
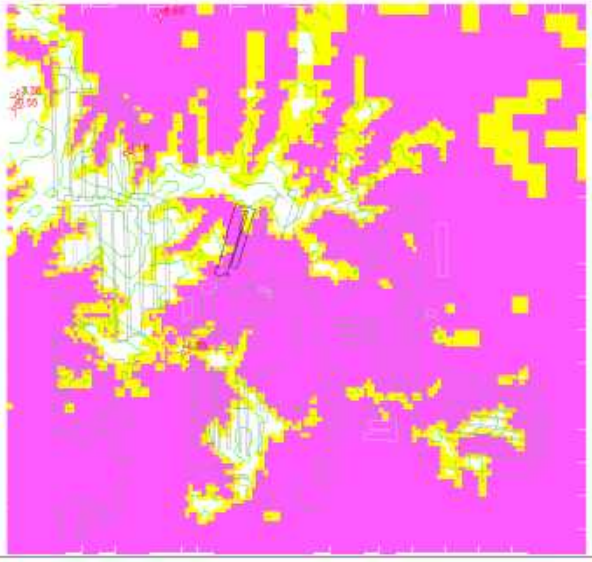


December 2018 (SP117)

Scale 1:182,000 @A4: 0 1 2km



December 2020 (SP125)

Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

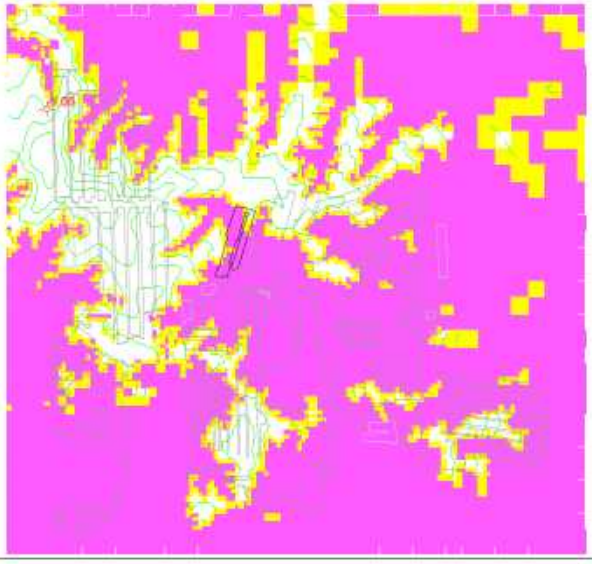
Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Sandstone (Layer 05)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-05**

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L05.grf

Reference: 68229_R01RevA_APR_03c.



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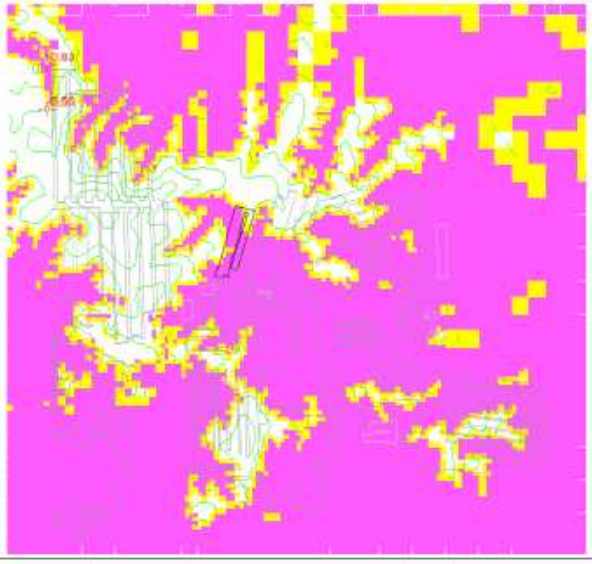

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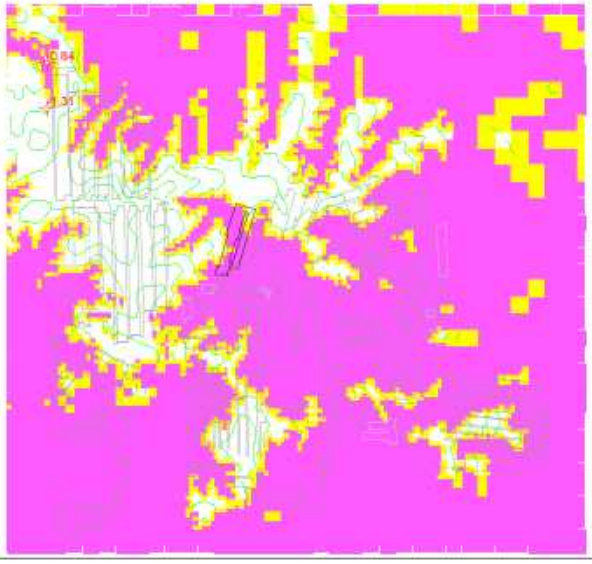
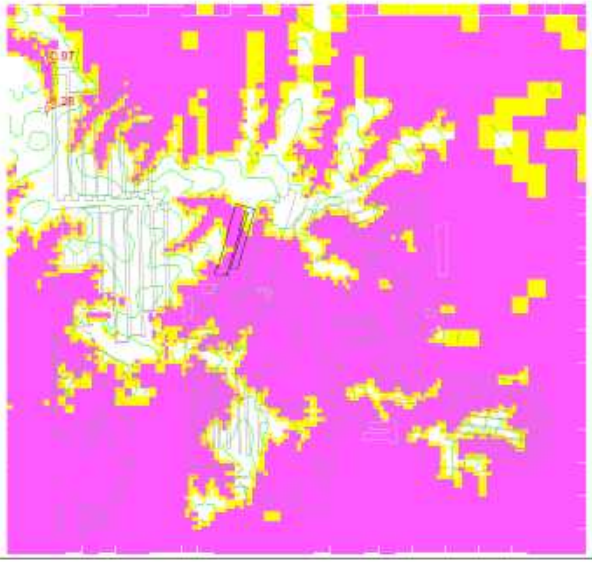


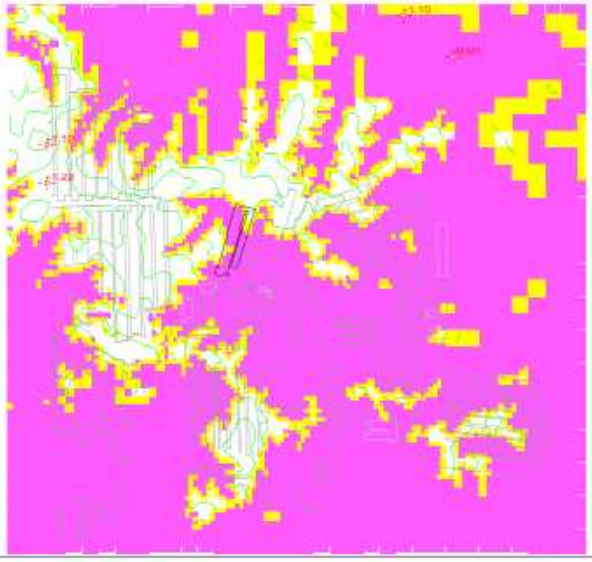
March 2015 (SP102)



June 2017 (SP111)

December 2018 (SP117)

Scale 1:182,000 @A4: 0 1 2km



December 2020 (SP125)

Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

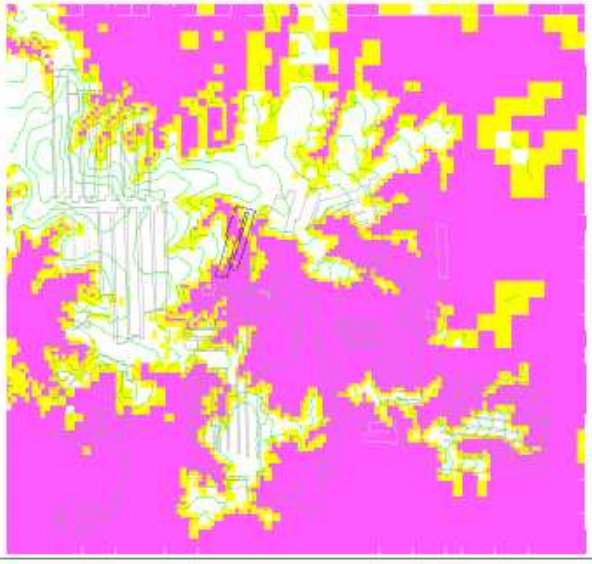
Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Shale (YS3) (Layer 06)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-06**

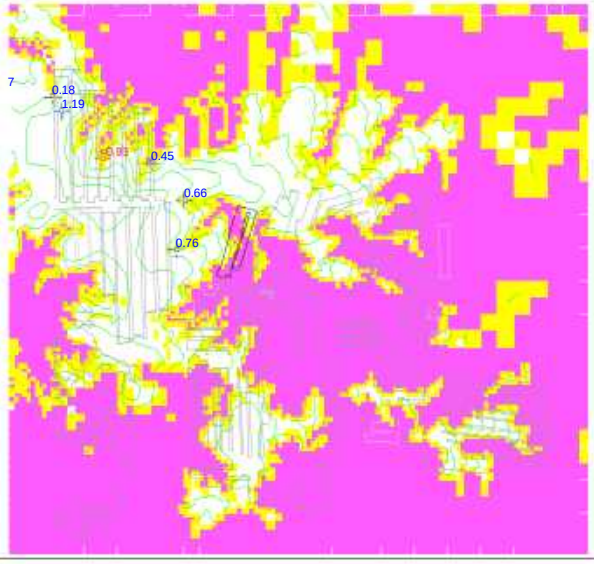
JBS&G

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L06.grf

Reference: 68229_R01RevA_APR_03c.



December 2009 (SP081)



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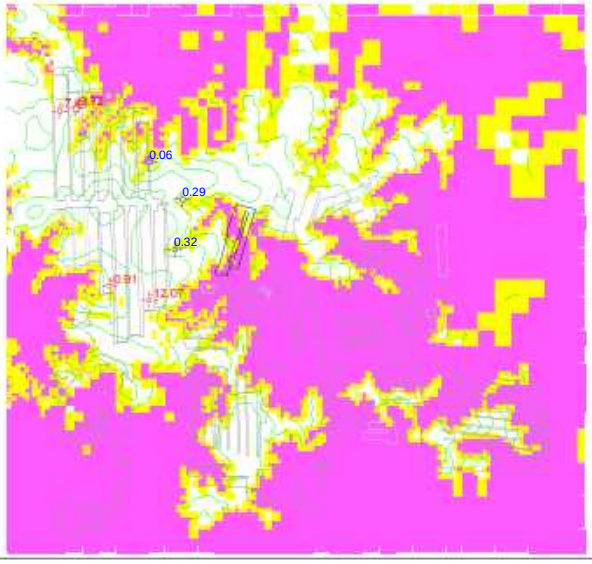

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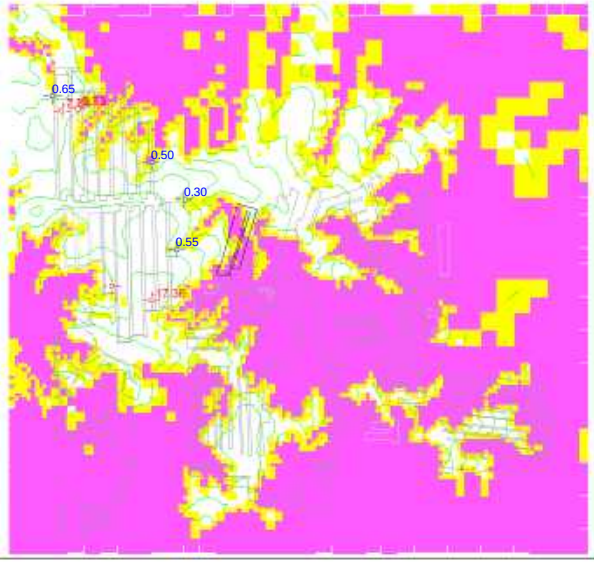

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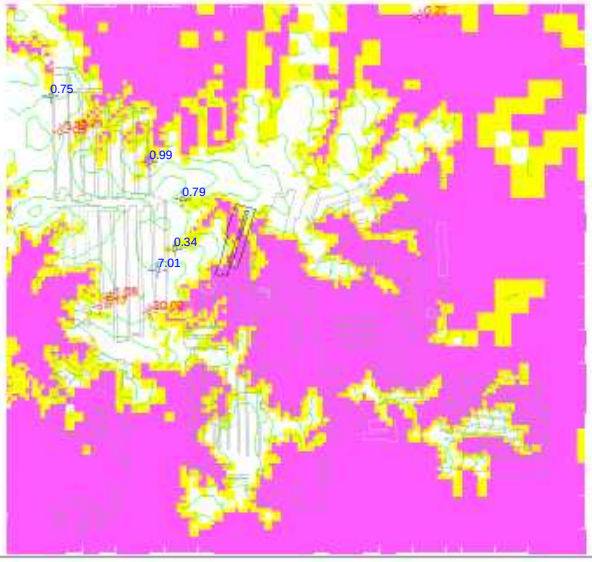
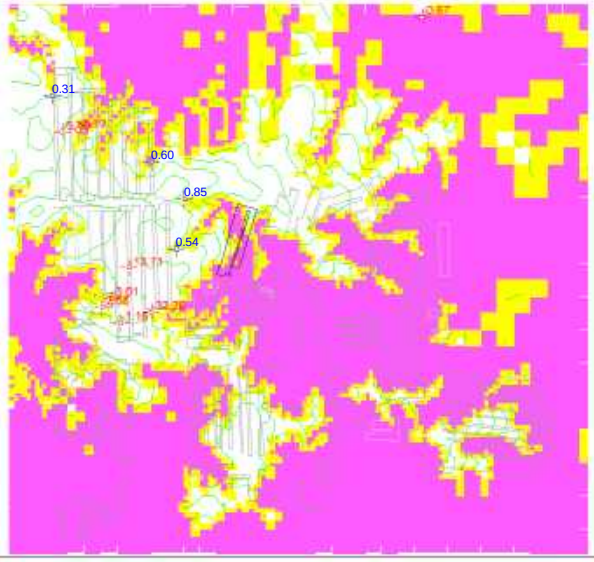


December 2018 (SP117)

Scale 1:182,000 @A4: 0 1 2km



December 2020 (SP125)

Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

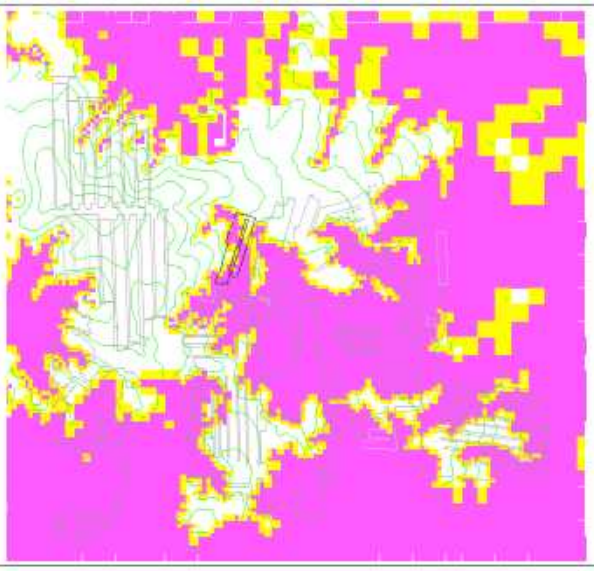
Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

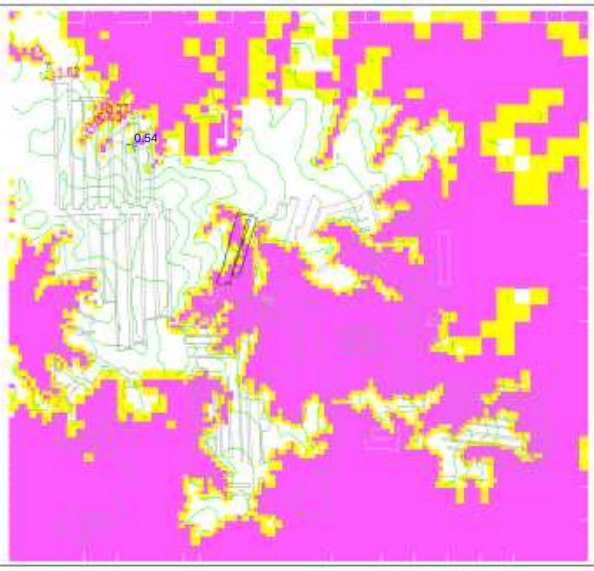
Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Sandstone (Layer 07)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-07**

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L07.grf

Reference: 68229_R01RevA_APR_03c.



December 2009 (SP081)



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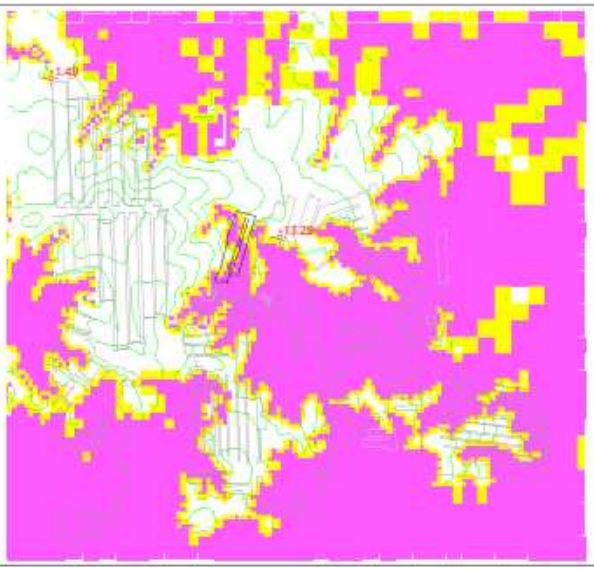

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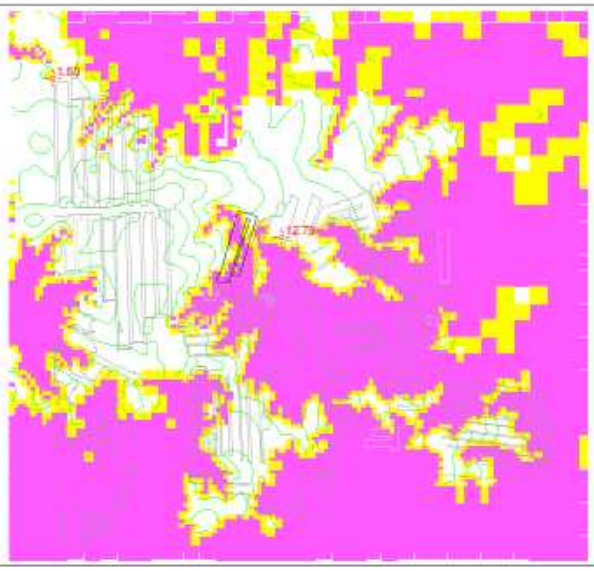

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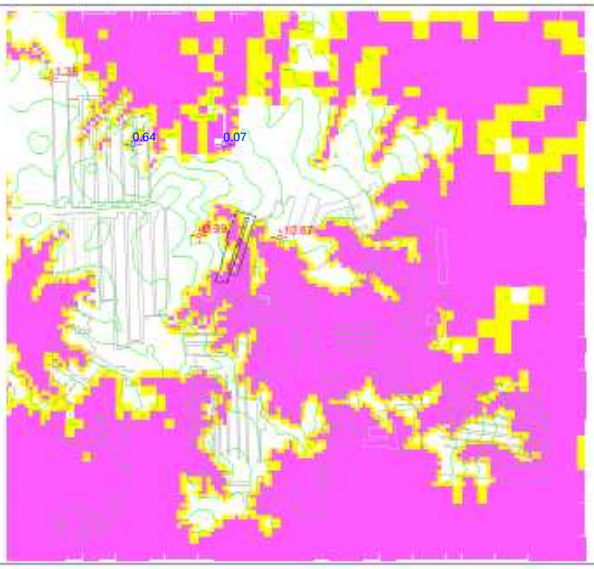
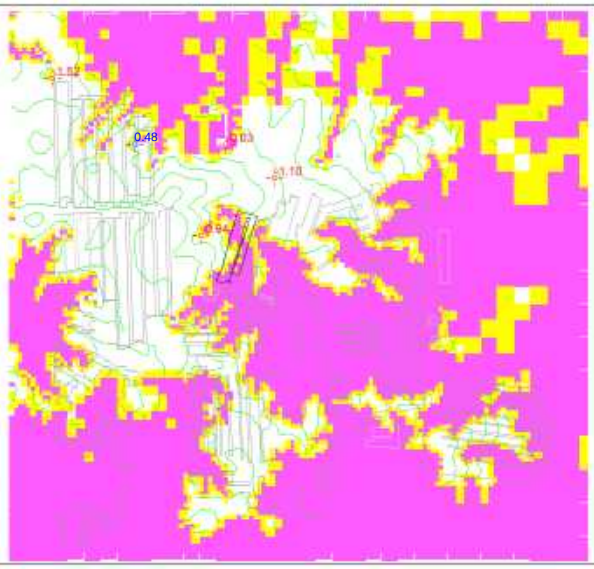


December 2018 (SP117)

Scale 1:182,000 @A4: 0 1 2km



December 2020 (SP125)

Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Shale (YS4) (Layer 08)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-08**

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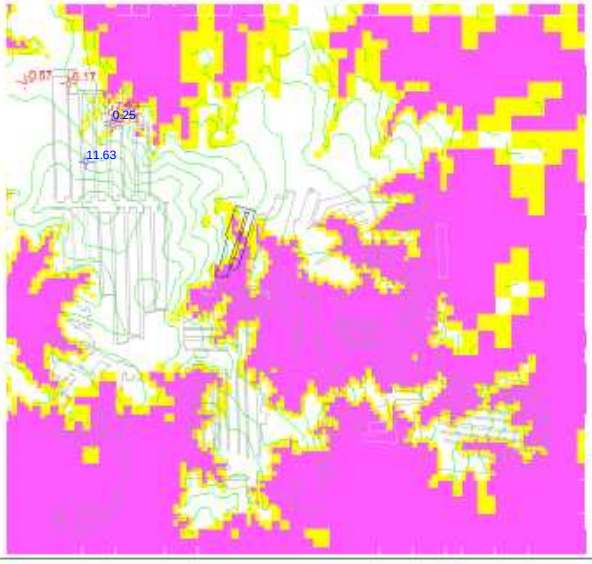
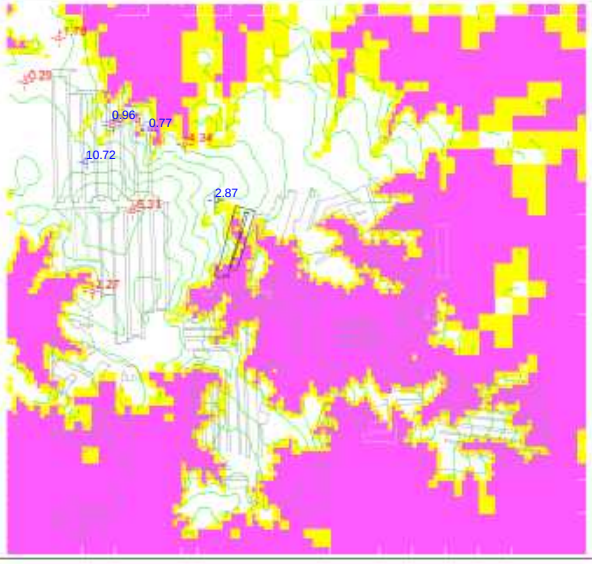
File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L08.grf

Reference: 68229_R01RevA_APR_03c.



December 2009 (SP081)



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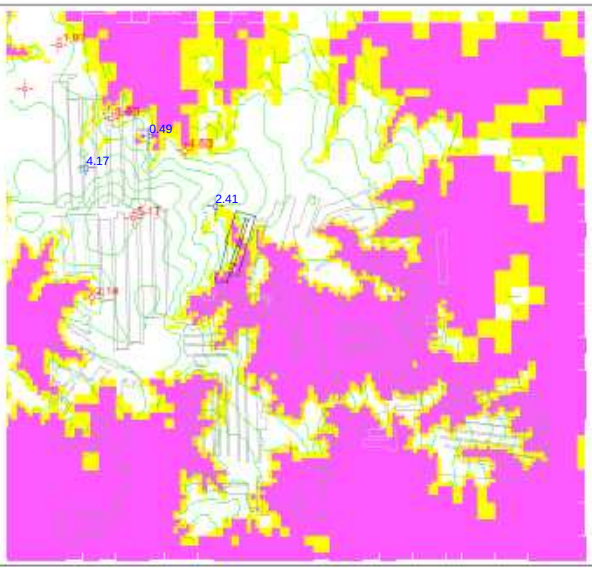

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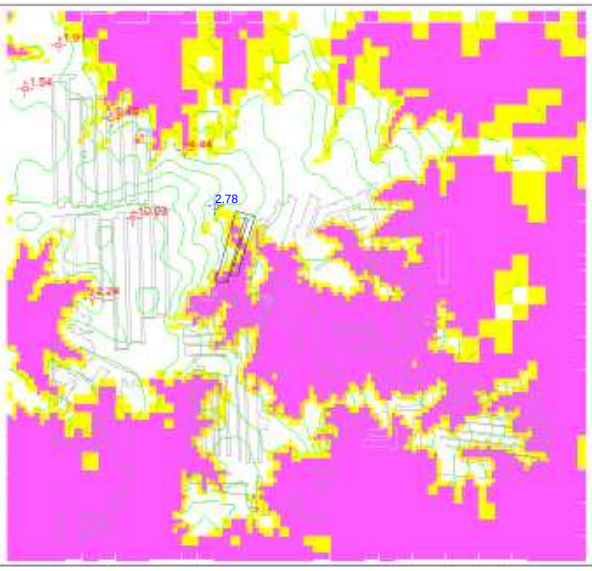

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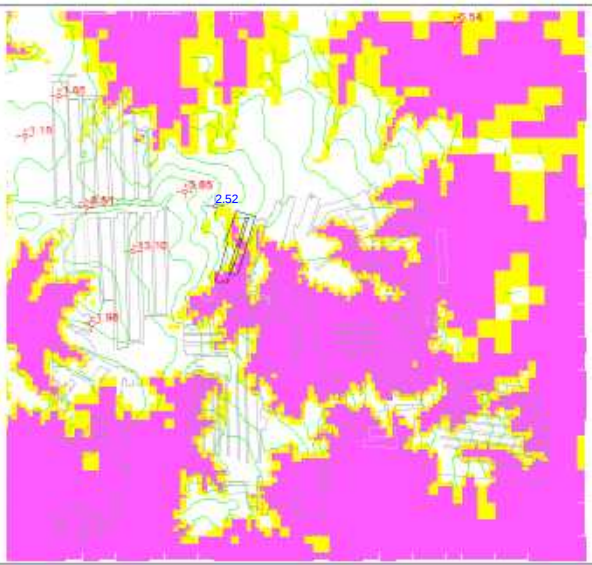
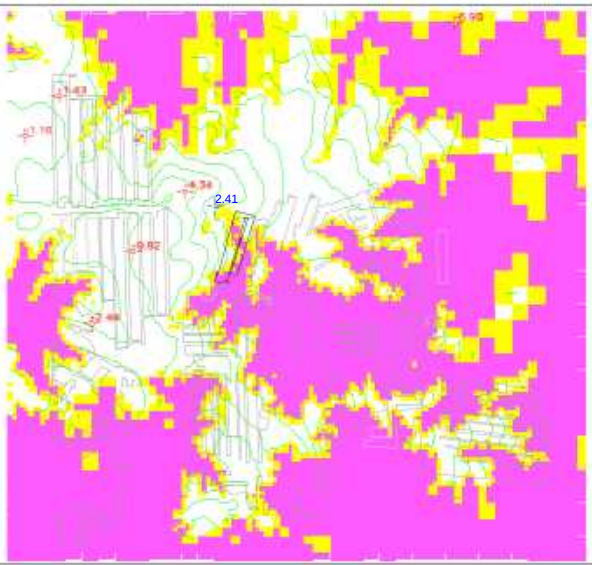


December 2018 (SP117)

Scale 1:182,000 @A4: 0 1 2km



December 2020 (SP125)

Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

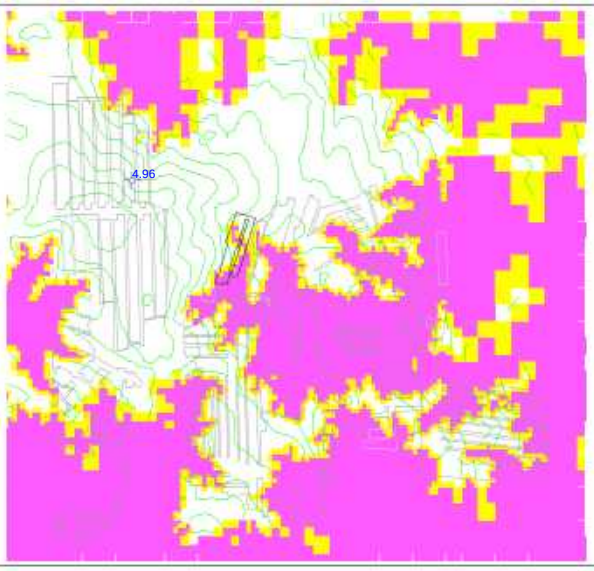
Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

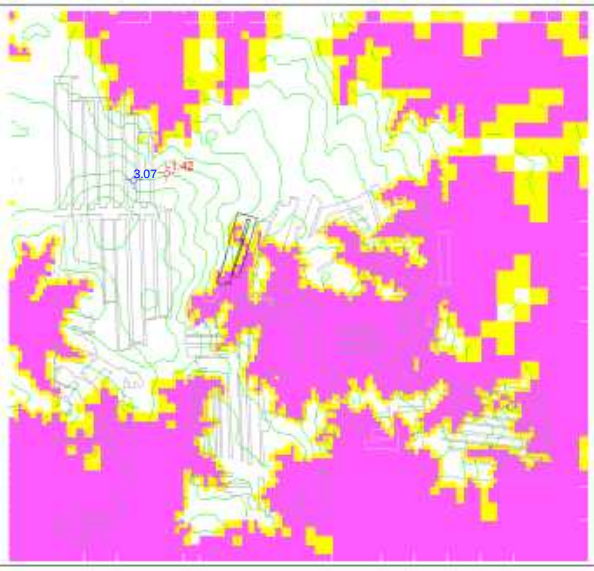
Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Sandstone (Layer 09)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-09**

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L09.grf

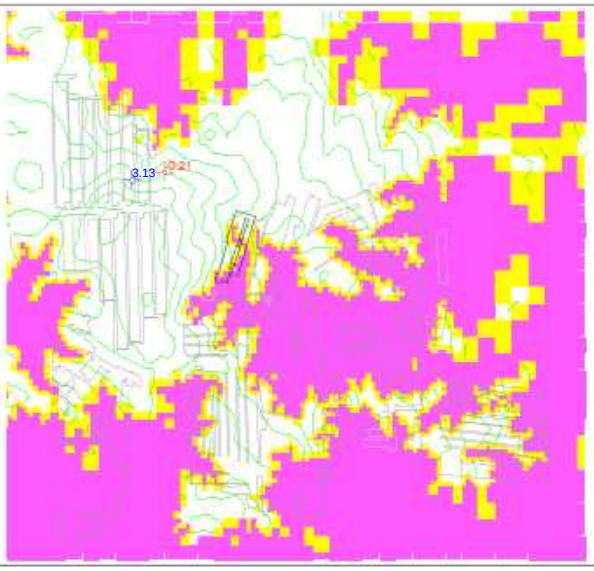
Reference: 68229_R01RevA_APR_03c.



December 2009 (SP081)



June 2012 (SP091)



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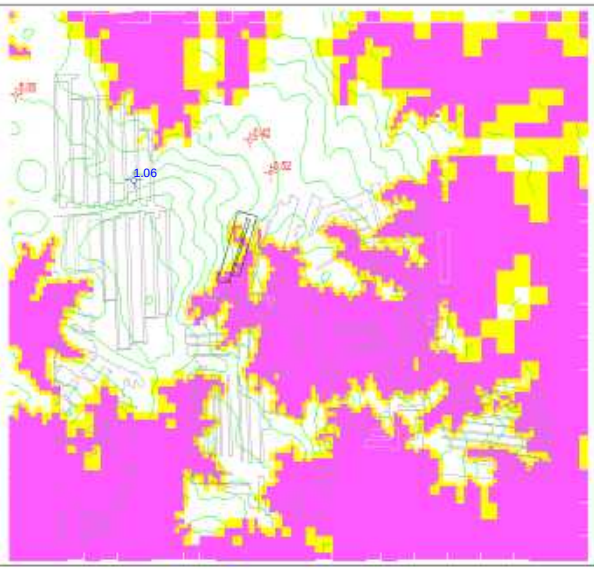
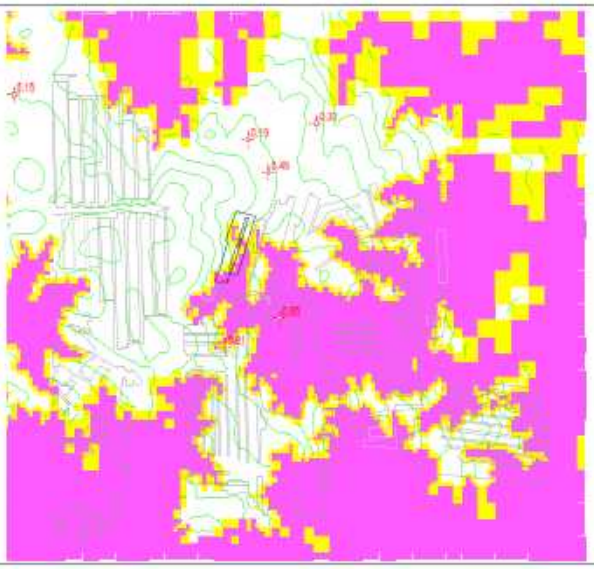


June 2017 (SP111)



December 2018 (SP117)

Scale 1:182,000 @A4: 0 1 2km

December 2020 (SP125)

Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

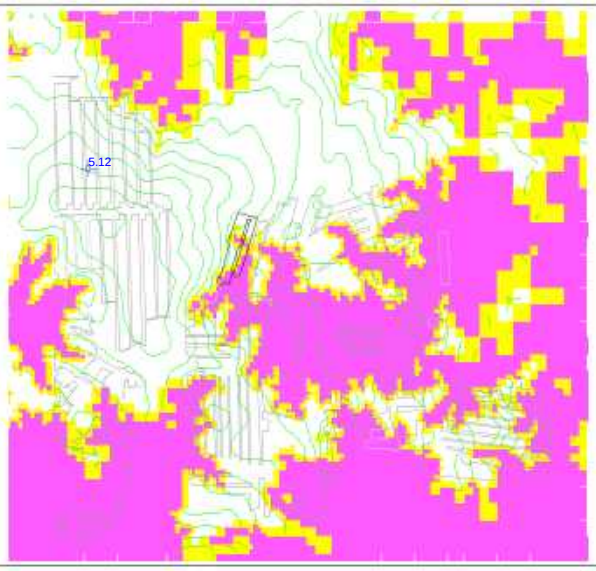
Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Shale (YS5) (Layer 10)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-10**

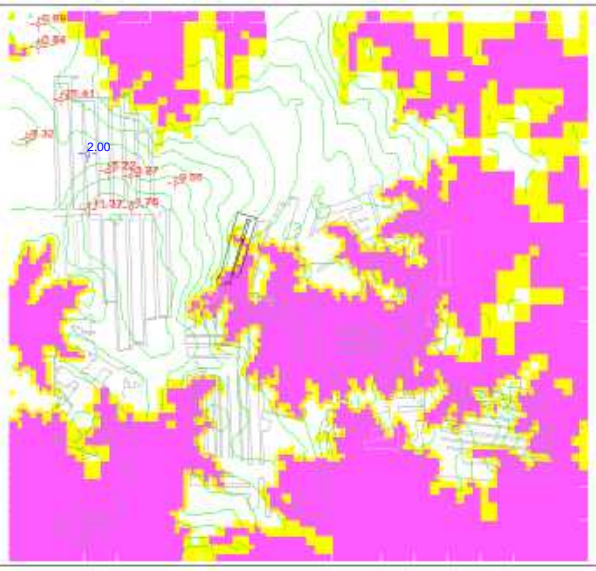
JBS&G

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L10.grf

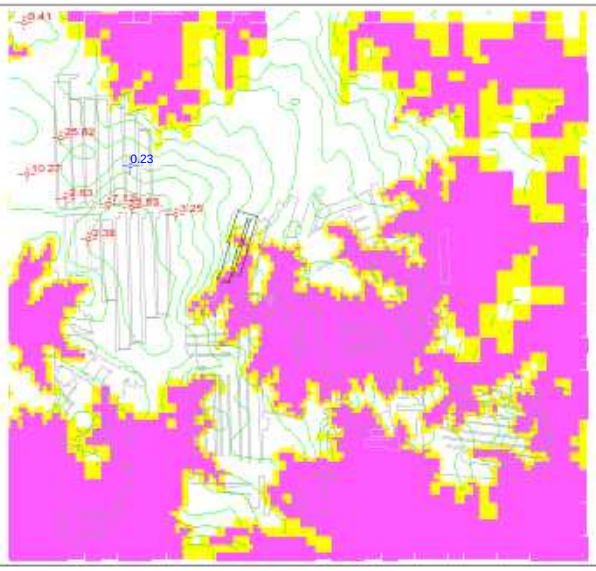
Reference: 68229_R01RevA_APR_03c.



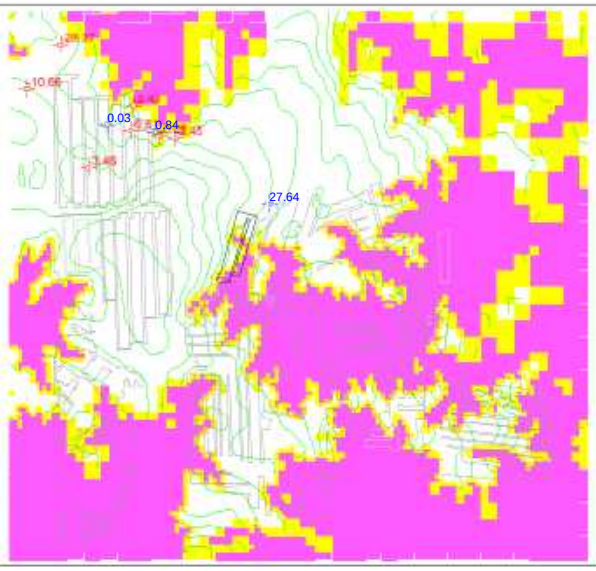
December 2009 (SP081)



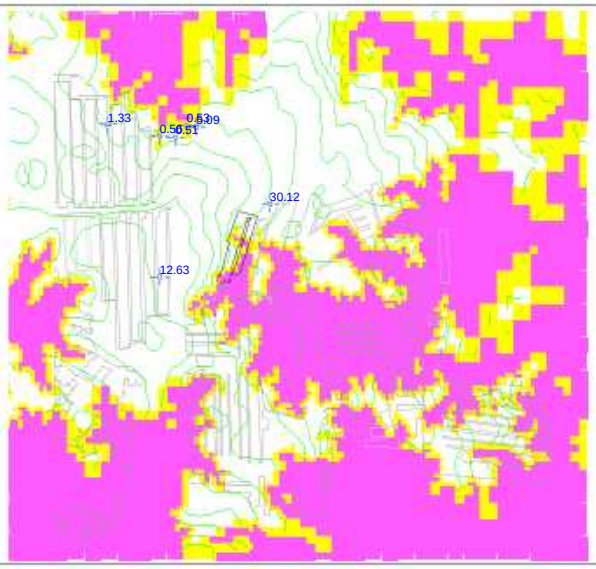
June 2012 (SP091)



March 2015 (SP102)

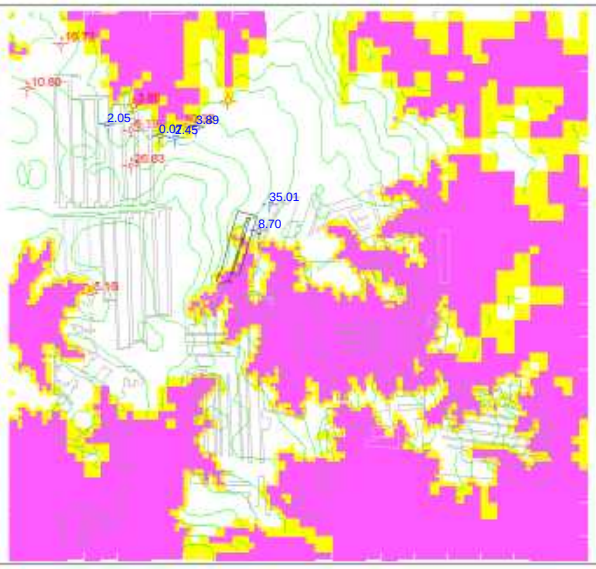


June 2017 (SP111)



December 2018 (SP117)

Scale 1:182,000 @A4: 0 1 2km



December 2020 (SP125)

Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

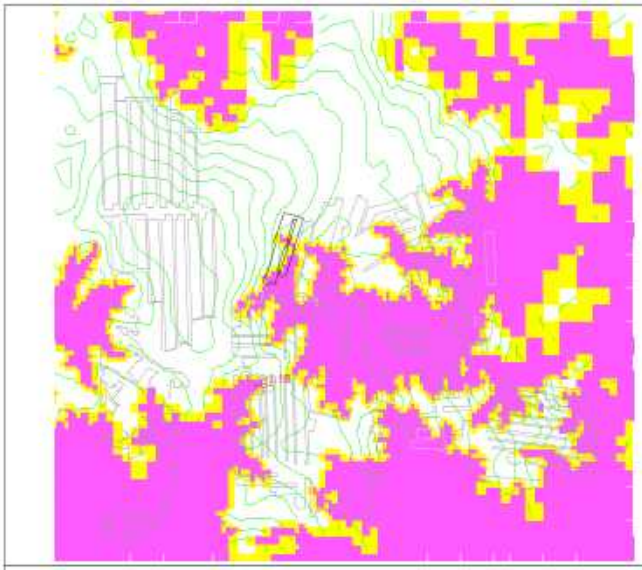
Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

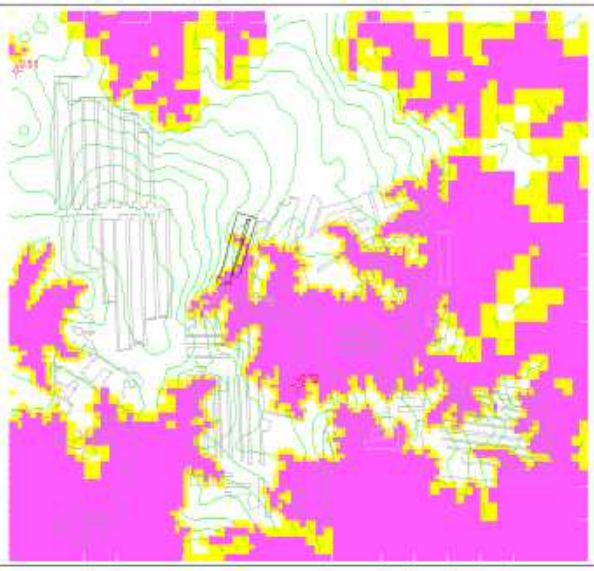
Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Sandstone (Layer 11)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-11**

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L11.grf

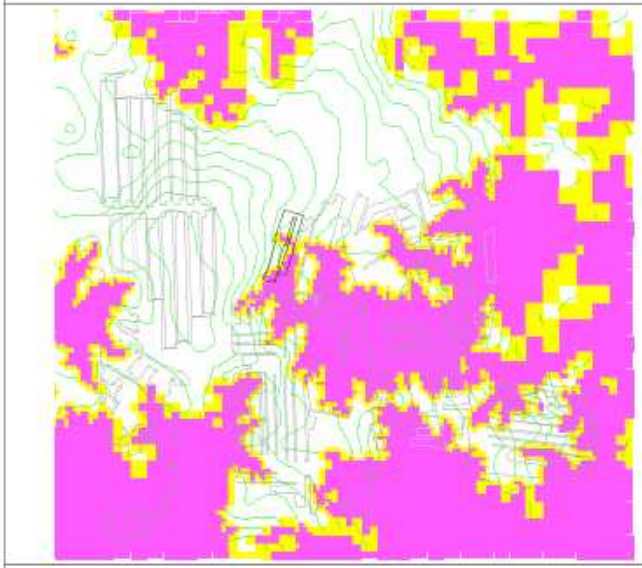
Reference: 68229_R01RevA_APR_03c.



December 2009 (SP081)



June 2012 (SP091)



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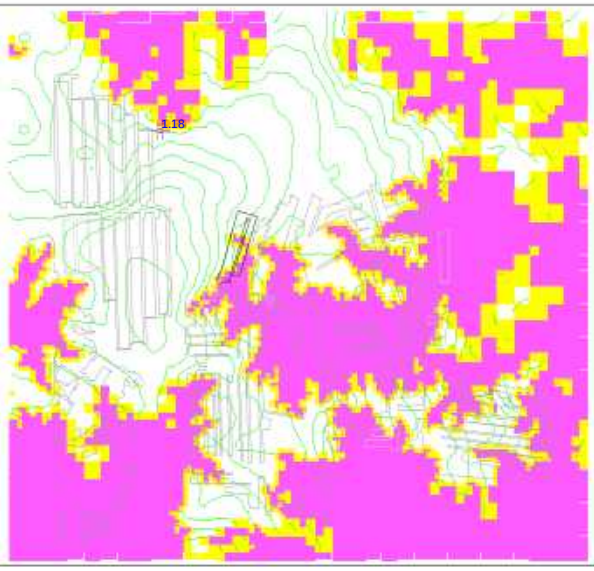
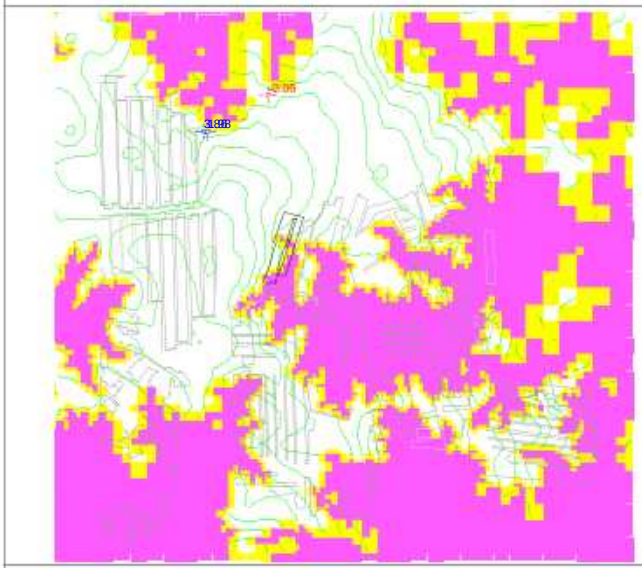
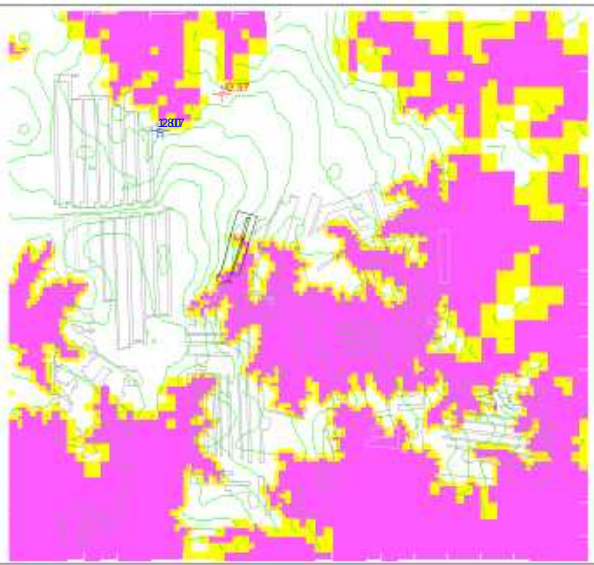


June 2017 (SP111)



December 2018 (SP117)

Scale 1:182,000 @A4: 0 1 2km



December 2020 (SP125)

Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

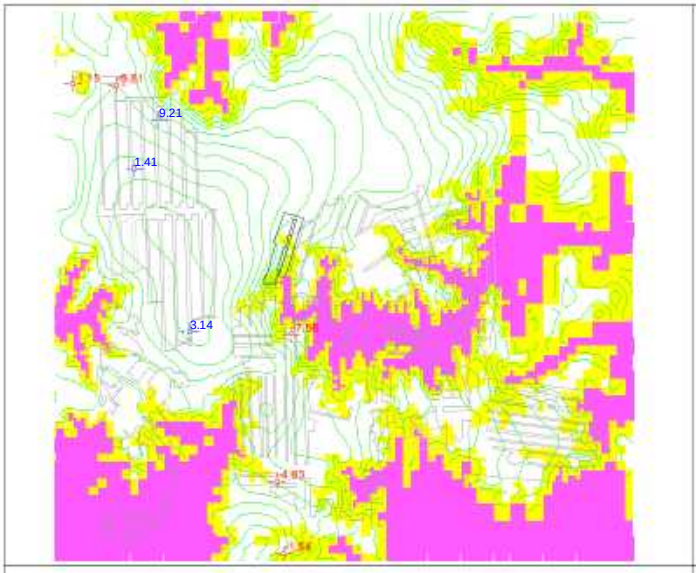
Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Shale (YS6) (Layer 12)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-12**

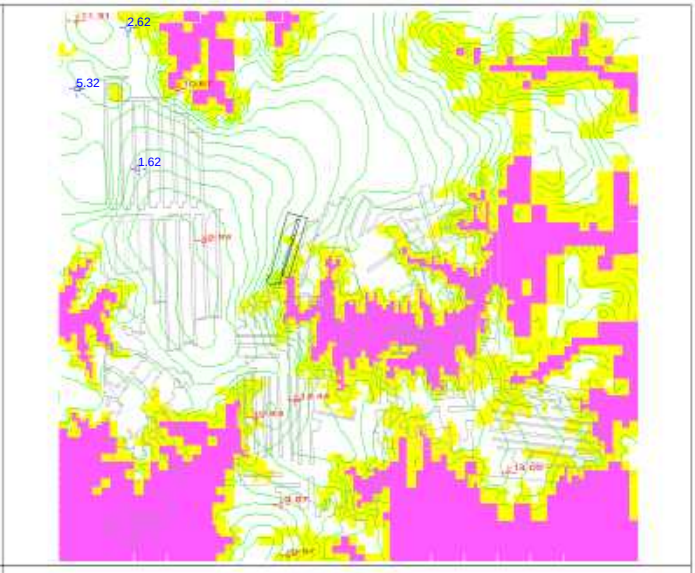
JBS&G

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L12.grf

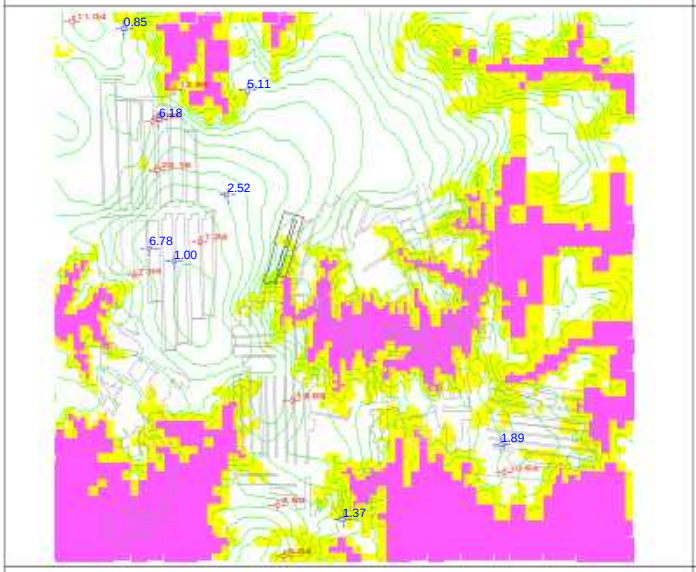
Reference: 68229_R01RevA_APR_03c.



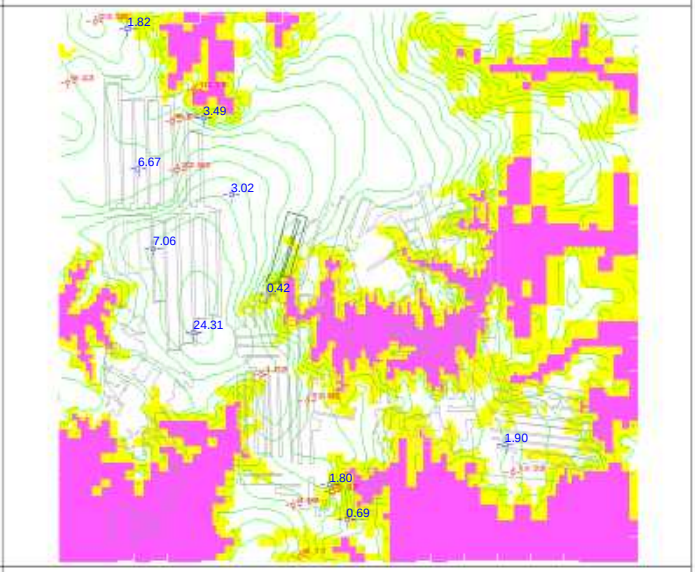
December 2009 (SP081)



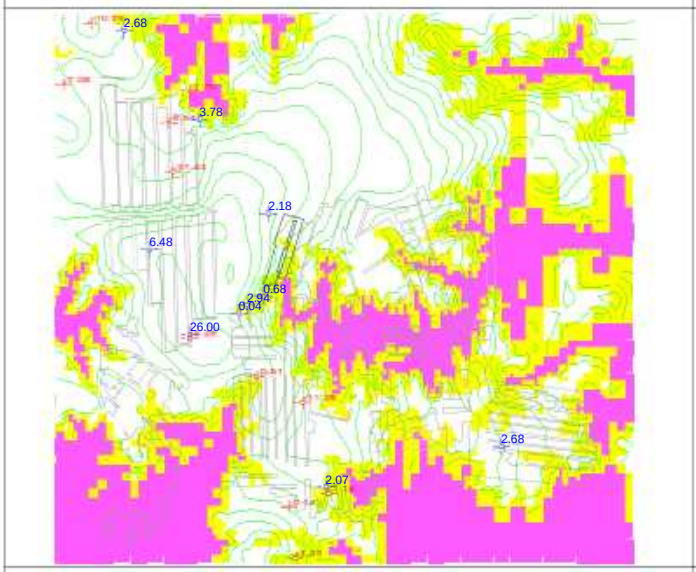
June 2012 (SP091)



March 2015 (SP102)

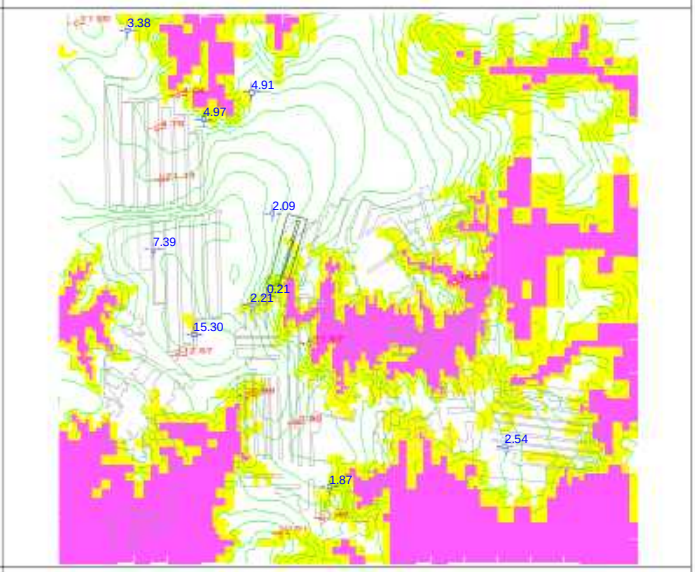


June 2017 (SP111)



December 2018 (SP117)

Scale 1:182,000 @A4: 0 1 2km



December 2020 (SP125)

Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

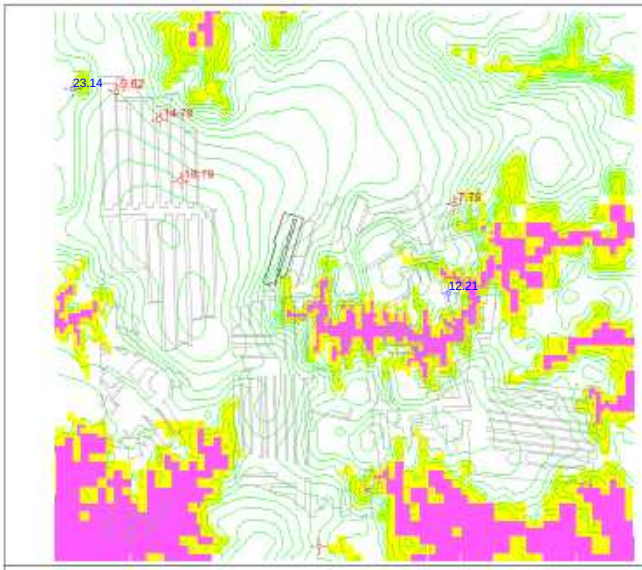
Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

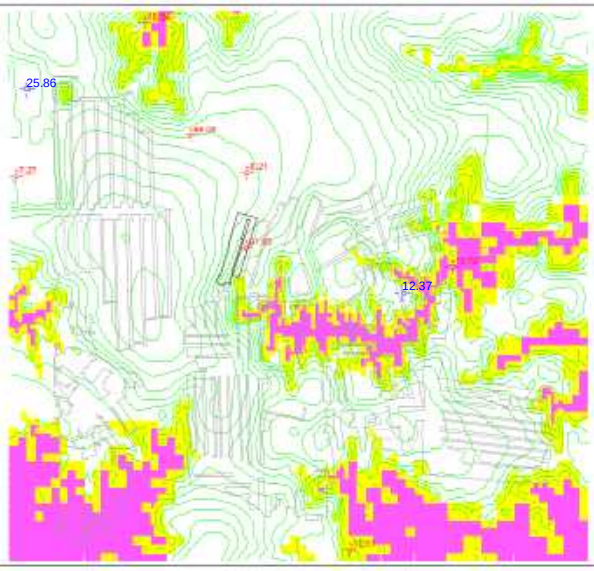
Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Banks Wall Sandstone (Layer 13)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-13**

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L13.grf

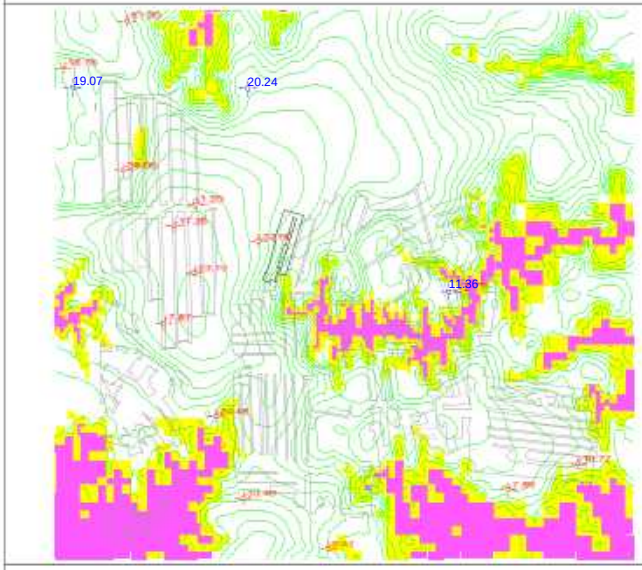
Reference: 68229_R01RevA_APR_03c.



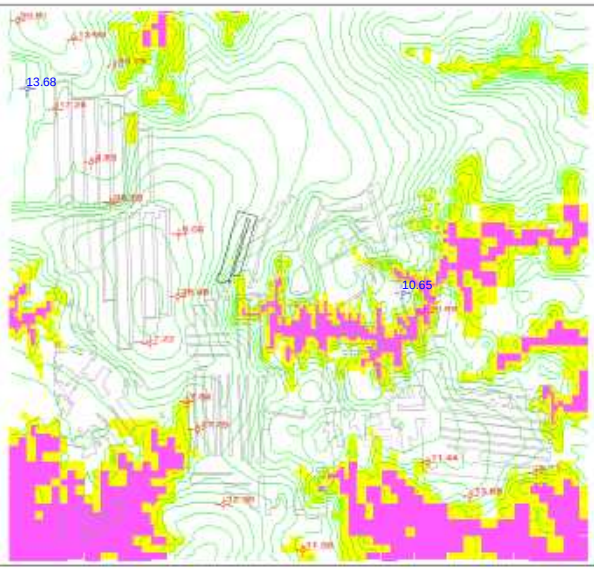
December 2009 (SP081)



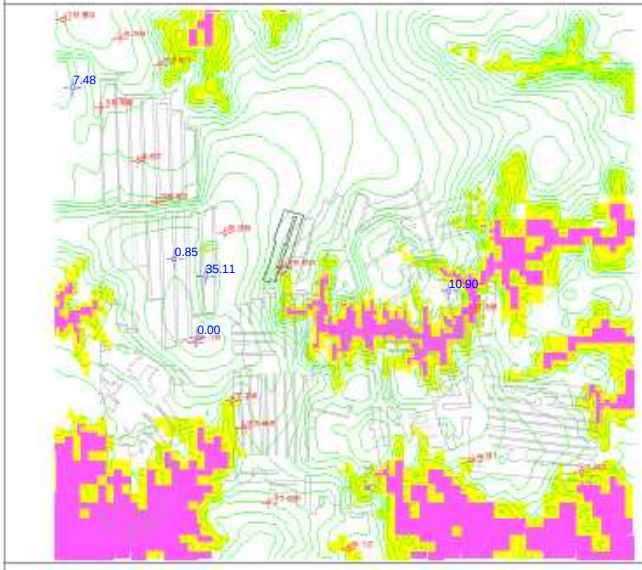
June 2012 (SP091)



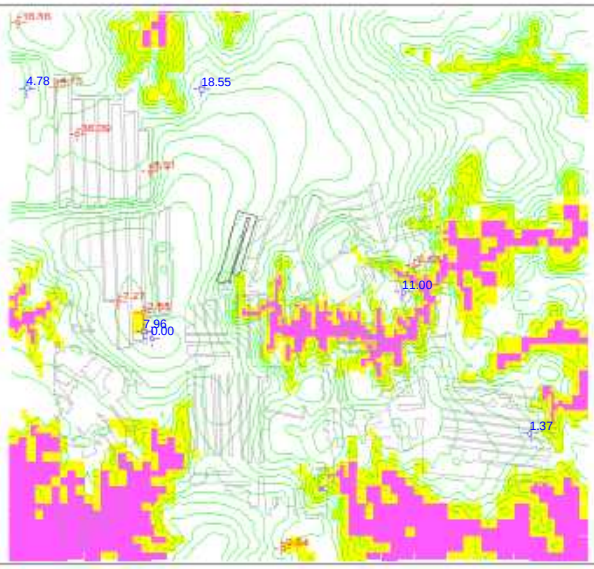
March 2015 (SP102)



June 2017 (SP111)



December 2018 (SP117) Scale 1:182,000 @A4: 0 1 2km



December 2020 (SP125) Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

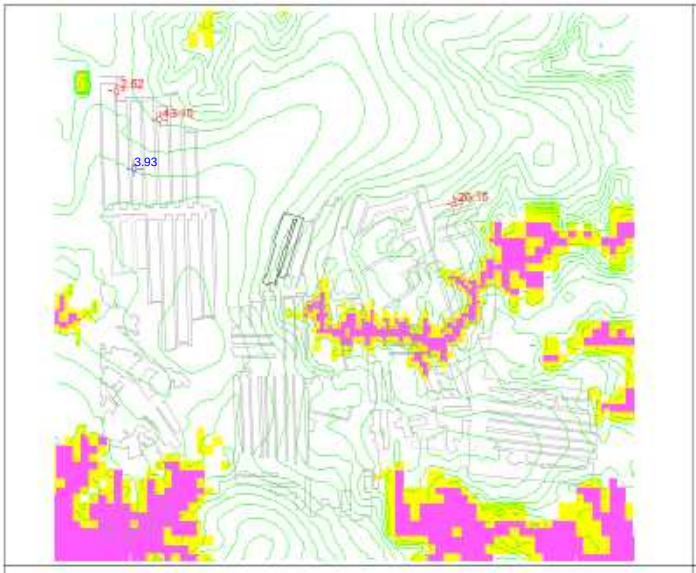
Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

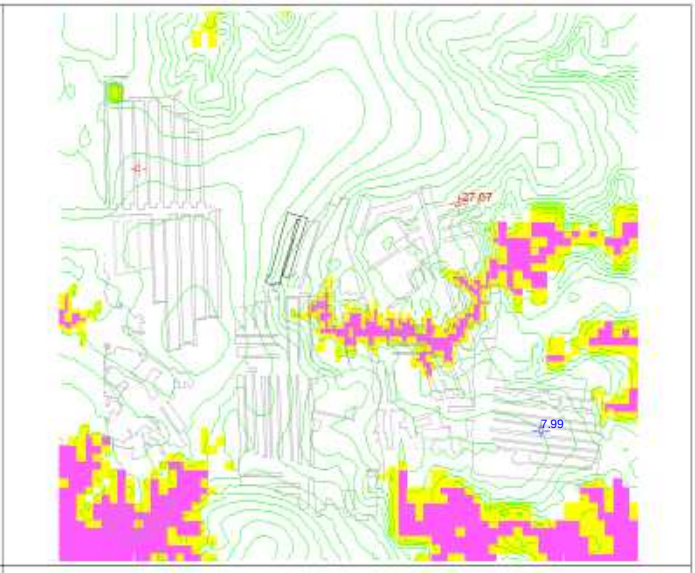
Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Banks Wall Sandstone (Layer 14)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-14** JBS&G

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L14.grf

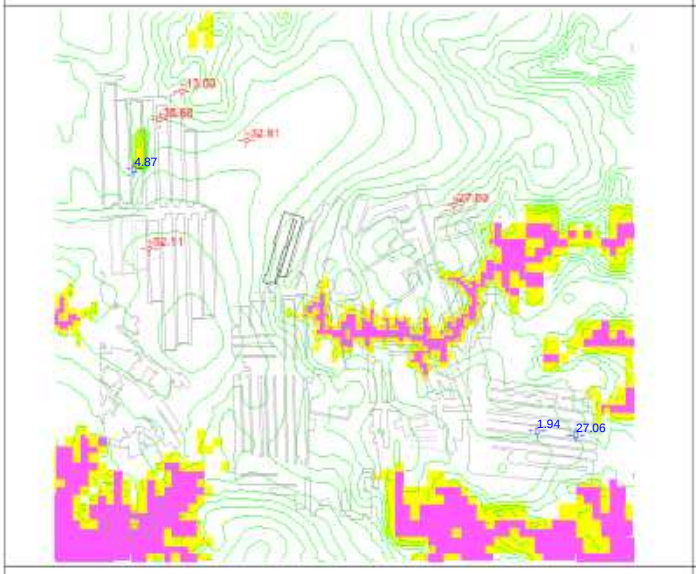
Reference: 68229_R01RevA_APR_03c.



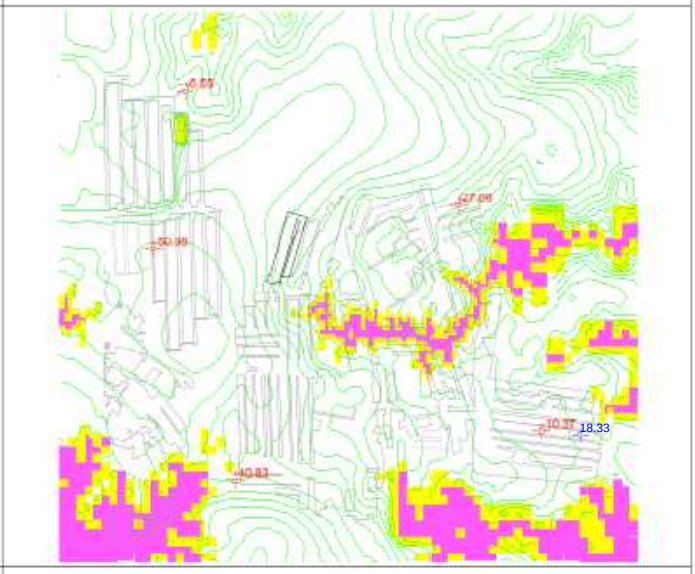
December 2009 (SP081)



June 2012 (SP091)



March 2015 (SP102)



June 2017 (SP111)

December 2018 (SP117) Scale 1:182,000 @A4: 0 1 2km

December 2020 (SP125) Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

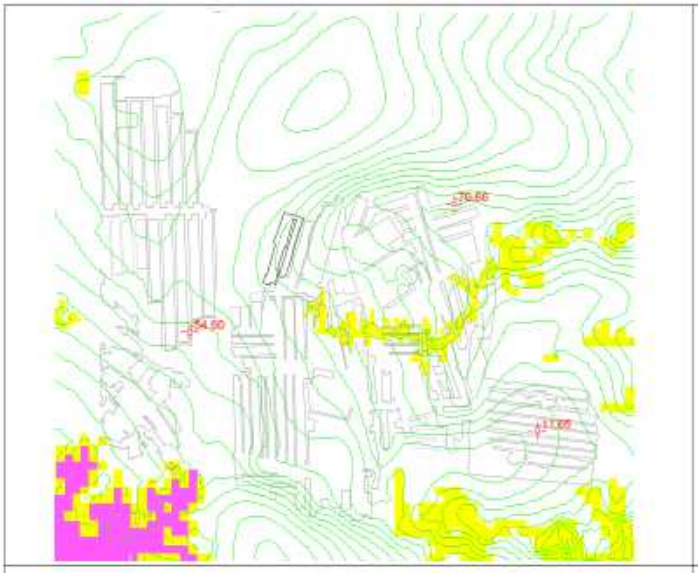
Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

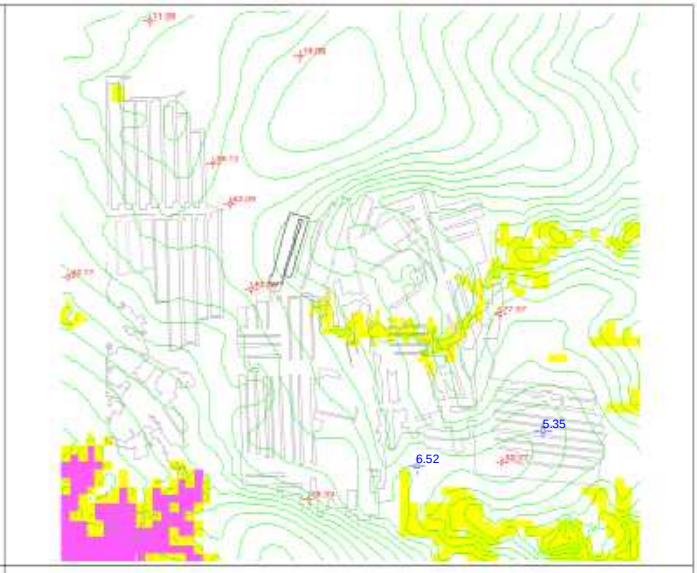
Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Mount York Claystone (Layer 15)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-15**

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L15.grf

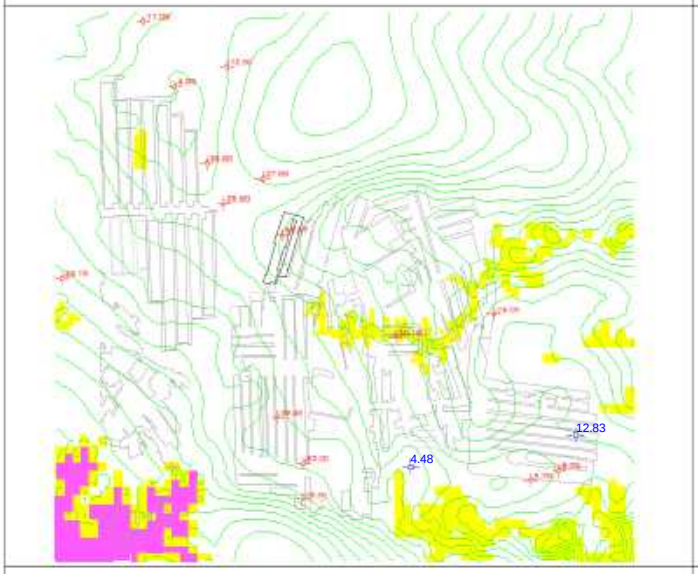
Reference: 68229_R01RevA_APR_03c.



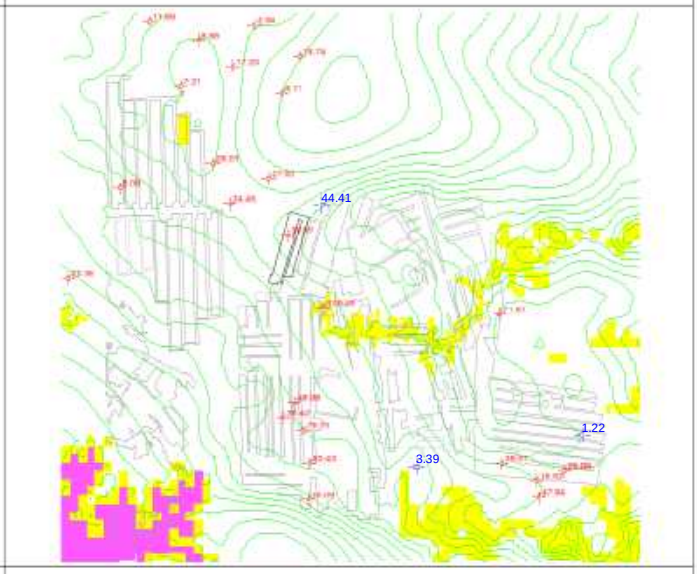
December 2009 (SP081)



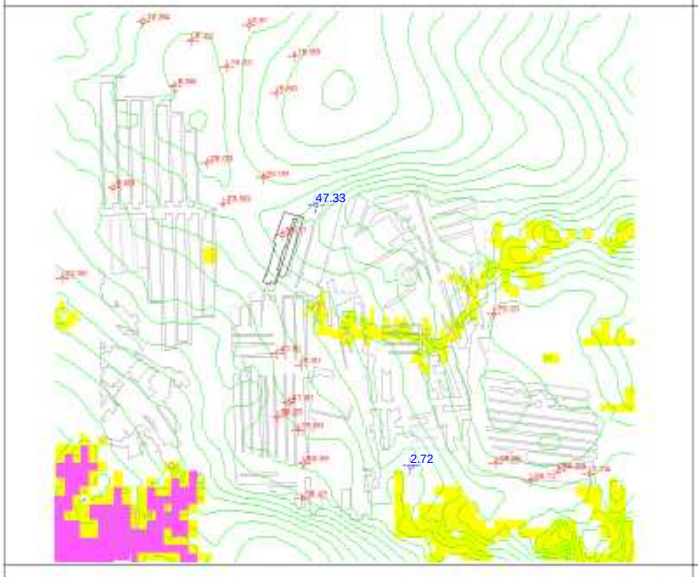
June 2012 (SP091)



March 2015 (SP102)

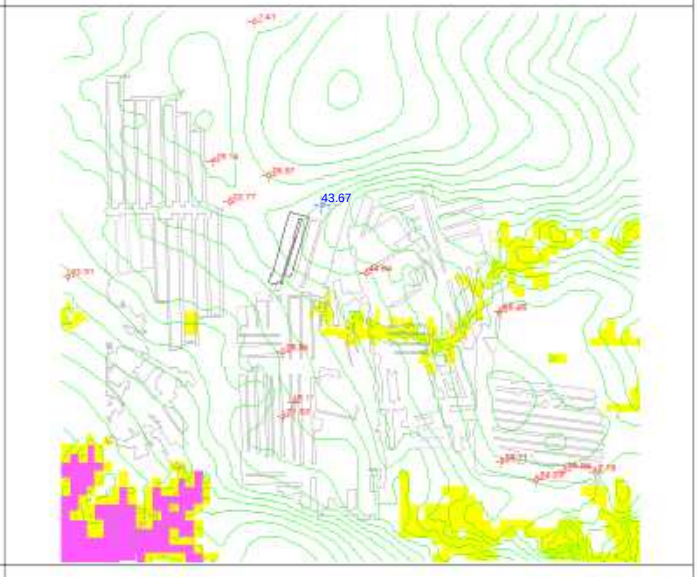


June 2017 (SP111)



December 2018 (SP117)

Scale 1:182,000 @A4: 0 1 2km



December 2020 (SP125)

Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Burra-Moko Head SandStone (Layer 16)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-16**

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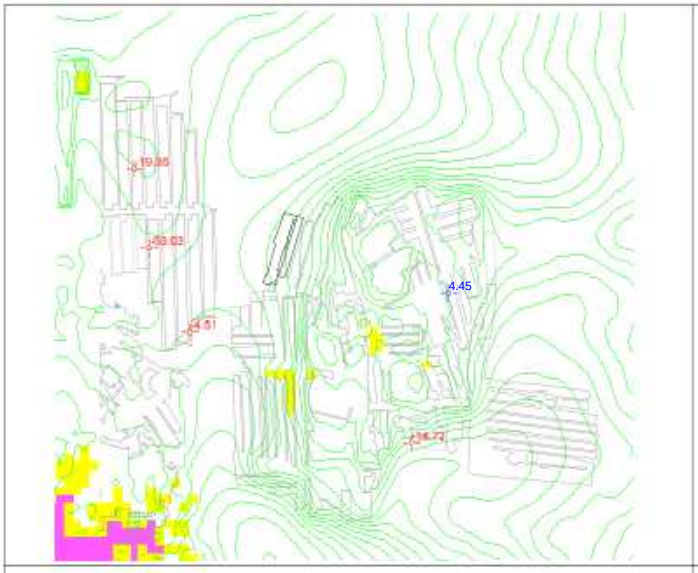
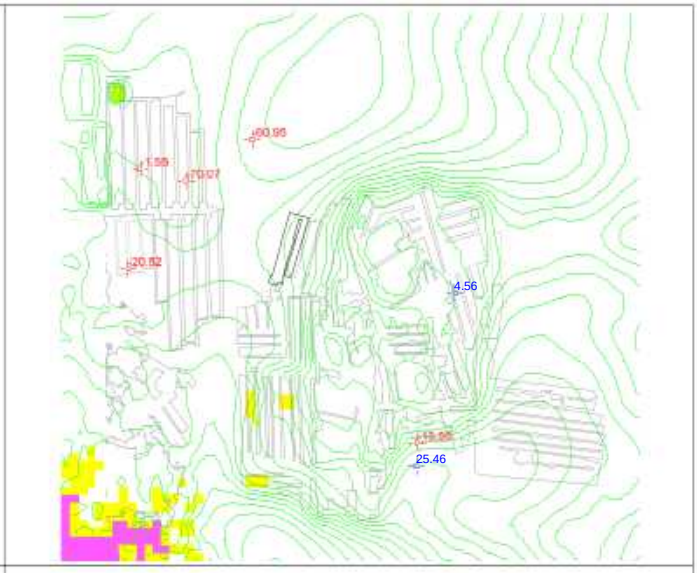
File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L16.grf

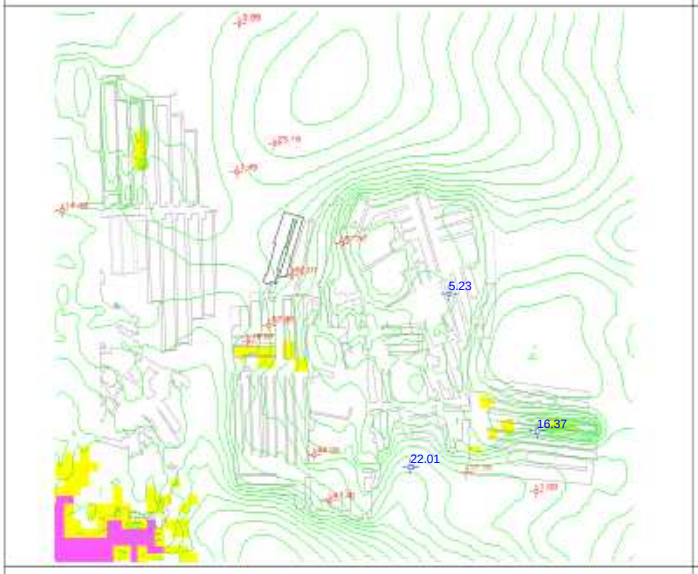
Reference: 68229_R01RevA_APR_03c.



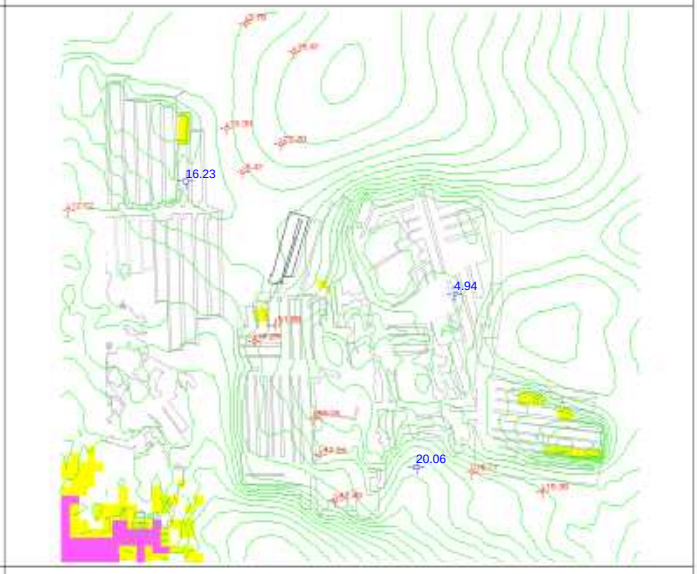
December 2009 (SP081)



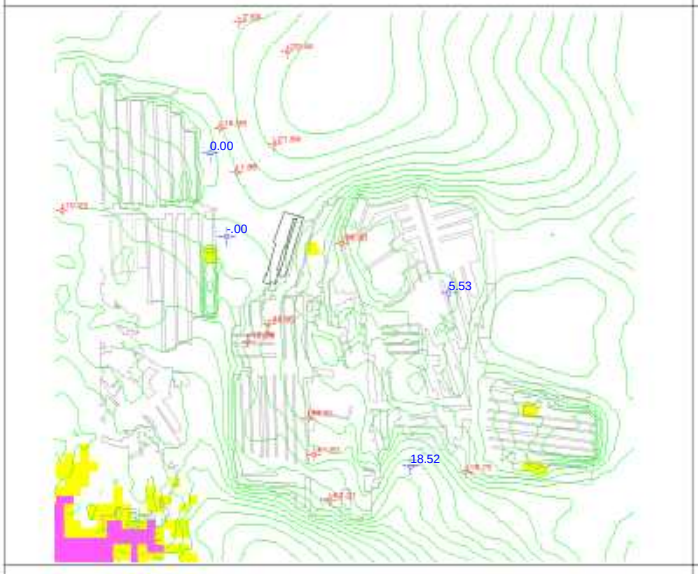
June 2012 (SP091)



March 2015 (SP102)

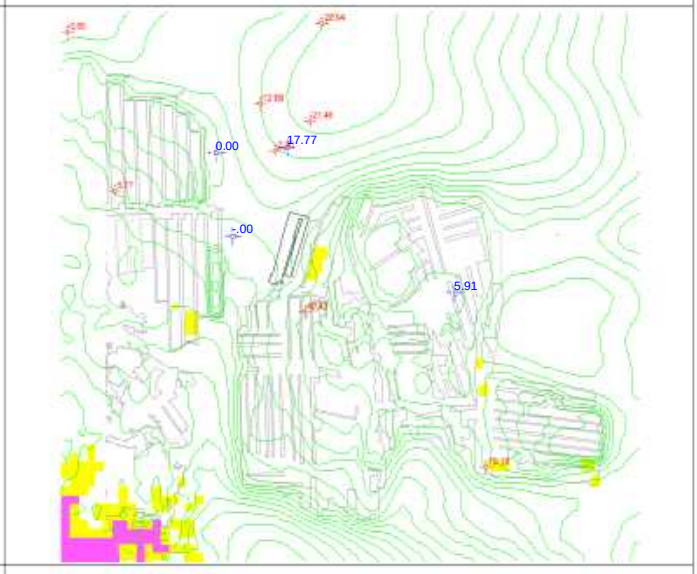


June 2017 (SP111)



December 2018 (SP117)

Scale 1:182,000 @A4: 0 1 2km



December 2020 (SP125)

Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

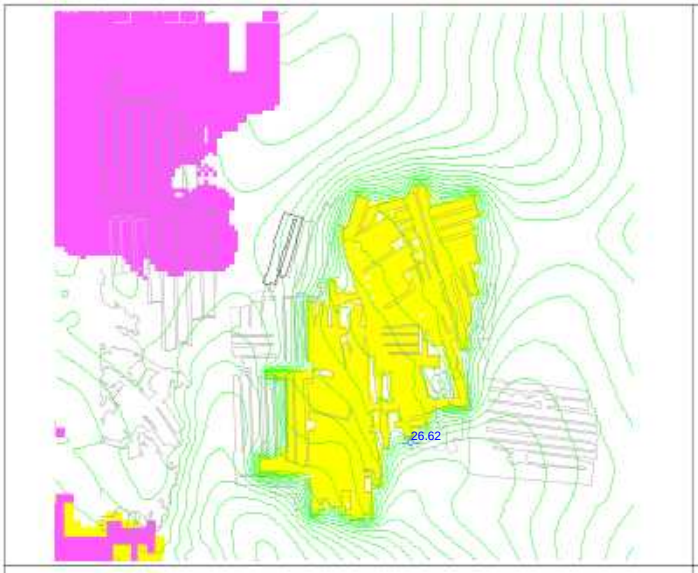
Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Caley Formation (Layer 17)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-17**

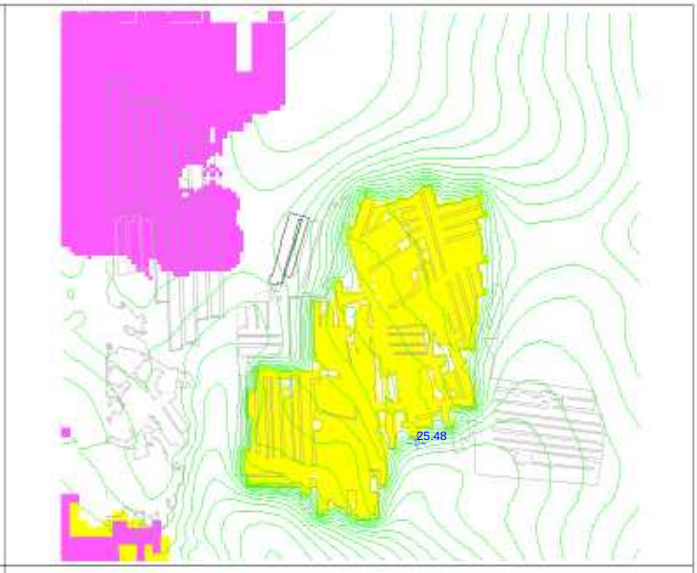
JBS&G

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L17.grf

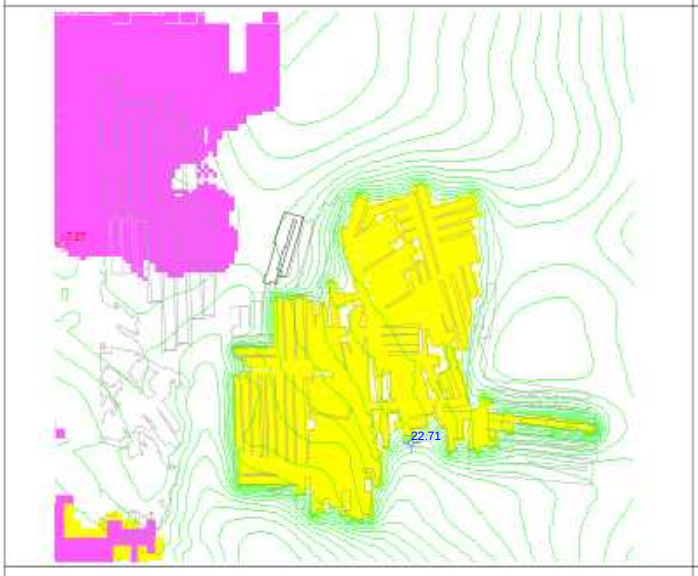
Reference: 68229_R01RevA_APR_03c.



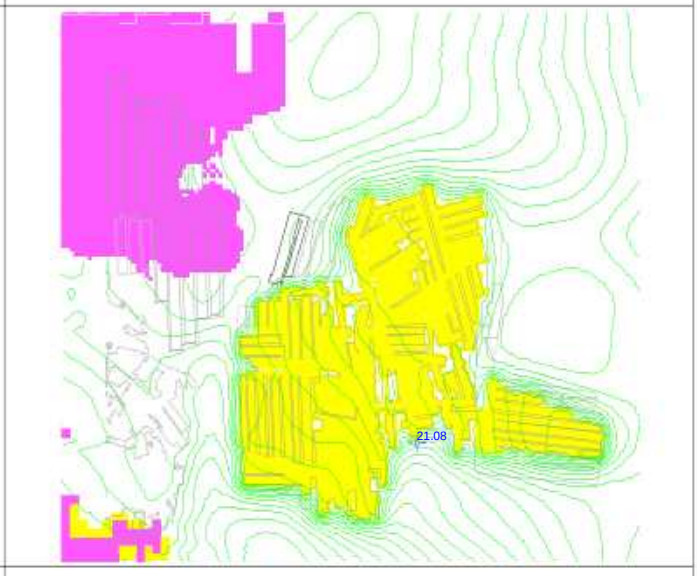
December 2009 (SP081)



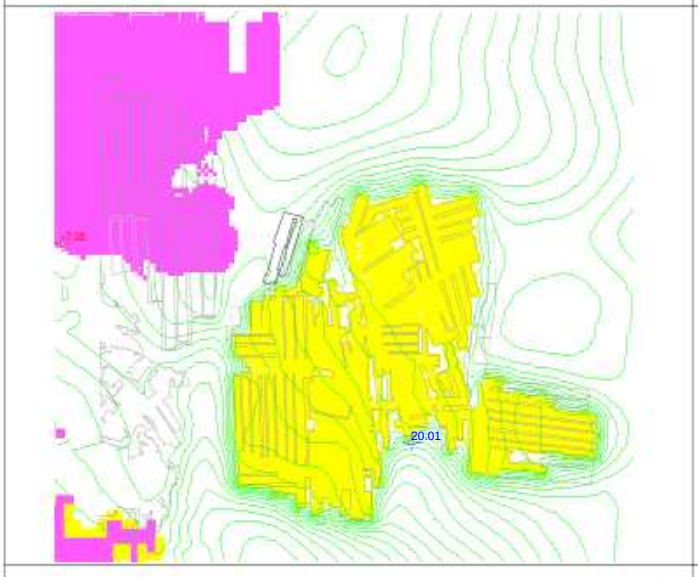
June 2012 (SP091)



March 2015 (SP102)

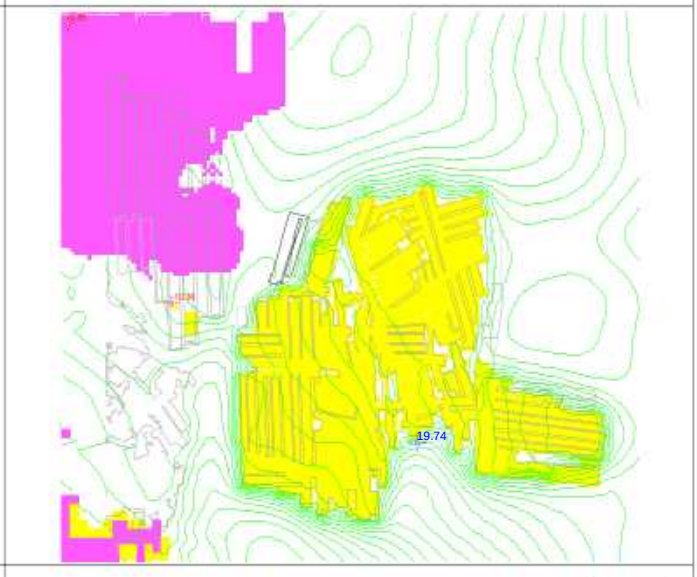


June 2017 (SP111)



December 2018 (SP117)

Scale 1:182,000 @A4: 0 1 2km



December 2020 (SP125)

Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

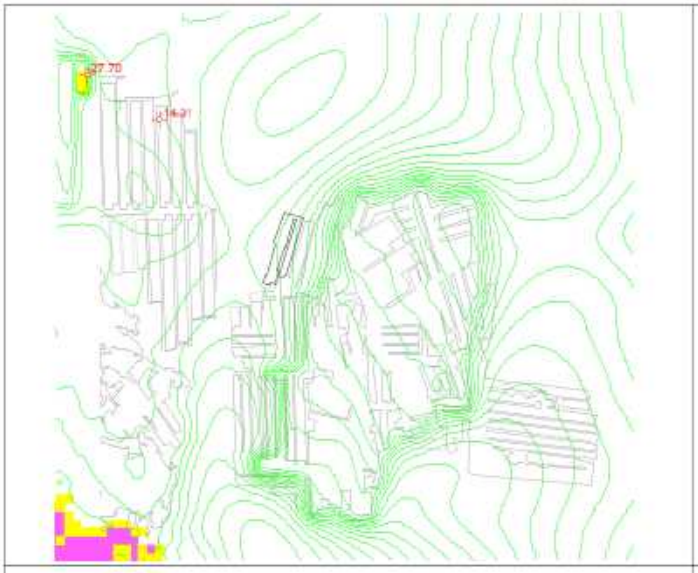
Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Katoomba Seam (Layer 18)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-18**

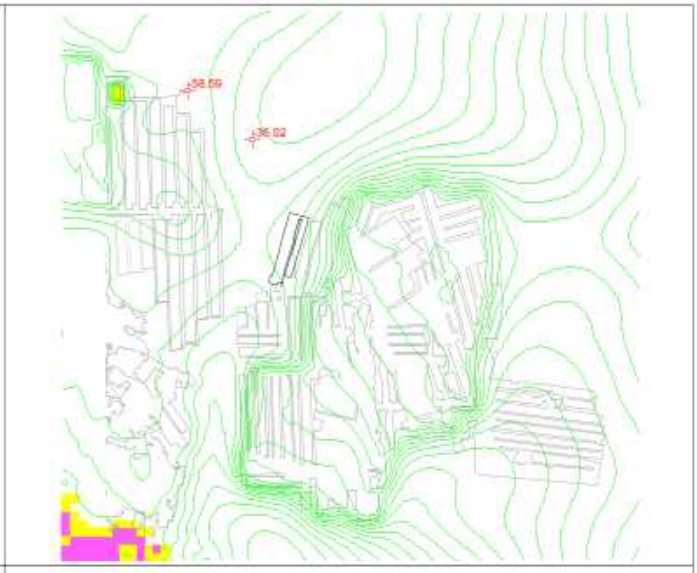
JBS&G

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L18.grf

Reference: 68229_R01RevA_APR_03c.

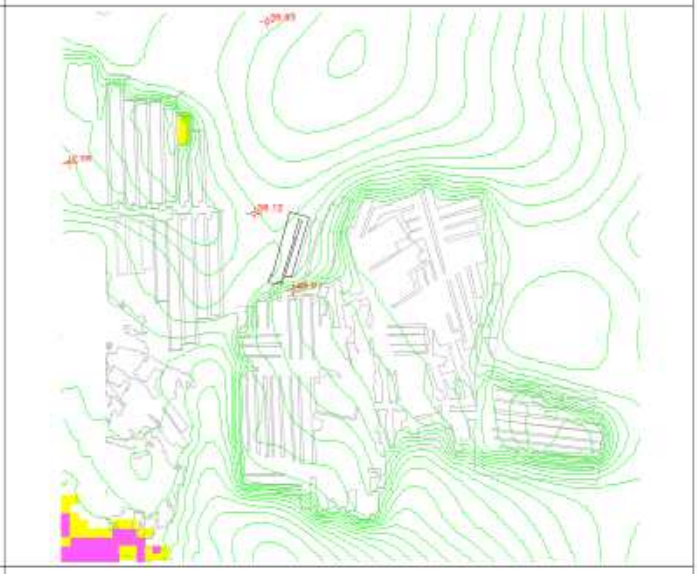


December 2009 (SP081)

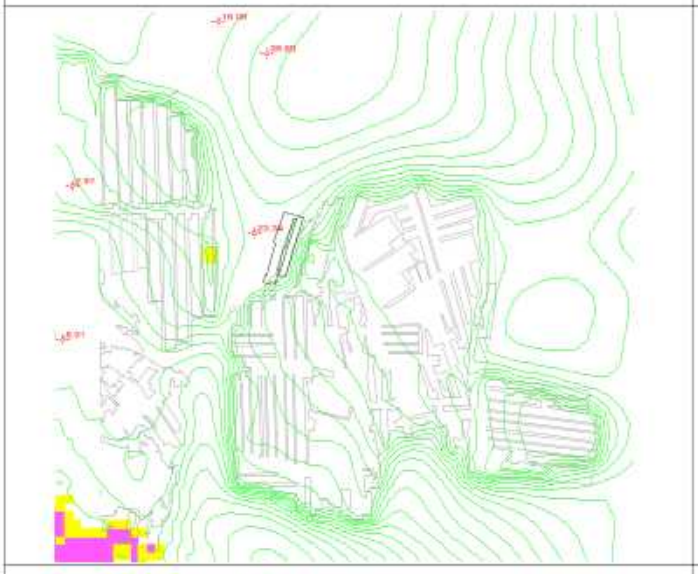


June 2012 (SP091)

March 2015 (SP102)

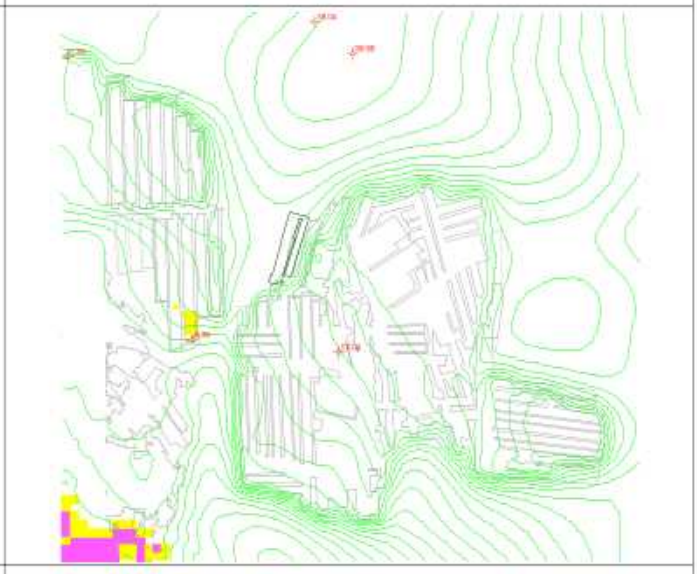


June 2017 (SP111)



December 2018 (SP117)

Scale 1:182,000 @A4: 0 1 2km



December 2020 (SP125)

Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

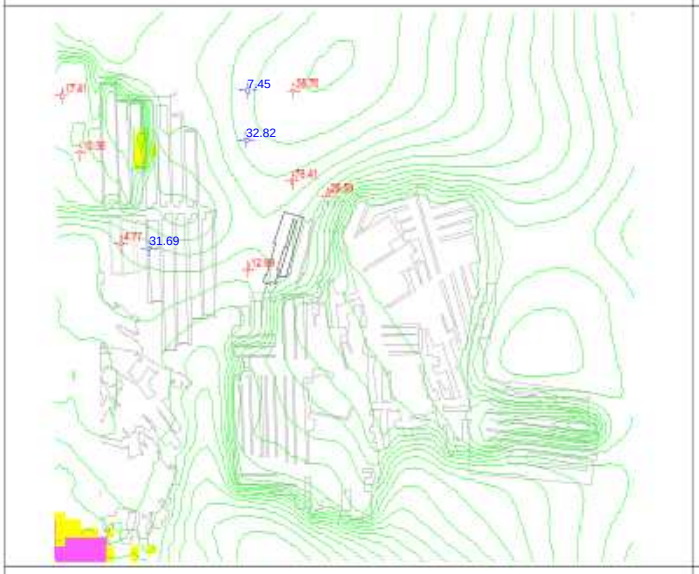
Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Farmers Creek Formation (Layer 19)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-19**

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L19.grf

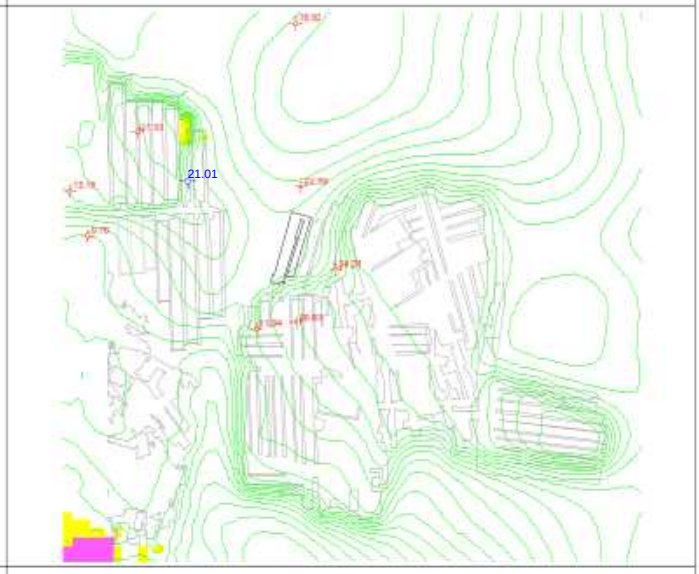
Reference: 68229_R01RevA_APR_03c.

December 2009 (SP081)

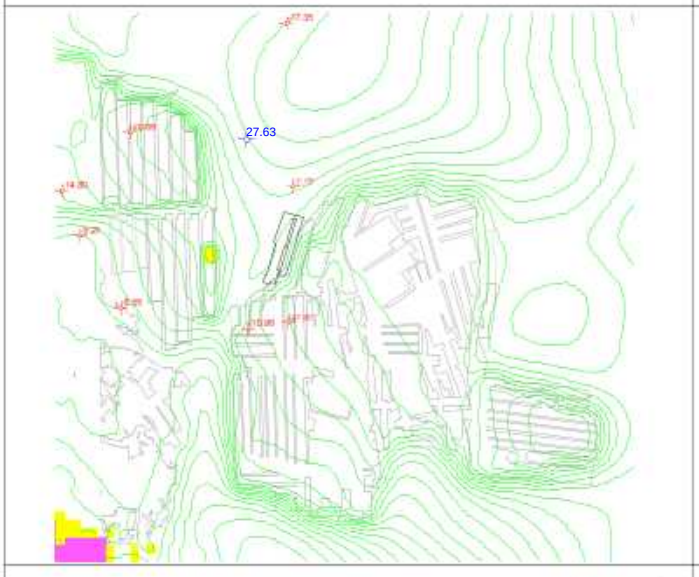
June 2012 (SP091)



March 2015 (SP102)

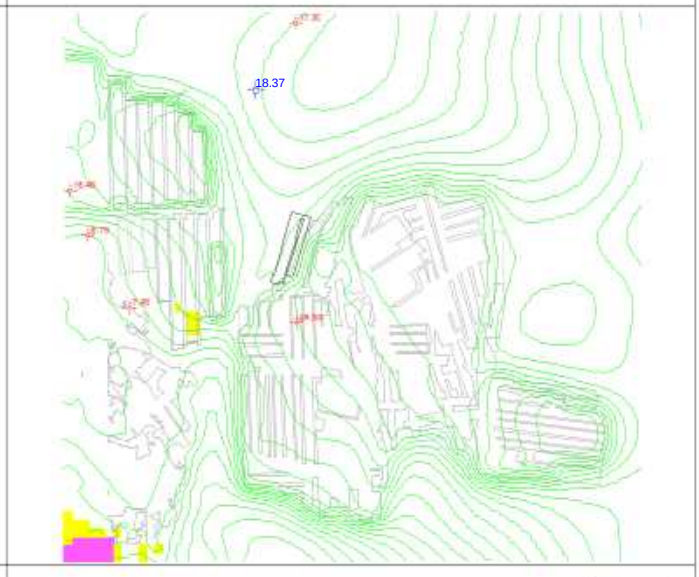


June 2017 (SP111)



December 2018 (SP117)

Scale 1:182,000 @A4: 0 1 2km



December 2020 (SP125)

Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

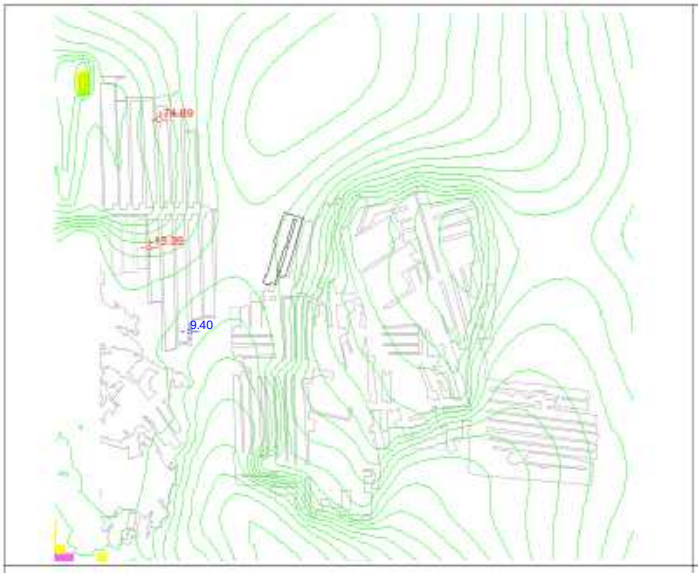
Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

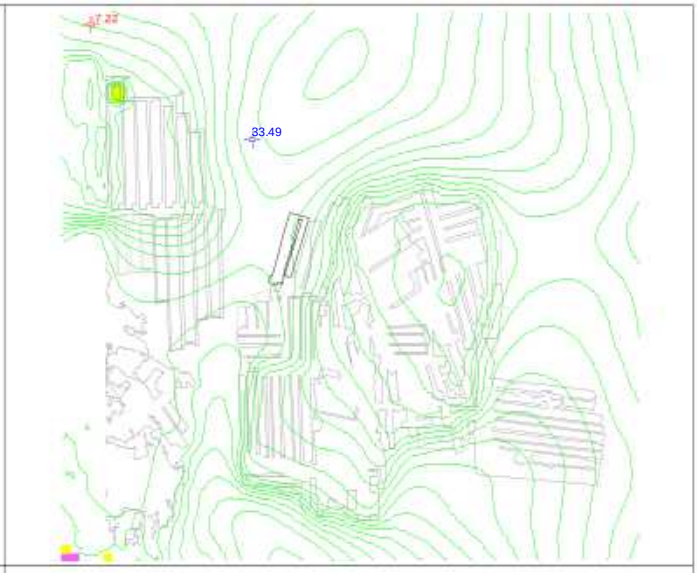
Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Gap Sandstone (Layer 20)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-20**

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L20.grf

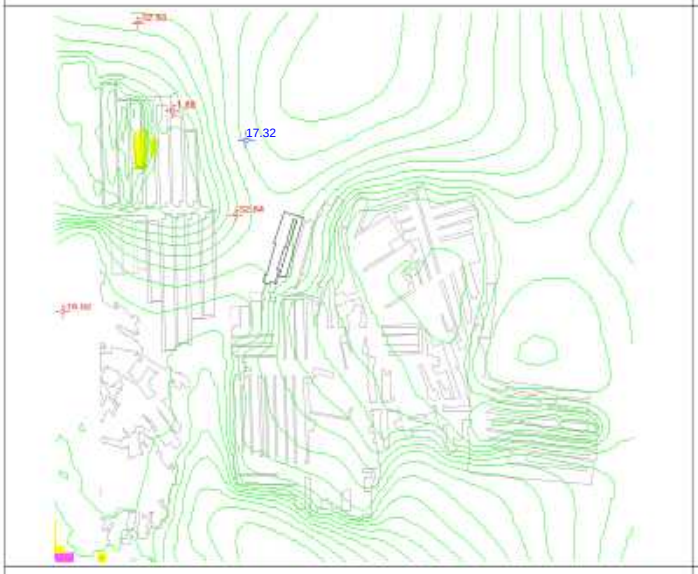
Reference: 68229_R01RevA_APR_03c.



December 2009 (SP081)

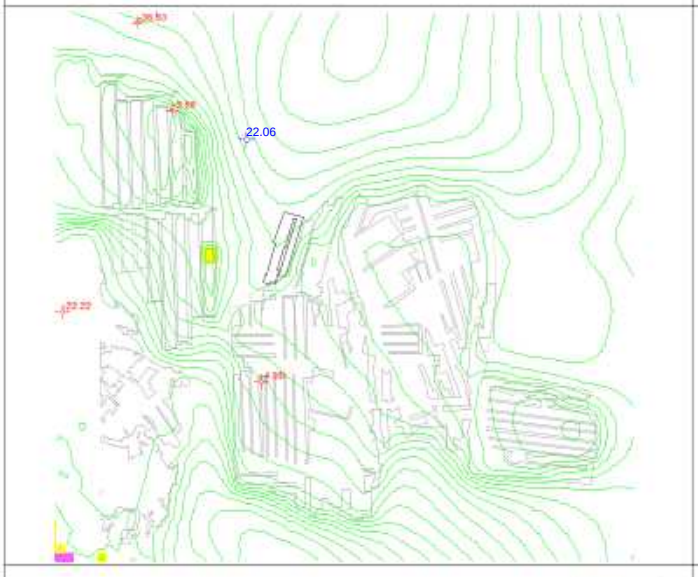


June 2012 (SP091)



March 2015 (SP102)

June 2017 (SP111)



December 2018 (SP117)

Scale 1:182,000 @A4: 0 1 2km

December 2020 (SP125)

Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

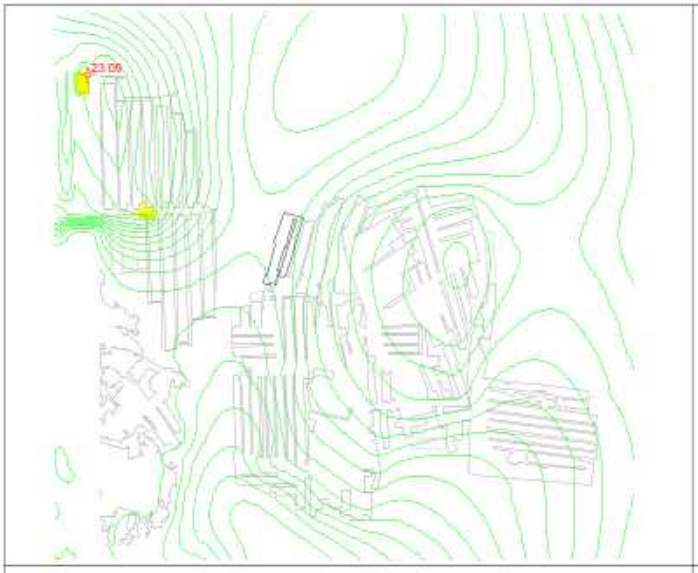
Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

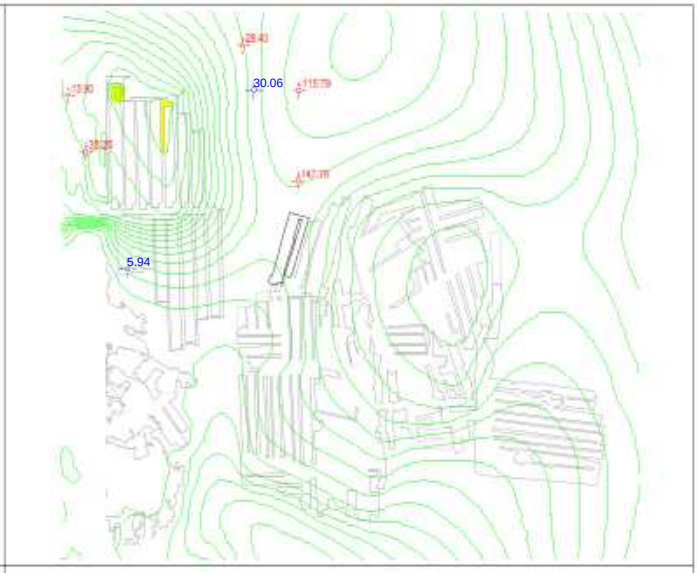
Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Denman Formation (Layer 21)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-21**

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L21.grf

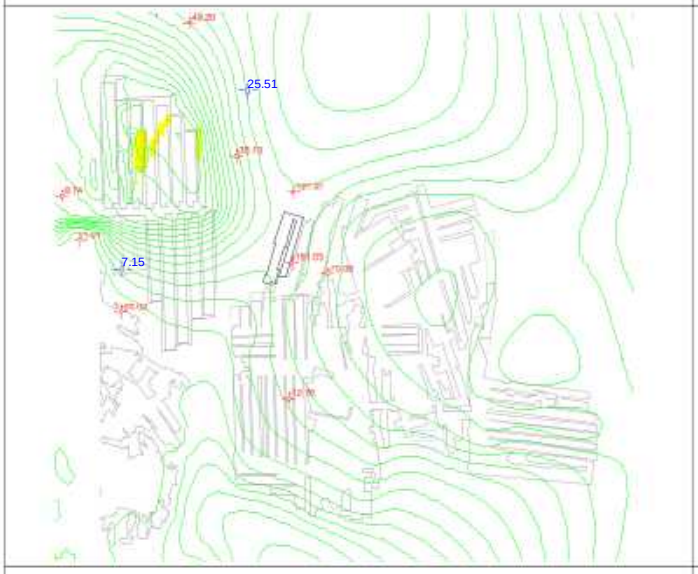
Reference: 68229_R01RevA_APR_03c.



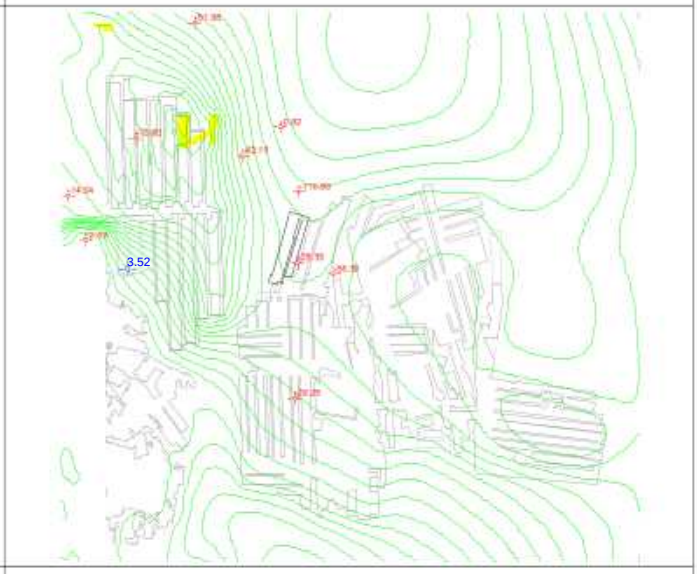
December 2009 (SP081)



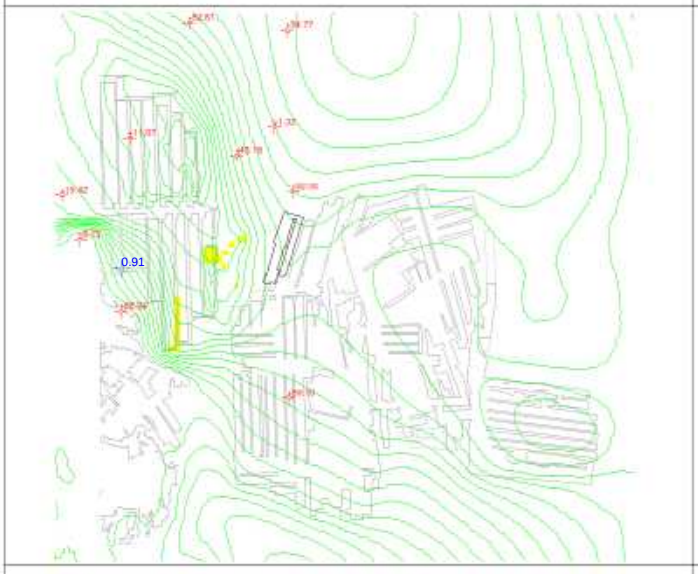
June 2012 (SP091)



March 2015 (SP102)

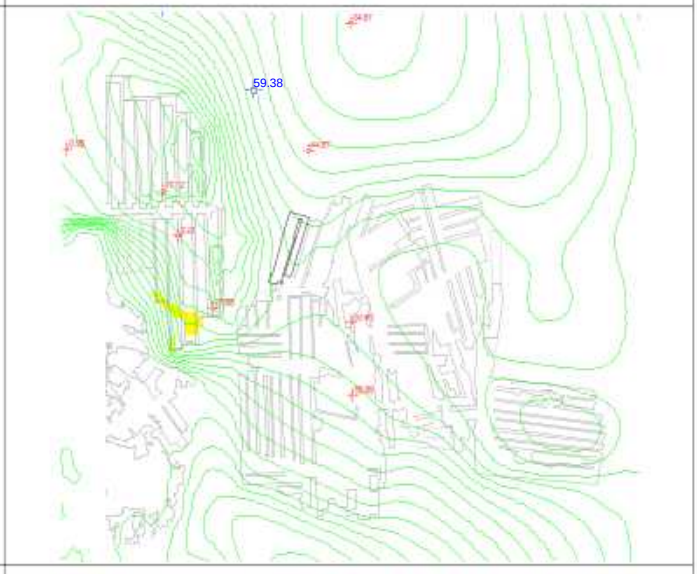


June 2017 (SP111)



December 2018 (SP117)

Scale 1:182,000 @A4: 0 1 2km



December 2020 (SP125)

Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

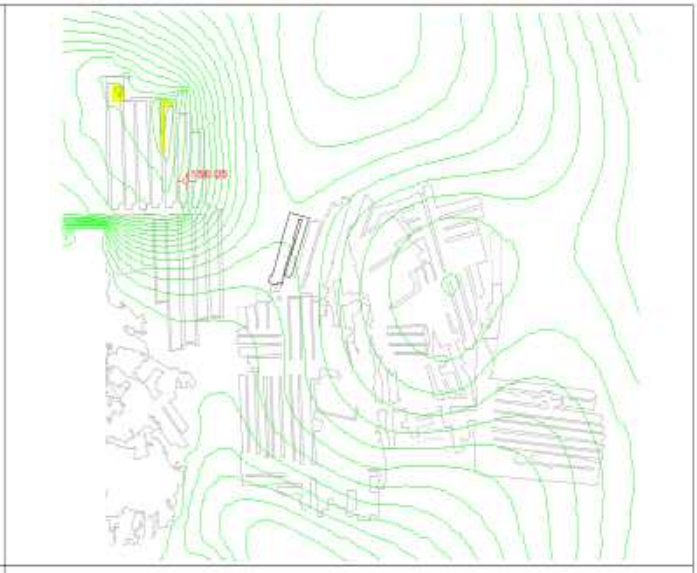
Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Long Swamp Formation (Layer 22)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-22**

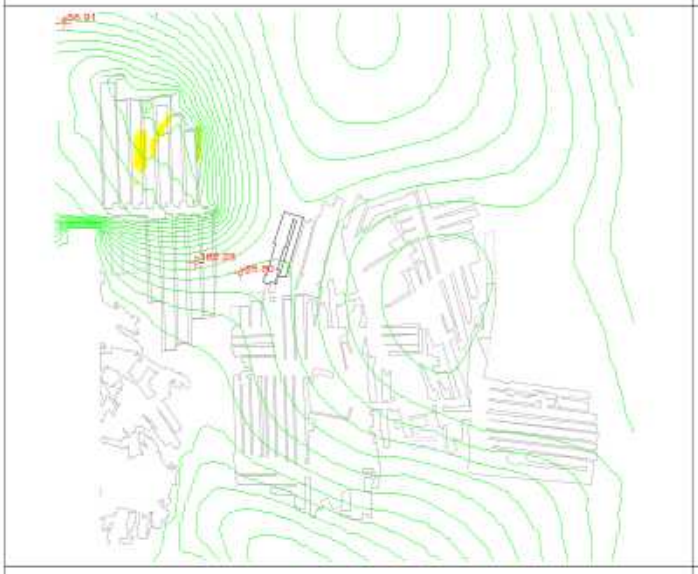
File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L22.grf

Reference: 68229_R01RevA_APR_03c.

December 2009 (SP081)

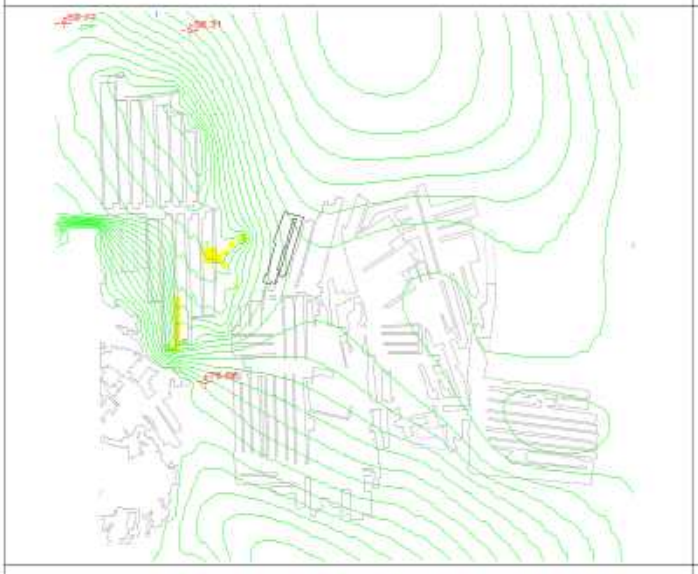


June 2012 (SP091)

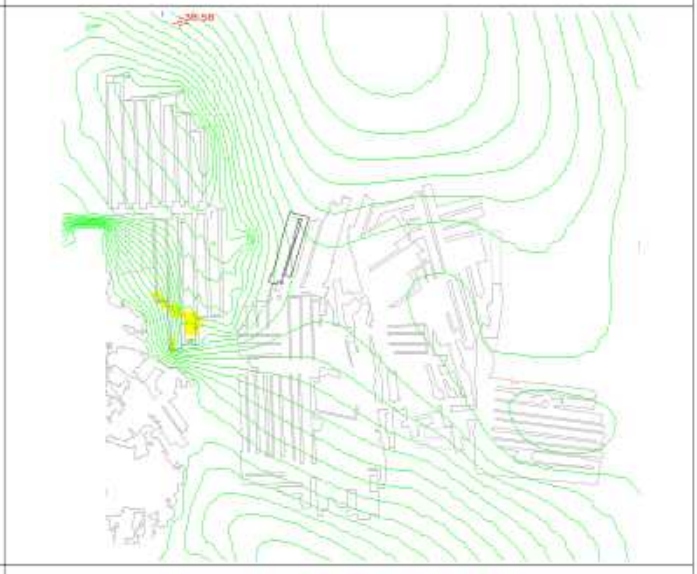


March 2015 (SP102)

June 2017 (SP111)



December 2018 (SP117) Scale 1:182,000 @A4: 0 1 2km



December 2020 (SP125) Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

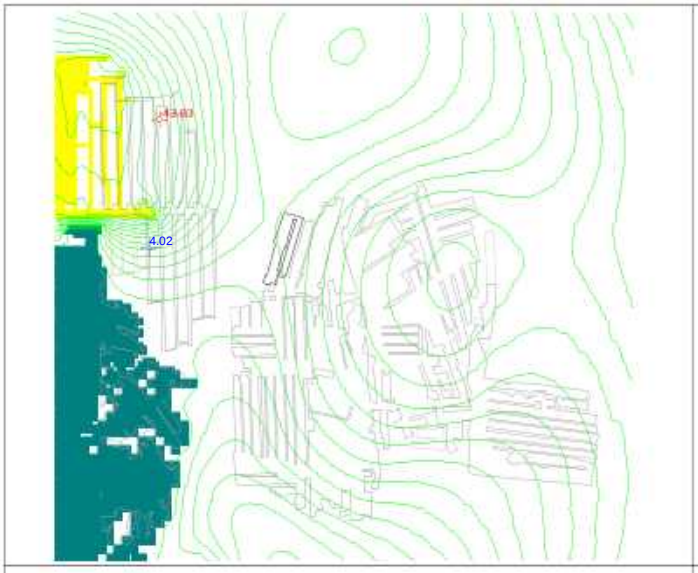
Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

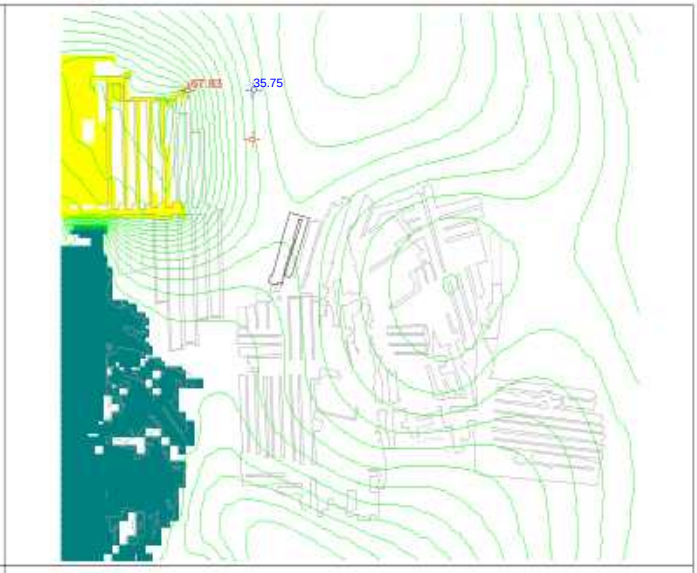
Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Blackmans Flat Conglomerate (Layer 23)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-23** JBS&G

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L23.grf

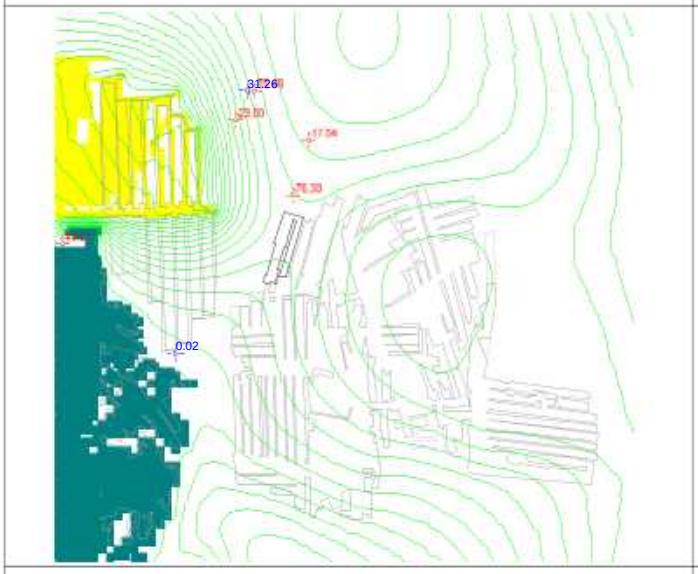
Reference: 68229_R01RevA_APR_03c.



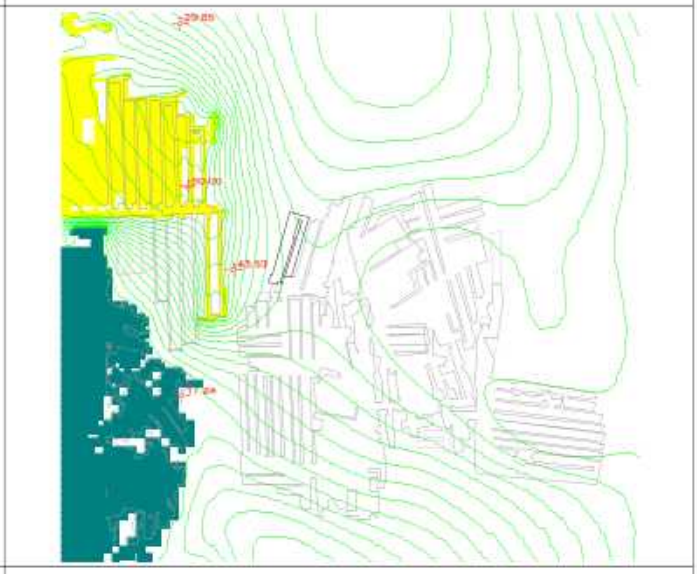
December 2009 (SP081)



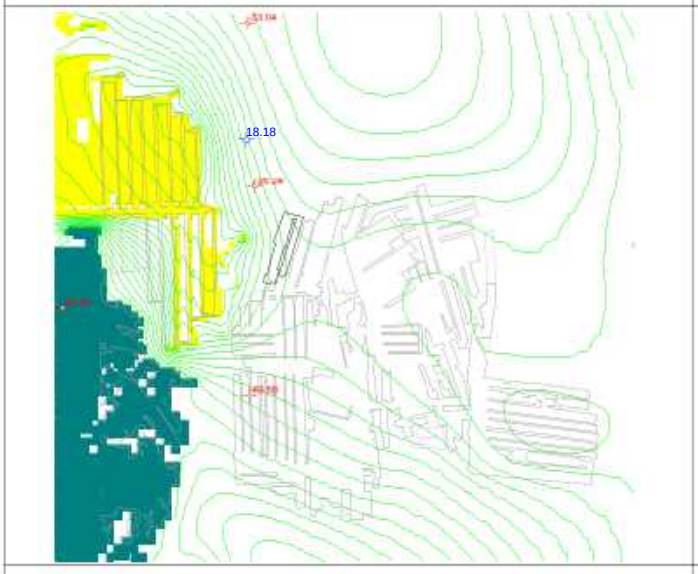
June 2012 (SP091)



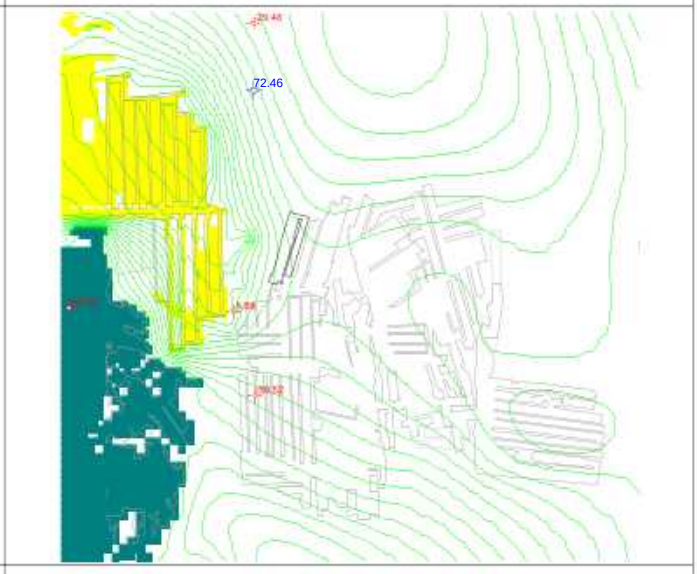
March 2015 (SP102)



June 2017 (SP111)



December 2018 (SP117) Scale 1:182,000 @A4: 0 1 2km



December 2020 (SP125) Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

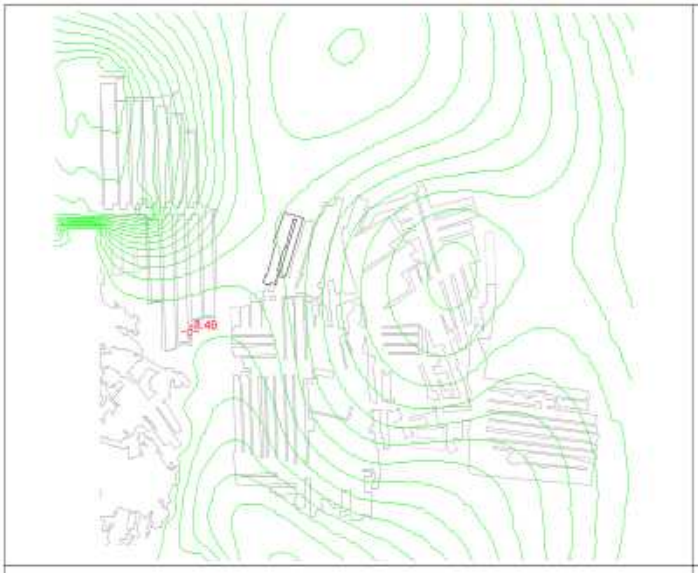
Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

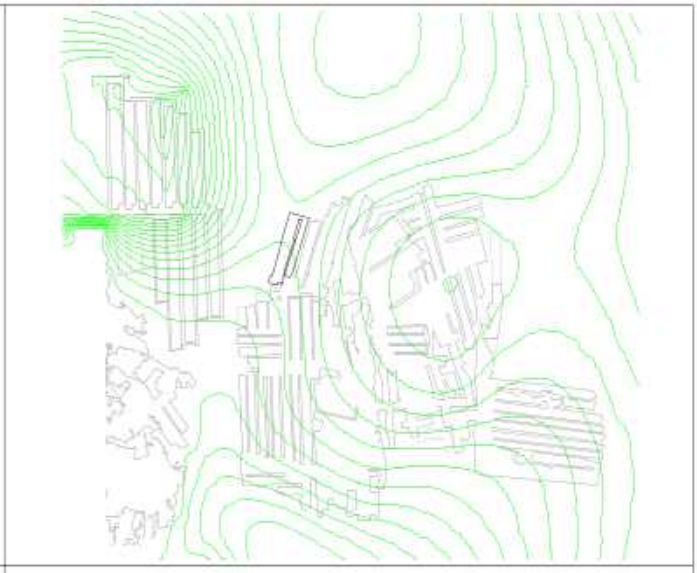
Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Lithgow Seam (Layer 24)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-24** JBS&G

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L24.grf

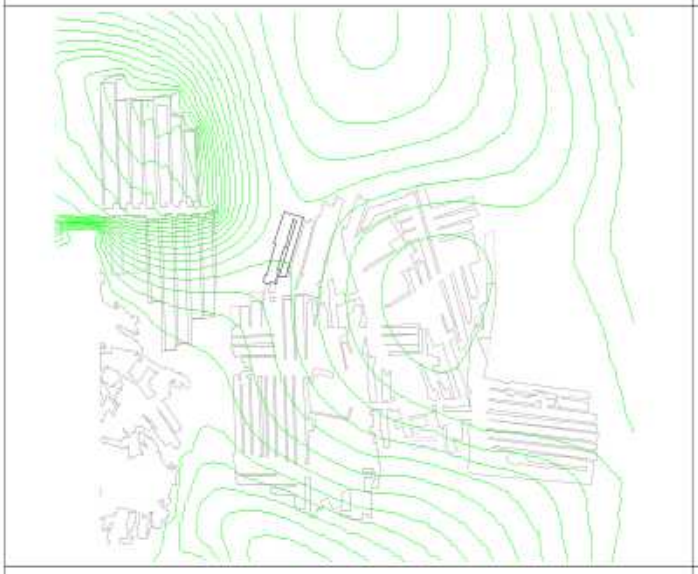
Reference: 68229_R01RevA_APR_03c.



December 2009 (SP081)

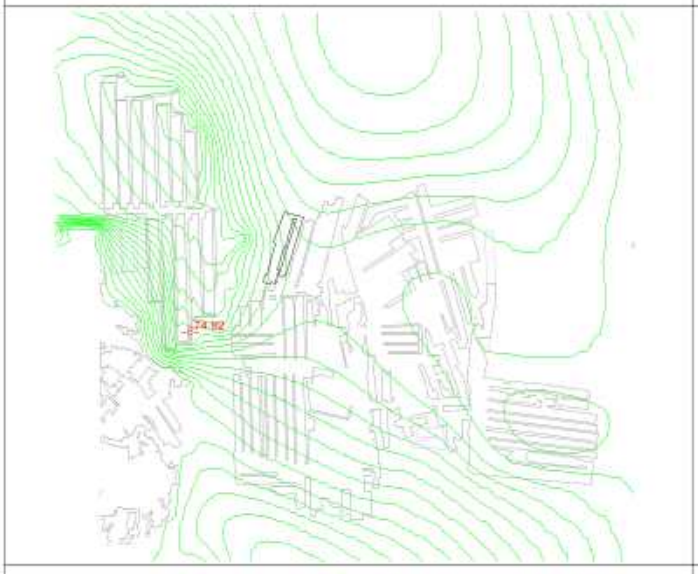


June 2012 (SP091)



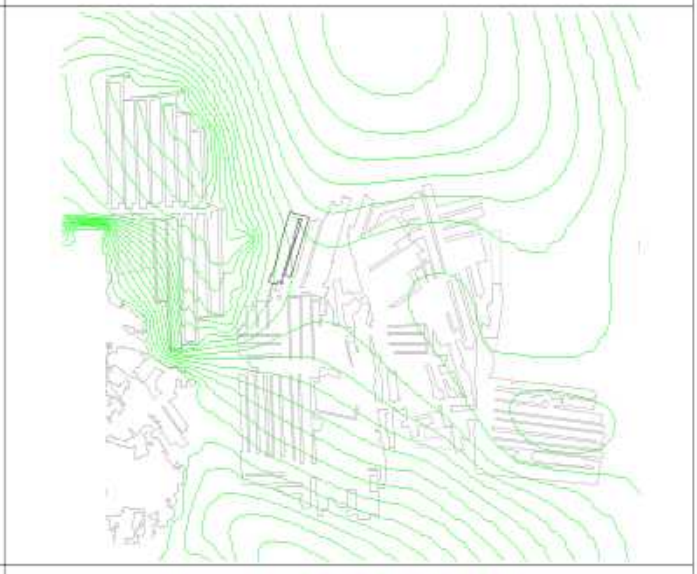
March 2015 (SP102)

June 2017 (SP111)



December 2018 (SP117)

Scale 1:182,000 @A4: 0 1 2km



December 2020 (SP125)

Scale 1:182,000 @A4: 0 1 2km

Legend

Mining Methods:
- Development

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Interval: 10mAHD

Model Cell Type:
- Pinched-Out Cells

Model Boundary Conditions:
- Drain (DRN) Cells
- River (RIV) Cells
- General Head Boundary (GHB) Cells
- Well (WEL) Cells
- Constant Head (CHD) Cells
- No Flow Boundary (NFB) Cells

Model Results:
- Modelled Groundwater Elevation (mAHD)
- Positive Residual (m)
- Negative Residual (m)
- Observation Target

Job No.: 68229		**Distribution of Calibration Residual**
Client: Clarence Colliery Pty Ltd		Marangaroo Conglomerate (Layer 25)
Version: R01RevA	Date: 07/11/2025	
Drawn By: DAW	Checked By: JRWB	**Figure F-25**

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D062_Residuals\68229_R01RevA_D062_Residuals_L25.grf

Reference: 68229_R01RevA_APR_03c.

Appendix G Relative Parameter Uncertainty Variance Reduction

Appendix G

This appendix presents relative parameter uncertainty variance reduction of various parameter groups (refer **Section** 4.13). The categorisation of relative parameter uncertainty variance reduction is presented in the Nomenclature.

Relative parameter uncertainty variance reduction was generated by GENLINPRED (Watermark Numerical Computing, 2024).

There are multiple parameter groups. Output from GENLINPRED is presented in this appendix, according to parameter group.

G1. Horizontal Hydraulic Conductivity, Kh, Pilot Points

Figure G1-1 presents the relative parameter uncertainty variance reduction for Kh Pilot Points, with Figure G1-2 presenting the same output, but limited to a relative parameter uncertainty variance reduction of 0.4.

From Figure G1-1 and Figure G1-2, almost all Pilot Points reduce parameter uncertainty variance, as is expected. i.e. there are few Pilot Points were relative parameter uncertainty variance reduction is less than 0.05, which would imply that the value they adopt is not informed by model calibration.

It is noted that GENLINPRED is superior to parameter identifiability used in previous reports on this numerical groundwater model, since GENLINPRED takes into account the effect of the covariance matrix. i.e. the covariance matrix was present during model calibration previously, just that parameter identifiability does not take that into account when deducing its 'rating' from zero to one.

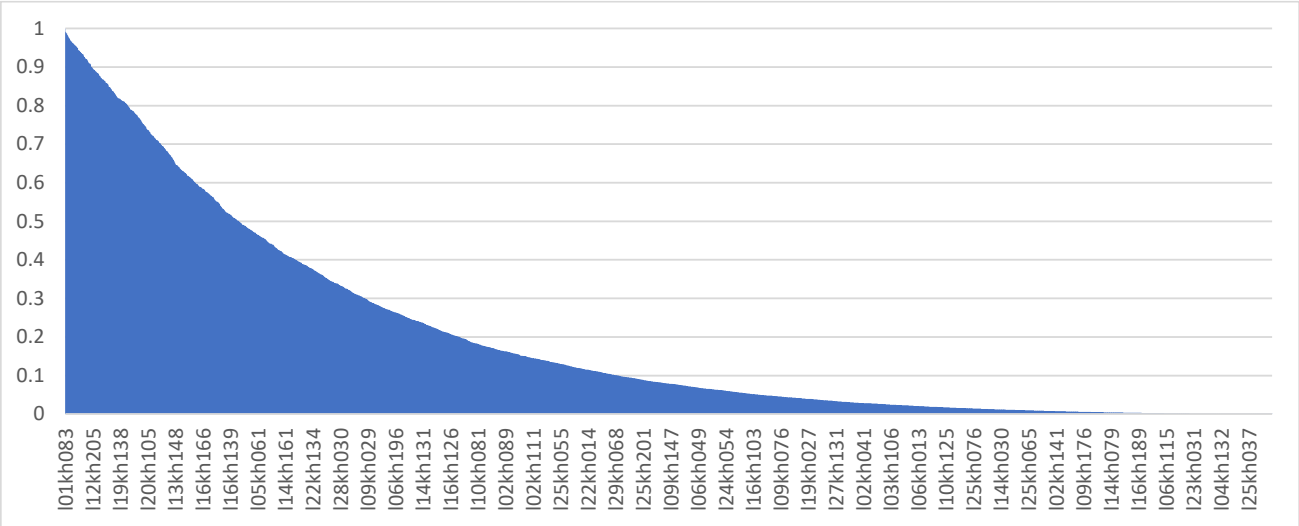


Figure G1-1: Relative parameter uncertainty variance reduction – Kh Pilot Points

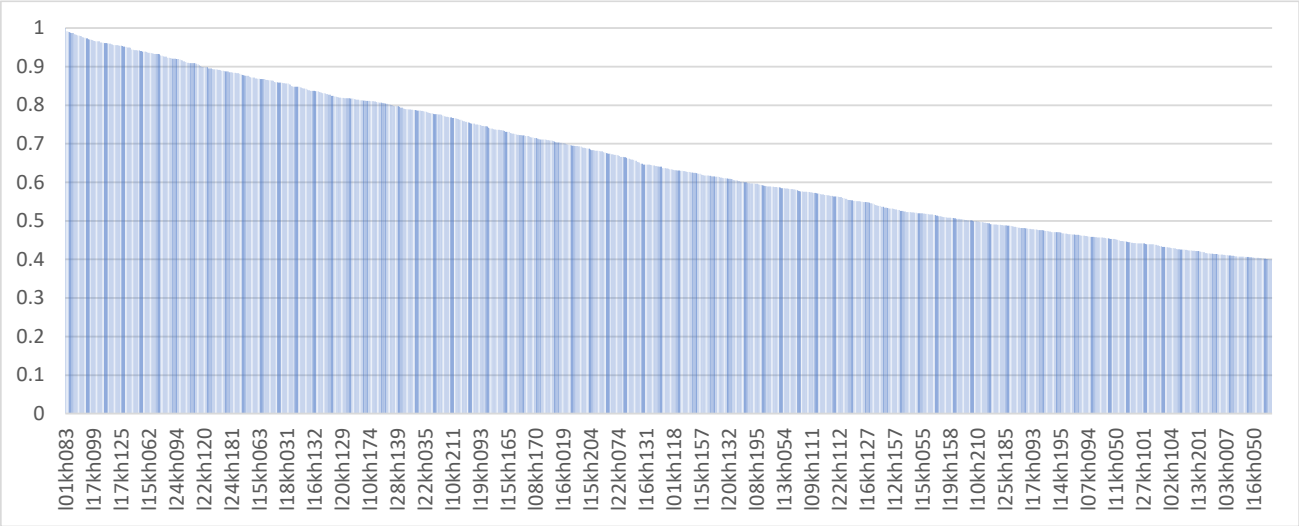


Figure G1-2: Relative parameter uncertainty variance reduction (greater than 0.4) – Kh Pilot Points

G2. Unsaturated Parameter Warping Factor

Figure G2-1 presents the relative parameter uncertainty variance reduction of the warping factor applied to unsaturated parameters derived from the custom-developed script (input of which was Kh Pilot Points).

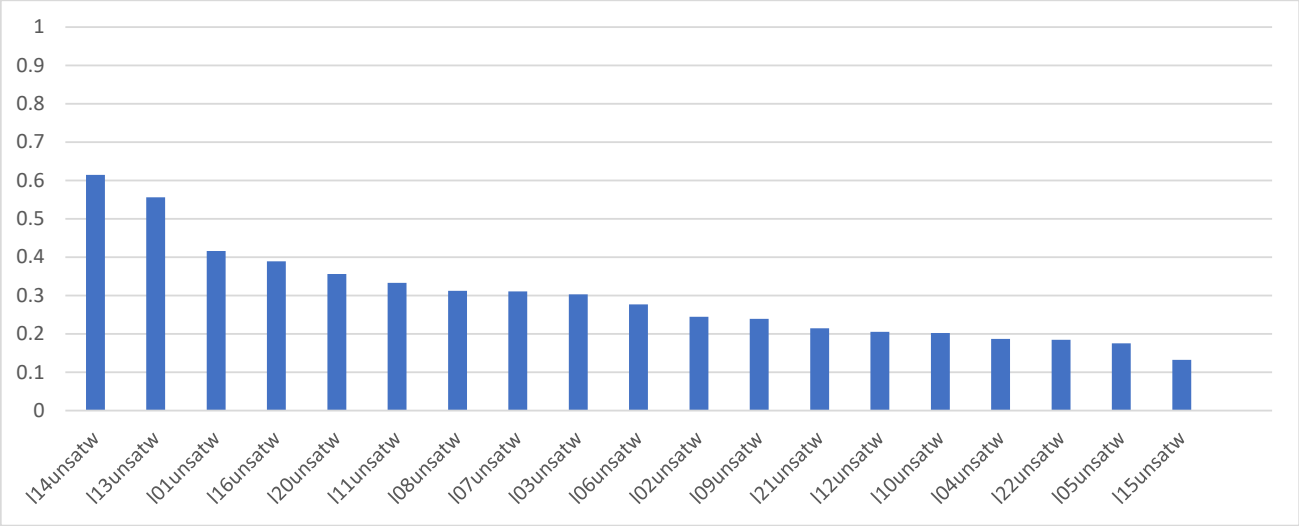


Figure G2-1: Relative parameter uncertainty variance reduction – Unsaturated Parameters Warping Factor

From Figure G2-1, the relative parameter uncertainty variance reduction is medium (being between 0.2 and 0.4).

G3. Vertical Hydraulic Conductivity Warping Factor, KvF, Pilot Points

Figure G3-1 and Figure G3-2 presents relative parameter uncertainty variance reduction for the warping factor Pilot Points of vertical hydraulic conductivity, Kv.

From Figure G3-1 and Figure G3-2, the relative parameter uncertainty variance reduction is small to medium for some, with most being negligible.

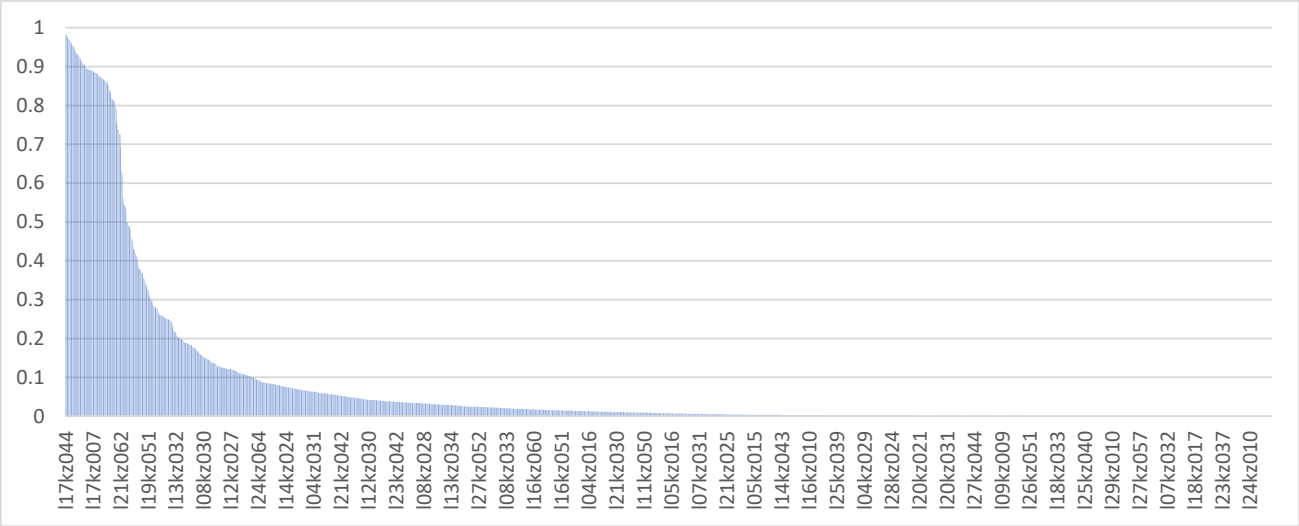


Figure G3-1: Relative parameter uncertainty variance reduction – Kv Warping Factor Pilot Points

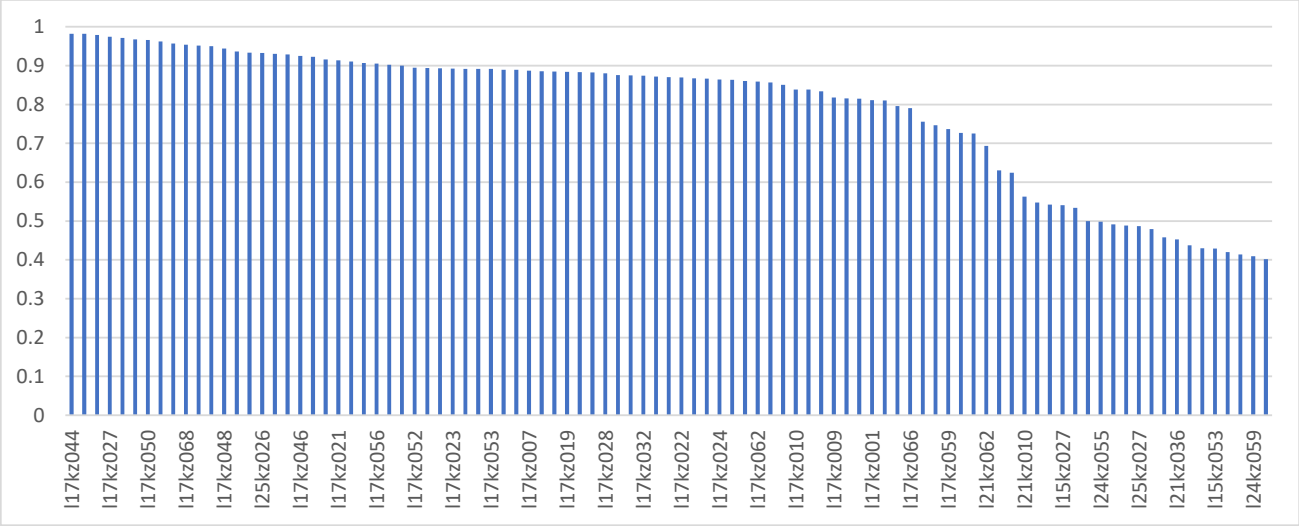


Figure G3-2: Relative parameter uncertainty variance reduction (greater than 0.4) – Kv Warping Factor Pilot Points

G4. Specific Storage Warping Factor, SsF, Pilot Points

Figure G4-1 presents the relative parameter uncertainty variance reduction for scaling factor Pilot Points of specific storage, Ss.

From Figure G4-1, the relative parameter uncertainty variance reduction is small for some Pilot Points, but is negligible for almost all of the Pilot Points. This implies that the calibration process did not particularly inform the value of the warping factor.

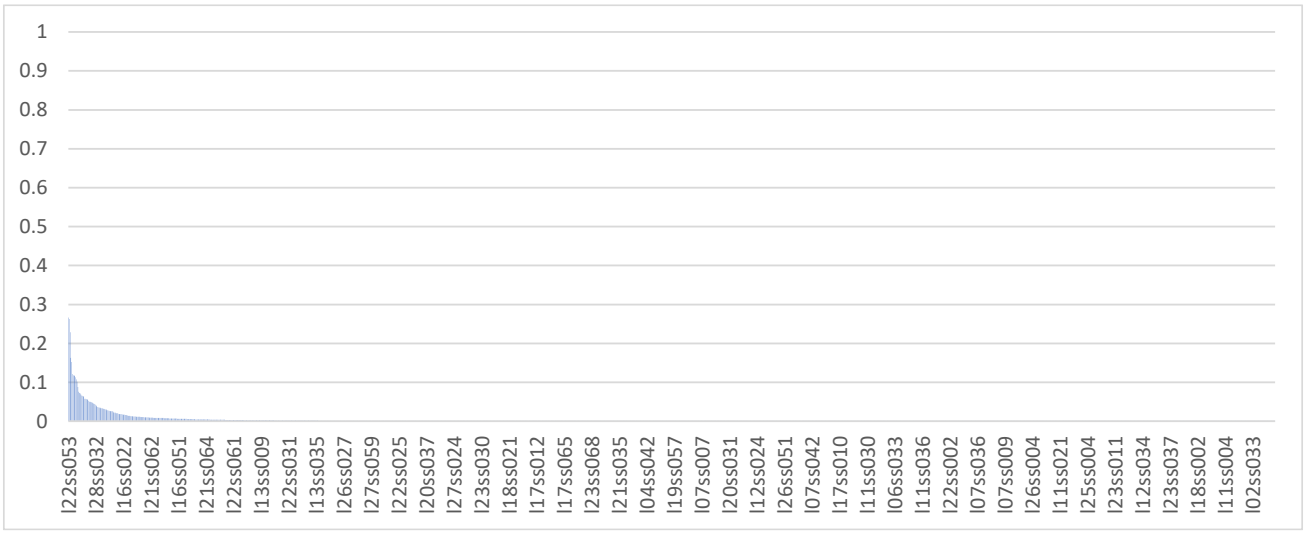


Figure G4-1: Relative parameter uncertainty variance reduction – Ss Warping Factor Pilot Points

G5. Specific Yield Warping Factor, SsF, Pilot Points

Figure G5-1 and Figure G5-2 present the relative parameter uncertainty variance reduction for warping factor Pilot Points of specific yield, Sy.

From Figure G5-1 and Figure G5-2, the relative parameter uncertainty variance reduction is small to medium for some Pilot Points, but is negligible for most of the Pilot Points.

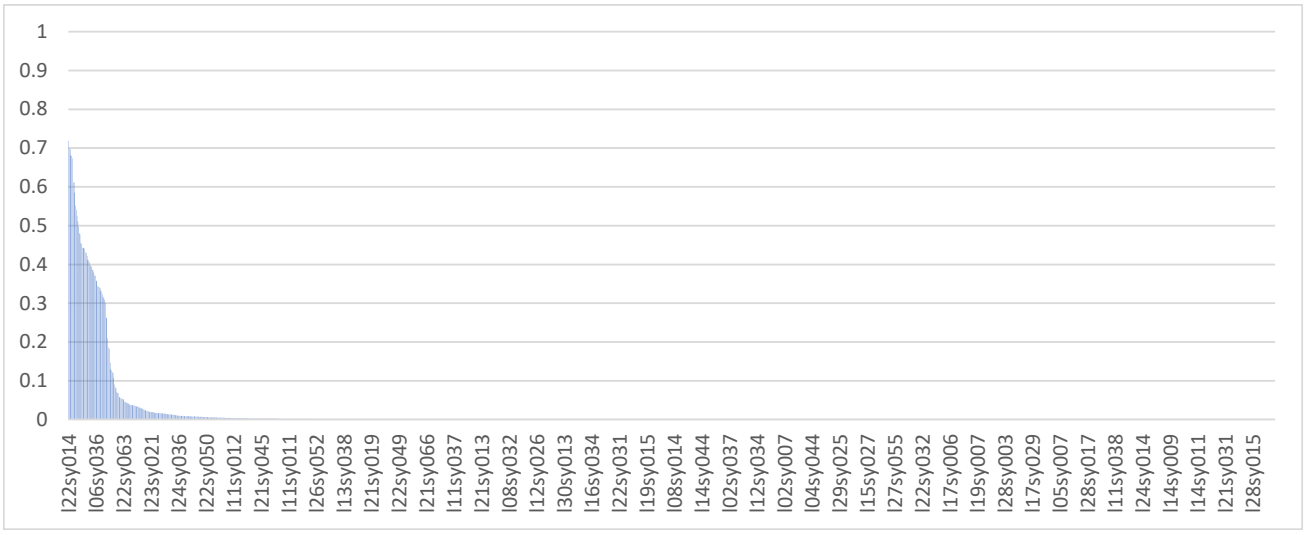


Figure G5-1: Relative parameter uncertainty variance reduction – Sy Warping Factor Pilot Points

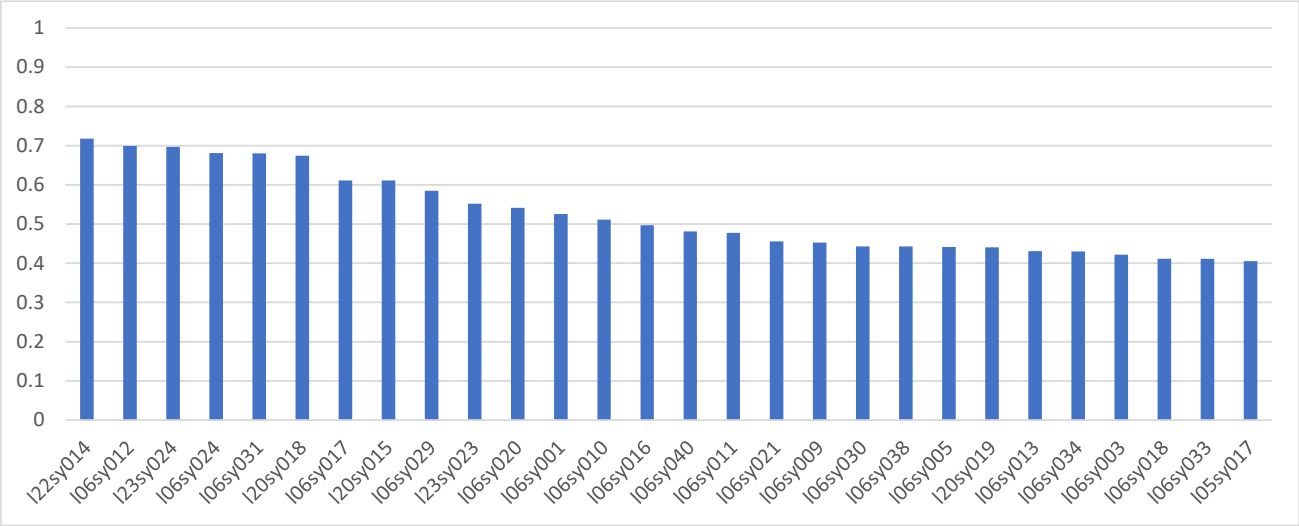


Figure G5-2: Relative parameter uncertainty variance reduction (greater than 0.4) – Sy Warping Factor Pilot Points

G6. Lineament Vertical Hydraulic Conductivity, Kv for Type1 and Sequential Multipliers of Kv (Type 2 to Type 1 and Type 3 to Type 2)

Figure G6-1 presents the relative parameter uncertainty variance reduction for lineament vertical hydraulic conductivity, Kv of Type 1 lineaments. As presented in the main body of the report, the value of vertical hydraulic conductivity, Kv for Type 2 lineaments was derived from the value specified for Type 1 lineaments, using a multiplier. The value of vertical hydraulic conductivity of Type 3 lineaments was, in turn, derived from the value of Type 2. i.e. sequential multipliers, was used in PEST, rather than treating these as independent variables, since that could lead to a conceptual inconsistency.

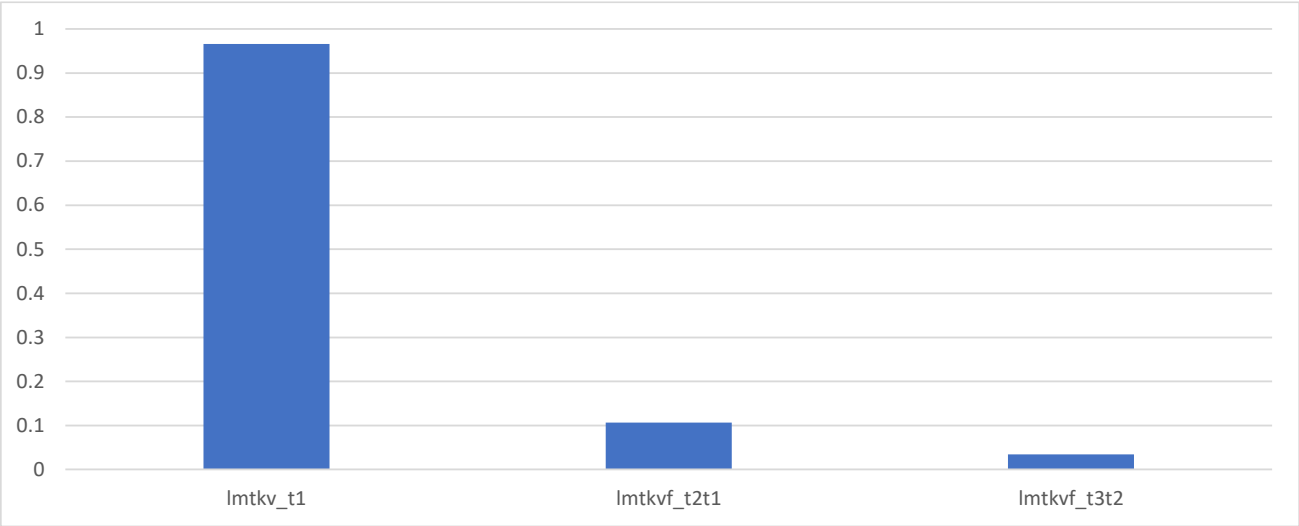


Figure G6-1: Relative parameter uncertainty variance reduction – Kv (Type 1) and Sequential Multipliers (Type 2 to Type 1 and Type 3 to Type2)

G7. Depth-dependent modifiers

Figure G7-1 presents the relative parameter uncertainty variance reduction for depth-dependent hydraulic property modifiers with respect to 'Ground Surface' and 'Top of Group'.

From Figure G7-1, the relative parameter uncertainty variance reduction is large for several of the depth-

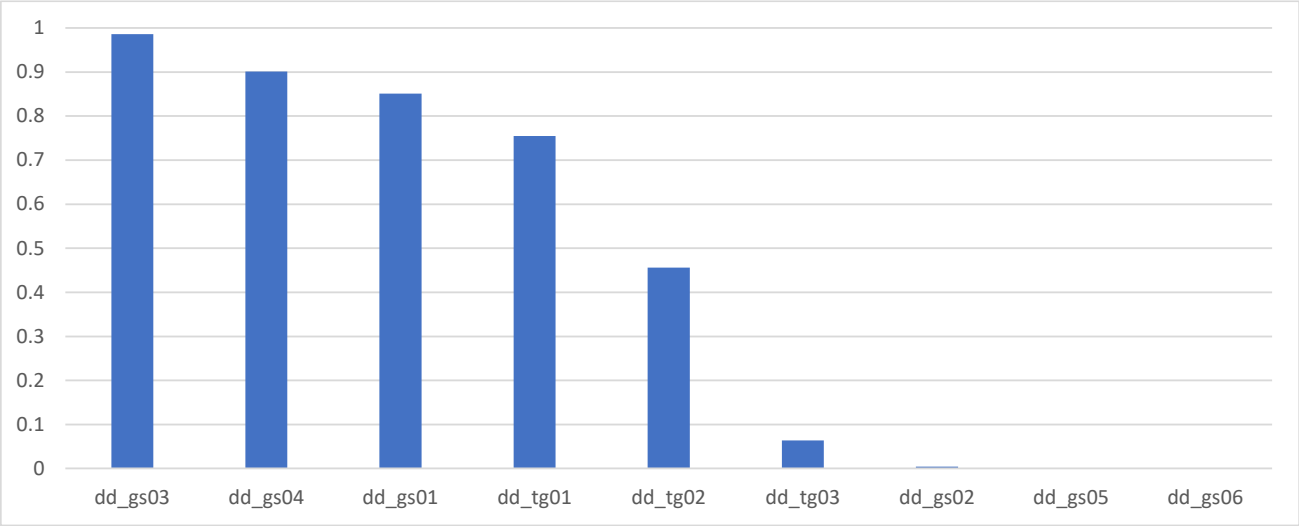


Figure G7-1: Relative parameter uncertainty variance reduction – Depth-Dependent Hydraulic Property Modifiers

dependent modifier groups and is small to negligible for others.

G8. Recharge Factor, RCHF, Pilot Points

Figure G8-1 presents the relative parameter uncertainty variance reduction for recharge factor, RCHF, Pilot Points.

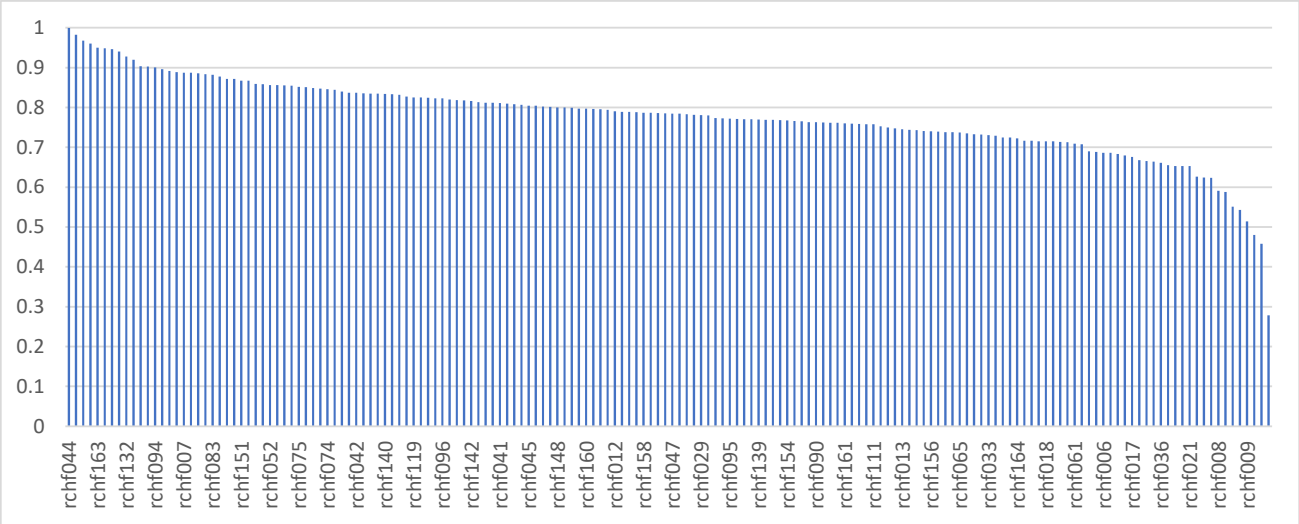


Figure G8-1: Relative parameter uncertainty variance reduction – Recharge Factor, RCHF, Pilot Points

From Figure G8-1, the relative parameter uncertainty variance reduction is large for almost all Pilot Points. This implies that the sensitivity of these parameters during model calibration is high.

G9. Enhanced Recharge Additive Factors

Figure G9-1 presents the relative parameter uncertainty variance reduction of the additive factors (decimal component only) applied to recharge factor derived from Pilot Points.

From Figure G9-1, the relative parameter uncertainty variance reduction is negligible to small.

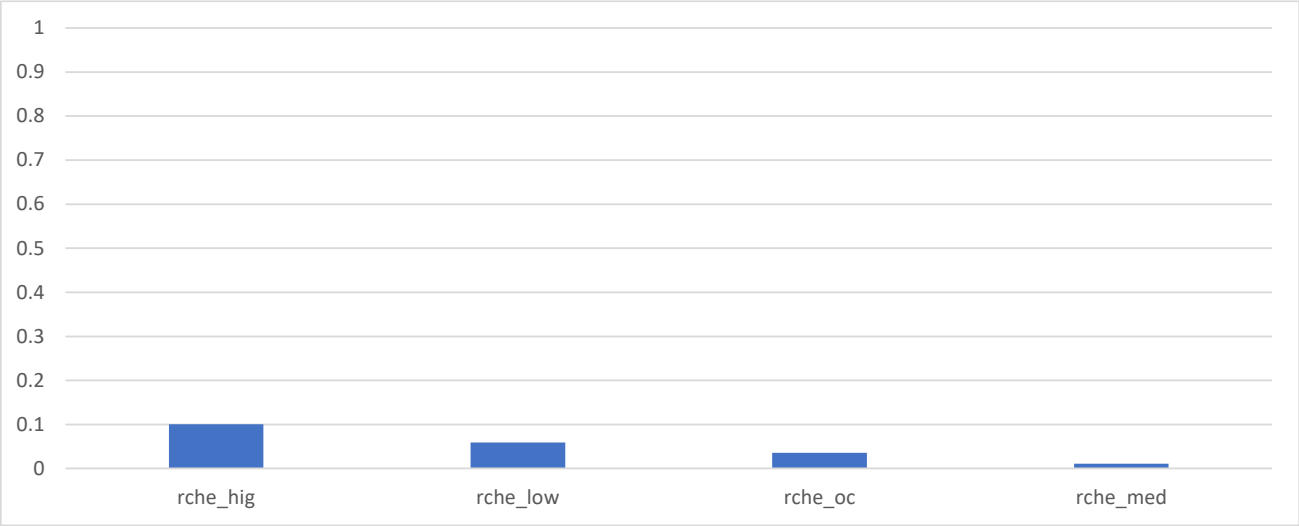


Figure G9-1: Relative parameter uncertainty variance reduction – Enhanced Recharge Additive Factors

G10. Evapotranspirative Factor, EVTF, Pilot Points

Figure G10-1 and Figure G10-2 present the relative parameter uncertainty variance reduction for Pilot Points used for evapotranspirative factor, EVTF.

From Figure G10-1 and Figure G10-2, the relative parameter uncertainty variance reduction is small to medium for most Pilot Points, but is small to negligible for the remainder.

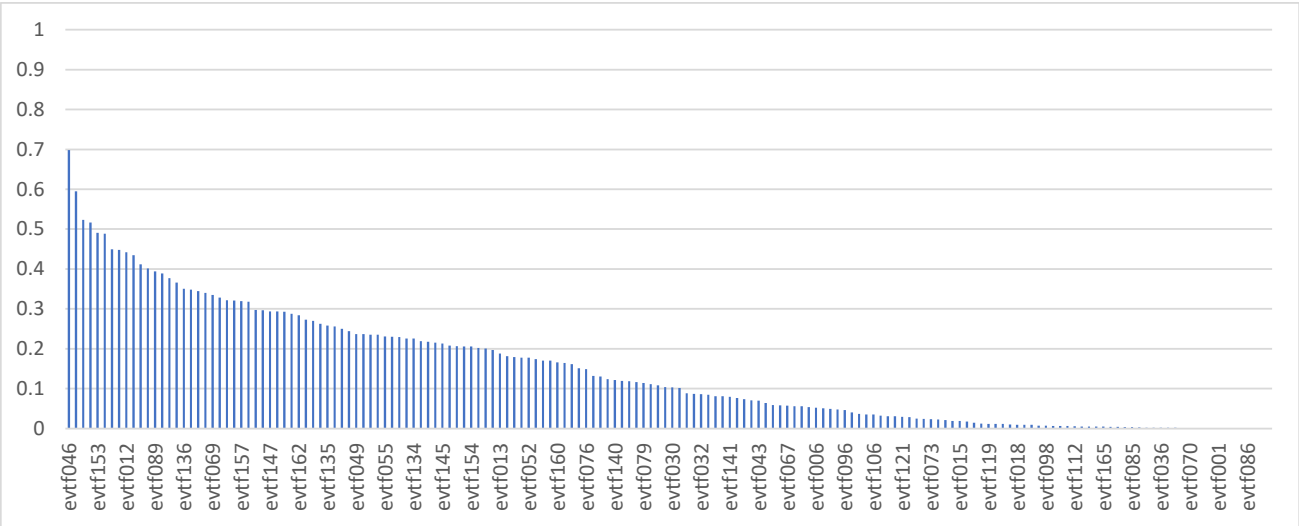


Figure G10-1: Relative parameter uncertainty variance reduction – Evapotranspirative Factor, EVTF, Pilot Points

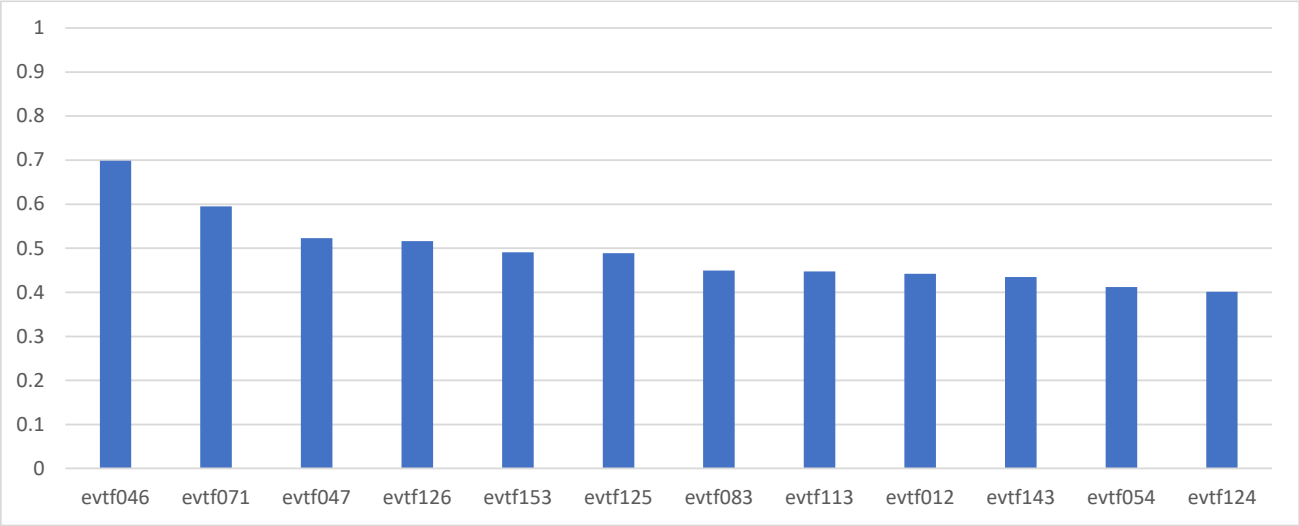


Figure G10-2: Relative parameter uncertainty variance reduction (greater than 0.4) – Evapotranspirative Factor, EVTF, Pilot Points

G11. Extinction Depth, ED, Pilot Points

Figure G11-1 and Figure G11-2 present the relative parameter uncertainty variance reduction for Pilot Points for extinction depth, ED.

From Figure G11-1 and Figure G11-2, the relative parameter uncertainty variance reduction is small to medium for about 30% of the Pilot Points and is negligible (less than 0.1) for the remainder. This implies that the numerical groundwater model is not sensitive to extinction depth in most of the groundwater model domain.

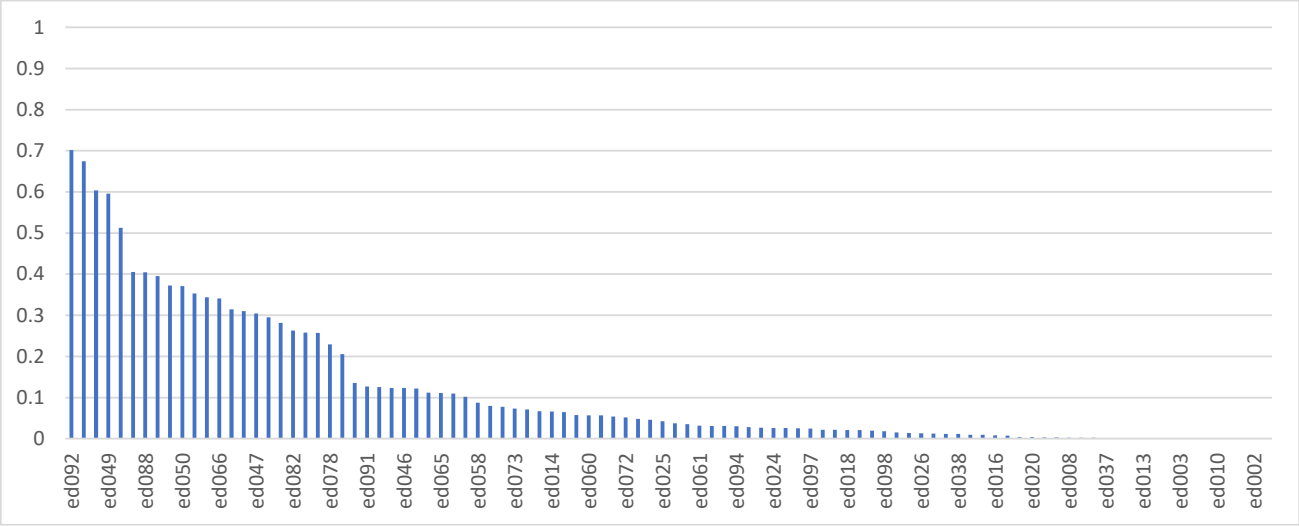


Figure G11-1: Relative parameter uncertainty variance reduction – Extinction Depth, ED, Pilot Points

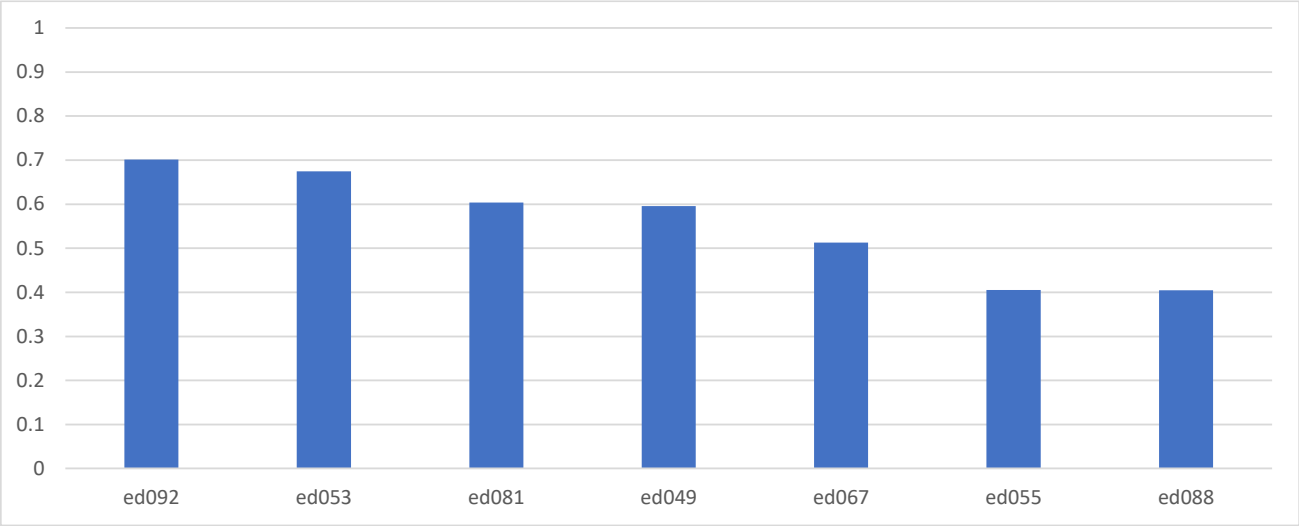


Figure G11-2: Relative parameter uncertainty variance reduction (greater than 0.4) – Extinction Depth, ED, Pilot Points

G12. River Streambed Hydraulic Conductivity

Figure G12-1 presents the relative parameter uncertainty variance reduction for the hydraulic conductivity of the streambed of river boundary condition cells.

From Figure G12-1, the relative parameter uncertainty variance reduction is negligible for all parameters.

This is expected, since river boundary conditions are not close to mining operations (being along the Upper Coxs River and along the Wolgan Valley), hence are not impacted by mining, nor is their monitoring in their vicinity, with respect to the calibration dataset.

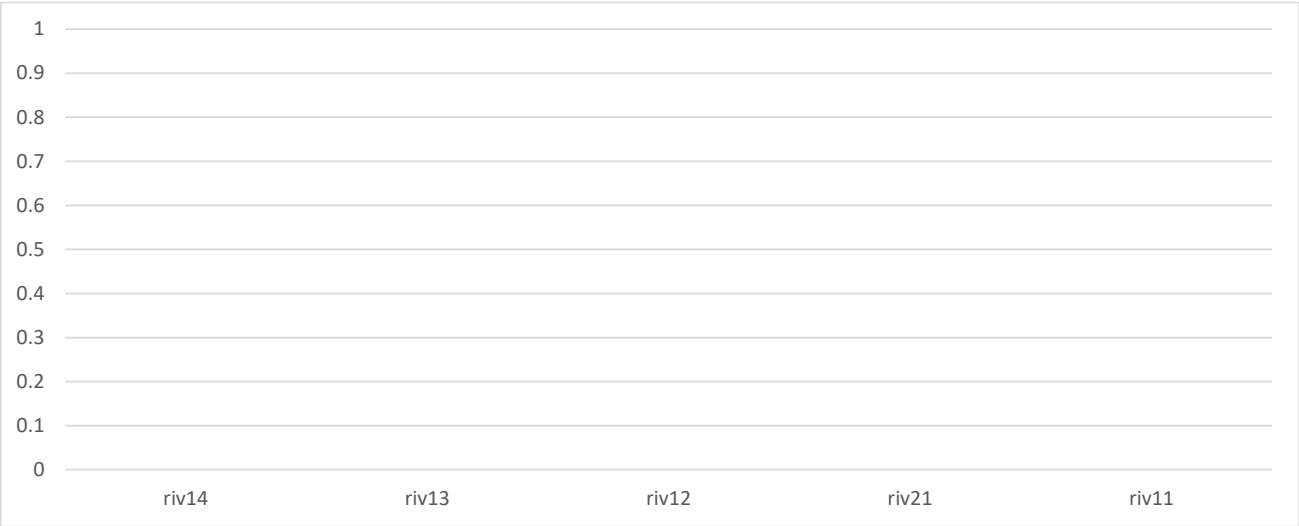


Figure G12-1: Relative parameter uncertainty variance reduction – River Streambed Hydraulic Conductivity

G13. General Head Boundary Condition Parameters

Figure G13-1 presents the relative parameter uncertainty variance reduction for parameters used with General Head Boundary Conditions. Those parameters include head adjustment and conductance adjustment parameters (regional throughflow) at the periphery of the numerical groundwater model.

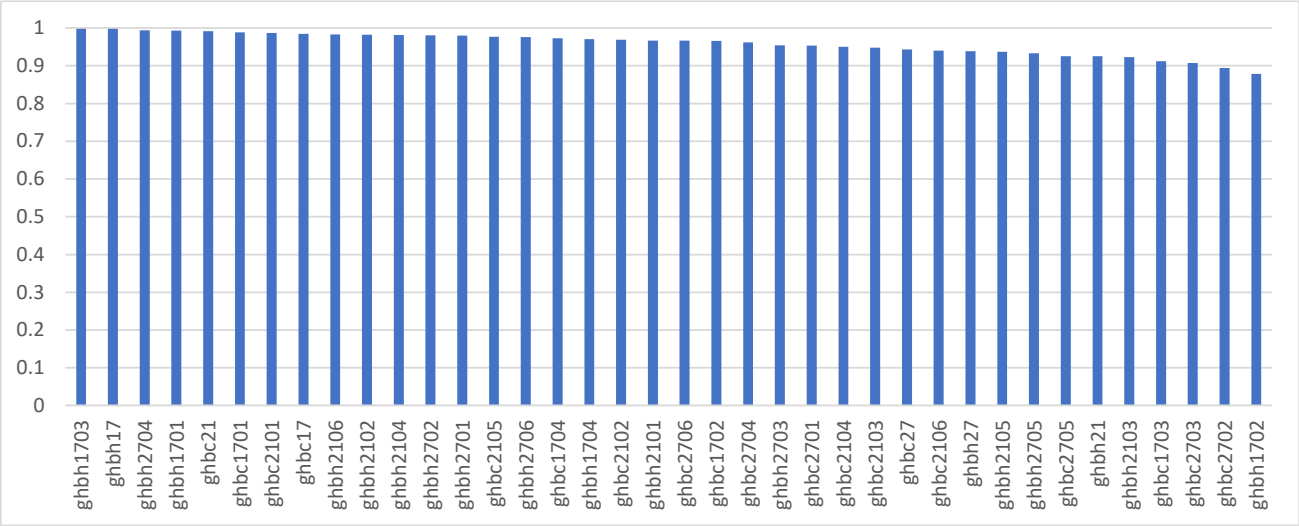


Figure G13-1: Relative parameter uncertainty variance reduction – General Head Boundary Condition Parameters

As noted in the main body of the report, the general head boundary used to represent the State Mine Complex was fixed (both with respect to specific head and the values of conductance).

From Figure G13-1, the relative parameter uncertainty variance reduction is large for all parameters, which suggests their values lead to changes in the model that can be compared against the calibration dataset. The results presented in Figure G13-1 imply that regional throughflow is important in the groundwater model.

G14. Time-Varying Material Parameters

Figure G14-1 and Figure G14-2 presents the relative parameter uncertainty variance reduction of time-varying material parameters. These parameters pertain to subsidence model, amendment of empirically based/regression equations as well as minimum and maximum hydraulic conductivity values.

From Figure G14-1 and Figure G14-2, the relative parameter uncertainty variance reduction of most parameters is large (more than 0.4), with the remainder being medium (between 0.2 and 0.4) to negligible (less than 0.05).

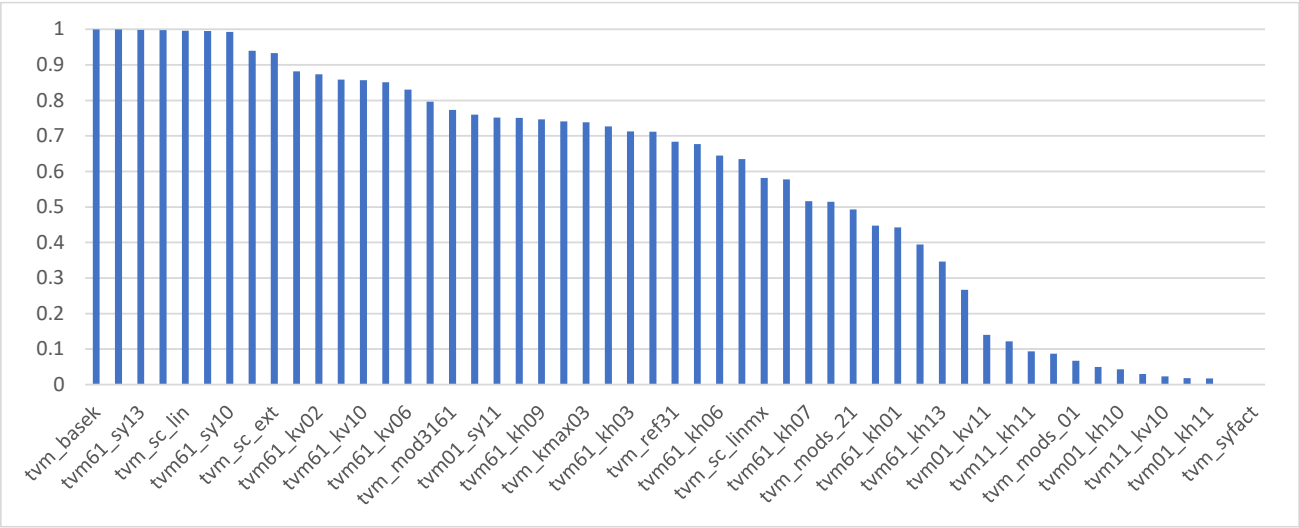


Figure G14-1: Relative parameter uncertainty variance reduction – Time-Varying Material Parameters

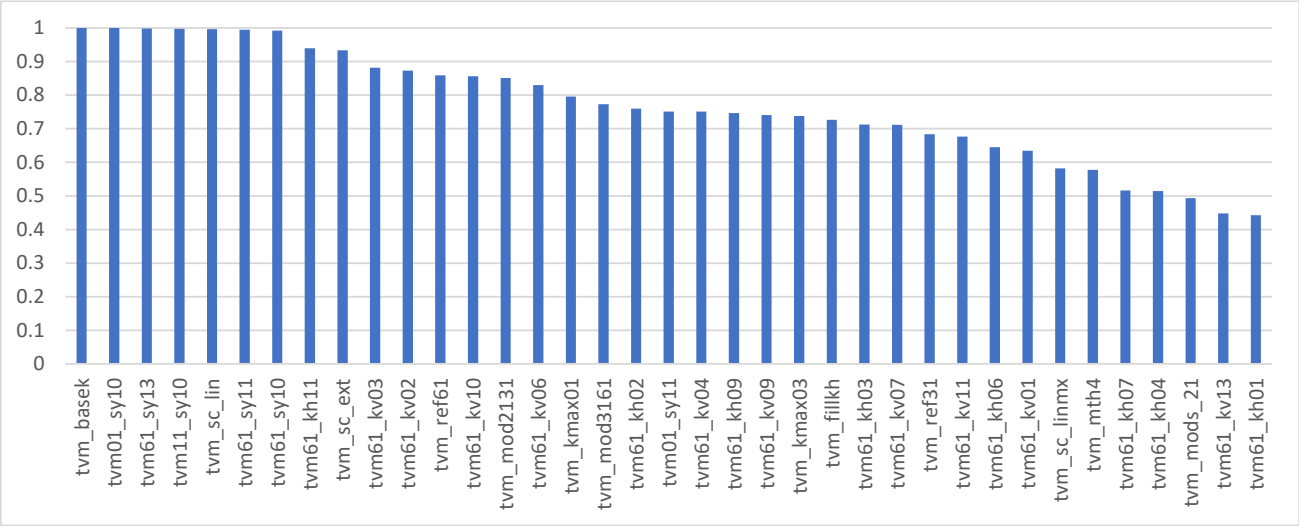


Figure G14-2: Relative parameter uncertainty variance reduction (greater than 0.4) – Time-Varying Material Parameters

G15. Tammetta, HA2 for Model Mining Method 2 Pilot Point Adjustment Factors

Figure G15-1 presents the relative parameter uncertainty variance reduction for the adjustment factors (as Pilot Points) of Tammetta's Height of top of Zone A, H_{A2}, for Model Mining Method 2 (Partial Extraction). As presented in **Section** 4.11.1, the equation adopted in this model was based on fitting 'Special H' data in Tammetta (2013).

From Figure G15-1, the relative parameter uncertainty variance reduction of these Pilot Points is large. This implies that changes to these parameter values leads to changes in model output that can be compared to the calibration observation dataset.

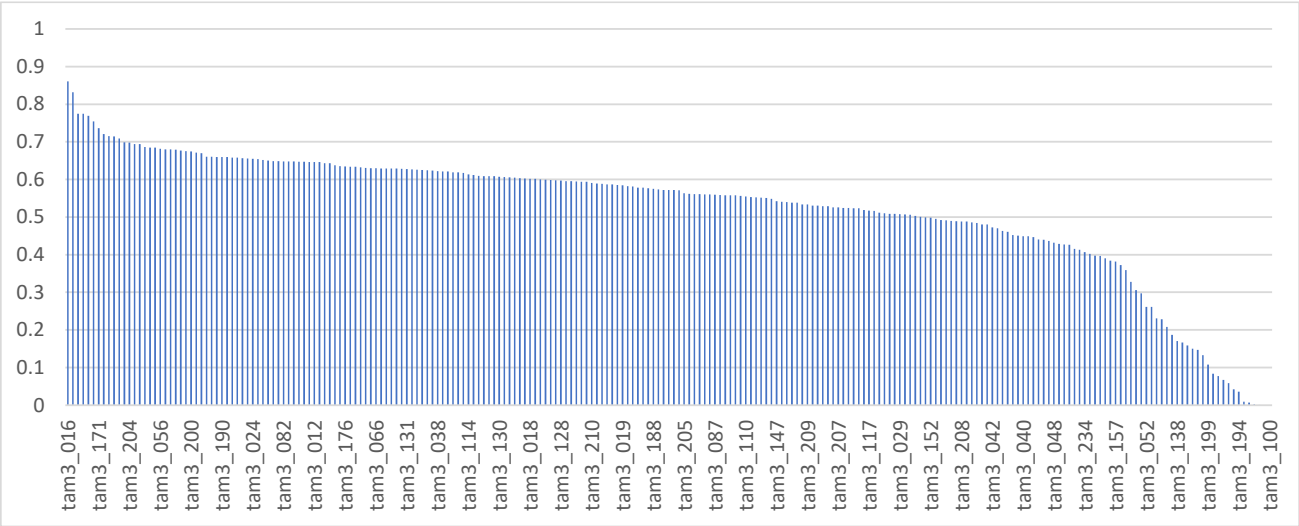


Figure G15-1: Relative parameter uncertainty variance reduction – Tammetta, HA2 for Model Mining Method 2 Pilot Point Adjustment Factors

G16. Tammetta, HA2 for Model Mining Method 5 Pilot Point Adjustment Factors

Figure G16-1 presents the relative parameter uncertainty variance reduction of the adjustment factor (as Pilot Point) to Tammetta's Height of top of Zone A, H_{A2}, for Model Mining Method 2 (Longwall Extraction).

From Figure G16-1, the relative parameter uncertainty variance reduction is large most of these Pilot Points.

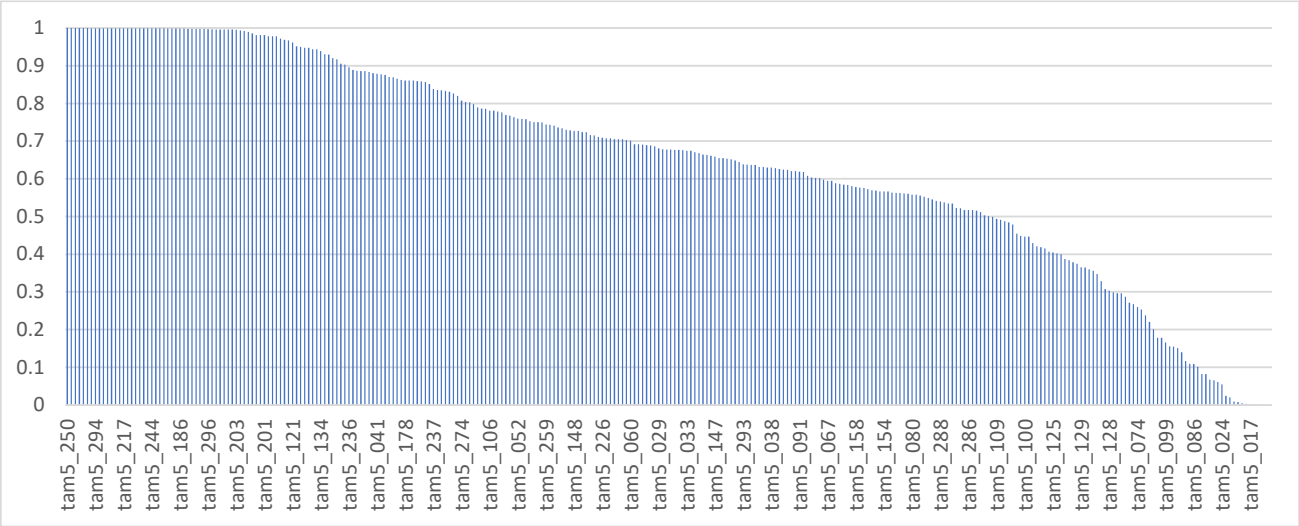


Figure G16-1: Relative parameter uncertainty variance reduction – Tammetta, HA2 for Model Mining Method 5 Pilot Point Adjustment Factors

G17. Drain Boundary Condition – General Parameters

Figure G17-1 presents the relative parameter uncertainty variance reduction of sequential multipliers of streambed hydraulic conductivity of ephemeral watercourses, the streambed hydraulic conductivity of ephemeral waterbodies, the conductance of general open cut dewatering and the conductance of seepage faces.

From Figure G17-1, the relative parameter uncertainty variance reduction is large except for general open cut dewatering (as these were historical, prior to commencement of monitoring; and there are few areas of this activity in the model) and the streambed hydraulic conductivity of ephemeral waterbodies.

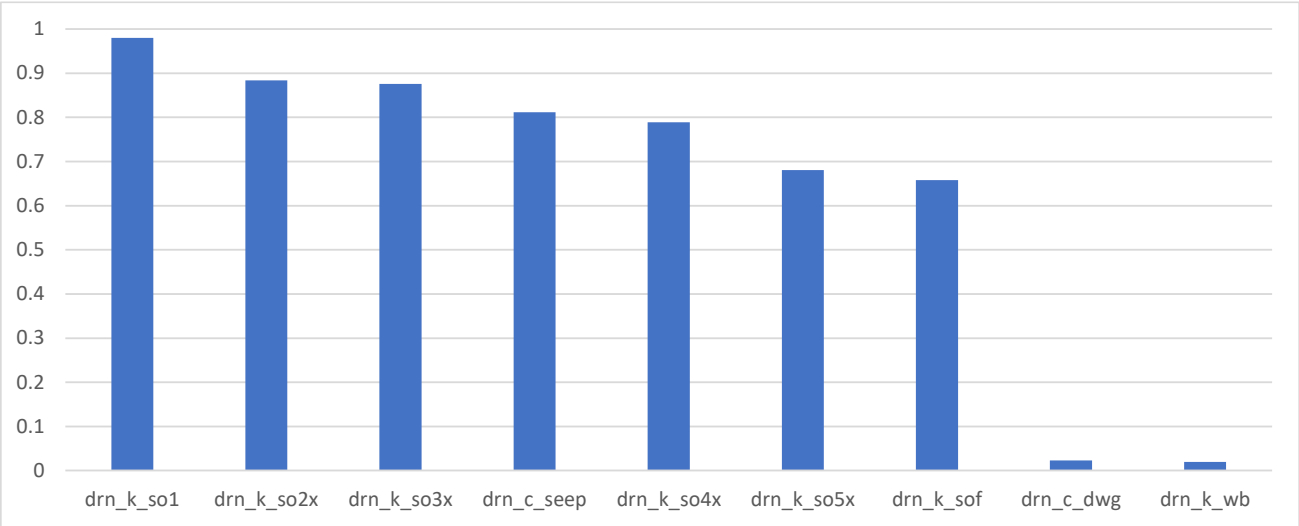


Figure G17-1: Relative parameter uncertainty variance reduction – Drain Boundary Condition – General Parameters

G18. Drain Boundary Condition Conductance – Stacked Drains

Figure G18-1 presents the relative parameter uncertainty variance reduction of the conductance of the top and bottom of the Stacked Drains.

From Figure G18-1**,** the values of these parameters are sensitive in the model, which is expected.

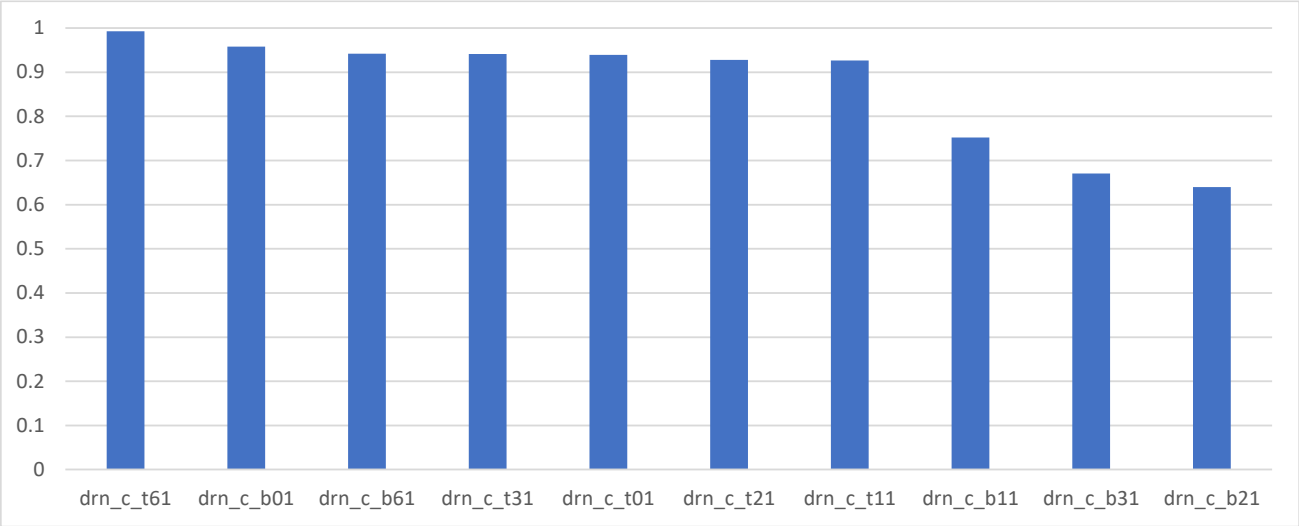


Figure G18-1: Relative parameter uncertainty variance reduction – Drain Boundary Condition Conductance – Stacked Drains

G19. Drain Boundary Condition Conductance – Mine Water Management

Figure G19-1 presents the relative parameter uncertainty variance reduction of conductance values for drain boundary conditions used in mine water management cells. Relevant parameters were Model Mining Method 1 (Development; drn_mwm01, drn_mwm11), Model Mining Method 2 (Partial Extraction; drn_mwm21), Model Mining Method 4 (Total Extraction; drn_mwm31) and Model Mining Method 5 (Longwall Extraction; drn_mwm61).

From Figure G19-1, the relative parameter uncertainty variance reduction of conductance of drain boundary conditions used to represent mine water management ranged between large (more than 0.4) and small (between 0.05 and 0.20).

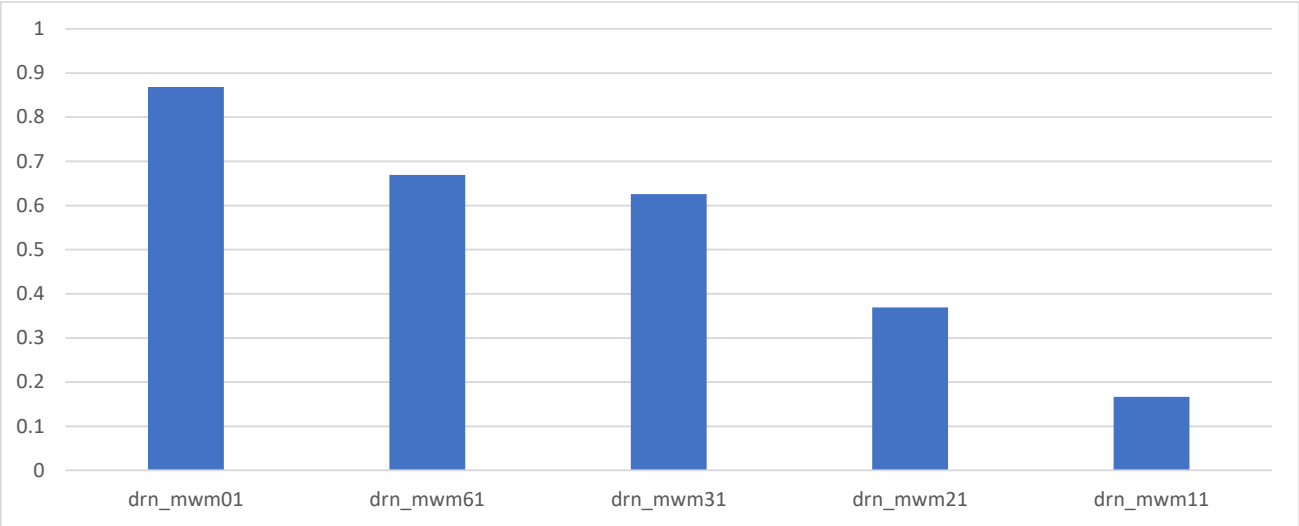


Figure G19-1: Relative parameter uncertainty variance reduction – Drain Boundary Condition Conductance – Mine Water Management

G20. Drain Boundary Condition Conductance Scaling Factors of Surface Water Reaches

Figure G20-1 presents the relative parameter uncertainty variance reduction of scaling factors applied to the drain boundary condition conductance of surface water reaches.

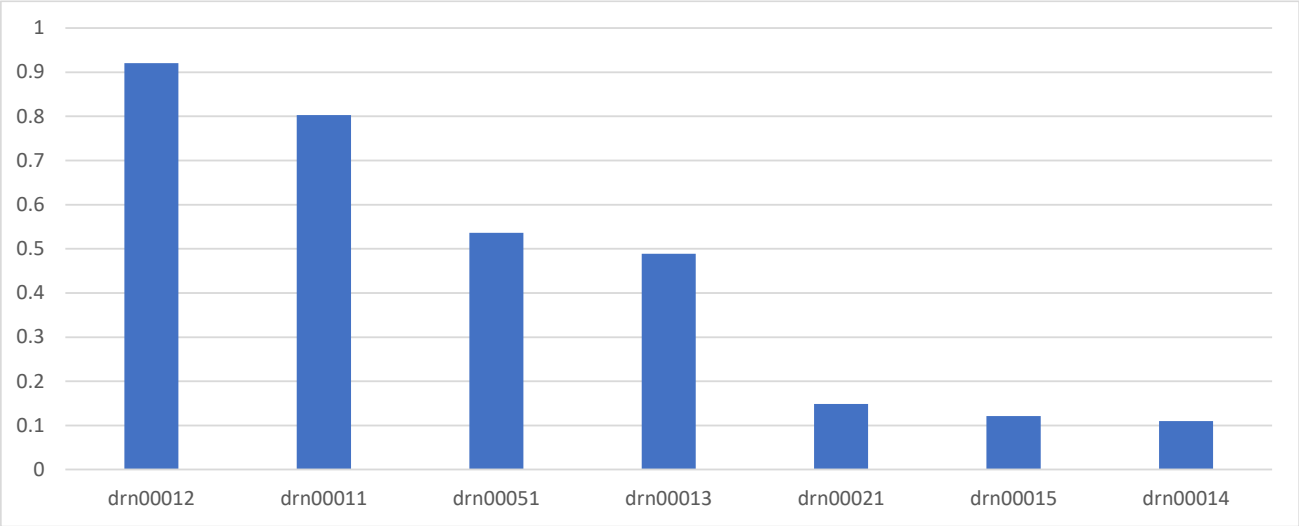


Figure G20-1: Relative parameter uncertainty variance reduction – Drain Boundary Condition Conductance Scaling Factors – Surface Water Reaches

From Figure G20-1, the relative parameter uncertainty variance reduction is large for first, second and third order (Strahler Order) watercourses, and is small for fourth and fifth order watercourses (primarily because there are fewer of these, and are they are away from mining activity (and hence observation)).

From Figure G20-1, the scaling factor of conductance of surface overland flow (drn00051) is large and is small for ephemeral waterbodies (drn00021) is small.

G21. Drain Boundary Condition Conductance Scaling Factors of Seepage Face Reaches

Figure G21-1 presents the relative parameter uncertainty variance reduction of scaling factors of conductance of drain boundary conditions representing seepage faces in the groundwater model.

In Figure G21-1, the parameter naming convention is: drn00102 is Layer 02 through to drn00128 is Layer 28. It is noted that there were no seepage faces applied in Layer 01, Layer 29 or Layer 30.

From Figure G21-1, the relative parameter uncertainty variance reduction ranges between small and large.

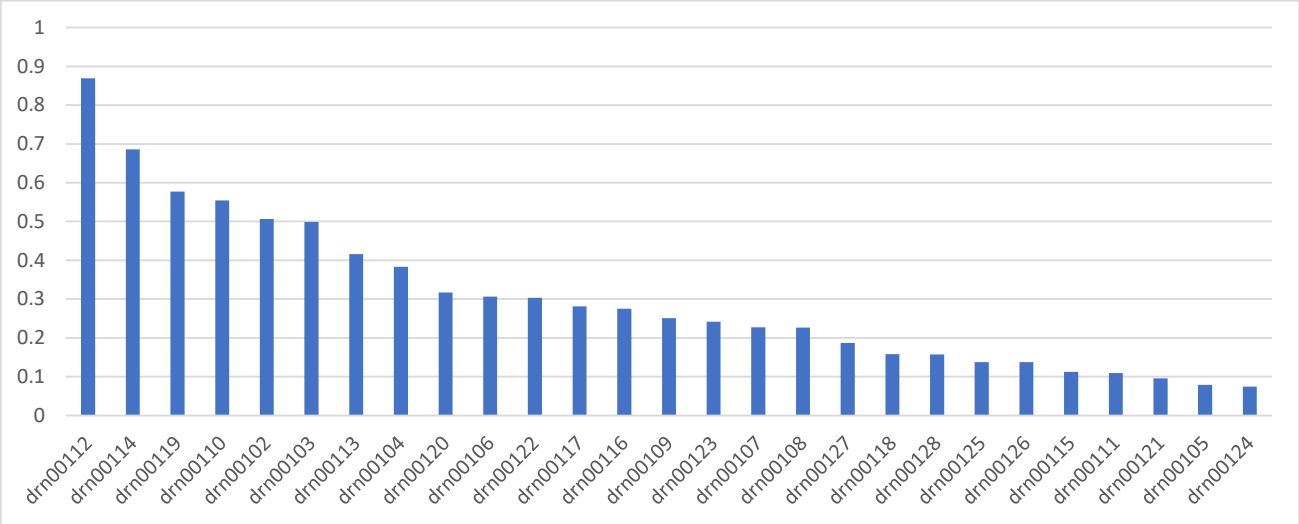


Figure G21-1: Relative parameter uncertainty variance reduction – Drain Boundary Condition Conductance Scaling Factors – Seepage Faces

G22. Drain Boundary Condition Conductance Scaling Factors of Stacked Drain Reaches

Figure G22-1 and Figure G22-2 present the relative parameter uncertainty variance reduction of scaling factors to the conductance applied to drain boundary conditions – Stacked Drains.

From Figure G22-1 and Figure G22-2, approximately 30% of the reaches have a large relative parameter uncertainty variance reduction, with most being small (between 0.05 and 0.20) and some being negligible (less than 0.05).

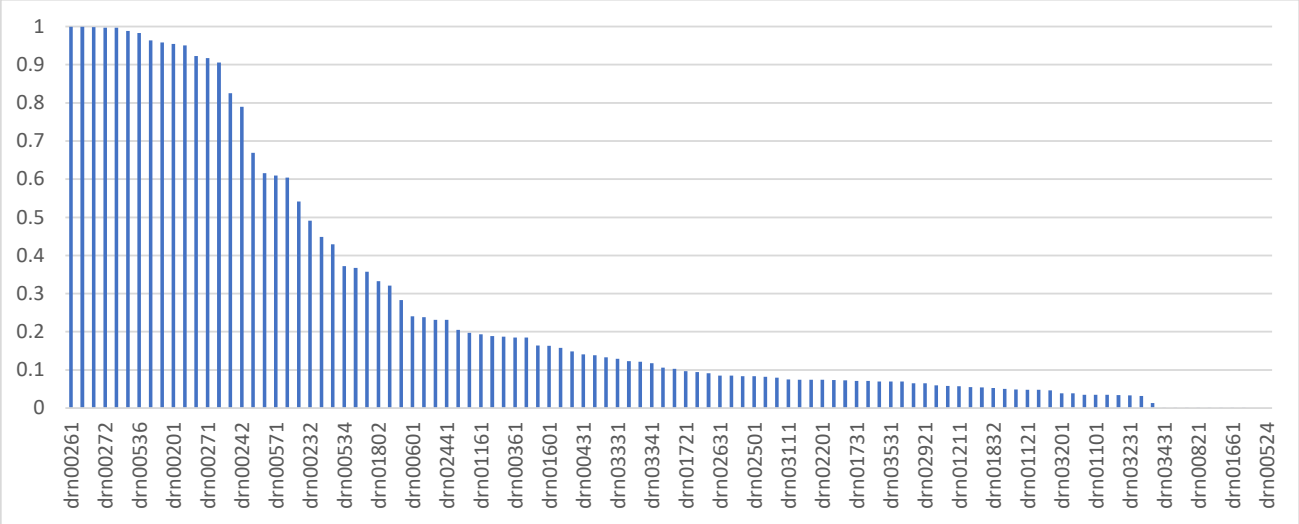


Figure G22-1: Relative parameter uncertainty variance reduction – Drain Boundary Condition Conductance Scaling Factors – Stacked Drains

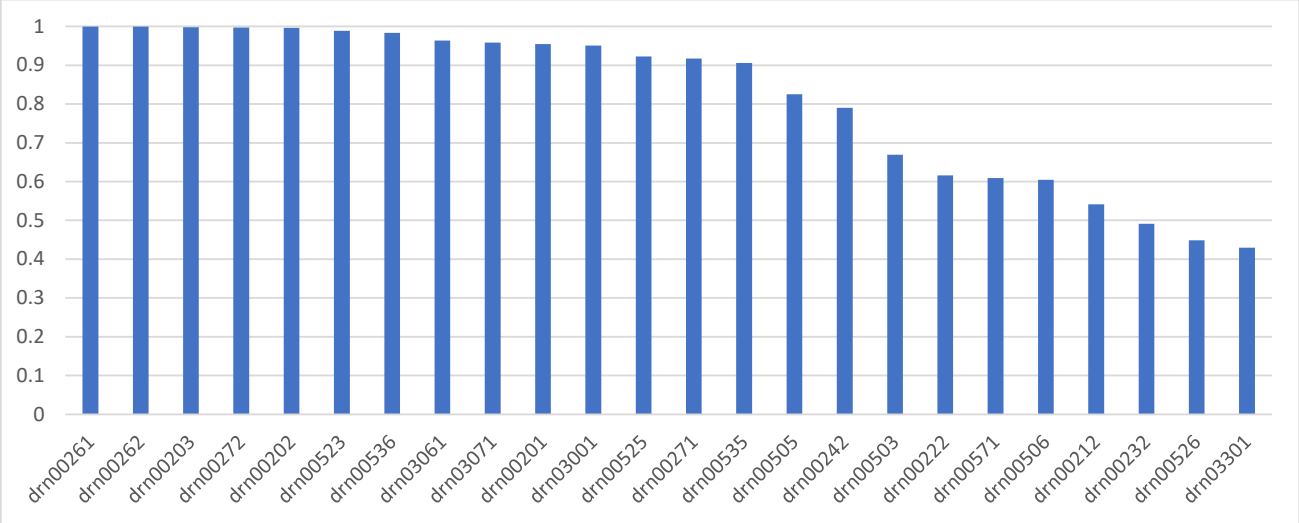


Figure G22-2: Relative parameter uncertainty variance reduction (greater than 0.4) – Drain Boundary Condition Conductance Scaling Factors – Stacked Drains

G23. Drain Boundary Condition Conductance Scaling Factors of Mine Water Management Reaches

Figure G23-1 and Figure G23-2 present the relative parameter uncertainty variance reduction of scaling factors of drain boundary condition conductances that represent ongoing mine water management.

From Figure G23-1 and Figure G23-2, most of the scaling factors have a medium to large relative parameter uncertainty variance reduction, with most of the remainder being a small relative parameter uncertainty variance reduction.

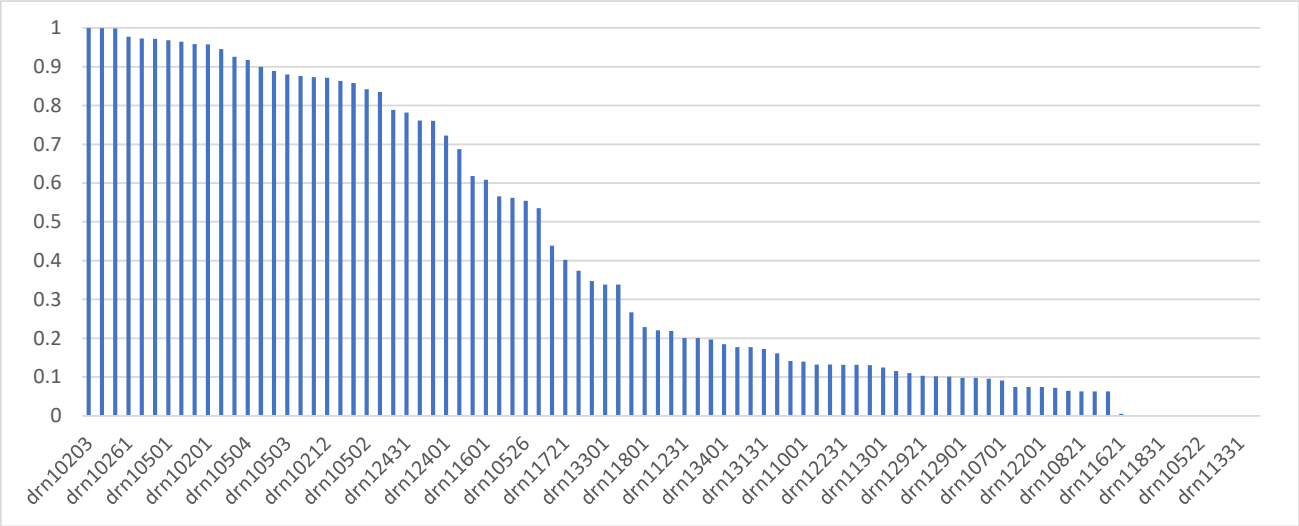


Figure G23-1: Relative parameter uncertainty variance reduction – Drain Boundary Condition Conductance Scaling Factors – Mine Water Management

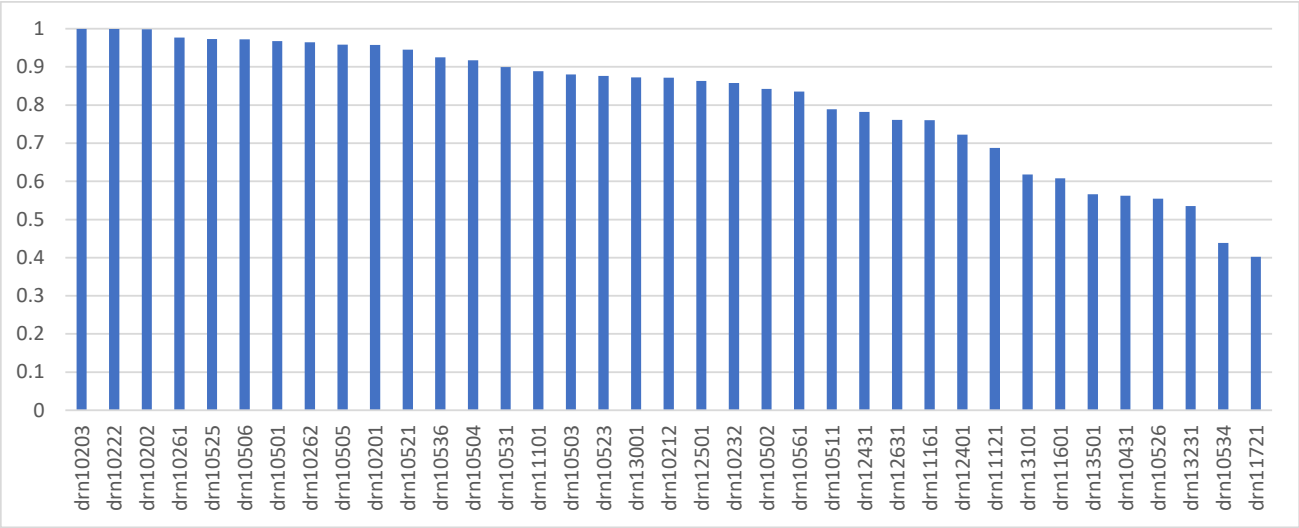


Figure G23-2: Relative parameter uncertainty variance reduction (greater than 0.4) – Drain Boundary Condition Conductance Scaling Factors – Mine Water Management

Appendix H Scenario Analysis – Mine Design Parameters

Appendix H

H1. Scenario Analysis – Mine Design Parameters

As presented in **Section 4.16**, stochastic simulations were prepared for Prediction Period using only 'mine design parameters'. As explained in **Section 4.16**, the parameters that were allowed to vary pertained to the representation of mining operation in the model, with all other parameters held constant (FIXED).

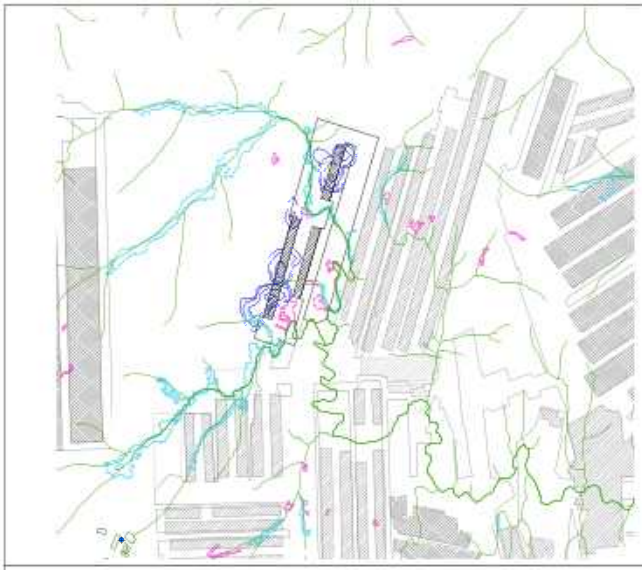
Figure H-1 presents the 10th percentile and 90th percentile ranked change in groundwater elevation of the highest active node, in the Mount York Claystone (Layer 15) and in the Katoomba Seam (Layer 18) in the vicinity of 918 Panel at three output times:

- 31 December 2027 (end of SP153)
- 31 December 2029 (end of SP160)
- 31 December 2049 (end of SP241).

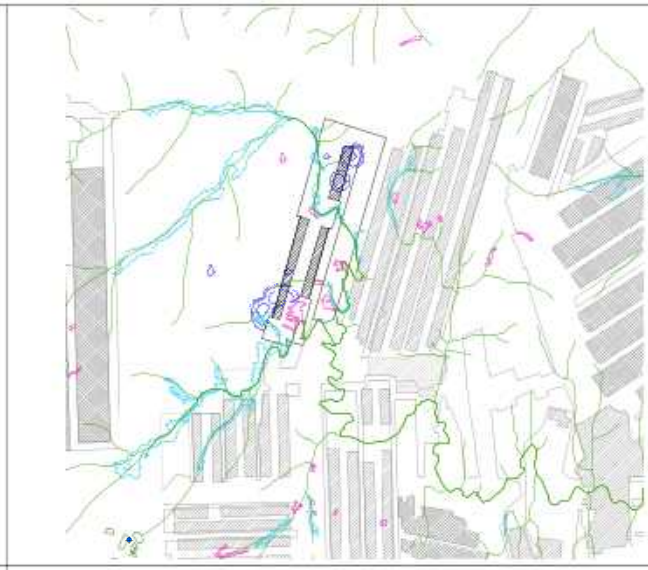
In **Figure H-1**, for the 10th percentile change in groundwater elevation contours for "Proposed Case – Mine Design Parameters" are all slightly within the "Proposed Case". This makes sense, because the 'maximum drawdown' is due to the influence of 'mine design parameters'.

In **Figure H-1**, for the 90th percentile change in groundwater elevation contours, there is a significant difference between the "Proposed Case – Mine Design Parameters" and the "Proposed Case". This is because 'other-than-mine design parameters' are important in the 'minimum drawdown' output.

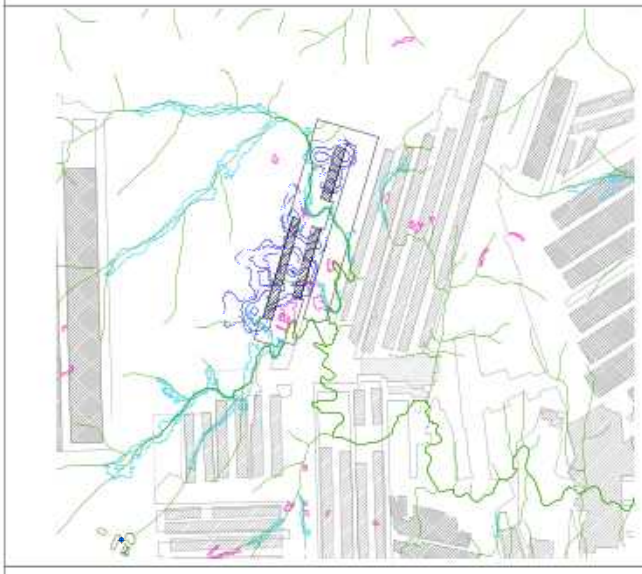
To expand on the explanation, in **Figure H-1**, the difference between 10th and 90th percent change in groundwater elevation for "Proposed Case – Mine Design Parameters" is small. This is different to the difference between 10th and 90th percent change in groundwater elevation for "Proposed Case", which is medium.



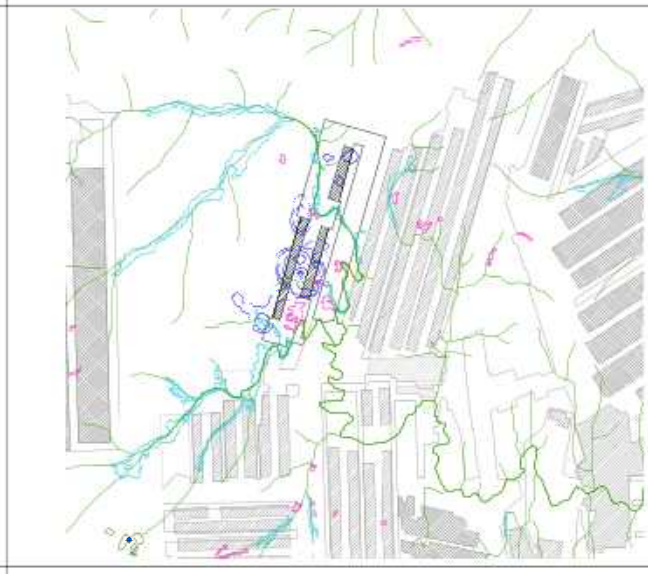
December 2027 (SP153) - Proposed Case



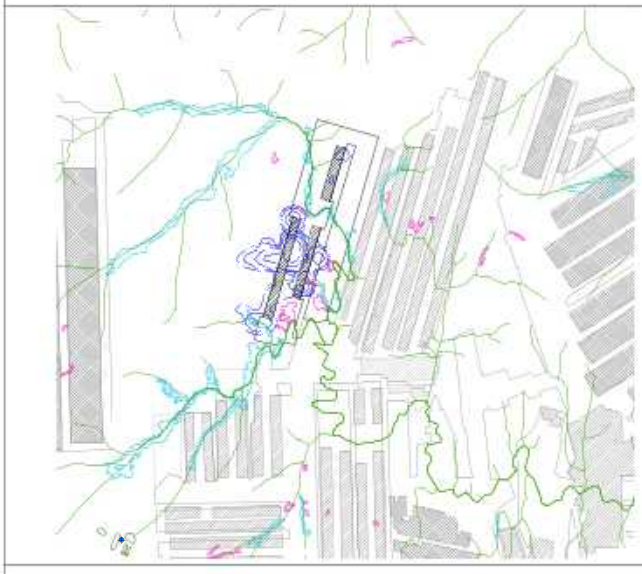
December 2027 (SP153) - Proposed Case (Mine Design Parameters)



December 2029 (SP160) - Proposed Case

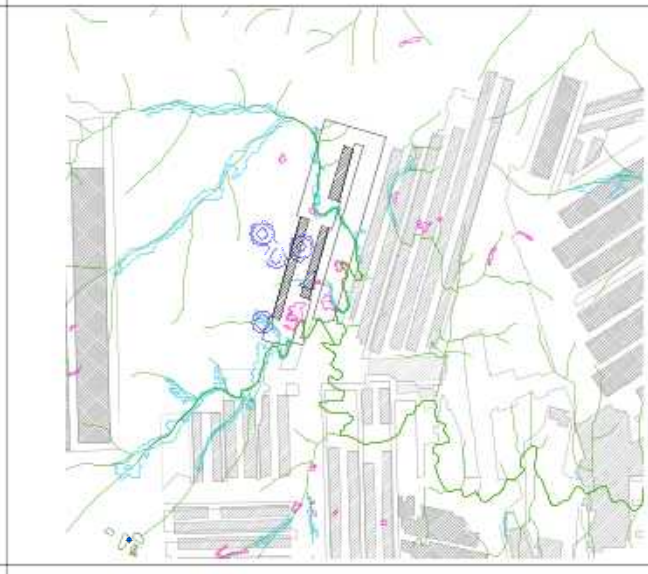


December 2029 (SP160) - Proposed Case (Mine Design Parameters)



December 2049 (SP241) - Proposed Case

Scale 1:58,080 @A4: 0 250 500m



December 2049 (SP241) - Proposed Case (Mine Design Parameters)

Scale 1:58,080 @A4: 0 250 500m

Legend

Mining Methods:
- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Intervals: -0.1m, -0.2m, -0.5m, -1m, -2m, -5m, -10m, -20m, -50m, -100m (as relevant)

Hydrology:
- 50 Newnes Plateau Shrub Swamp (EEC)
- 51 Newnes Plateau Hanging Swamp (EEC)
- Watercourse
- Waterbody

Groundwater Works:
- Groundwater Work (industrial, irrigation and stock and domestic)
- Water Access Licence

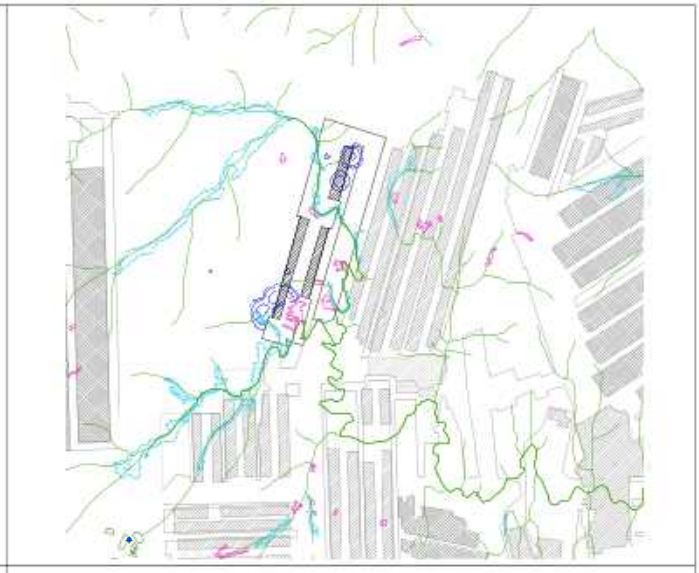
Model Results:
- Modelled Change in Groundwater Elevation (m)

Job No.: 68229		**Change in Groundwater Elevation (m) - Mine Design Parameters** Proposed Case minus Approved Case Highest Active Node (10th Percentile)
Client: Clarence Colliery Pty Ltd		
Version: R01RevD	Date: 12/02/2026	
Drawn By: DAW	Checked By: JRWB	**Figure H-01a** JBS&G

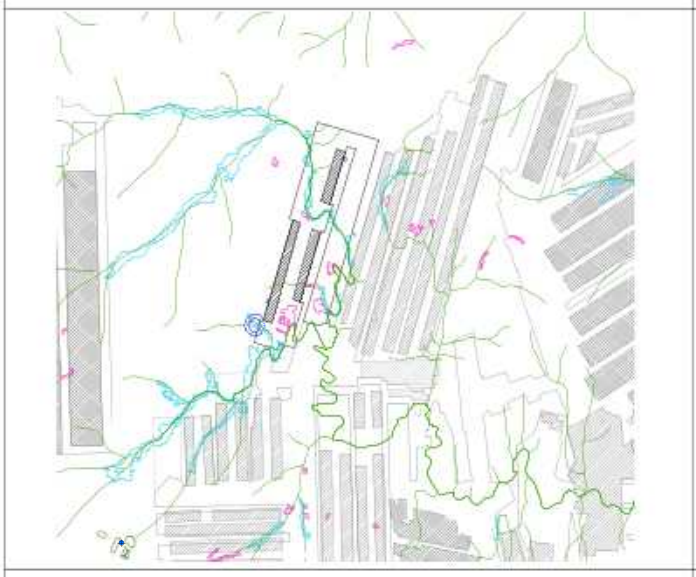
File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevD_D064_UWT_MD\68229_R01RevD_D064a_DDN_UWT_MD_10TH.grf

Reference: 68229_R01RevA_APR_03c_23UnReCalNSMC, 68229_R01RevA_PRO_02a_23UnReCalNSMC.

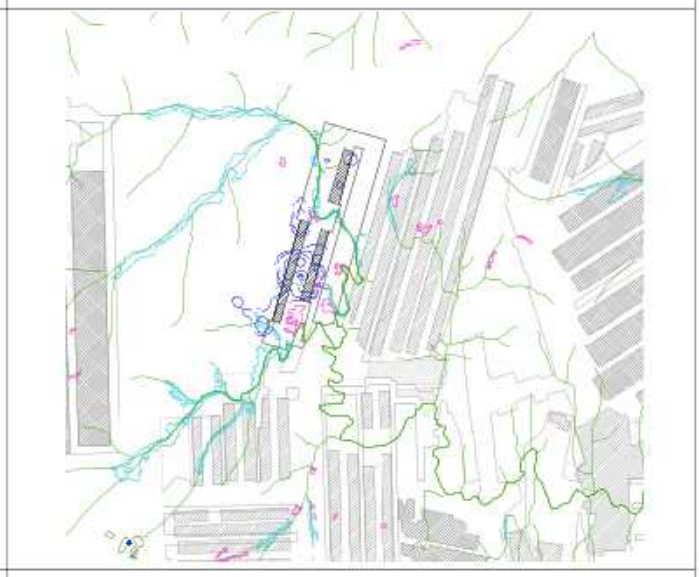
December 2027 (SP153) - Proposed Case



December 2027 (SP153) - Proposed Case (Mine Design Parameters)



December 2029 (SP160) - Proposed Case



December 2029 (SP160) - Proposed Case (Mine Design Parameters)

December 2049 (SP241) - Proposed Case

Scale 1:58,080 @A4: 0 250 500m

December 2049 (SP241) - Proposed Case (Mine Design Parameters)

Scale 1:58,080 @A4: 0 250 500m

Legend

Mining Methods:
- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Intervals: -0.1m, -0.2m, -0.5m, -1m, -2m, -5m, -10m, -20m, -50m, -100m (as relevant)

Hydrology:
- 50 Newnes Plateau Shrub Swamp (EEC)
- 51 Newnes Plateau Hanging Swamp (EEC)
- Watercourse
- Waterbody

Groundwater Works:
- Groundwater Work (industrial, irrigation and stock and domestic)
- Water Access Licence

Model Results:
- Modelled Change in Groundwater Elevation (m)

Job No.: 68229

Client: Clarence Colliery Pty Ltd

Version: R01RevD | Date: 12/02/2026

Drawn By: DAW | Checked By: JRWB

Change in Groundwater Elevation (m) - Mine Design Parameters

Proposed Case minus Approved Case

Highest Active Node (90th Percentile)

Figure H-01b

JBS&G

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevD_D064_UWT_MD\68229_R01RevD_D064b_DDN_UWT_MD_90TH.grf

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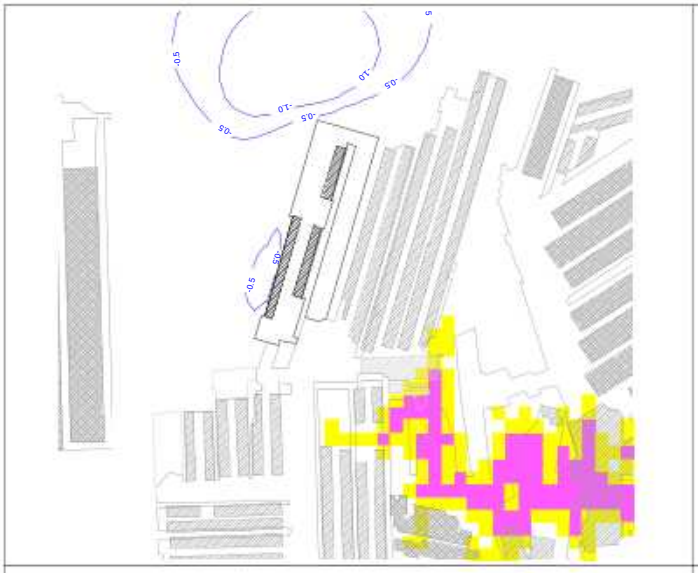
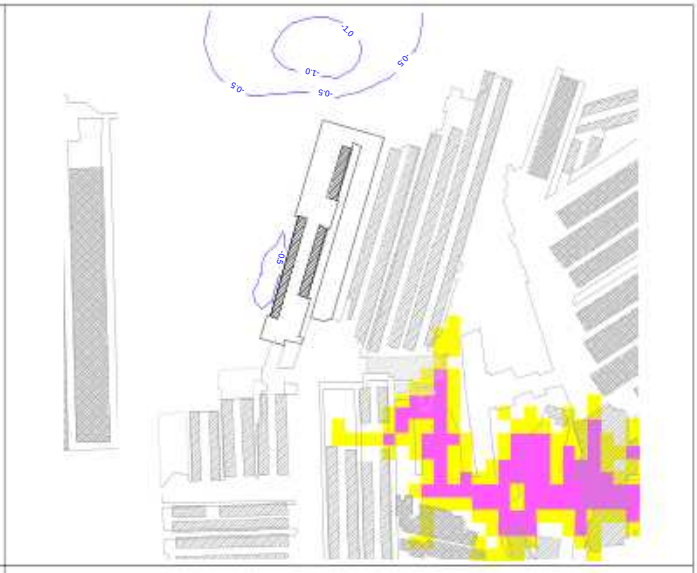
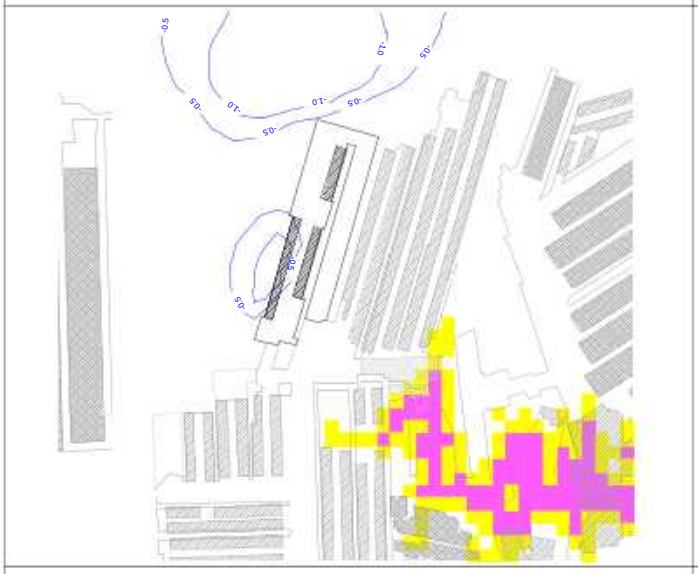


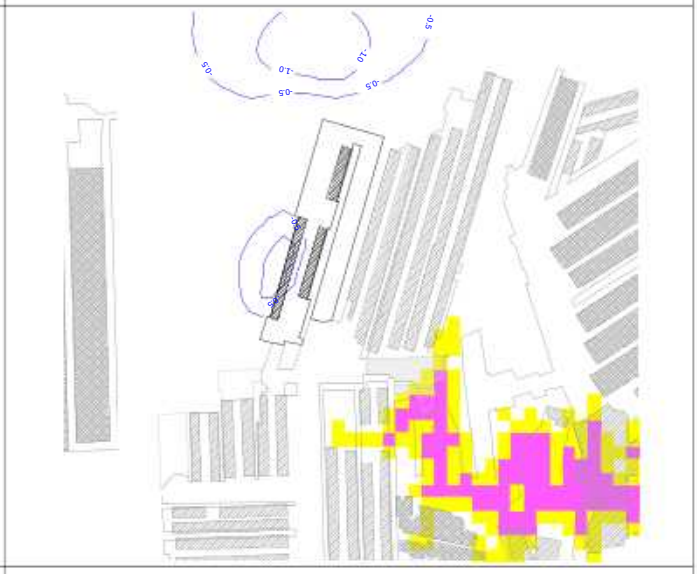
December 2027 (SP153) - Proposed Case



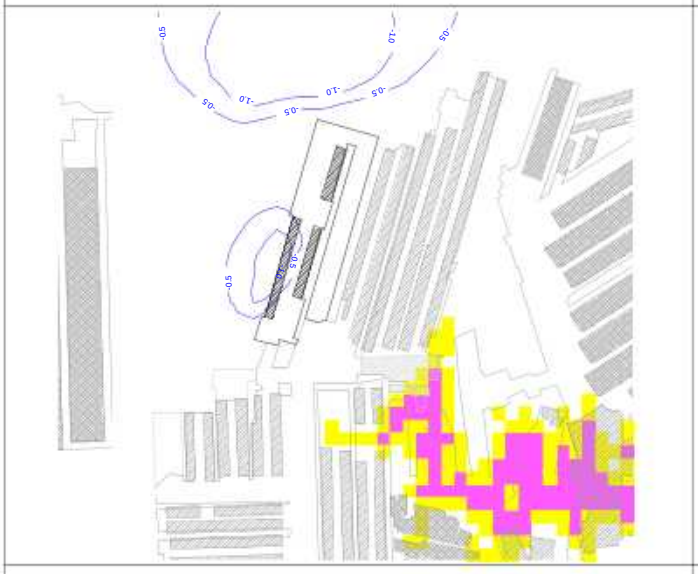
December 2027 (SP153) - Proposed Case (Mine Design Parameters)



December 2029 (SP160) - Proposed Case

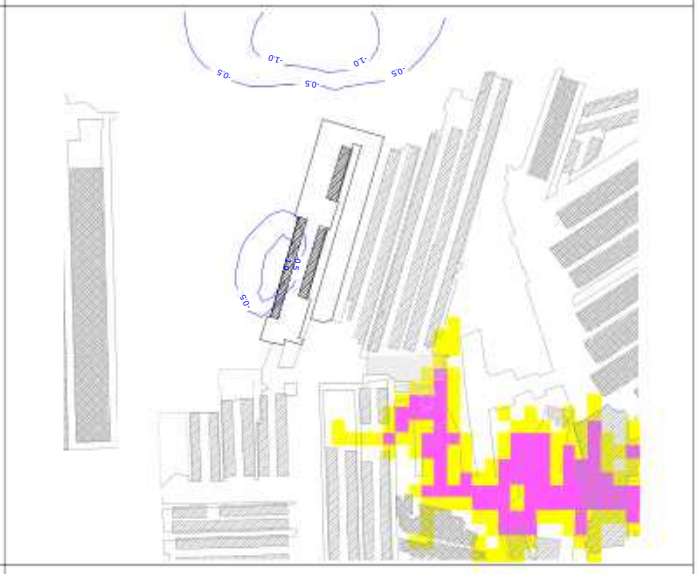


December 2029 (SP160) - Proposed Case (Mine Design Parameters)



December 2049 (SP241) - Proposed Case

Scale 1:58,080 @A4: 0 250 500m



December 2049 (SP241) - Proposed Case (Mine Design Parameters)

Scale 1:58,080 @A4: 0 250 500m

Legend

Mining Methods:
- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Intervals: -0.5m, -1m, -2m, -5m, -10m, -20m, -50m, -100m (as relevant)

Model Cell Type:
- Pinched-Out Cells

Model Boundary Conditions:
- Drain (DRN) Cells

Model Results:
- Modelled Change in Groundwater Elevation (m)

Job No.: 68229

Client: Clarence Colliery Pty Ltd

Version: R01RevA | Date: 07/11/2025

Drawn By: DAW | Checked By: JRWB

Change in Groundwater Elevation (m) - Mine Design Parameters

Proposed Case minus Approved Case

Mount York Claystone (Layer 15)
(10th Percentile)

Figure H-01c

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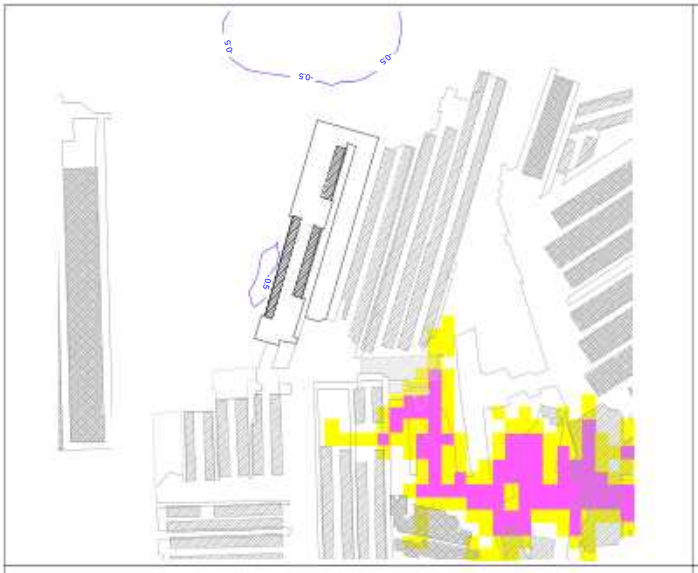
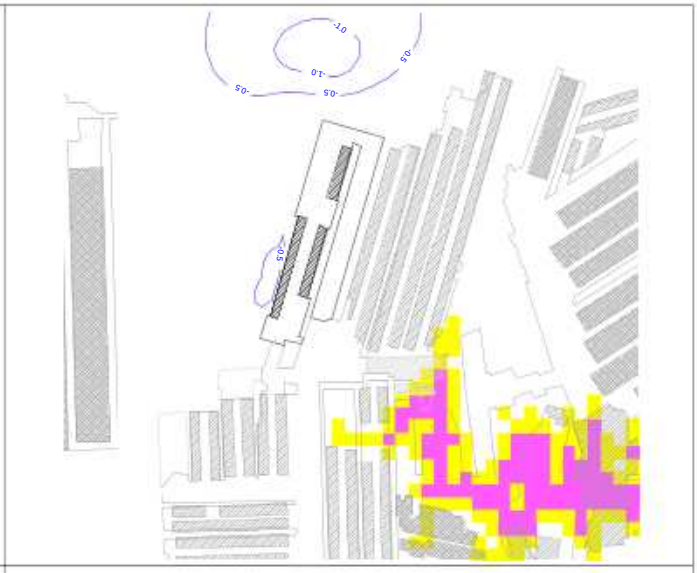
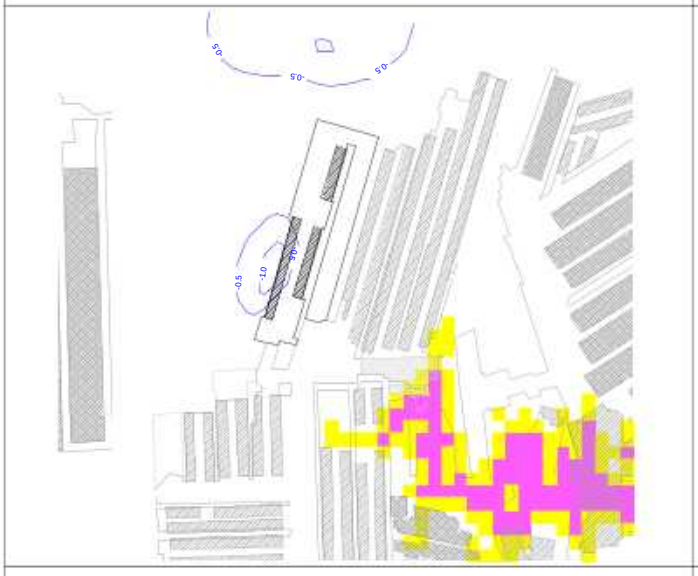


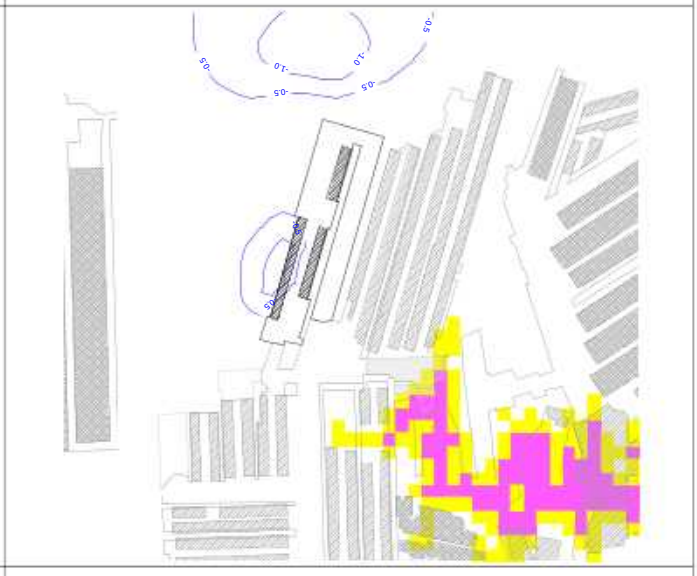
December 2027 (SP153) - Proposed Case



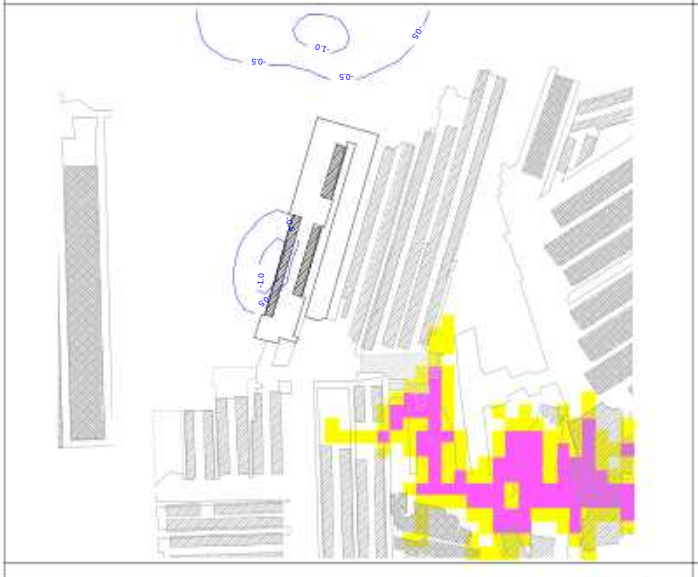
December 2027 (SP153) - Proposed Case (Mine Design Parameters)



December 2029 (SP160) - Proposed Case

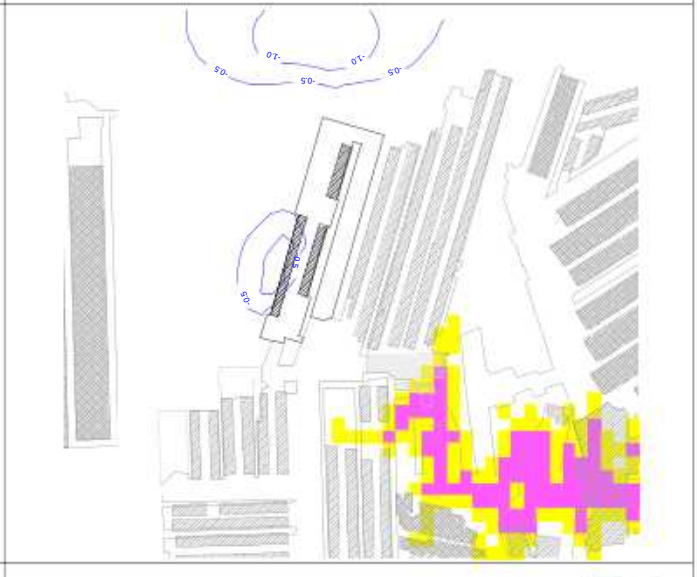


December 2029 (SP160) - Proposed Case (Mine Design Parameters)



December 2049 (SP241) - Proposed Case

Scale 1:58,080 @A4: 0 250 500m



December 2049 (SP241) - Proposed Case (Mine Design Parameters)

Scale 1:58,080 @A4: 0 250 500m

Legend

Mining Methods:
- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Intervals: -0.5m, -1m, -2m, -5m, -10m, -20m, -50m, -100m (as relevant)

Model Cell Type:
- Pinched-Out Cells

Model Boundary Conditions:
- Drain (DRN) Cells

Model Results:
- Modelled Change in Groundwater Elevation (m)

Job No.: 68229

Client: Clarence Colliery Pty Ltd

Version: R01RevA | Date: 07/11/2025

Drawn By: DAW | Checked By: JRWB

Change in Groundwater Elevation (m) - Mine Design Parameters

Proposed Case minus Approved Case

Mount York Claystone (Layer 15)
(90th Percentile)

Figure H-01d

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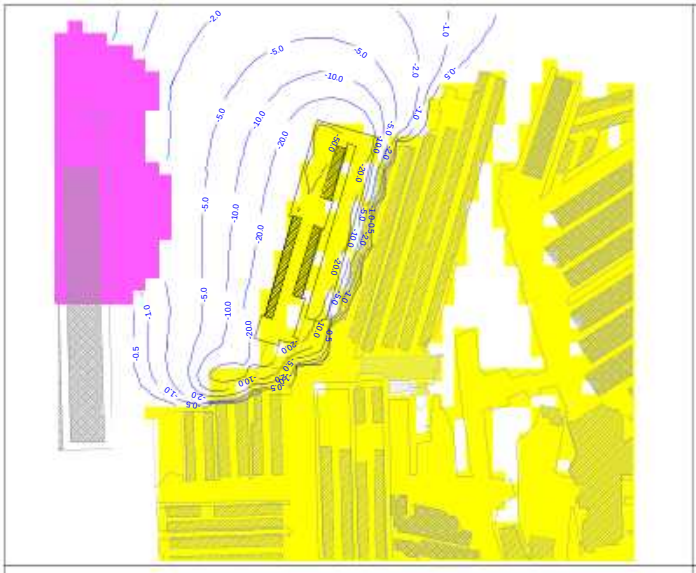
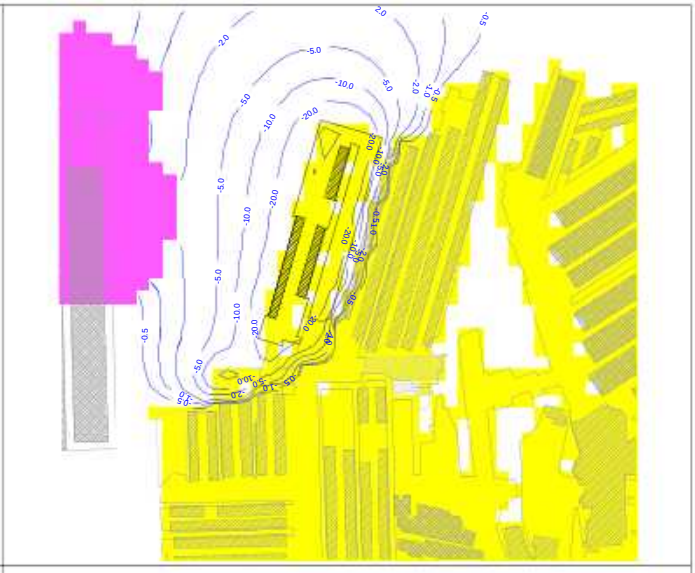
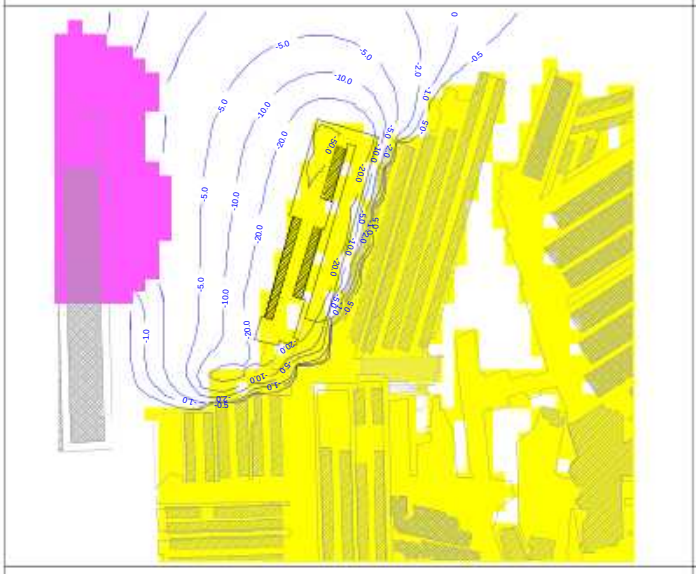


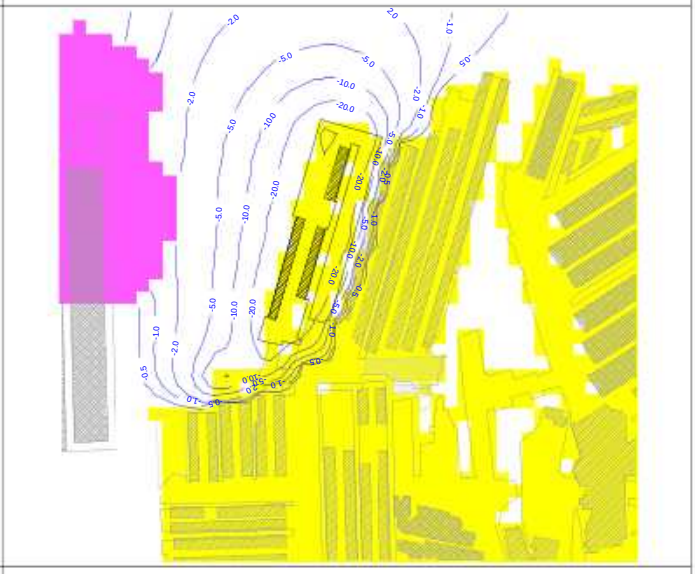
December 2027 (SP153) - Proposed Case



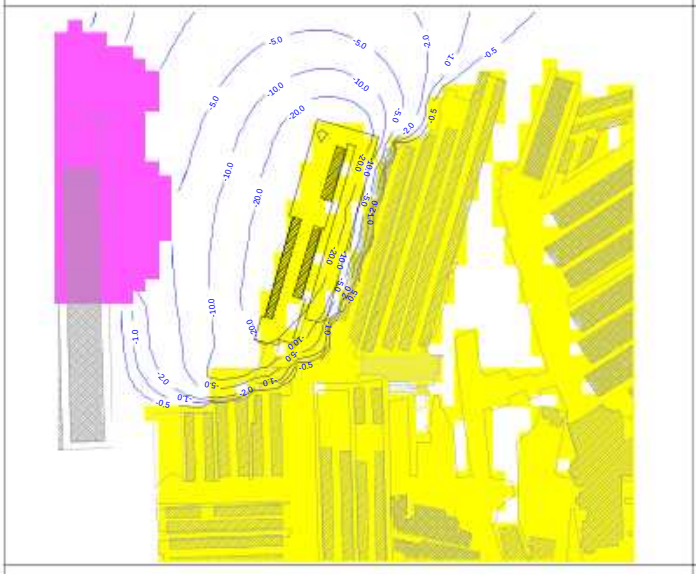
December 2027 (SP153) - Proposed Case (Mine Design Parameters)



December 2029 (SP160) - Proposed Case

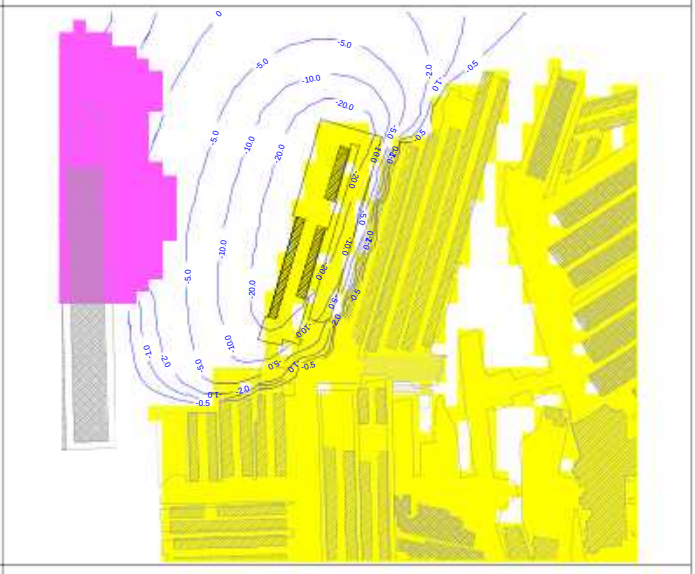


December 2029 (SP160) - Proposed Case (Mine Design Parameters)



December 2049 (SP241) - Proposed Case

Scale 1:58,080 @A4: 0 250 500m



December 2049 (SP241) - Proposed Case (Mine Design Parameters)

Scale 1:58,080 @A4: 0 250 500m

Legend

Mining Methods:
- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Intervals: -0.5m, -1m, -2m, -5m, -10m, -20m, -50m, -100m (as relevant)

Model Cell Type:
- Pinched-Out Cells

Model Boundary Conditions:
- Drain (DRN) Cells

Model Results:
- Modelled Change in Groundwater Elevation (m)

Job No.: 68229

Client: Clarence Colliery Pty Ltd

Version: R01RevA | Date: 07/11/2025

Drawn By: DAW | Checked By: JRWB

Change in Groundwater Elevation (m) - Mine Design Parameters

Proposed Case minus Approved Case

Katoomba Seam (Layer 18)
(10th Percentile)

Figure H-01e

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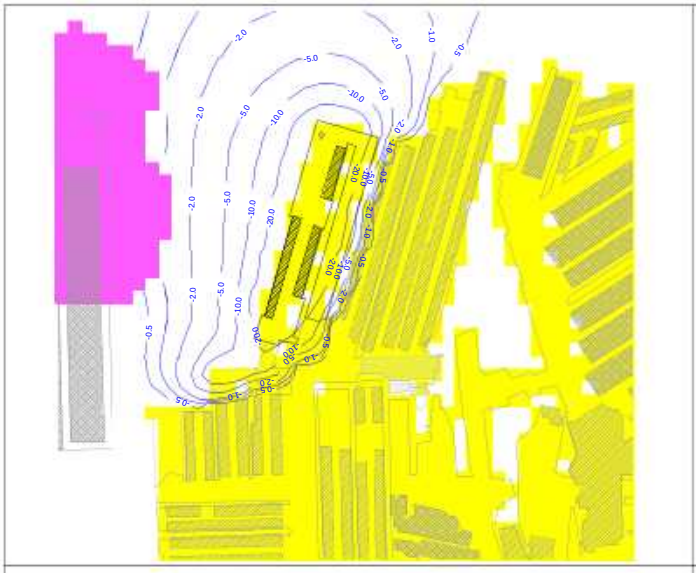
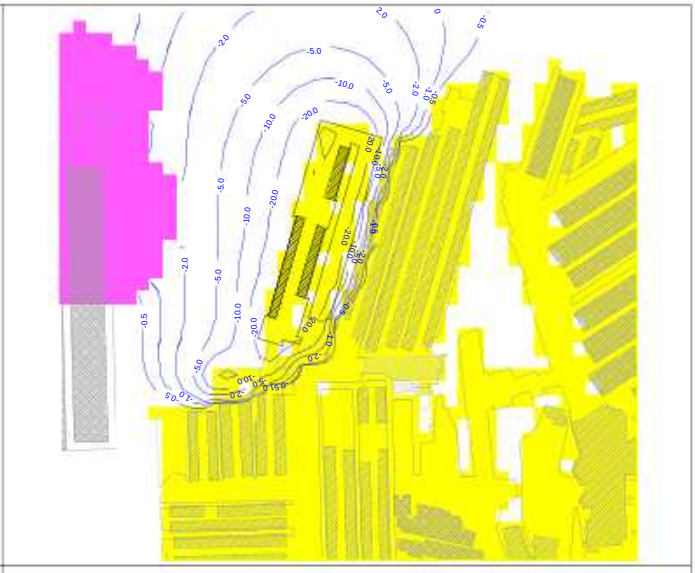
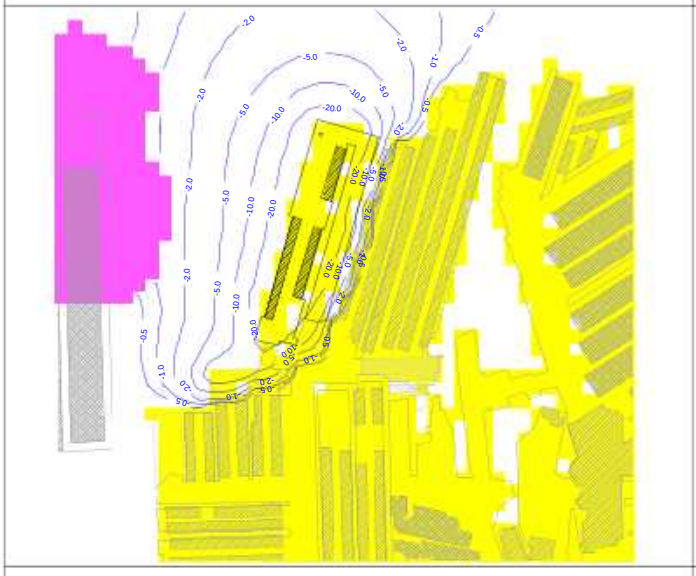
Reference: 68229_R01RevA_APR_03c_23UnReCalNSMC, 68229_R01RevA_PRO_02a_23UnReCalNSMC.



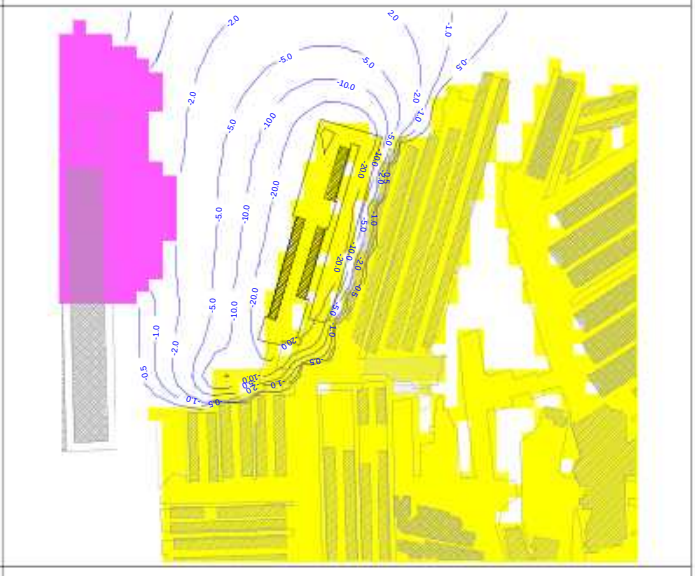
December 2027 (SP153) - Proposed Case



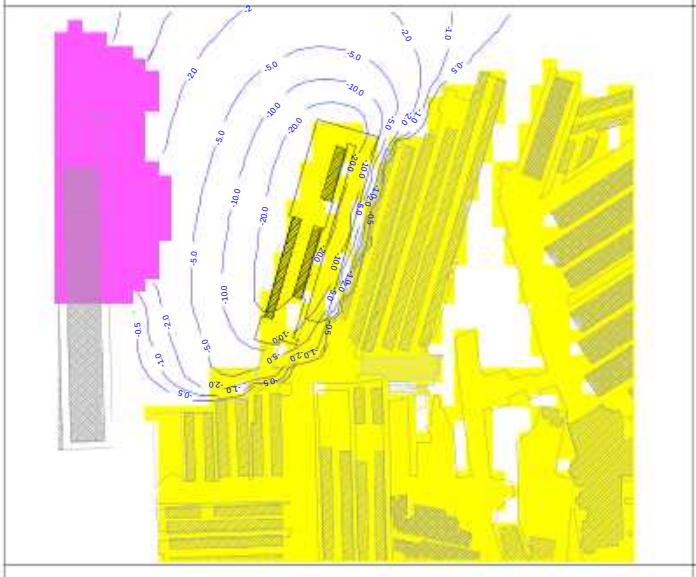
December 2027 (SP153) - Proposed Case (Mine Design Parameters)



December 2029 (SP160) - Proposed Case

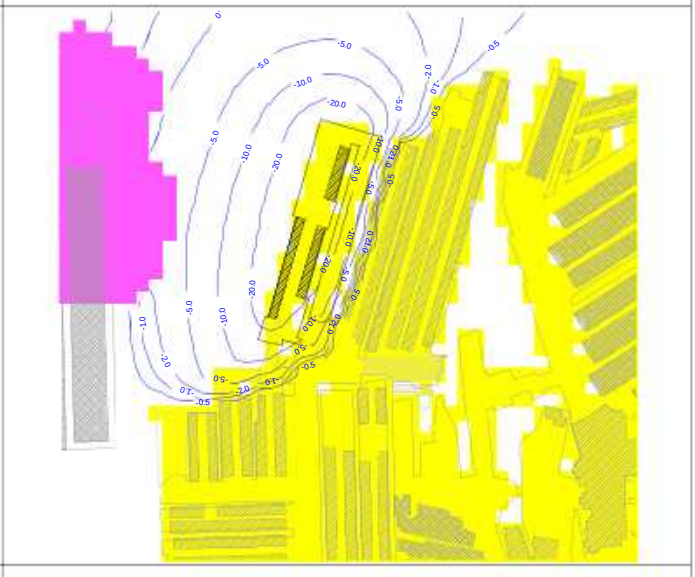


December 2029 (SP160) - Proposed Case (Mine Design Parameters)



December 2049 (SP241) - Proposed Case

Scale 1:58,080 @A4: 0 250 500m



December 2049 (SP241) - Proposed Case (Mine Design Parameters)

Scale 1:58,080 @A4: 0 250 500m

Legend

Mining Methods:
- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Intervals: -0.5m, -1m, -2m, -5m, -10m, -20m, -50m, -100m (as relevant)

Model Cell Type:
- Pinched-Out Cells

Model Boundary Conditions:
- Drain (DRN) Cells

Model Results:
- Modelled Change in Groundwater Elevation (m)

Job No.: 68229

Client: Clarence Colliery Pty Ltd

Version: R01RevA | Date: 07/11/2025

Drawn By: DAW | Checked By: JRWB

Change in Groundwater Elevation (m) - Mine Design Parameters

Proposed Case minus Approved Case

Katoomba Seam (Layer 18)
(90th Percentile)

Figure H-01f

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Reference: 68229_R01RevA_APR_03c_23UnReCalNSMC, 68229_R01RevA_PRO_02a_23UnReCalNSMC.

Appendix I Uncertainty Analysis Convergence

Appendix I

I1. Uncertainty Analysis Convergence

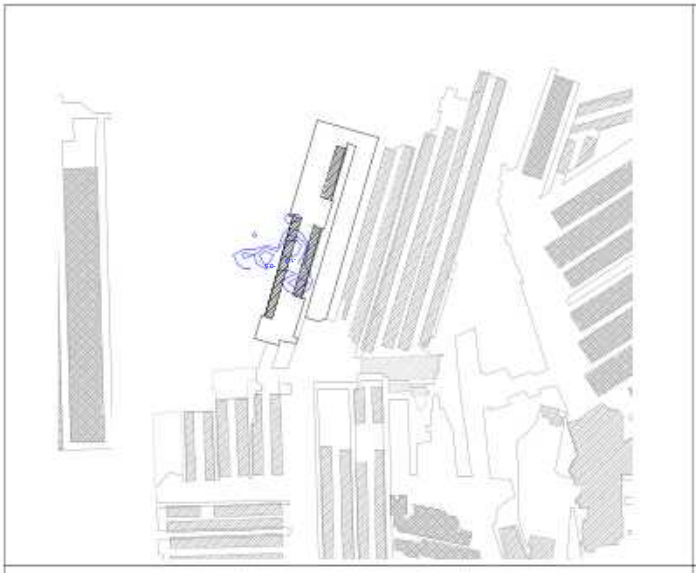
As identified in the Explanatory Note on Uncertainty Analysis in Groundwater Modelling (IESC, 2023a), it is necessary to demonstrate that uncertainty analysis simulations have 'converged'.

Convergence is demonstrated by presenting a model outcome, in this case, change to groundwater elevation, using progressively increasing number of simulations. After a certain number of simulations, generally about 200, the model outcome is the same.

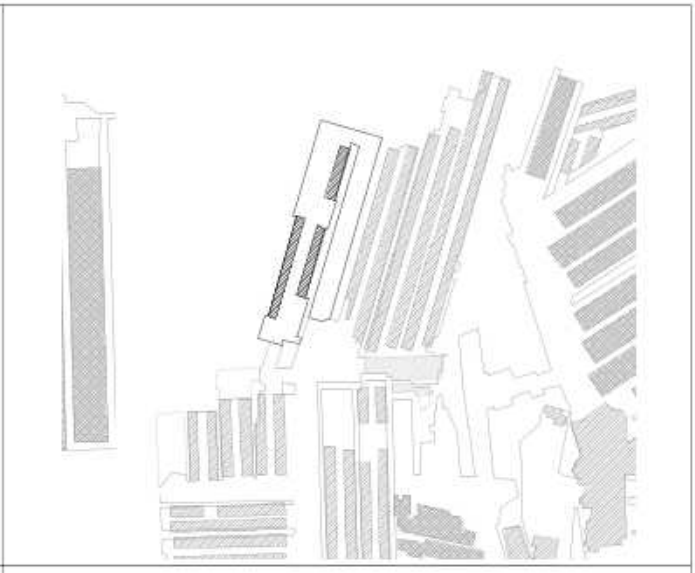
Figure J-1 presents the 10th percentile and 90th percentile ranked change in groundwater elevation of the highest active node, the Mount York Claystone (Layer 15) and the Katoomba Seam (Layer 18) in the vicinity of 918 Panel as at 31 December 2049 (end of SP241).

The 10th% and 90th% ranked output are presented for 30, 60, 90, 150, 210, 286 simulations.

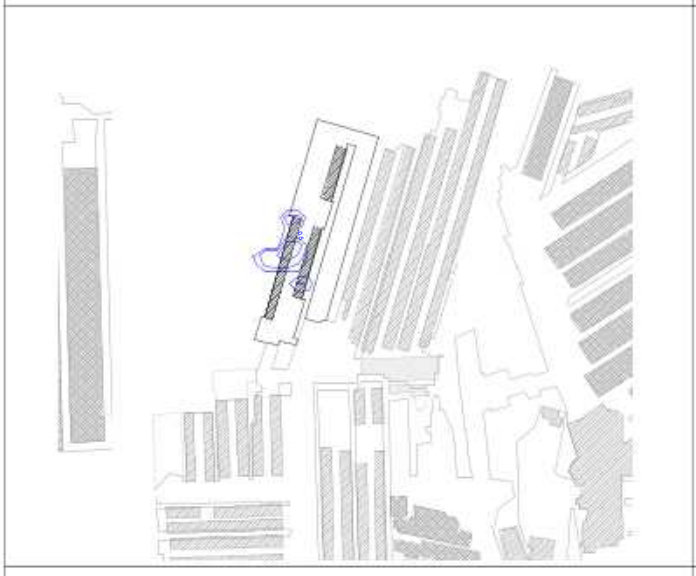
From **Figure J-1**, convergence of the 10th percentile and 90th percentile ranked change in groundwater elevation of the highest active node, the Mount York Claystone (Layer 15) and the Katoomba Seam (Layer 18), is demonstrated relative rapidly and certainly within 210 simulations.



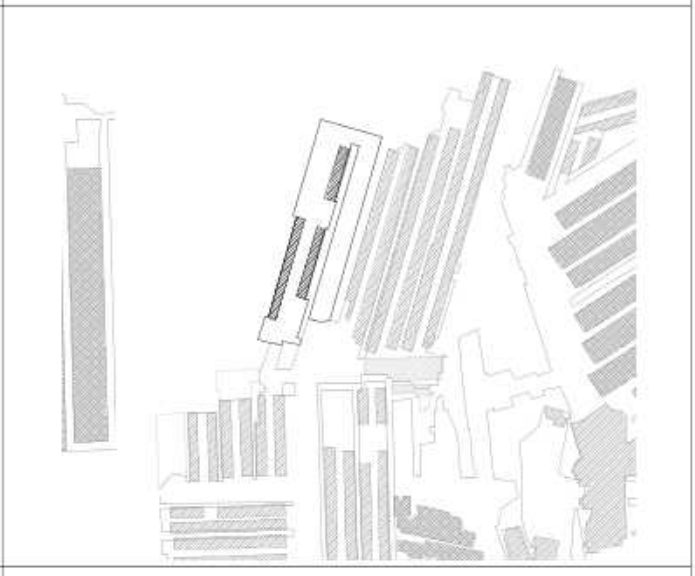
10th Percentile - 30 Simulations



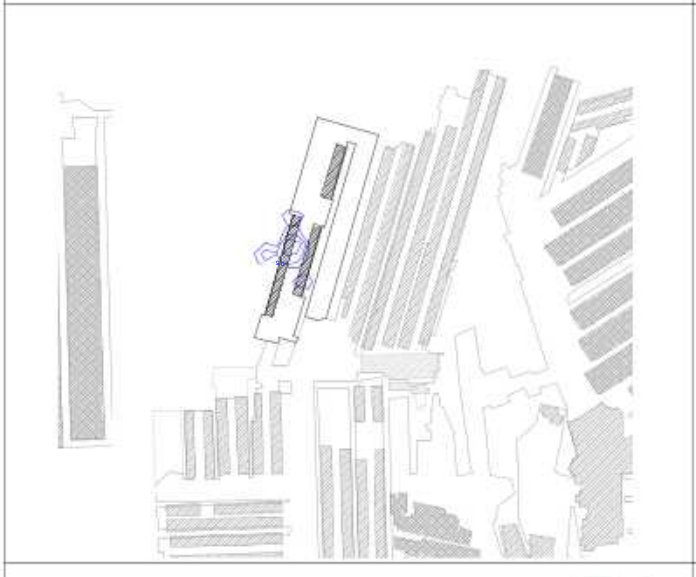
90th Percentile - 30 Simulations



10th Percentile - 60 Simulations

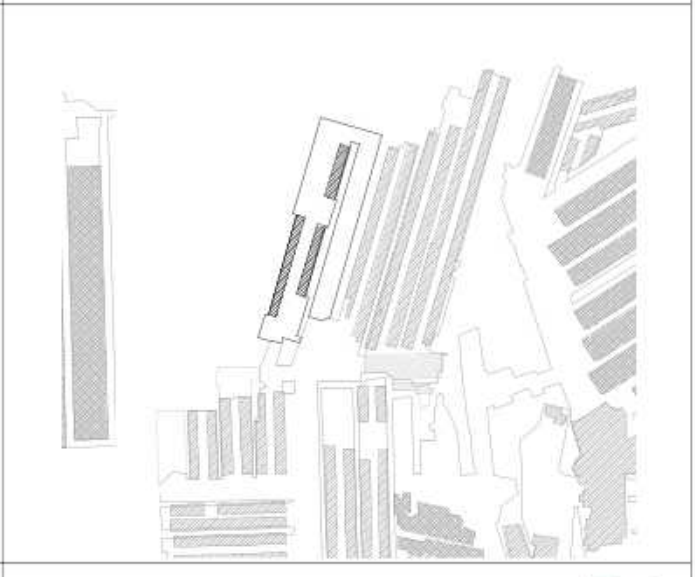


90th Percentile - 60 Simulations



10th Percentile - 90 Simulations

Scale 1:58,080 @A4: 0 250 500m



90th Percentile - 90 Simulations

Scale 1:58,080 @A4: 0 250 500m

Legend

Mining Methods:
- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Intervals: -0.5m, -1m, -2m, -5m, -10m, -20m, -50m, -100m (as relevant)

Model Cell Type:
- Pinched-Out Cells

Model Boundary Conditions:
- Drain (DRN) Cells

Model Results:
- Modelled Change in Groundwater Elevation (m)

Job No.: 68229

Client: Clarence Colliery Pty Ltd

Version: R01RevA | Date: 07/11/2025

Drawn By: DAW | Checked By: JRWB

Uncertainty Analysis Convergence Change in Groundwater Elevation (m) - December 2049 (SP241)

Highest Active Node
(30, 60, 90 Simulations)

Figure I-01a

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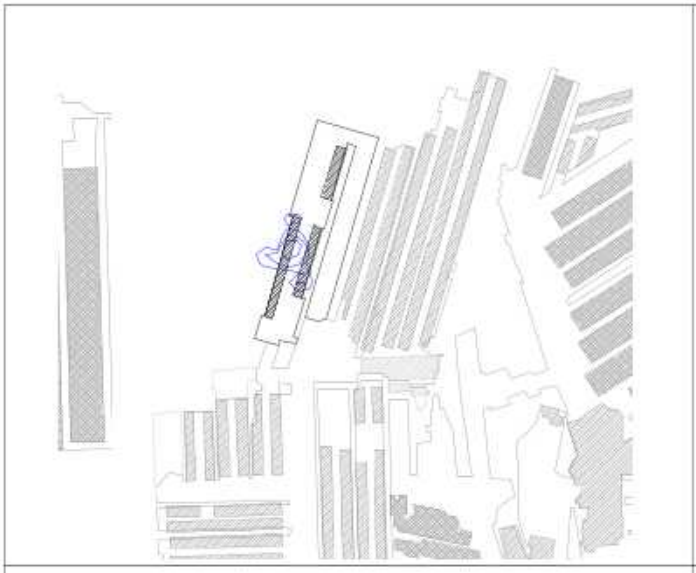
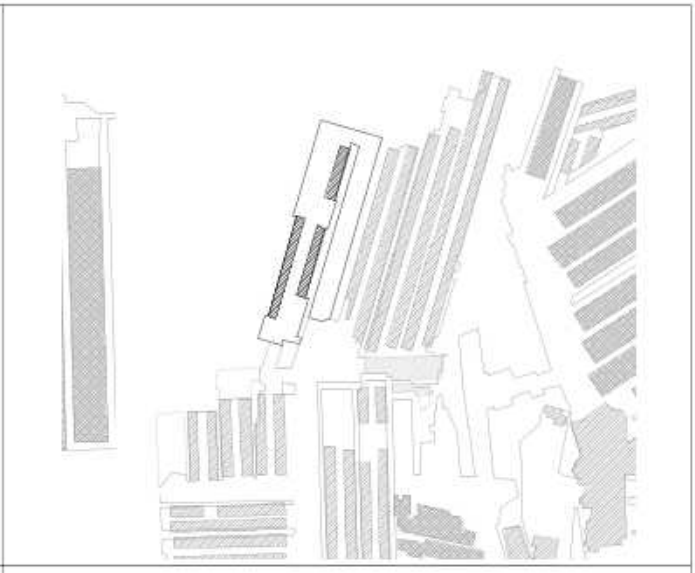
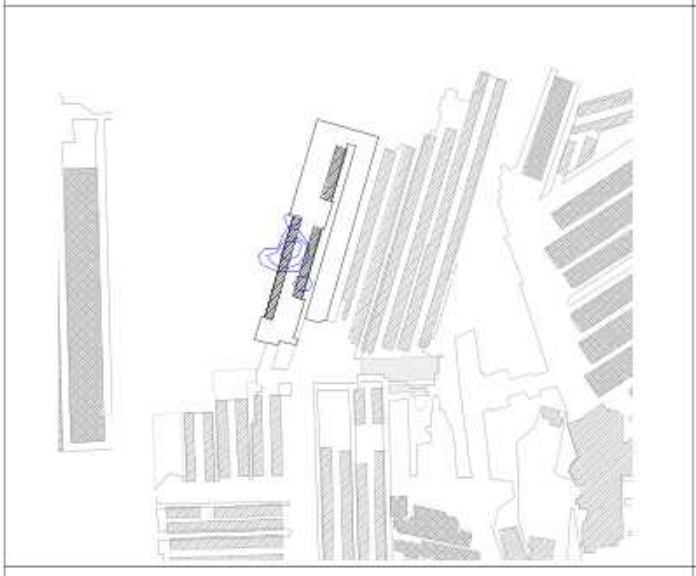


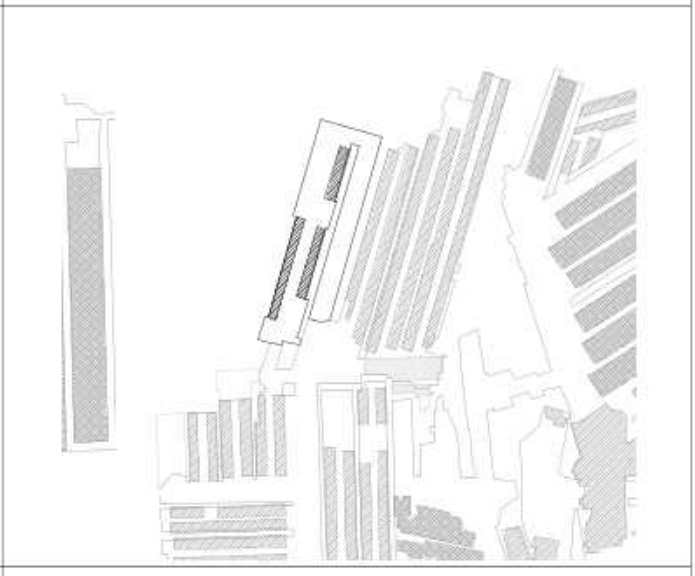
10th Percentile - 150 Simulations



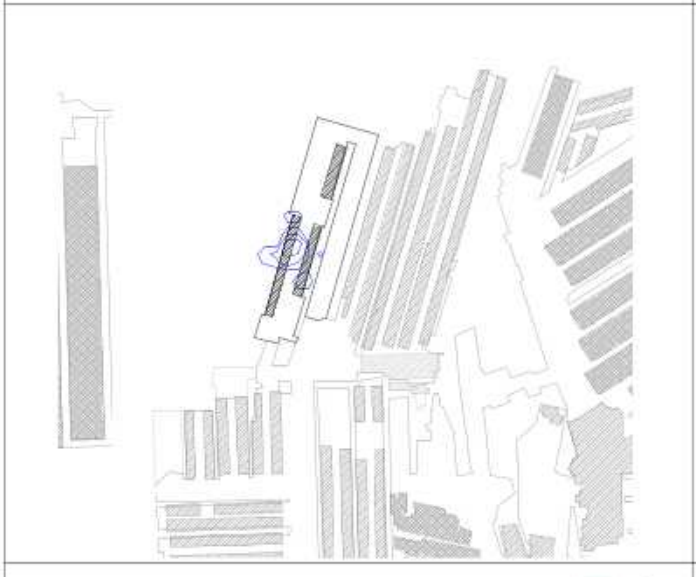
90th Percentile - 150 Simulations



10th Percentile - 210 Simulations

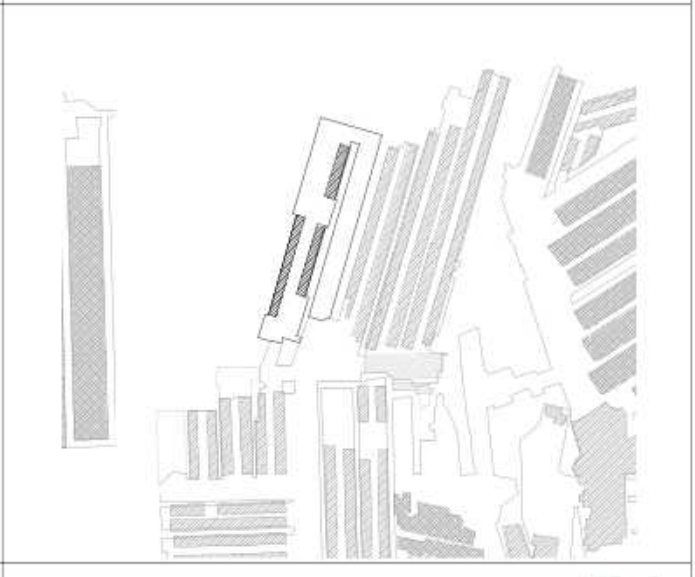


90th Percentile - 210 Simulations



10th Percentile - 286 Simulations

Scale 1:58,080 @A4: 0 250 500m



90th Percentile - 286 Simulations

Scale 1:58,080 @A4: 0 250 500m

Legend

Mining Methods:
- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Intervals: -0.5m, -1m, -2m, -5m, -10m, -20m, -50m, -100m (as relevant)

Model Cell Type:
- Pinched-Out Cells

Model Boundary Conditions:
- Drain (DRN) Cells

Model Results:
- Modelled Change in Groundwater Elevation (m)

Job No.: 68229

Client: Clarence Colliery Pty Ltd

Version: R01RevA | Date: 07/11/2025

Drawn By: DAW | Checked By: JRWB

Uncertainty Analysis Convergence Change in Groundwater Elevation (m) - December 2049 (SP241)

Highest Active Node
(150, 210, 286 Simulations)

Figure I-01b

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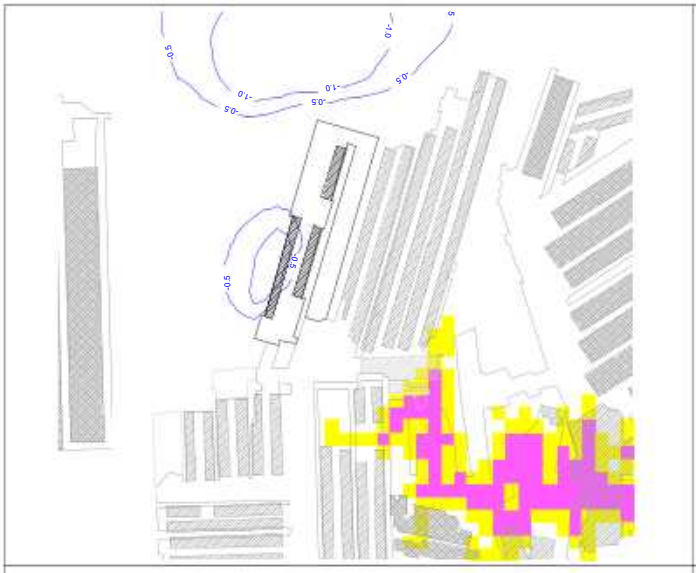
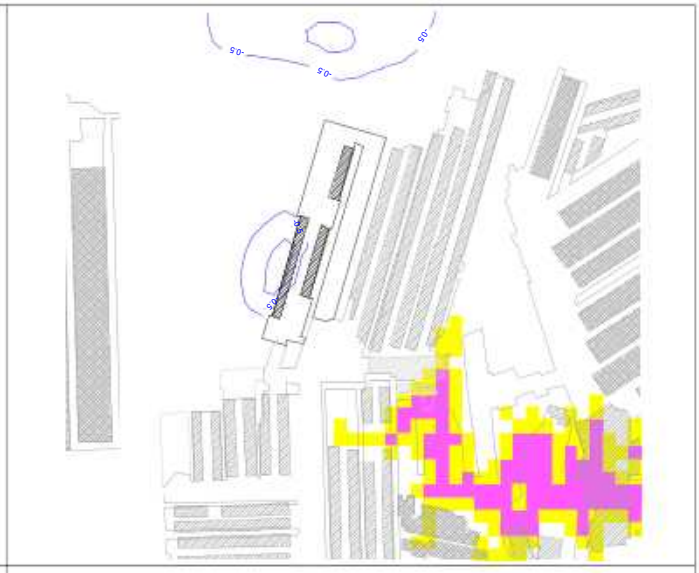
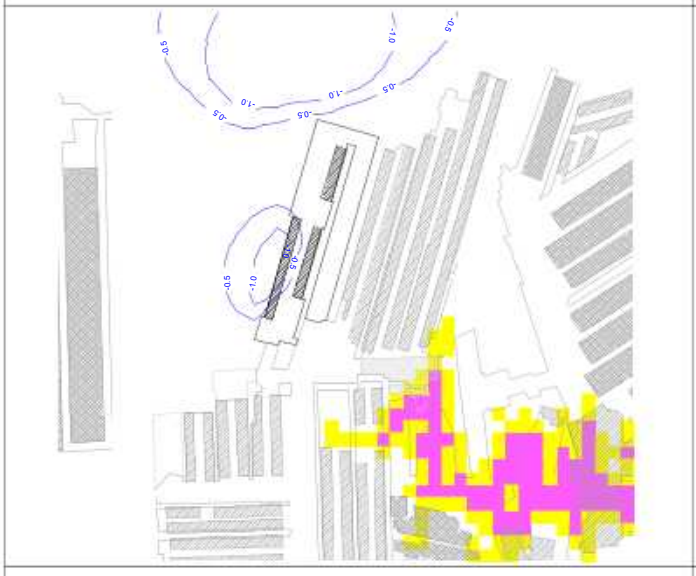


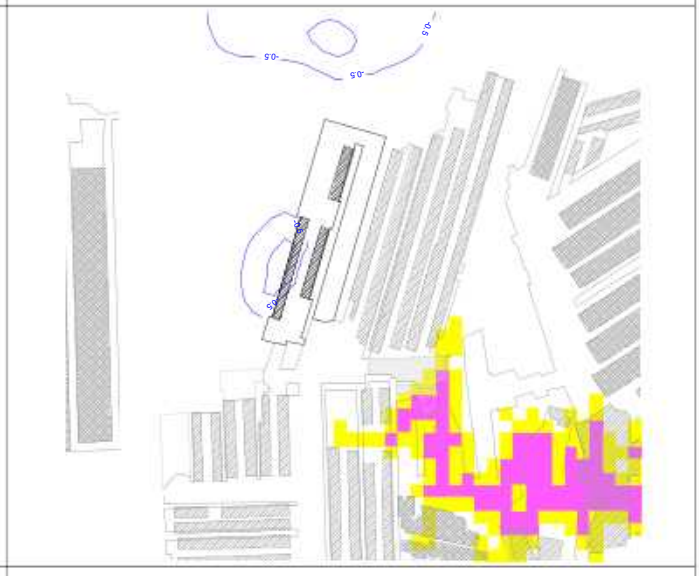
10th Percentile - 30 Simulations



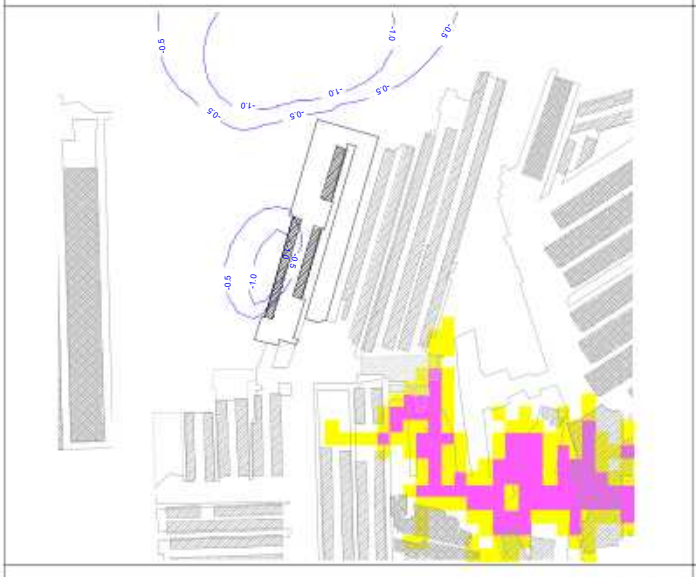
90th Percentile - 30 Simulations



10th Percentile - 60 Simulations

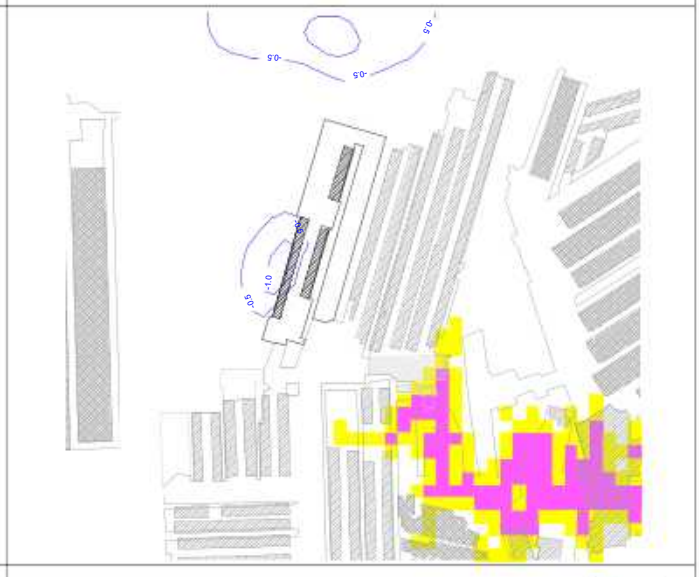


90th Percentile - 60 Simulations



10th Percentile - 90 Simulations

Scale 1:58,080 @A4: 0 250 500m



90th Percentile - 90 Simulations

Scale 1:58,080 @A4: 0 250 500m

Legend

Mining Methods:
- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Intervals: -0.5m, -1m, -2m, -5m, -10m, -20m, -50m, -100m (as relevant)

Model Cell Type:
- Pinched-Out Cells

Model Boundary Conditions:
- Drain (DRN) Cells

Model Results:
- Modelled Change in Groundwater Elevation (m)

Job No.: 68229

Client: Clarence Colliery Pty Ltd

Version: R01RevA | Date: 07/11/2025

Drawn By: DAW | Checked By: JRWB

Uncertainty Analysis Convergence Change in Groundwater Elevation (m) - December 2049 (SP241)

Mount York Claystone (Layer 15)
(30, 60, 90 Simulations)

Figure I-01c

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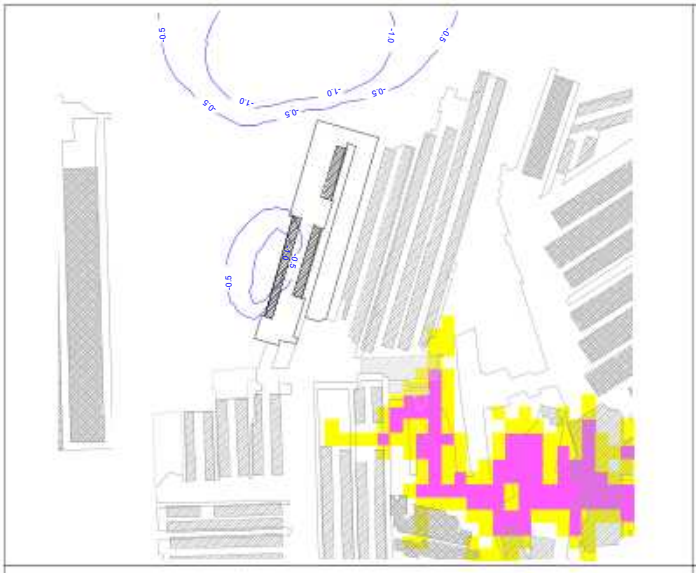
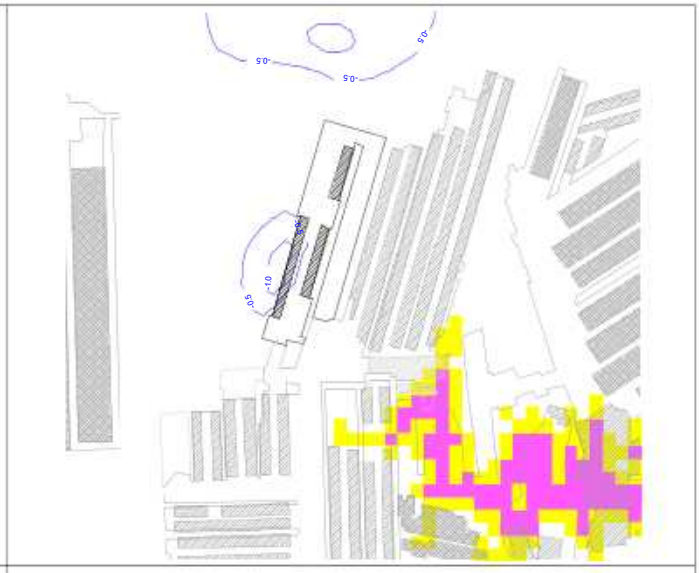
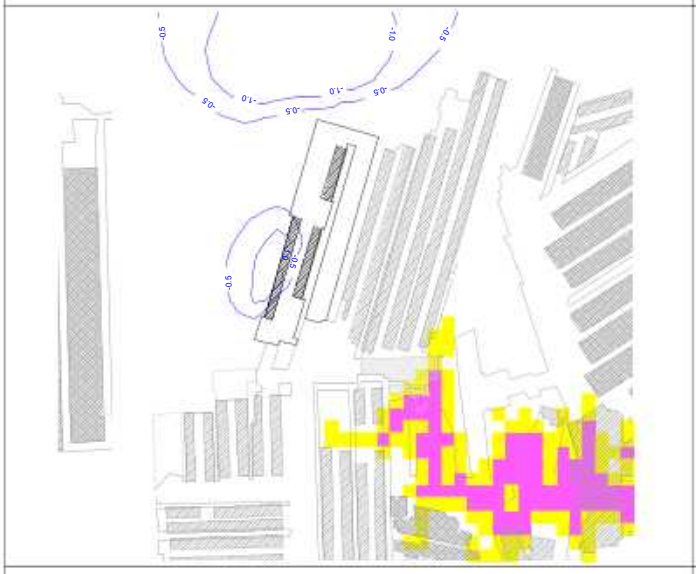


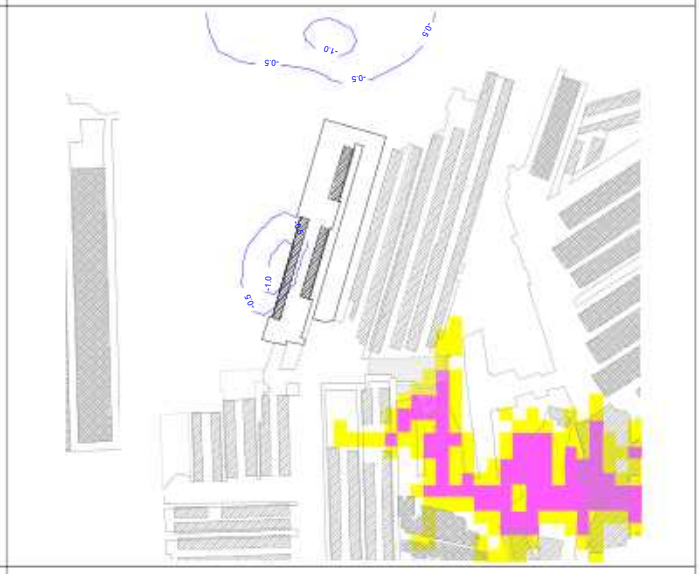
10th Percentile - 150 Simulations



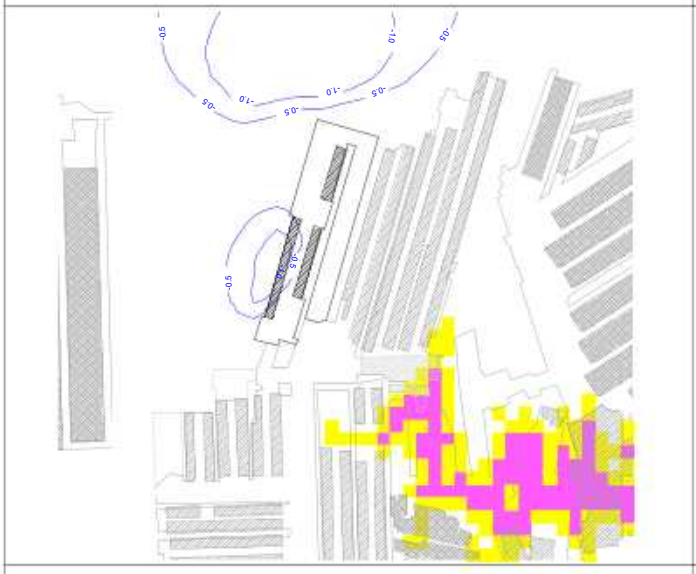
90th Percentile - 150 Simulations



10th Percentile - 210 Simulations

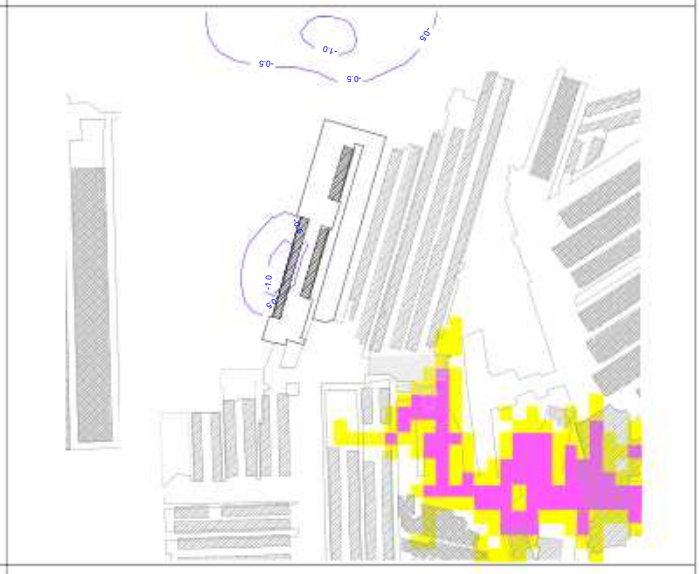


90th Percentile - 210 Simulations



10th Percentile - 286 Simulations

Scale 1:58,080 @A4: 0 250 500m



90th Percentile - 286 Simulations

Scale 1:58,080 @A4: 0 250 500m

Legend

Mining Methods:
- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Intervals: -0.5m, -1m, -2m, -5m, -10m, -20m, -50m, -100m (as relevant)

Model Cell Type:
- Pinched-Out Cells

Model Boundary Conditions:
- Drain (DRN) Cells

Model Results:
- Modelled Change in Groundwater Elevation (m)

Job No.: 68229

Client: Clarence Colliery Pty Ltd

Version: R01RevA | Date: 07/11/2025

Drawn By: DAW | Checked By: JRWB

Uncertainty Analysis Convergence Change in Groundwater Elevation (m) - December 2049 (SP241)

Mount York Claystone (Layer 15)
(150, 210, 286 Simulations)

Figure I-01d

JBS&G

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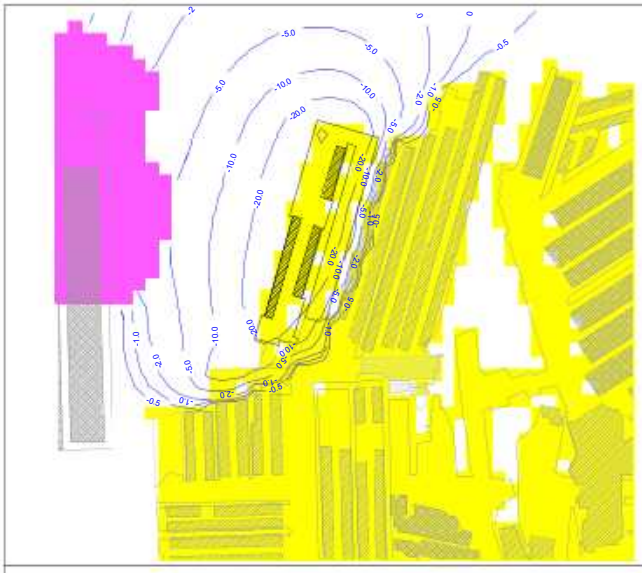
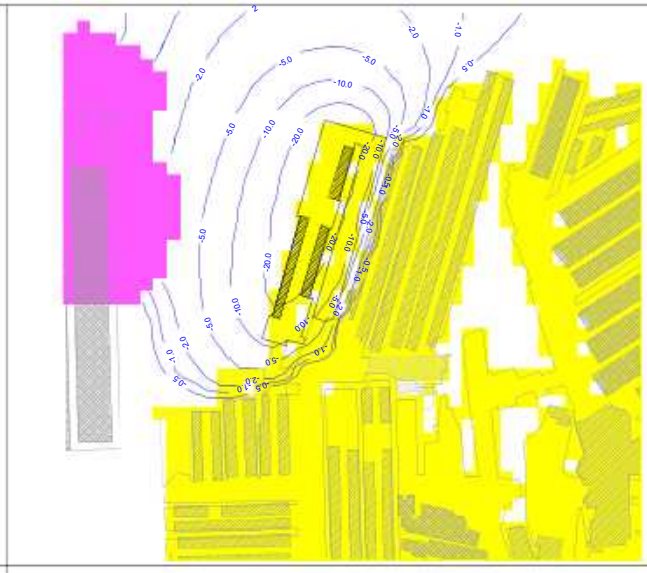
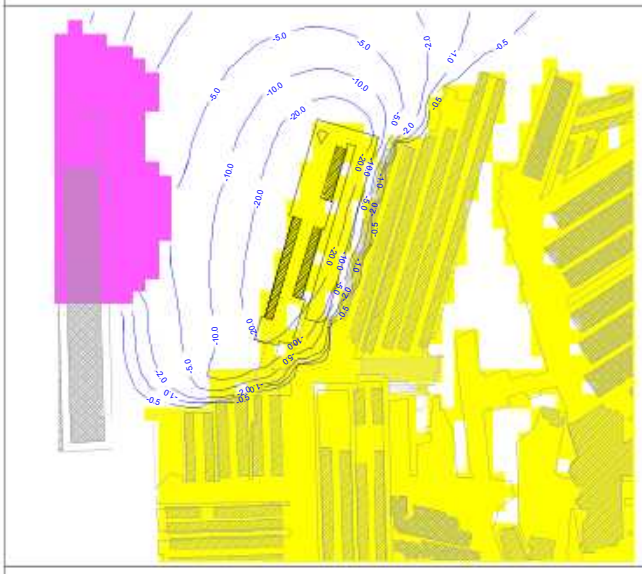
Reference: 68229_R01RevA_APR_03c_23UnReCalNSMC, 68229_R01RevA_PRO_02a_23UnReCalNSMC.



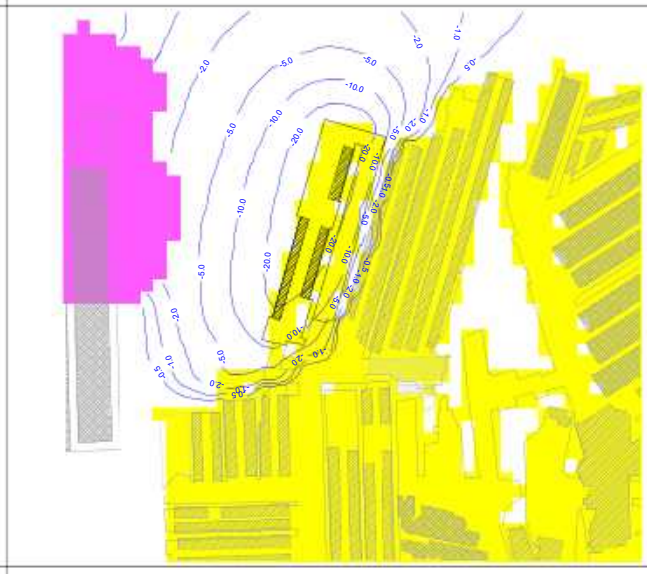
10th Percentile - 30 Simulations



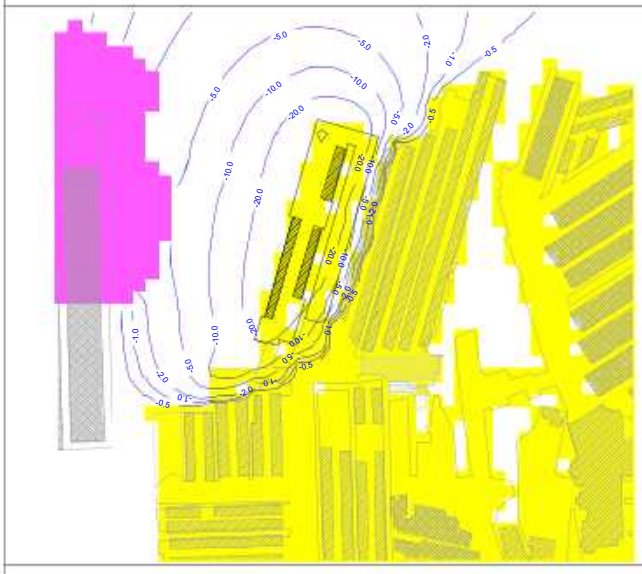
90th Percentile - 30 Simulations



10th Percentile - 60 Simulations

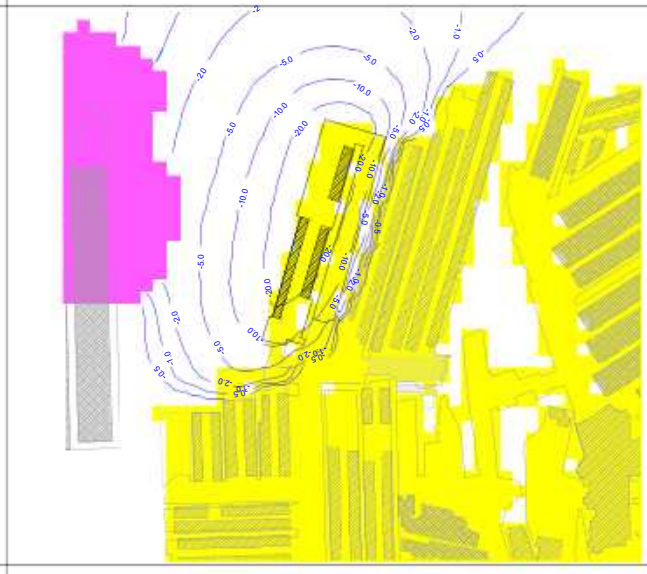


90th Percentile - 60 Simulations



10th Percentile - 90 Simulations

Scale 1:58,080 @A4: 0 250 500m



90th Percentile - 90 Simulations

Scale 1:58,080 @A4: 0 250 500m

Legend

Mining Methods:
- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Contour Intervals: -0.5m, -1m, -2m, -5m, -10m, -20m, -50m, -100m (as relevant)

Model Cell Type:
- Pinched-Out Cells

Model Boundary Conditions:
- Drain (DRN) Cells

Model Results:
- Modelled Change in Groundwater Elevation (m)

Job No.: 68229

Client: Clarence Colliery Pty Ltd

Version: R01RevA | Date: 07/11/2025

Drawn By: DAW | Checked By: JRWB

Uncertainty Analysis Convergence Change in Groundwater Elevation (m) - December 2049 (SP241)

Katoomba Seam (Layer 24)
(30, 60, 90 Simulations)

Figure I-01e

JBS&G

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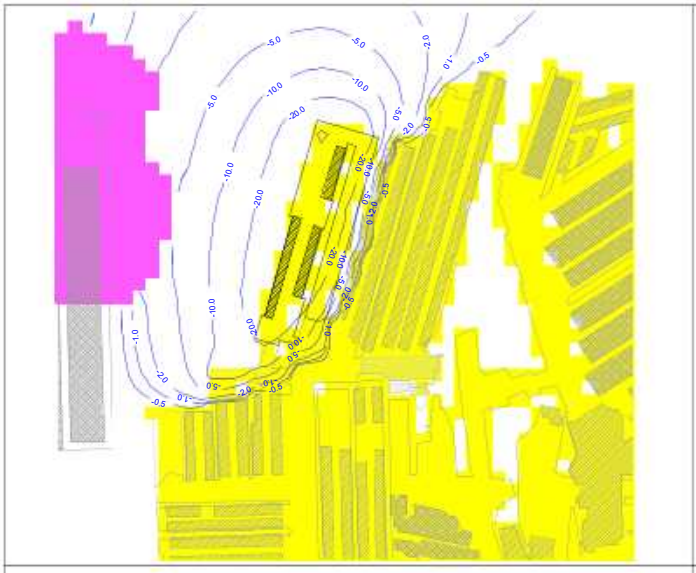
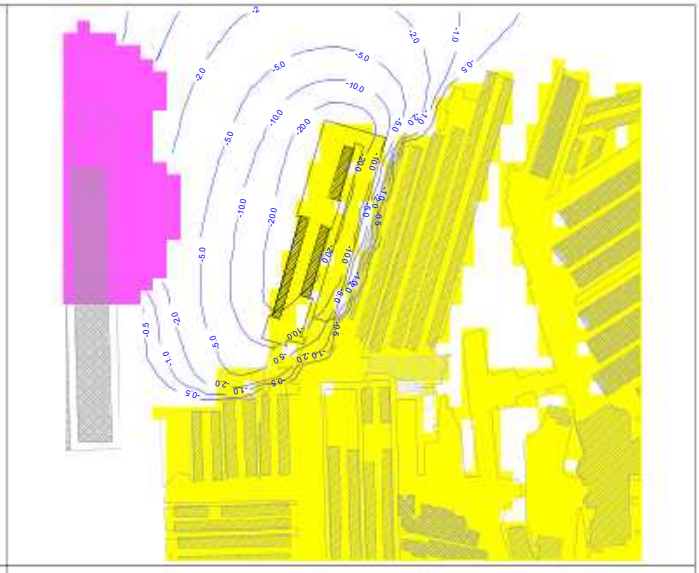
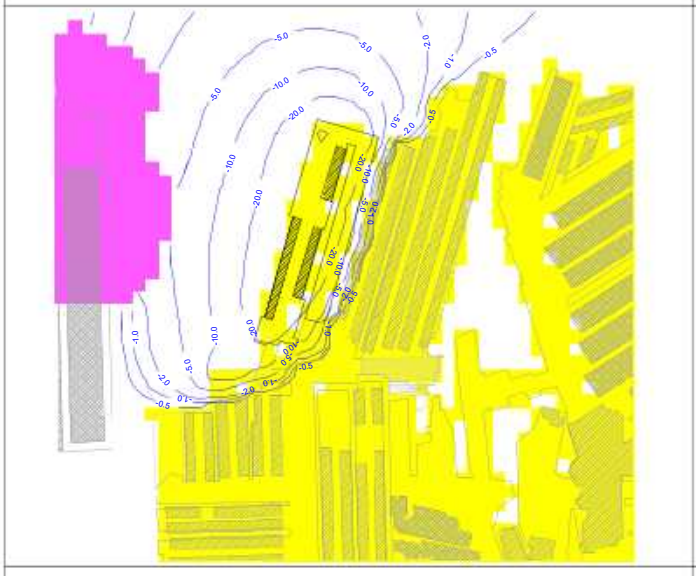


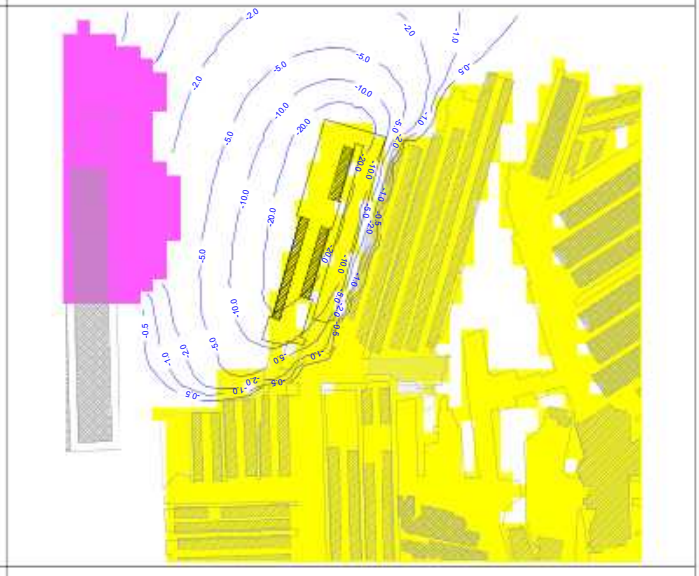
10th Percentile - 150 Simulations



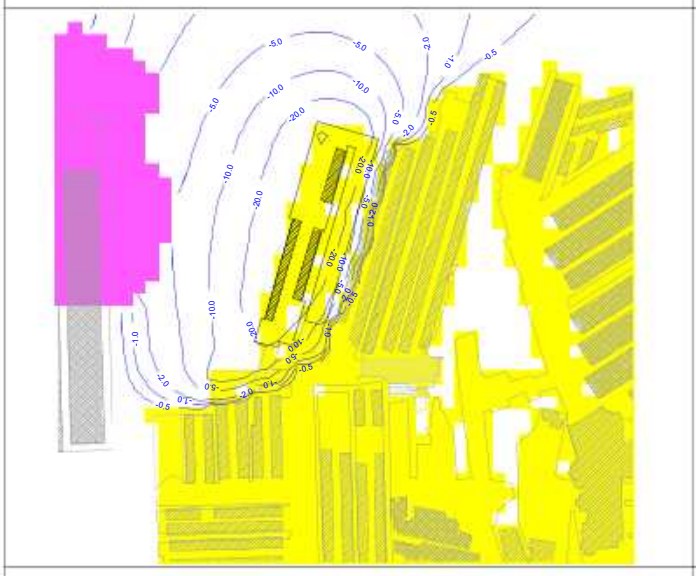
90th Percentile - 150 Simulations



10th Percentile - 210 Simulations

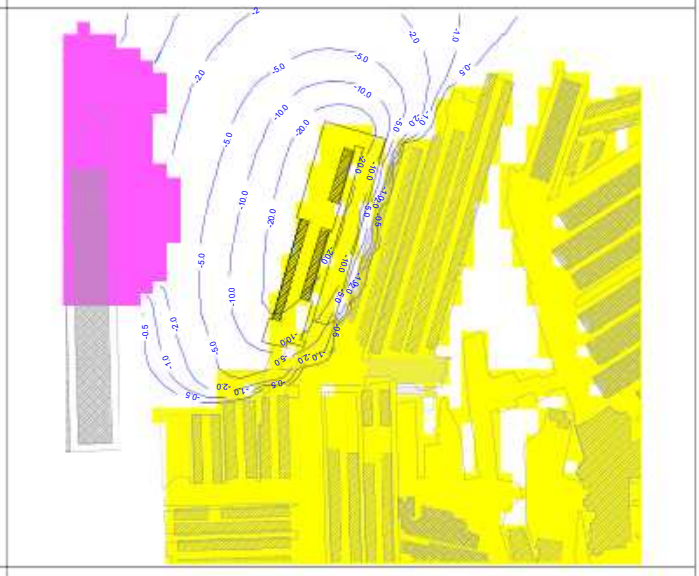


90th Percentile - 210 Simulations



10th Percentile - 286 Simulations

Scale 1:58,080 @A4: 0 250 500m



90th Percentile - 286 Simulations

Scale 1:58,080 @A4: 0 250 500m

Legend

Mining Methods:
- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:
- Approved
- Existing
- Proposed
- Other Proposed

Model Cell Type:
- Pinched-Out Cells

Model Boundary Conditions:
- Drain (DRN) Cells

Model Results:
- Modelled Change in Groundwater Elevation (m)

Contour Intervals: -0.5m, -1m, -2m, -5m, -10m, -20m, -50m, -100m (as relevant)

Job No.: 68229

Client: Clarence Colliery Pty Ltd

Version: R01RevA | Date: 07/11/2025

Drawn By: DAW | Checked By: JRWB

Uncertainty Analysis Convergence Change in Groundwater Elevation (m) - December 2049 (SP241)

Katoomba Seam (Layer 24)
(150, 210, 286 Simulations)

Figure I-01f

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Reference: 68229_R01RevA_APR_03c_23UnReCalNSMC, 68229_R01RevA_PRO_02a_23UnReCalNSMC.

Appendix J Groundwater Hydrographs – Deterministic

Appendix J

J1. Groundwater Hydrographs – Deterministic

Modelled and observed groundwater elevation (interpolated and multilevel) hydrographs were extracted in the vicinity of 918 Panel.

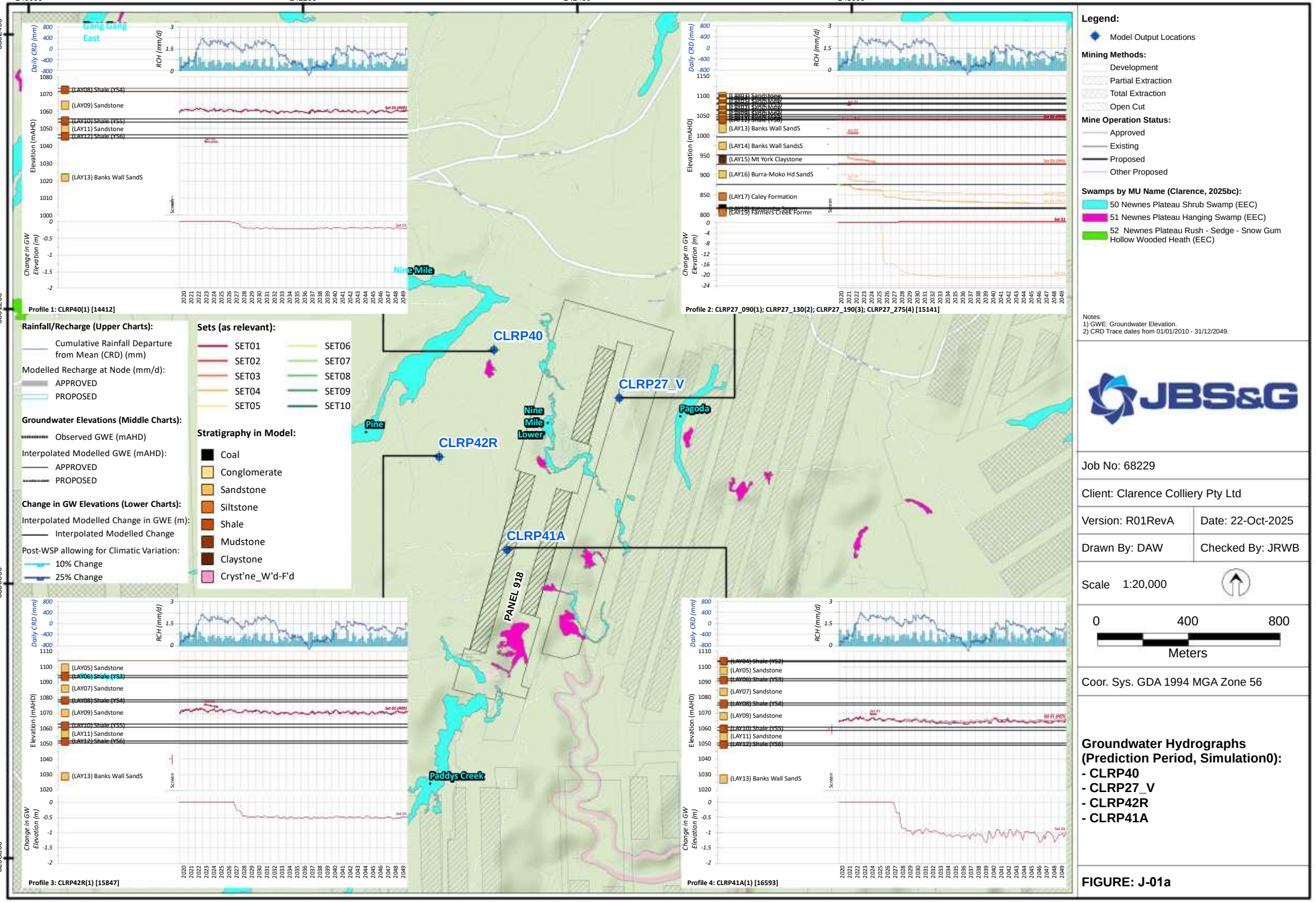
Output is presented at the following locations:

- CLRP40, CLRP27_V, CLRP42R and CLRP41A
- CLRP29_V, CLRP28, CLRP18_V and CLRP22_V
- GW099052, GW09905, GW099054, CSP9, CLRP31 and CSP8
- CSP1, PG1, CSP2 and PG2
- CSP6, CSP34, PSE1 and PSE2
- CSP36, L01Node 16613, CSP4 and CSP35.

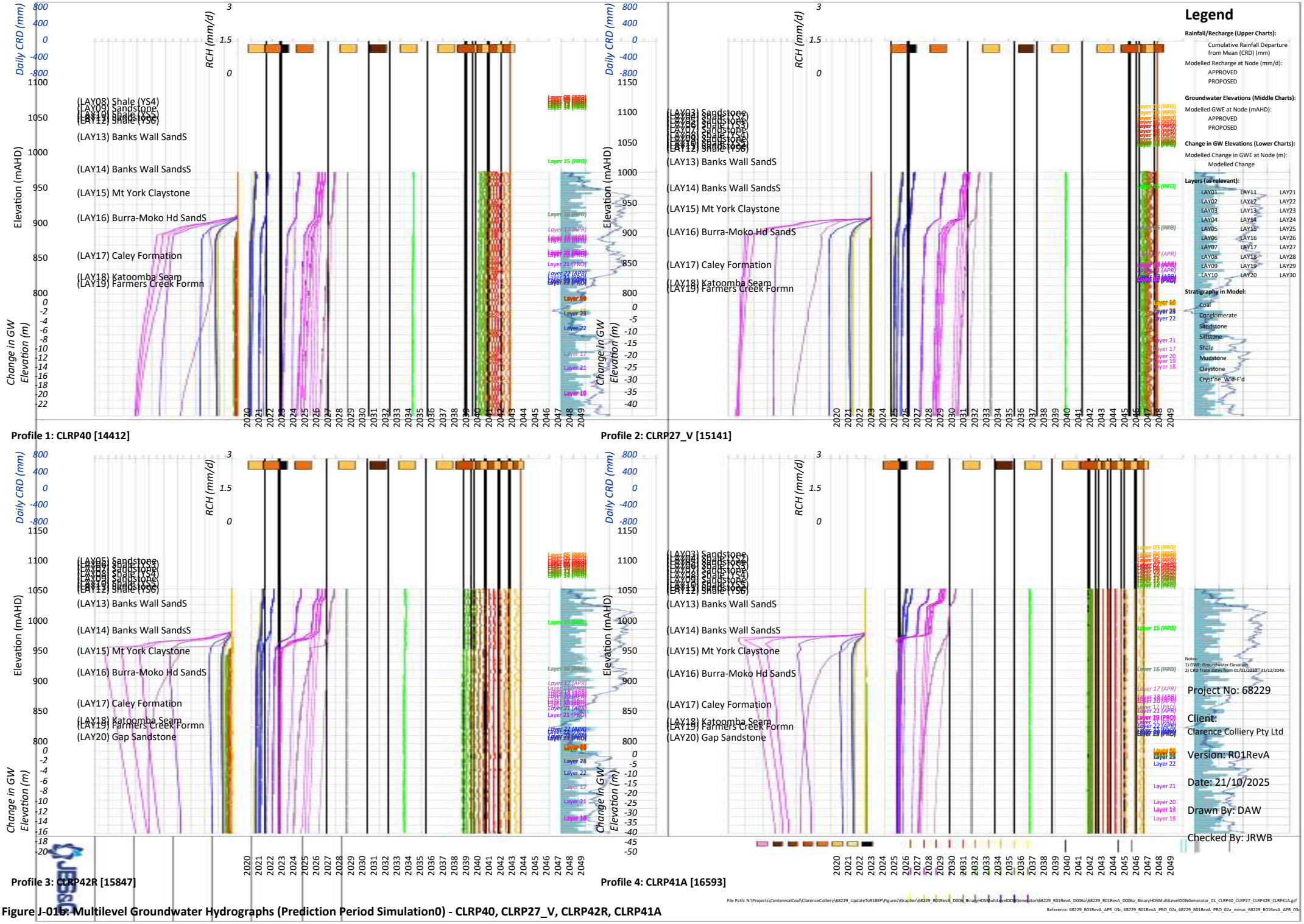
For groundwater hydrographs, a three-dimensional interpolation of model output was used, as detailed in **Section 4.12.4.4**.

Multilevel groundwater hydrographs were also extracted from the Proposed Case and Approved Case simulations for each of the locations, whereby model output is presented in multiple aquifers/aquitards, as times-series, on a vertical elevation scale, thereby demonstrating vertical gradient, as available. Multilevel groundwater hydrographs also feature the change in groundwater elevation between the Proposed Case and Approved Case.

As detailed in **Section 4.12.4.4**, displayed above the groundwater elevation (interpolated and multilevel) hydrographs is the cumulative rainfall departure from mean (CRD), in millimetres (mm), for each model output location. The modelled recharge, in millimetres per day (mm/day) for each stress period, is also presented for each model output location for both the Approved Case and the Proposed Case



File Name: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\GIS\Maps\68229_R01RevA_D005a_SIM0_Hydrographs_CLRP40_CLRP27_CLRP42R_CLRP41A.mxd



Profile 1: CLRP40 [14412]

Profile 2: CLRP27_V [15141]

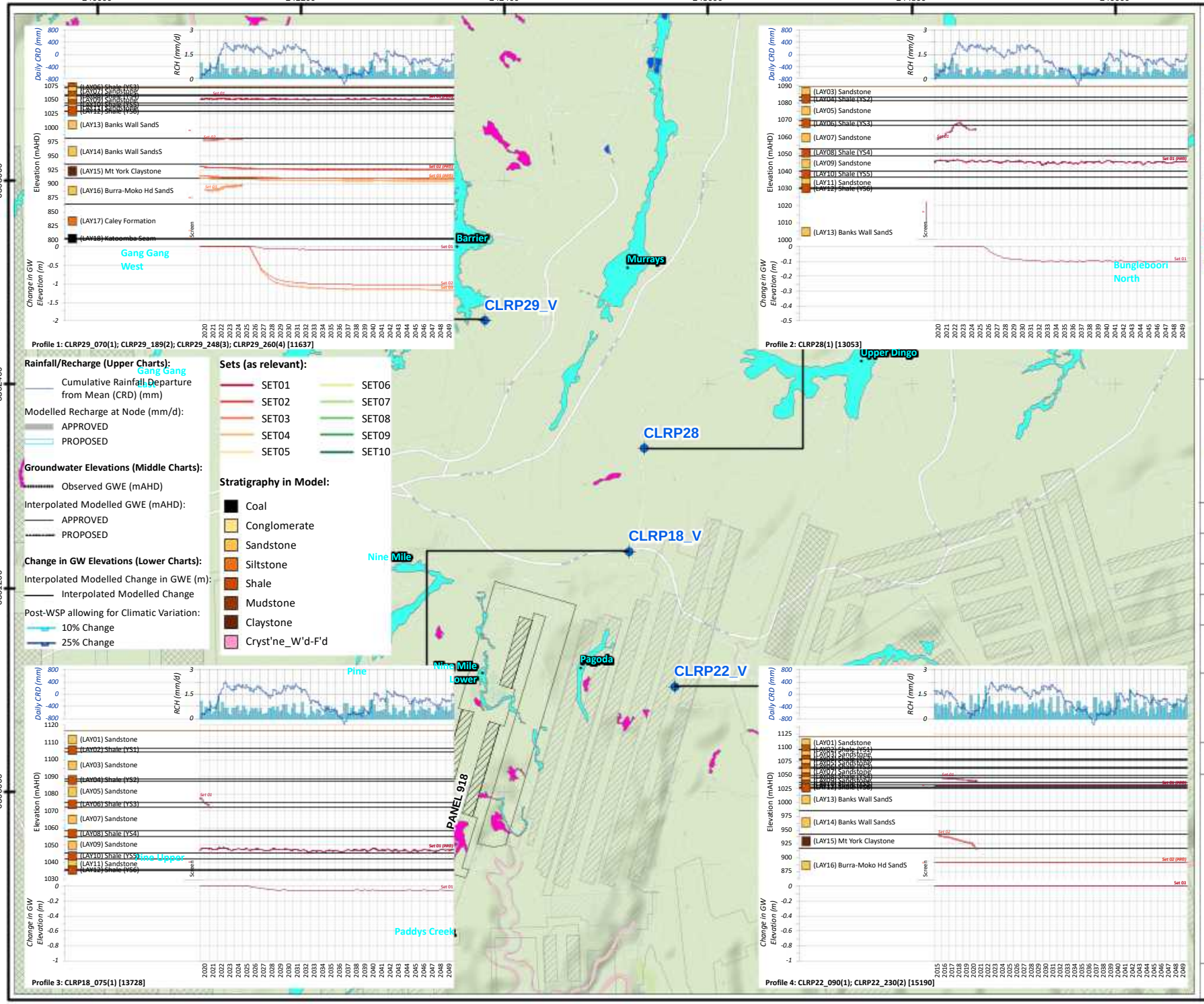
Profile 3: CLRP42R [15847]

Profile 4: CLRP41A [16593]

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D006_BinaryHDSMultiLevelDDNGenerator\68229_R01RevA_D006a\68229_R01RevA_D006a_BinaryHDSMultiLevelDDNGenerator_01_CLRP40_CLRP27_CLRP42R_CLRP41A.grf

Reference: 68229_R01RevA_APR_03c, 68229_R01RevA_PRO_02a, 68229_R01RevA_PRO_02a_minus_68229_R01RevA_APR_03c

Figure J-01b: Multilevel Groundwater Hydrographs (Prediction Period Simulation0) - CLRP40, CLRP27_V, CLRP42R, CLRP41A



JBS&G

Job No: 68229

Client: Clarence Colliery Pty Ltd

Version: R01RevA | Date: 24-Oct-2025

Drawn By: DAW | Checked By: JRWB

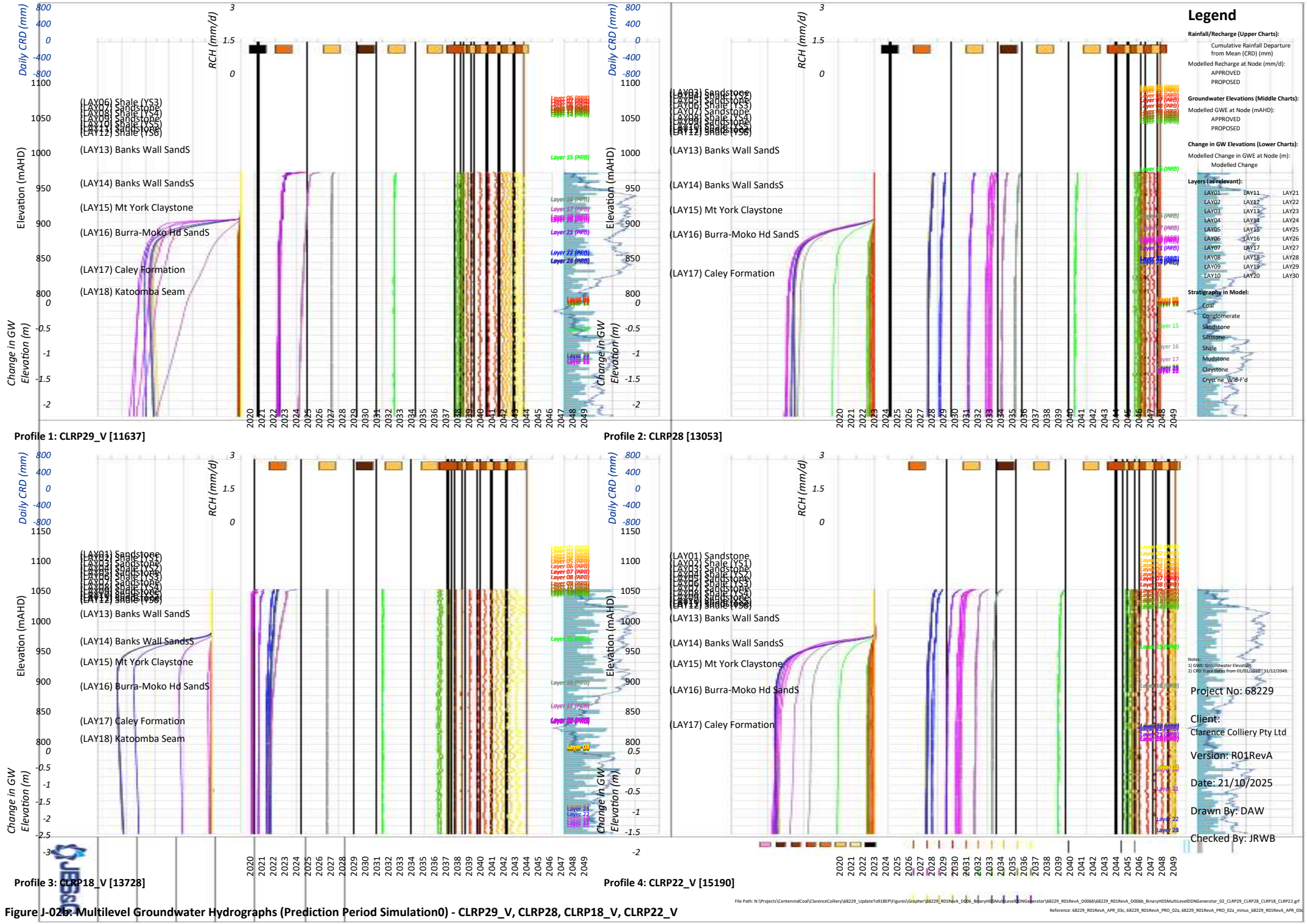
Scale 1:30,000

Coor. Sys. GDA 1994 MGA Zone 56

Groundwater Hydrographs (Prediction Period, Simulation0):
- CLRP29_V
- CLRP28
- CLRP18_V
- CLRP22_V

FIGURE: J-02a

File Name: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\GIS\Maps\68229_R01RevA_D005b_SIM0_Hydrographs_CLRP29_CLRP28_CLRP18_CLRP22.mxd
Reference: © Department of Customer Service 2020; Model Reference: 68229_R01RevA_APR_03c, 68229_R01RevA_PRO_02a, 68229_R01RevA_PRO_02a_minus_68229_R01RevA_APR_03c.



Profile 1: CLRP29_V [11637]

Profile 2: CLRP28 [13053]

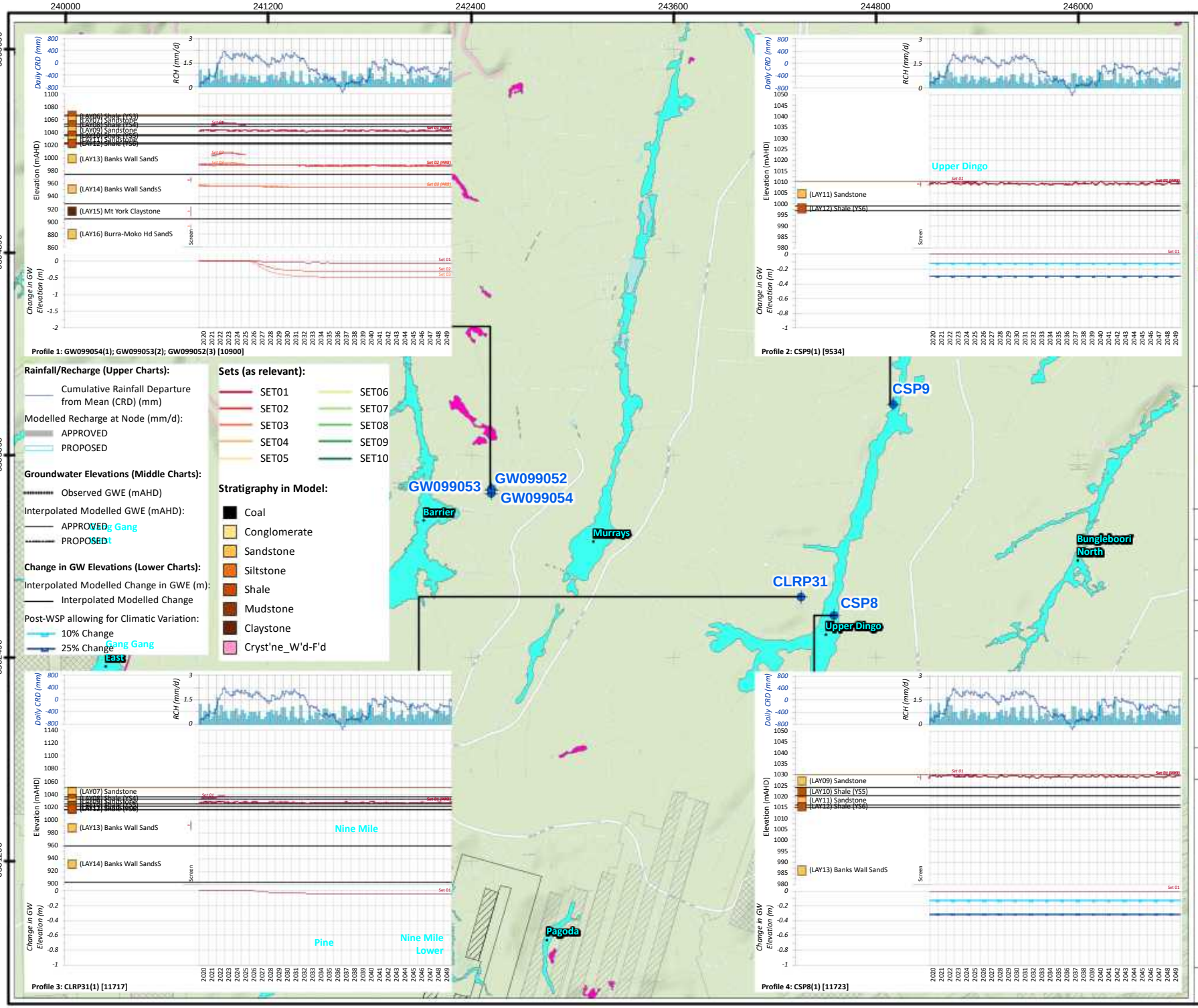
Profile 3: CLRP18_V [13728]

Profile 4: CLRP22_V [15190]

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EPI\Figures\Grapher\68229_R01RevA_D006_BinaryHDSMultiLevelDNGenerator\68229_R01RevA_D006b\68229_R01RevA_D006b_BinaryHDSMultiLevelDNGenerator_02_CLRP29_CLRP28_CLRP18_CLRP22.grf

Reference: 68229_R01RevA_APR_03c, 68229_R01RevA_PRO_02a, 68229_R01RevA_PRO_02a_minus_68229_R01RevA_APR_03c

Figure J-02b: Multilevel Groundwater Hydrographs (Prediction Period Simulation0) - CLRP29_V, CLRP28, CLRP18_V, CLRP22_V



Legend:

- Model Output Locations

Mining Methods:

- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:

- Approved
- Existing
- Proposed
- Other Proposed

Swamps by MU Name (Clarence, 2025bc):

- 50 Newnes Plateau Shrub Swamp (EEC)
- 51 Newnes Plateau Hanging Swamp (EEC)
- 52 Newnes Plateau Rush - Sedge - Snow Gum Hollow Wooded Heath (EEC)

Notes:
1) GWE: Groundwater Elevation.
2) 10% and 25% threshold calculated based on model output between 01/01/2011 and 31/12/2021.
3) CRD Trace dates from 01/01/2010 - 31/12/2049.

JBS&G

Job No: 68229

Client: Clarence Colliery Pty Ltd

Version: R01RevA	Date: 24-Oct-2025
Drawn By: DAW	Checked By: JRWB

Scale 1:30,000

0 500 1,000
Meters

Coor. Sys. GDA 1994 MGA Zone 56

Groundwater Hydrographs (Prediction Period, Simulation0):
- GW09905X
- CSP9
- CLRP31
- CSP8

FIGURE: J-03a

File Name: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\GIS\Maps\68229_R01RevA_D005c_SIM0_Hydrographs_GW_CSP9_CLRP31_CSP8.mxd
Reference: © Department of Customer Service 2020; Model Reference: 68229_R01RevA_APR_03c, 68229_R01RevA_PRO_02a, 68229_R01RevA_PRO_02a_minus_68229_R01RevA_APR_03c.

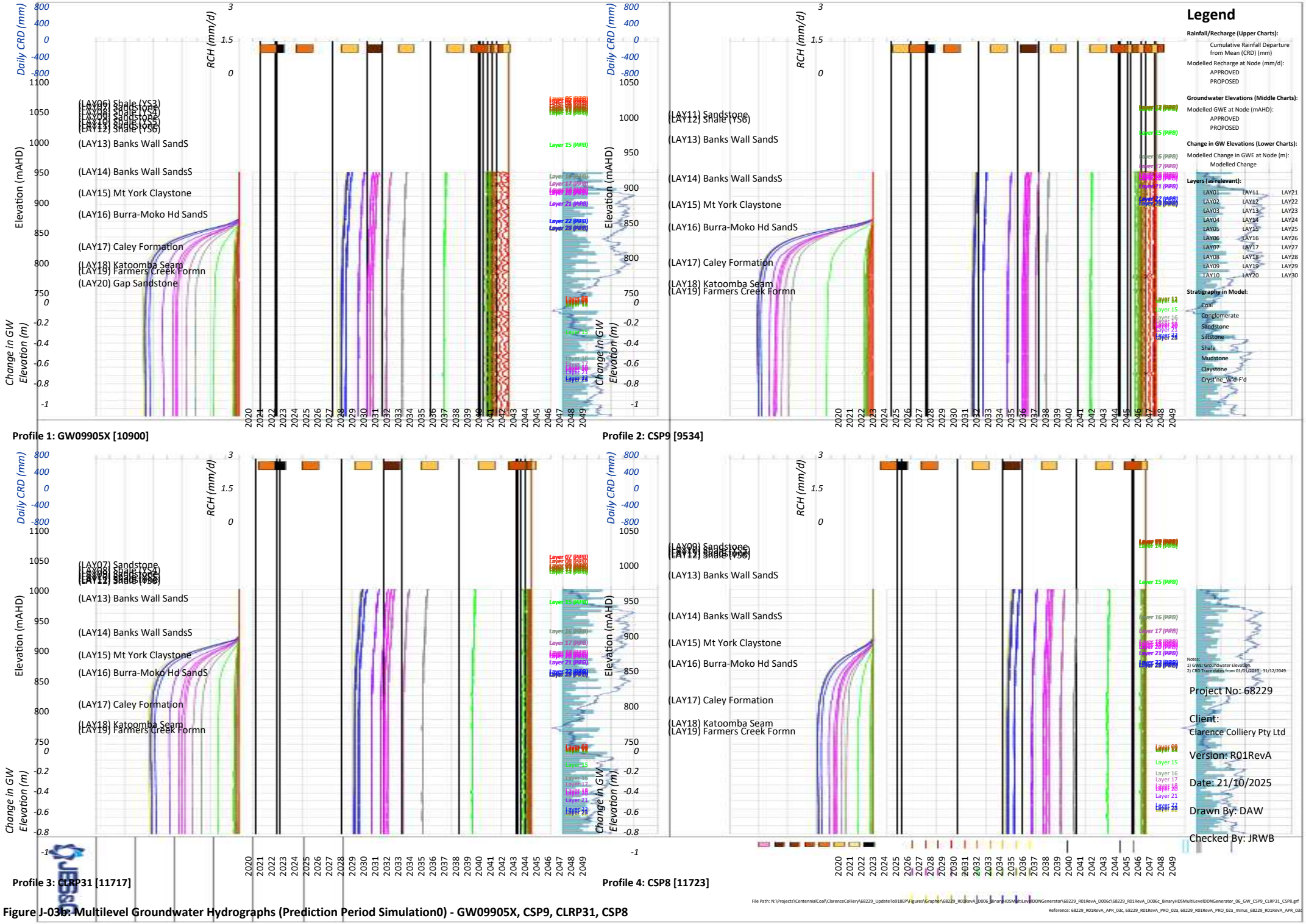
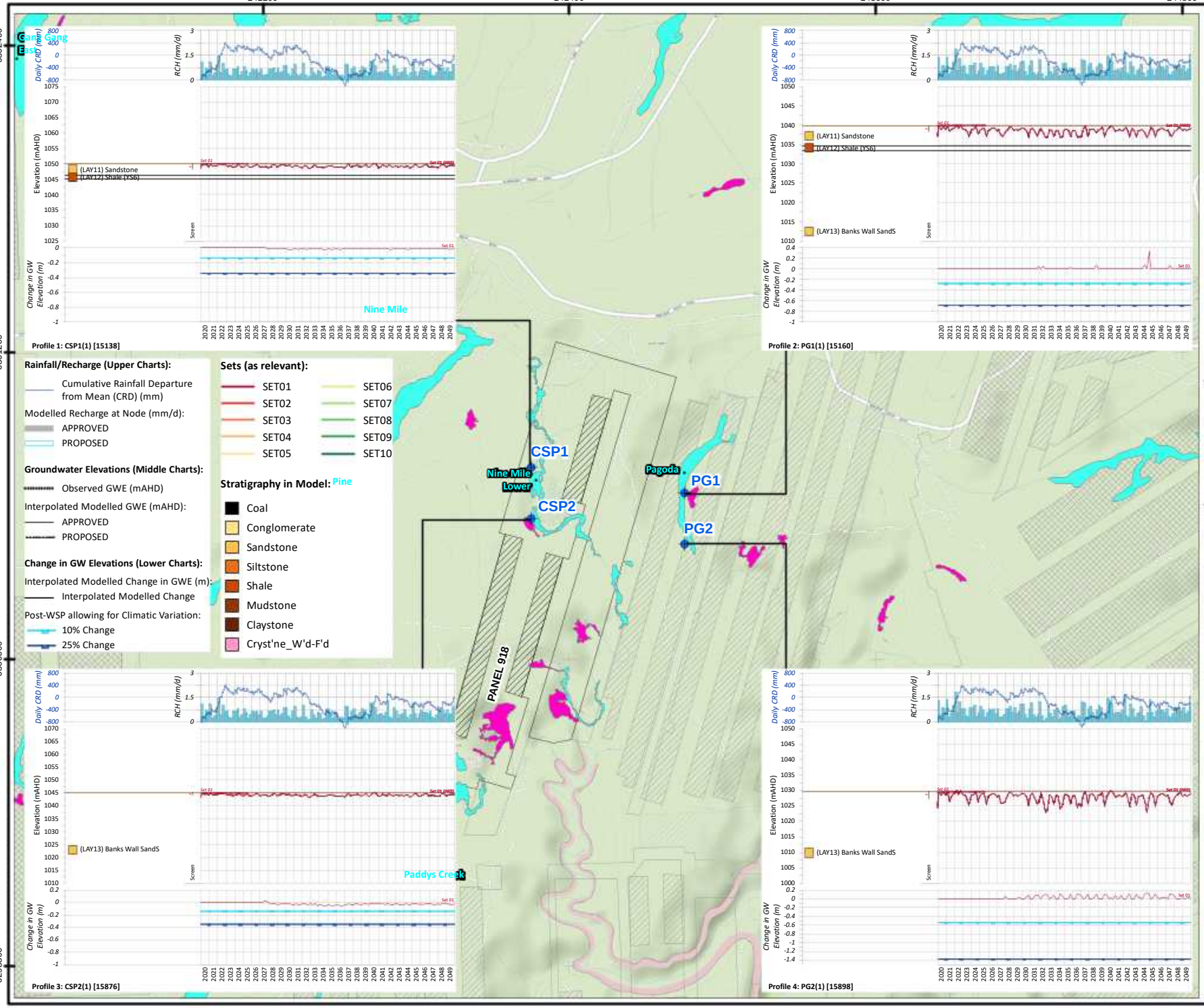


Figure J-03b: Multilevel Groundwater Hydrographs (Prediction Period Simulation0) - GW09905X, CSP9, CLRP31, CSP8

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D006_BinaryHDSMultiLevelDDNGenerator\68229_R01RevA_D006c\68229_R01RevA_D006c_BinaryHDSMultiLevelDDNGenerator_06_GW_CSP9_CLRP31_CSP8.grf

Reference: 68229_R01RevA_APR_03c, 68229_R01RevA_PRO_02a, 68229_R01RevA_PRO_02a_minus_68229_R01RevA_APR_03c



Legend:

- Model Output Locations

Mining Methods:

- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:

- Approved
- Existing
- Proposed
- Other Proposed

Swamps by MU Name (Clarence, 2025bc):

- 50 Newnes Plateau Shrub Swamp (EEC)
- 51 Newnes Plateau Hanging Swamp (EEC)
- 52 Newnes Plateau Rush - Sedge - Snow Gum Hollow Wooded Heath (EEC)

Notes:
1) GWE: Groundwater Elevation.
2) 10% and 25% threshold calculated based on model output between 01/01/2011 and 31/12/2021.
3) CRD Trace dates from 01/01/2010 - 31/12/2049.

JBS&G

Job No: 68229

Client: Clarence Colliery Pty Ltd

Version: R01RevA	Date: 22-Oct-2025
Drawn By: DAW	Checked By: JRWB

Scale 1:20,000

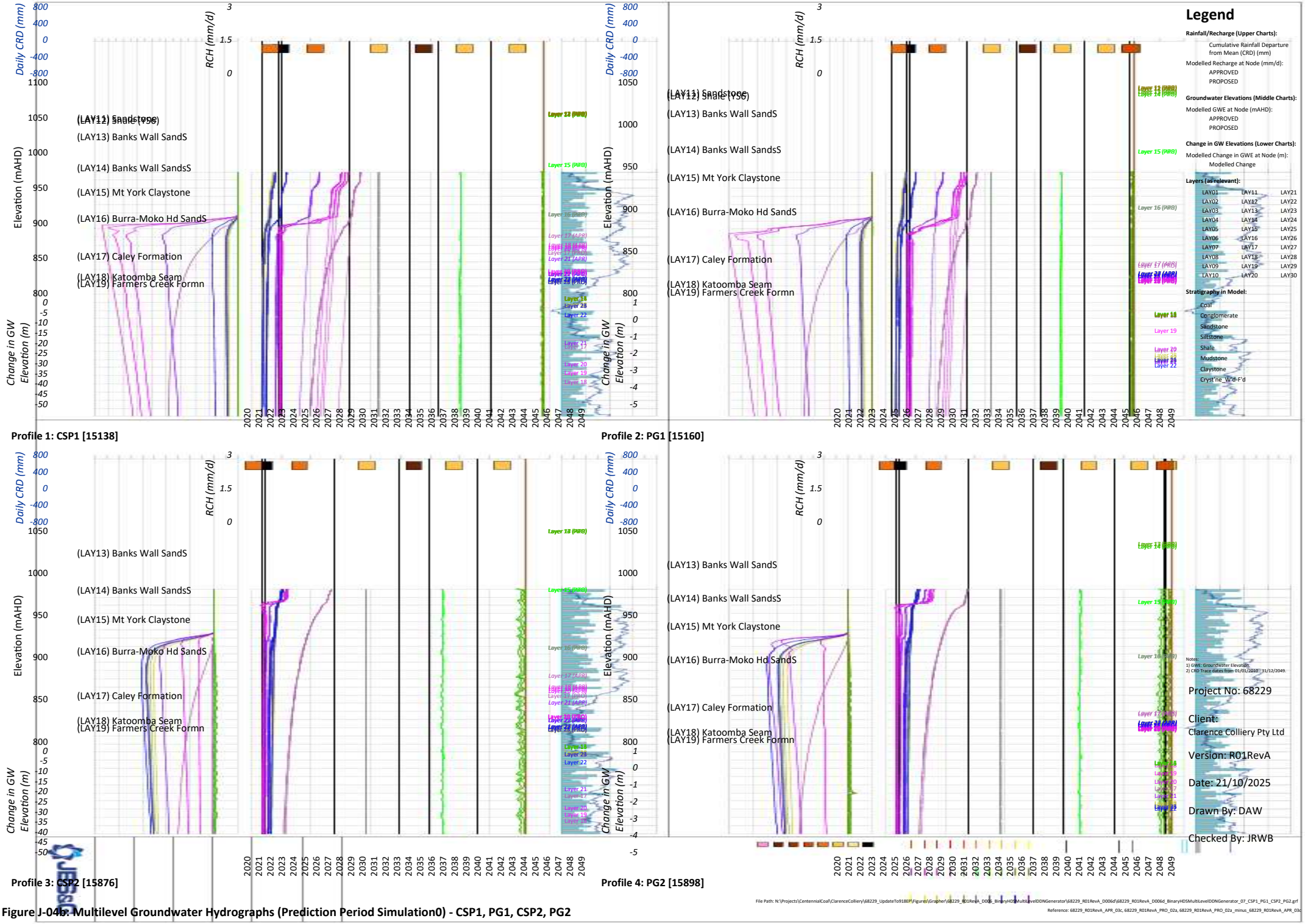
0 250 500
Meters

Coor. Sys. GDA 1994 MGA Zone 56

Groundwater Hydrographs (Prediction Period, Simulation0):
- CSP1
- PG1
- CSP2
- PG2

FIGURE: J-04a

File Name: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\GIS\Maps\68229_R01RevA_D005d_SIM0_Hydrographs_CSP1_PG1_CSP2_PG2.mxd



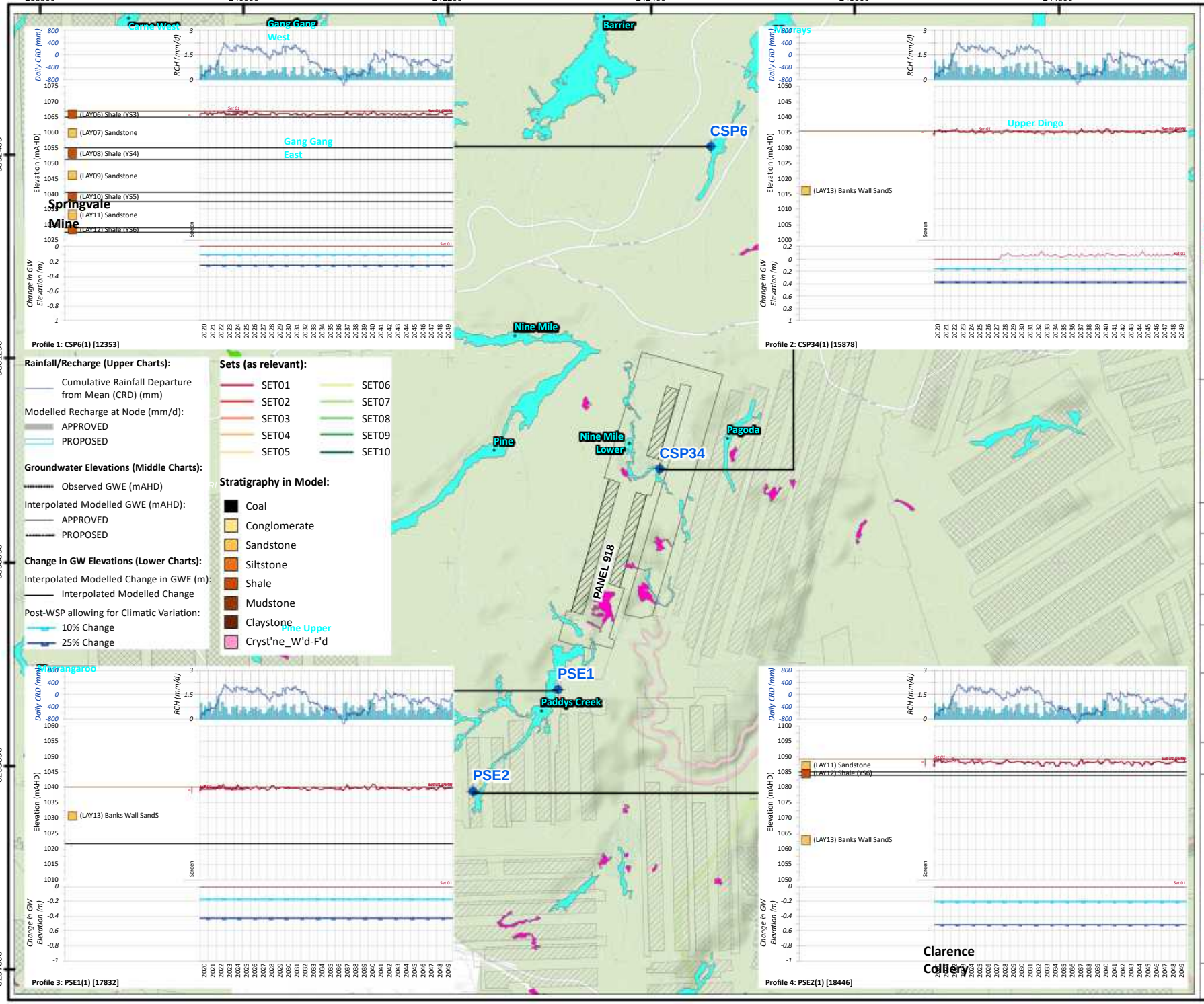
Profile 1: CSP1 [15138]

Profile 2: PG1 [15160]

Profile 3: CSP2 [15876]

Profile 4: PG2 [15898]

Figure J-04b: Multilevel Groundwater Hydrographs (Prediction Period Simulation0) - CSP1, PG1, CSP2, PG2



Legend:

- Model Output Locations

Mining Methods:

- Development
- Partial Extraction
- Total Extraction
- Open Cut

Mine Operation Status:

- Approved
- Existing
- Proposed
- Other Proposed

Swamps by MU Name (Clarence, 2025bc):

- 50 Newnes Plateau Shrub Swamp (EEC)
- 51 Newnes Plateau Hanging Swamp (EEC)
- 52 Newnes Plateau Rush - Sedge - Snow Gum Hollow Wooded Heath (EEC)

Notes:
1) GWE: Groundwater Elevation.
2) 10% and 25% threshold calculated based on model output between 01/01/2011 and 31/12/2021.
3) CRD Trace dates from 01/01/2010 - 31/12/2049.

JBS&G

Job No: 68229

Client: Clarence Colliery Pty Ltd

Version: R01RevA	Date: 24-Oct-2025
Drawn By: DAW	Checked By: JRWB

Scale 1:30,000

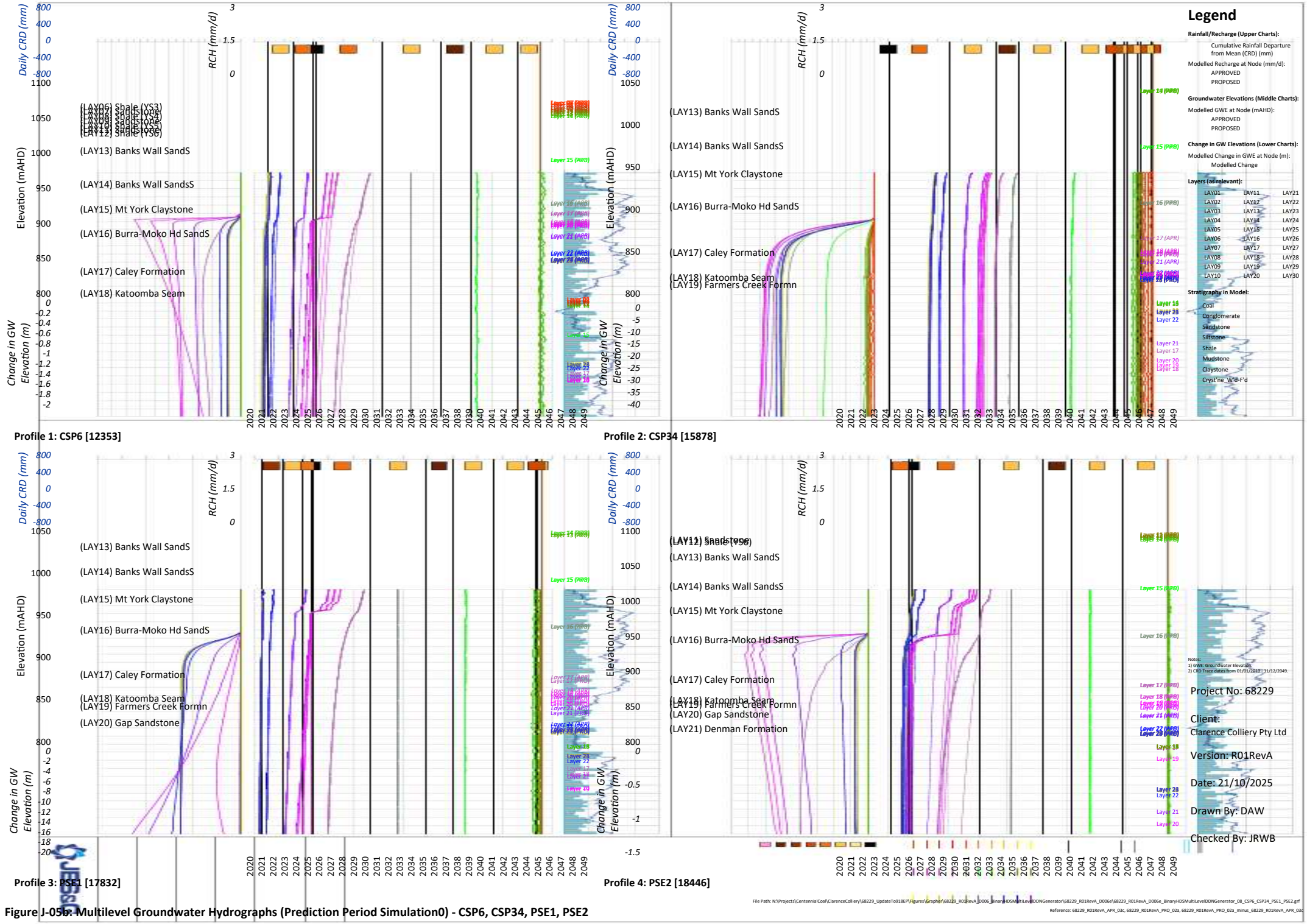
0 500 1,000
Meters

Coor. Sys. GDA 1994 MGA Zone 56

Groundwater Hydrographs (Prediction Period, Simulation0):
- CSP6
- CSP34
- PSE1
- PSE2

FIGURE: J-05a

File Name: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\GIS\Maps\68229_R01RevA_D005e_SIM0_Hydrographs_CSP6_CSP34_PSE1_PSE2.mxd



Profile 1: CSP6 [12353]

Profile 2: CSP34 [15878]

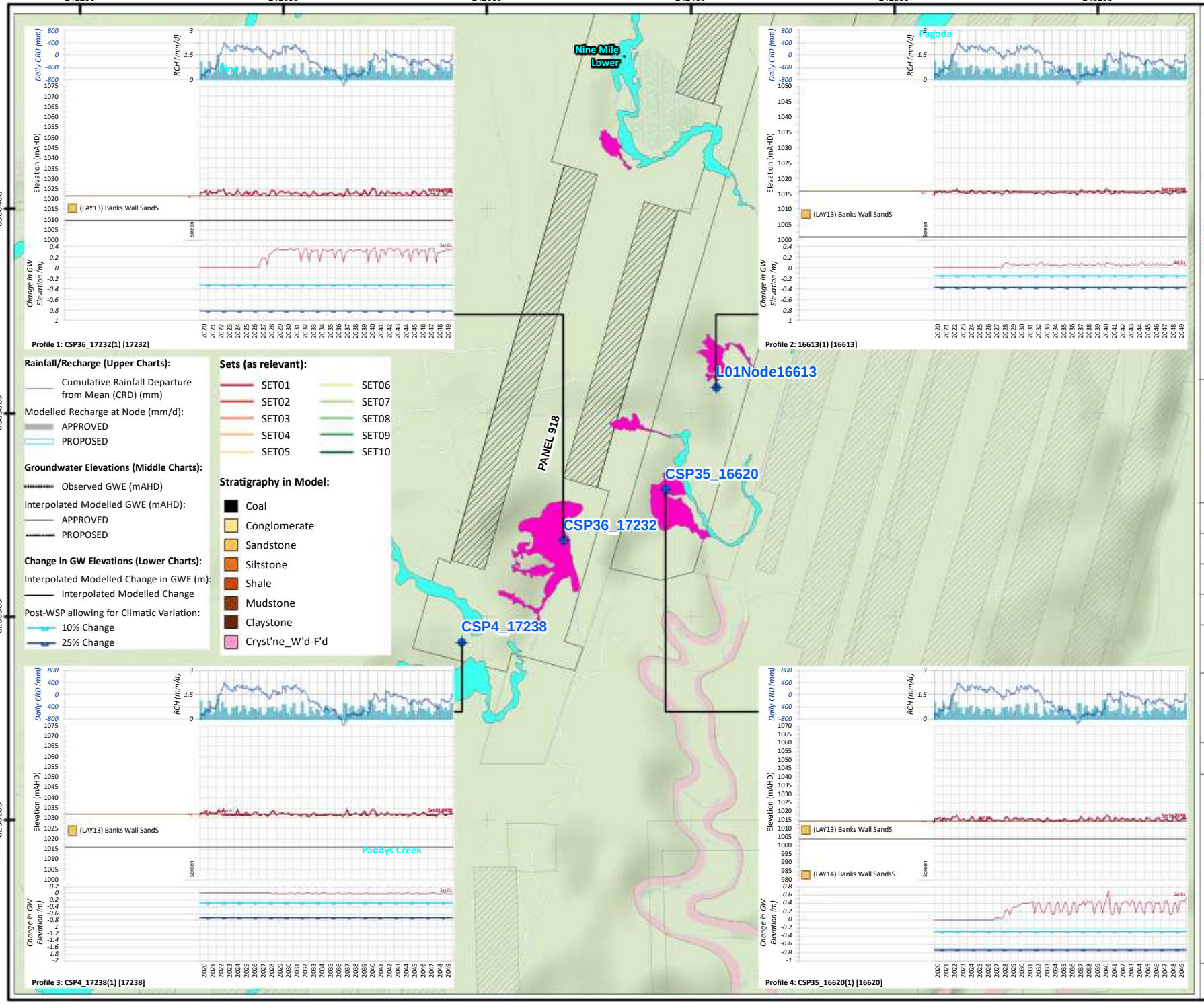
Profile 3: PSE1 [17832]

Profile 4: PSE2 [18446]

File Path: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\Grapher\68229_R01RevA_D006_BinaryHDSMultiLevelDDNGenerator\68229_R01RevA_D006e\68229_R01RevA_D006e_BinaryHDSMultiLevelDDNGenerator_08_CSP6_CSP34_PSE1_PSE2.grf

Reference: 68229_R01RevA_APR_03c, 68229_R01RevA_PRO_02a, 68229_R01RevA_PRO_02a_minus_68229_R01RevA_APR_03c

Figure J-05b: Multilevel Groundwater Hydrographs (Prediction Period Simulation0) - CSP6, CSP34, PSE1, PSE2



File Name: N:\Projects\CentennialCoal\ClarenceColliery\68229_UpdateTo918EP\Figures\GIS\Maps\68229_R01RevA_D005i_SIM0_Hydrographs_CSP36_16613_CSP4_CSP35.mxd

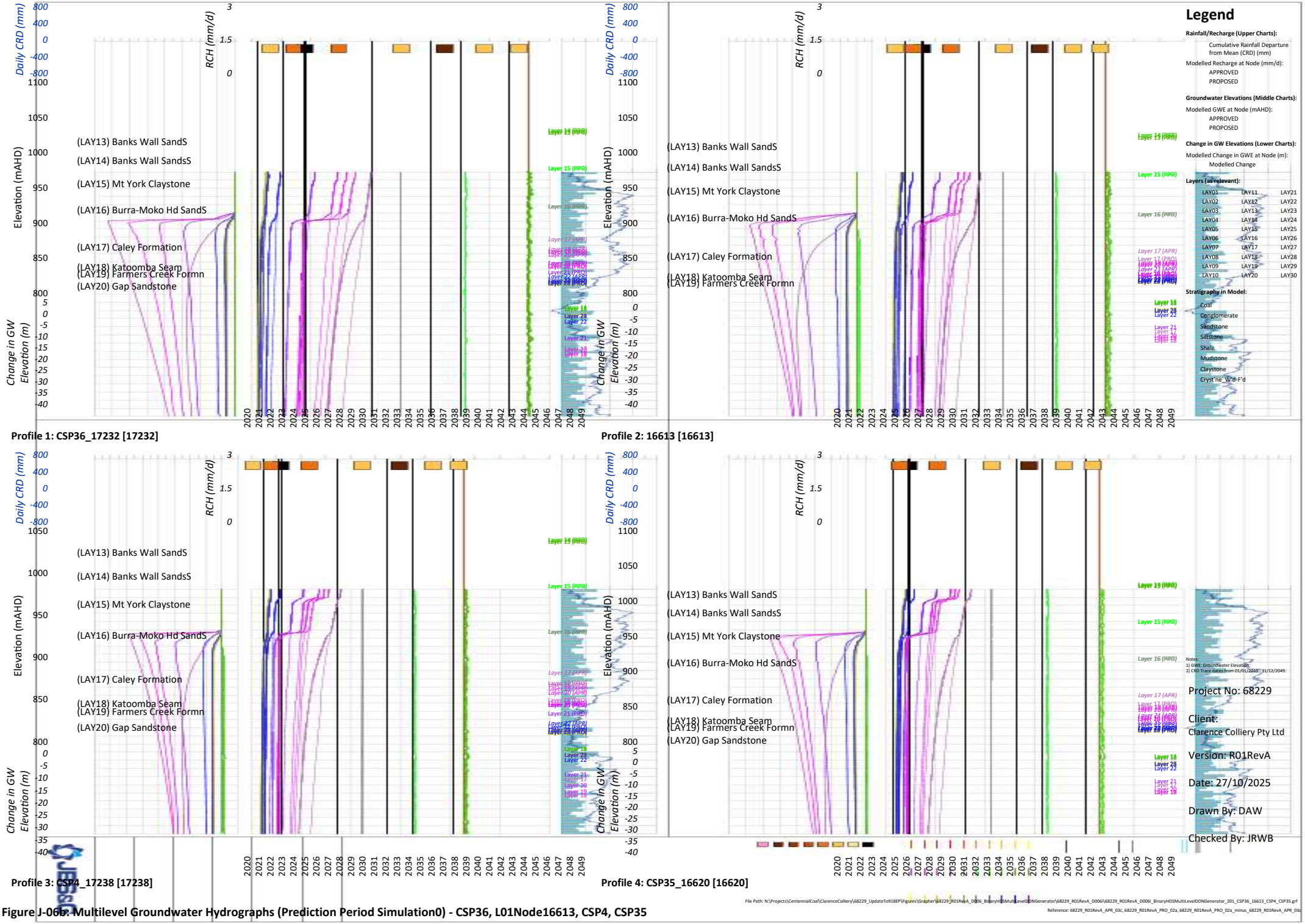


Figure J-06b: Multilevel Groundwater Hydrographs (Prediction Period Simulation0) - CSP36, L01Node16613, CSP4, CSP35

Appendix K PEST Control File

Appendix K

K1. PEST Control File

This appendix presents the PEST control file (.PST).

The file presents the calibrated parameter values.

It is noted that superfluous entries such as headers and observation data have been deleted from the printout.

```
pcf
* control data
* singular value decomposition
* parameter groups
* parameter data
l01kh001  log factor  7.7101070E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh002  log factor  7.8623351E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh003  log factor  7.7853377E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh004  log factor  7.7987079E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh005  log factor  7.7910481E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh006  log factor  7.7832636E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh007  log factor  7.7608932E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh008  log factor  7.7747523E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh009  log factor  7.7800977E-03  2.33e-03  2.59e-02  kx01  1 0 1
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l01kh011  log factor  7.7835483E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh012  log factor  7.4316833E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh013  log factor  7.8150520E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh014  log factor  7.7249035E-03  2.33e-03  2.59e-02  kx01  1 0 1
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l01kh016  log factor  7.7957750E-03  2.33e-03  2.59e-02  kx01  1 0 1
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l01kh031  log factor  7.7210660E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh032  log factor  7.7962315E-03  2.33e-03  2.59e-02  kx01  1 0 1
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l01kh035  log factor  7.8618304E-03  2.33e-03  2.59e-02  kx01  1 0 1
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l01kh041  log factor  7.7917777E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh042  log factor  7.7859554E-03  2.33e-03  2.59e-02  kx01  1 0 1
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l01kh045  log factor  7.9017740E-03  2.33e-03  2.59e-02  kx01  1 0 1
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l01kh047  log factor  7.7244312E-03  2.33e-03  2.59e-02  kx01  1 0 1
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l01kh059  log factor  7.7870500E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh060  log factor  7.7780882E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh061  log factor  7.7741076E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh062  log factor  7.7892560E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh063  log factor  7.7754685E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh064  log factor  7.7889330E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh065  log factor  7.7700666E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh066  log factor  7.7997042E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh067  log factor  7.7589853E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh068  log factor  7.7984644E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh069  log factor  7.9368107E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh070  log factor  7.7727994E-03  2.33e-03  2.59e-02  kx01  1 0 1
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l01kh073  log factor  7.7748121E-03  2.33e-03  2.59e-02  kx01  1 0 1
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l01kh075  log factor  7.7745739E-03  2.33e-03  2.59e-02  kx01  1 0 1
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l01kh078  log factor  7.7753129E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh079  log factor  7.8338968E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh080  log factor  7.7906007E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh081  log factor  7.8088345E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh082  log factor  7.8700234E-03  2.33e-03  2.59e-02  kx01  1 0 1
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l01kh084  log factor  7.7506054E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh085  log factor  7.7452070E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh086  log factor  7.7743641E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh087  log factor  7.7665875E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh088  log factor  7.7601710E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh089  log factor  7.7723777E-03  2.33e-03  2.59e-02  kx01  1 0 1
```



```
l01kh090  log factor  7.7662729E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh091  log factor  7.7773994E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh092  log factor  7.7884973E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh093  log factor  7.8119290E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh094  log factor  8.1586569E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh095  log factor  7.8437326E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh096  log factor  9.1446567E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh097  log factor  9.1015789E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh098  log factor  8.0402761E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh099  log factor  8.0001251E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh100  log factor  8.0181549E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh101  log factor  7.7779445E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh102  log factor  7.7721283E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh103  log factor  7.8010127E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh104  log factor  7.7932098E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh105  log factor  7.8204141E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh106  log factor  7.8530767E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh107  log factor  7.7861627E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh108  log factor  7.7826295E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh109  log factor  7.7813518E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh110  log factor  7.7775409E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh111  log factor  7.7777128E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh112  log factor  7.7836503E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh113  log factor  7.7755145E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh114  log factor  7.7771207E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh115  log factor  7.8004384E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh116  log factor  7.8516828E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh117  log factor  8.5295373E-03  2.33e-03  2.59e-02  kx01  1 0 1
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l01kh119  log factor  7.7829344E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh120  log factor  7.7839808E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh121  log factor  7.7749072E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh122  log factor  7.8802282E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh123  log factor  7.9067451E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh124  log factor  7.7772915E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh125  log factor  7.7570207E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh126  log factor  7.7901711E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh127  log factor  8.9910039E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh128  log factor  7.8168808E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh129  log factor  7.8187912E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh130  log factor  7.7771524E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh131  log factor  7.7724082E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh132  log factor  7.7766550E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh133  log factor  7.7806332E-03  2.33e-03  2.59e-02  kx01  1 0 1
l01kh134  log factor  7.7789248E-03  2.33e-03  2.59e-02  kx01  1 0 1
l02kh001  log factor  5.8138730E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh002  log factor  6.0542117E-04  6.05e-05  6.05e-03  kx02  1 0 1
```



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l02kh003  log factor  5.7105798E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh004  log factor  5.8264552E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh005  log factor  6.0205869E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh006  log factor  5.9057852E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh007  log factor  6.0148319E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh008  log factor  6.0195872E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh009  log factor  6.0152207E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh010  log factor  5.5055141E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh011  log factor  6.0102230E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh012  log factor  6.0396323E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh013  log factor  6.0516452E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh014  log factor  5.6298412E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh015  log factor  6.0334014E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh016  log factor  5.7120482E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh017  log factor  6.0322282E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh018  log factor  5.7546656E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh019  log factor  6.0418867E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh020  log factor  5.9596164E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh021  log factor  6.0278959E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh022  log factor  6.0569402E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh023  log factor  6.0551779E-04  6.05e-05  6.05e-03  kx02  1 0 1
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l02kh025  log factor  6.0487738E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh026  log factor  5.9930531E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh027  log factor  6.0200861E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh028  log factor  5.9896098E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh029  log factor  6.0181681E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh030  log factor  6.0552171E-04  6.05e-05  6.05e-03  kx02  1 0 1
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l02kh033  log factor  6.0742409E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh034  log factor  6.3575705E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh035  log factor  6.0592972E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh036  log factor  6.0358266E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh037  log factor  6.0537285E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh038  log factor  6.0468274E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh039  log factor  6.0399473E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh040  log factor  6.0543632E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh041  log factor  6.0689175E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh042  log factor  6.0953601E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh043  log factor  5.4661178E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh044  log factor  6.0563103E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh045  log factor  5.7477420E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh046  log factor  5.9585742E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh047  log factor  4.7138544E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh048  log factor  5.2279930E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh049  log factor  5.1028141E-04  6.05e-05  6.05e-03  kx02  1 0 1
```



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l02kh050  log factor  6.0360221E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh051  log factor  5.8697182E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh052  log factor  6.0500413E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh053  log factor  5.9457475E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh054  log factor  5.9872443E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh055  log factor  5.9931841E-04  6.05e-05  6.05e-03  kx02  1 0 1
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l02kh057  log factor  5.7704548E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh058  log factor  6.0133954E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh059  log factor  6.0400172E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh060  log factor  6.0763999E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh061  log factor  6.0203969E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh062  log factor  6.0375274E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh063  log factor  5.5857772E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh064  log factor  3.3982391E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh065  log factor  5.6855169E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh066  log factor  5.8583993E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh067  log factor  5.7683870E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh068  log factor  5.5975191E-04  6.05e-05  6.05e-03  kx02  1 0 1
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l02kh072  log factor  5.2985020E-04  6.05e-05  6.05e-03  kx02  1 0 1
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l02kh074  log factor  3.9424197E-04  6.05e-05  6.05e-03  kx02  1 0 1
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l02kh077  log factor  5.9037959E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh078  log factor  6.0410450E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh079  log factor  6.0627348E-04  6.05e-05  6.05e-03  kx02  1 0 1
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l02kh081  log factor  6.0659254E-04  6.05e-05  6.05e-03  kx02  1 0 1
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l02kh084  log factor  5.2544448E-04  6.05e-05  6.05e-03  kx02  1 0 1
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l02kh086  log factor  6.0640734E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh087  log factor  6.0543482E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh088  log factor  5.9834016E-04  6.05e-05  6.05e-03  kx02  1 0 1
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l02kh090  log factor  6.0258489E-04  6.05e-05  6.05e-03  kx02  1 0 1
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l02kh092  log factor  6.0415076E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh093  log factor  6.0517457E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh094  log factor  6.0645844E-04  6.05e-05  6.05e-03  kx02  1 0 1
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l02kh096  log factor  6.1321820E-04  6.05e-05  6.05e-03  kx02  1 0 1
```



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l02kh097  log factor  5.8663896E-04  6.05e-05  6.05e-03  kx02  1 0 1
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l02kh099  log factor  5.9333355E-04  6.05e-05  6.05e-03  kx02  1 0 1
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l02kh128  log factor  6.0659571E-04  6.05e-05  6.05e-03  kx02  1 0 1
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l02kh131  log factor  6.0614709E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh132  log factor  6.0462166E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh133  log factor  6.0632116E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh134  log factor  6.0030509E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh135  log factor  6.0605526E-04  6.05e-05  6.05e-03  kx02  1 0 1
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l02kh141  log factor  6.0444637E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh142  log factor  6.0492483E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh143  log factor  6.1559324E-04  6.05e-05  6.05e-03  kx02  1 0 1
```



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l02kh144  log factor  6.0522694E-04  6.05e-05  6.05e-03  kx02  1 0 1
l02kh145  log factor  6.0495417E-04  6.05e-05  6.05e-03  kx02  1 0 1
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l02kh147  log factor  6.0342369E-04  6.05e-05  6.05e-03  kx02  1 0 1
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l03kh005  log factor  7.9200850E-03  2.33e-03  2.59e-02  kx03  1 0 1
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l03kh007  log factor  7.9612159E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh008  log factor  7.4641155E-03  2.33e-03  2.59e-02  kx03  1 0 1
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l03kh010  log factor  7.7698113E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh011  log factor  7.6996855E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh012  log factor  7.7940426E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh013  log factor  7.7897420E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh014  log factor  7.8161366E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh015  log factor  7.7228425E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh016  log factor  7.7151636E-03  2.33e-03  2.59e-02  kx03  1 0 1
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l03kh020  log factor  7.9214721E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh021  log factor  7.7441914E-03  2.33e-03  2.59e-02  kx03  1 0 1
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l03kh023  log factor  8.1405311E-03  2.33e-03  2.59e-02  kx03  1 0 1
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l03kh025  log factor  8.3347640E-03  2.33e-03  2.59e-02  kx03  1 0 1
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l03kh029  log factor  7.8210859E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh030  log factor  7.9415971E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh031  log factor  7.7832975E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh032  log factor  7.0825461E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh033  log factor  7.8588439E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh034  log factor  7.8442823E-03  2.33e-03  2.59e-02  kx03  1 0 1
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l03kh036  log factor  7.9555577E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh037  log factor  7.8596046E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh038  log factor  7.9093058E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh039  log factor  8.0500483E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh040  log factor  7.8479991E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh041  log factor  8.0170619E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh042  log factor  8.2773775E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh043  log factor  7.9002267E-03  2.33e-03  2.59e-02  kx03  1 0 1
```



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l03kh044  log factor  8.0909413E-03  2.33e-03  2.59e-02  kx03  1 0 1
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l03kh046  log factor  7.7996047E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh047  log factor  7.7642118E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh048  log factor  7.8021521E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh049  log factor  7.7993845E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh050  log factor  7.8263579E-03  2.33e-03  2.59e-02  kx03  1 0 1
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```



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l03kh091  log factor  7.7911158E-03  2.33e-03  2.59e-02  kx03  1 0 1
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l03kh093  log factor  7.7959912E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh094  log factor  7.7711077E-03  2.33e-03  2.59e-02  kx03  1 0 1
l03kh095  log factor  7.7931295E-03  2.33e-03  2.59e-02  kx03  1 0 1
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l03kh137  log factor  8.0764584E-03  2.33e-03  2.59e-02  kx03  1 0 1
```



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```



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l04kh064  log factor  6.0358468E-04  6.05e-05  6.05e-03  kx04  1 0 1
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l04kh066  log factor  6.0369307E-04  6.05e-05  6.05e-03  kx04  1 0 1
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l04kh070  log factor  6.0362934E-04  6.05e-05  6.05e-03  kx04  1 0 1
l04kh071  log factor  6.0558931E-04  6.05e-05  6.05e-03  kx04  1 0 1
l04kh072  log factor  6.0410001E-04  6.05e-05  6.05e-03  kx04  1 0 1
l04kh073  log factor  6.0375536E-04  6.05e-05  6.05e-03  kx04  1 0 1
l04kh074  log factor  5.9983299E-04  6.05e-05  6.05e-03  kx04  1 0 1
l04kh075  log factor  5.9398096E-04  6.05e-05  6.05e-03  kx04  1 0 1
l04kh076  log factor  5.8726792E-04  6.05e-05  6.05e-03  kx04  1 0 1
l04kh077  log factor  6.0232996E-04  6.05e-05  6.05e-03  kx04  1 0 1
l04kh078  log factor  6.0486295E-04  6.05e-05  6.05e-03  kx04  1 0 1
l04kh079  log factor  9.2091397E-04  6.05e-05  6.05e-03  kx04  1 0 1
l04kh080  log factor  8.9320347E-04  6.05e-05  6.05e-03  kx04  1 0 1
l04kh081  log factor  6.4153927E-04  6.05e-05  6.05e-03  kx04  1 0 1
l04kh082  log factor  6.0217142E-04  6.05e-05  6.05e-03  kx04  1 0 1
l04kh083  log factor  6.0530041E-04  6.05e-05  6.05e-03  kx04  1 0 1
l04kh084  log factor  5.9883786E-04  6.05e-05  6.05e-03  kx04  1 0 1
```



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l04kh085  log factor  6.0144126E-04  6.05e-05  6.05e-03  kx04  1 0 1
l04kh086  log factor  6.1830622E-04  6.05e-05  6.05e-03  kx04  1 0 1
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l04kh131  log factor  6.0890139E-04  6.05e-05  6.05e-03  kx04  1 0 1
```



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l04kh135  log factor  6.0200300E-04  6.05e-05  6.05e-03  kx04  1 0 1
l04kh136  log factor  6.0499787E-04  6.05e-05  6.05e-03  kx04  1 0 1
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l05kh019  log factor  7.7769413E-03  2.33e-03  2.59e-02  kx05  1 0 1
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```



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l05kh103  log factor  7.7731607E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh104  log factor  7.7657903E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh105  log factor  7.7792510E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh106  log factor  7.7791058E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh107  log factor  7.7859598E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh108  log factor  7.7584205E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh109  log factor  7.7601345E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh110  log factor  7.7426906E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh111  log factor  7.7676632E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh112  log factor  7.7877038E-03  2.33e-03  2.59e-02  kx05  1 0 1
```



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l05kh113  log factor  7.9787157E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh114  log factor  8.1470764E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh115  log factor  7.8443743E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh116  log factor  7.8572562E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh117  log factor  7.8883835E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh118  log factor  7.7621232E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh119  log factor  7.9349014E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh120  log factor  7.8136697E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh121  log factor  7.8667968E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh122  log factor  7.9642773E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh123  log factor  7.7639871E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh124  log factor  7.7641367E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh125  log factor  7.7647962E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh126  log factor  7.7753047E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh127  log factor  7.5471256E-03  2.33e-03  2.59e-02  kx05  1 0 1
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l05kh129  log factor  7.7613722E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh130  log factor  7.9070168E-03  2.33e-03  2.59e-02  kx05  1 0 1
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l05kh147  log factor  7.7741925E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh148  log factor  7.7266832E-03  2.33e-03  2.59e-02  kx05  1 0 1
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l05kh153  log factor  7.7720538E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh154  log factor  7.7676580E-03  2.33e-03  2.59e-02  kx05  1 0 1
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l05kh156  log factor  7.7733891E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh157  log factor  7.7799208E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh158  log factor  7.7758310E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh159  log factor  7.7717775E-03  2.33e-03  2.59e-02  kx05  1 0 1
```

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l05kh162  log factor  7.7709094E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh163  log factor  7.7721597E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh164  log factor  7.7751721E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh165  log factor  7.7675969E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh166  log factor  7.7754312E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh167  log factor  7.8611203E-03  2.33e-03  2.59e-02  kx05  1 0 1
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l05kh170  log factor  7.7732927E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh171  log factor  7.7670294E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh172  log factor  7.7812254E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh173  log factor  7.7805166E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh174  log factor  7.7763201E-03  2.33e-03  2.59e-02  kx05  1 0 1
l05kh175  log factor  7.7752884E-03  2.33e-03  2.59e-02  kx05  1 0 1
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l06kh001  log factor  5.9675614E-04  6.05e-05  6.05e-03  kx06  1 0 1
l06kh002  log factor  5.8104248E-04  6.05e-05  6.05e-03  kx06  1 0 1
l06kh003  log factor  6.8633665E-04  6.05e-05  6.05e-03  kx06  1 0 1
l06kh004  log factor  6.0217640E-04  6.05e-05  6.05e-03  kx06  1 0 1
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l06kh008  log factor  5.9977267E-04  6.05e-05  6.05e-03  kx06  1 0 1
```



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l06kh012  log factor  6.0492121E-04  6.05e-05  6.05e-03  kx06  1 0 1
l06kh013  log factor  6.0451899E-04  6.05e-05  6.05e-03  kx06  1 0 1
l06kh014  log factor  6.0478664E-04  6.05e-05  6.05e-03  kx06  1 0 1
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l06kh056  log factor  5.5215984E-04  6.05e-05  6.05e-03  kx06  1 0 1
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l06kh092  log factor  5.5894671E-04  6.05e-05  6.05e-03  kx06  1 0 1
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l06kh102  log factor  6.0419331E-04  6.05e-05  6.05e-03  kx06  1 0 1
```



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l06kh103  log factor  6.0591342E-04  6.05e-05  6.05e-03  kx06  1 0 1
l06kh104  log factor  6.0393035E-04  6.05e-05  6.05e-03  kx06  1 0 1
l06kh105  log factor  6.0601495E-04  6.05e-05  6.05e-03  kx06  1 0 1
l06kh106  log factor  6.0504931E-04  6.05e-05  6.05e-03  kx06  1 0 1
l06kh107  log factor  6.0514668E-04  6.05e-05  6.05e-03  kx06  1 0 1
l06kh108  log factor  6.0384250E-04  6.05e-05  6.05e-03  kx06  1 0 1
l06kh109  log factor  6.0281724E-04  6.05e-05  6.05e-03  kx06  1 0 1
l06kh110  log factor  6.0235728E-04  6.05e-05  6.05e-03  kx06  1 0 1
l06kh111  log factor  5.9468418E-04  6.05e-05  6.05e-03  kx06  1 0 1
l06kh112  log factor  6.0404690E-04  6.05e-05  6.05e-03  kx06  1 0 1
l06kh113  log factor  6.0046061E-04  6.05e-05  6.05e-03  kx06  1 0 1
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l06kh115  log factor  6.0420693E-04  6.05e-05  6.05e-03  kx06  1 0 1
l06kh116  log factor  6.0513252E-04  6.05e-05  6.05e-03  kx06  1 0 1
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l06kh118  log factor  6.0420583E-04  6.05e-05  6.05e-03  kx06  1 0 1
l06kh119  log factor  6.0435427E-04  6.05e-05  6.05e-03  kx06  1 0 1
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l06kh137  log factor  5.9013891E-04  6.05e-05  6.05e-03  kx06  1 0 1
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l06kh147  log factor  6.3737426E-04  6.05e-05  6.05e-03  kx06  1 0 1
l06kh148  log factor  5.8175428E-04  6.05e-05  6.05e-03  kx06  1 0 1
l06kh149  log factor  6.2277132E-04  6.05e-05  6.05e-03  kx06  1 0 1
```



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l06kh150  log factor  6.0673045E-04  6.05e-05  6.05e-03  kx06  1 0 1
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l06kh153  log factor  6.0603825E-04  6.05e-05  6.05e-03  kx06  1 0 1
l06kh154  log factor  5.8542225E-04  6.05e-05  6.05e-03  kx06  1 0 1
l06kh155  log factor  5.9927616E-04  6.05e-05  6.05e-03  kx06  1 0 1
l06kh156  log factor  5.9240455E-04  6.05e-05  6.05e-03  kx06  1 0 1
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l06kh187  log factor  6.0555625E-04  6.05e-05  6.05e-03  kx06  1 0 1
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l06kh190  log factor  6.2062829E-04  6.05e-05  6.05e-03  kx06  1 0 1
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l06kh201  log factor  6.1256908E-04  6.05e-05  6.05e-03  kx06  1 0 1
l06kh202  log factor  6.0424295E-04  6.05e-05  6.05e-03  kx06  1 0 1
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l07kh038  log factor  7.6755545E-03  2.33e-03  2.59e-02  kx07  1 0 1
```



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l07kh100  log factor  7.7645798E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh101  log factor  7.7830192E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh102  log factor  7.7807392E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh103  log factor  7.7861955E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh104  log factor  7.8087336E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh105  log factor  7.7741127E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh106  log factor  7.7901687E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh107  log factor  7.7852732E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh108  log factor  7.7863428E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh109  log factor  7.7826443E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh110  log factor  7.7855996E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh111  log factor  7.7893312E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh112  log factor  7.7798467E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh113  log factor  7.7845704E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh114  log factor  7.7659423E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh115  log factor  7.8562426E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh116  log factor  7.9008505E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh117  log factor  7.9038170E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh118  log factor  7.9038065E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh119  log factor  7.7879038E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh120  log factor  7.9972269E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh121  log factor  7.8052154E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh122  log factor  8.8852291E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh123  log factor  7.8079238E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh124  log factor  7.8233157E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh125  log factor  7.8286975E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh126  log factor  7.6843262E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh127  log factor  8.0633513E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh128  log factor  6.7246697E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh129  log factor  7.7810284E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh130  log factor  7.7855542E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh131  log factor  7.7967091E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh132  log factor  7.7931377E-03  2.33e-03  2.59e-02  kx07  1 0 1
```



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l07kh133  log factor  7.7853092E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh134  log factor  7.7764446E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh135  log factor  7.7913952E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh136  log factor  7.7946662E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh137  log factor  7.7872034E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh138  log factor  7.7877915E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh139  log factor  7.8810537E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh140  log factor  9.3863861E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh141  log factor  7.7363371E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh142  log factor  7.8291730E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh143  log factor  7.8027442E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh144  log factor  7.7893014E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh145  log factor  8.1769355E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh146  log factor  7.8017680E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh147  log factor  7.7857535E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh148  log factor  7.8011778E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh149  log factor  7.8003097E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh150  log factor  7.7197341E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh151  log factor  7.7245635E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh152  log factor  7.7634269E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh153  log factor  7.7663531E-03  2.33e-03  2.59e-02  kx07  1 0 1
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l07kh155  log factor  7.5476874E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh156  log factor  7.6234665E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh157  log factor  7.6672832E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh158  log factor  7.7836897E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh159  log factor  7.7923434E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh160  log factor  7.7880041E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh161  log factor  7.7981326E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh162  log factor  7.7879491E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh163  log factor  7.7881959E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh164  log factor  7.7908722E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh165  log factor  7.7718951E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh166  log factor  7.7502242E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh167  log factor  7.7547194E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh168  log factor  7.7813064E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh169  log factor  7.7898514E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh170  log factor  7.7718948E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh171  log factor  7.8654091E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh172  log factor  7.9461909E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh173  log factor  7.7920380E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh174  log factor  8.1099469E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh175  log factor  7.8219722E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh176  log factor  7.7862528E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh177  log factor  7.7808561E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh178  log factor  7.8495067E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh179  log factor  7.7799748E-03  2.33e-03  2.59e-02  kx07  1 0 1
```



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l07kh180  log factor  7.7766008E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh181  log factor  7.8481272E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh182  log factor  7.7898583E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh183  log factor  7.7970067E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh184  log factor  6.6469166E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh185  log factor  5.5937783E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh186  log factor  7.1826510E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh187  log factor  7.7793830E-03  2.33e-03  2.59e-02  kx07  1 0 1
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l07kh189  log factor  7.9442234E-03  2.33e-03  2.59e-02  kx07  1 0 1
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l07kh191  log factor  7.4044999E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh192  log factor  7.5690012E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh193  log factor  6.2001501E-03  2.33e-03  2.59e-02  kx07  1 0 1
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l07kh197  log factor  7.7843243E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh198  log factor  7.7916624E-03  2.33e-03  2.59e-02  kx07  1 0 1
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l07kh204  log factor  7.8677416E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh205  log factor  7.7303036E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh206  log factor  7.9673011E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh207  log factor  7.6641803E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh208  log factor  7.6726260E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh209  log factor  7.7976988E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh210  log factor  7.7260703E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh211  log factor  7.7002915E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh212  log factor  7.7993732E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh213  log factor  7.7665259E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh214  log factor  7.7704730E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh215  log factor  8.0694255E-03  2.33e-03  2.59e-02  kx07  1 0 1
l07kh216  log factor  7.7708285E-03  2.33e-03  2.59e-02  kx07  1 0 1
l08kh001  log factor  5.9014505E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh002  log factor  5.5044753E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh003  log factor  6.4373460E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh004  log factor  6.0170715E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh005  log factor  6.0450489E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh006  log factor  4.9703437E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh007  log factor  5.7185626E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh008  log factor  4.7198724E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh009  log factor  6.0285256E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh010  log factor  6.0618721E-04  6.05e-05  6.05e-03  kx08  1 0 1
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l08kh011  log factor  6.4137411E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh012  log factor  6.5619710E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh013  log factor  7.2490792E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh014  log factor  7.0449431E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh015  log factor  1.0587396E-03  6.05e-05  6.05e-03  kx08  1 0 1
l08kh016  log factor  1.1855868E-03  6.05e-05  6.05e-03  kx08  1 0 1
l08kh017  log factor  5.1037286E-04  6.05e-05  6.05e-03  kx08  1 0 1
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l08kh027  log factor  5.3653302E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh028  log factor  5.2022613E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh029  log factor  6.0547717E-04  6.05e-05  6.05e-03  kx08  1 0 1
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l08kh041  log factor  3.8230204E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh042  log factor  6.1171159E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh043  log factor  4.7724514E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh044  log factor  5.9945281E-04  6.05e-05  6.05e-03  kx08  1 0 1
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l08kh046  log factor  5.9991460E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh047  log factor  6.0396020E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh048  log factor  6.0124012E-04  6.05e-05  6.05e-03  kx08  1 0 1
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l08kh050  log factor  6.0913991E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh051  log factor  6.0645959E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh052  log factor  6.0502835E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh053  log factor  6.0252624E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh054  log factor  6.0552433E-04  6.05e-05  6.05e-03  kx08  1 0 1
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l08kh057  log factor  6.0349082E-04  6.05e-05  6.05e-03  kx08  1 0 1
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l08kh058  log factor  6.0250667E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh059  log factor  6.0435347E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh060  log factor  6.0782531E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh061  log factor  6.0909551E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh062  log factor  6.0315018E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh063  log factor  6.0538558E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh064  log factor  6.0861791E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh065  log factor  6.0603535E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh066  log factor  6.0320134E-04  6.05e-05  6.05e-03  kx08  1 0 1
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l08kh069  log factor  6.0450807E-04  6.05e-05  6.05e-03  kx08  1 0 1
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l08kh072  log factor  6.0529148E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh073  log factor  6.0506962E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh074  log factor  6.0510149E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh075  log factor  6.0520844E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh076  log factor  6.0495304E-04  6.05e-05  6.05e-03  kx08  1 0 1
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l08kh081  log factor  5.9815661E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh082  log factor  5.8986698E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh083  log factor  6.2086688E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh084  log factor  6.0562347E-04  6.05e-05  6.05e-03  kx08  1 0 1
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l08kh086  log factor  5.9463500E-04  6.05e-05  6.05e-03  kx08  1 0 1
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l08kh090  log factor  6.0529447E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh091  log factor  5.9134171E-04  6.05e-05  6.05e-03  kx08  1 0 1
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l08kh095  log factor  6.0486151E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh096  log factor  6.0450047E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh097  log factor  6.0210825E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh098  log factor  5.9939242E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh099  log factor  6.0250498E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh100  log factor  6.0302462E-04  6.05e-05  6.05e-03  kx08  1 0 1
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l08kh103  log factor  5.9796534E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh104  log factor  6.0537996E-04  6.05e-05  6.05e-03  kx08  1 0 1
```



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l08kh105  log factor  5.9251830E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh106  log factor  6.0456449E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh107  log factor  5.8781306E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh108  log factor  6.0315230E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh109  log factor  6.0360005E-04  6.05e-05  6.05e-03  kx08  1 0 1
l08kh110  log factor  5.9971246E-04  6.05e-05  6.05e-03  kx08  1 0 1
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l08kh151  log factor  6.0461857E-04  6.05e-05  6.05e-03  kx08  1 0 1
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l09kh078  log factor  7.6178280E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh079  log factor  7.7410231E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh080  log factor  7.7600572E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh081  log factor  7.7588850E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh082  log factor  7.7259911E-03  2.33e-03  2.59e-02  kx09  1 0 1
```

```
l09kh083  log factor  7.7395658E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh084  log factor  7.7767901E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh085  log factor  7.7741925E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh086  log factor  7.7680754E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh087  log factor  7.7940566E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh088  log factor  7.7711420E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh089  log factor  7.7722534E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh090  log factor  7.7782574E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh091  log factor  7.7541633E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh092  log factor  7.7766070E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh093  log factor  7.6926391E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh094  log factor  7.6994887E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh095  log factor  7.7718670E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh096  log factor  7.7583460E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh097  log factor  7.7412134E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh098  log factor  1.0315364E-02  2.33e-03  2.59e-02  kx09  1 0 1
l09kh099  log factor  8.0273930E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh100  log factor  7.9020555E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh101  log factor  7.9557058E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh102  log factor  7.7796394E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh103  log factor  7.8172265E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh104  log factor  7.8024092E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh105  log factor  8.1077462E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh106  log factor  8.0291371E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh107  log factor  5.4400756E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh108  log factor  8.4472476E-03  2.33e-03  2.59e-02  kx09  1 0 1
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l09kh110  log factor  7.3021336E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh111  log factor  8.9186927E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh112  log factor  7.7243491E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh113  log factor  7.7689975E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh114  log factor  7.6647997E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh115  log factor  7.3478446E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh116  log factor  8.7952479E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh117  log factor  8.4029666E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh118  log factor  7.8646731E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh119  log factor  7.7456648E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh120  log factor  7.6489068E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh121  log factor  1.0457249E-02  2.33e-03  2.59e-02  kx09  1 0 1
l09kh122  log factor  8.9507702E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh123  log factor  7.5984474E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh124  log factor  7.4948255E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh125  log factor  6.6015685E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh126  log factor  9.1846128E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh127  log factor  8.1854295E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh128  log factor  7.7693103E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh129  log factor  9.0089892E-03  2.33e-03  2.59e-02  kx09  1 0 1
```



```
l09kh130  log factor  7.7303803E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh131  log factor  8.3383092E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh132  log factor  7.7614779E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh133  log factor  7.9367434E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh134  log factor  8.0131410E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh135  log factor  7.7743998E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh136  log factor  7.7684061E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh137  log factor  7.7705655E-03  2.33e-03  2.59e-02  kx09  1 0 1
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l09kh141  log factor  7.7408579E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh142  log factor  8.0102225E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh143  log factor  8.7325725E-03  2.33e-03  2.59e-02  kx09  1 0 1
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l09kh145  log factor  7.7632492E-03  2.33e-03  2.59e-02  kx09  1 0 1
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l09kh154  log factor  8.0018373E-03  2.33e-03  2.59e-02  kx09  1 0 1
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l09kh166  log factor  7.7631993E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh167  log factor  7.7758062E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh168  log factor  7.9964690E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh169  log factor  7.6490728E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh170  log factor  7.8240146E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh171  log factor  7.7937227E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh172  log factor  7.8120673E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh173  log factor  7.8979458E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh174  log factor  8.0611674E-03  2.33e-03  2.59e-02  kx09  1 0 1
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l09kh176  log factor  7.7740290E-03  2.33e-03  2.59e-02  kx09  1 0 1
```



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l09kh177  log factor  7.7734388E-03  2.33e-03  2.59e-02  kx09  1 0 1
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l09kh180  log factor  7.5846968E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh181  log factor  7.7718888E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh182  log factor  7.7780672E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh183  log factor  7.7773024E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh184  log factor  7.7621465E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh185  log factor  7.9119304E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh186  log factor  7.6935710E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh187  log factor  8.8347999E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh188  log factor  8.7270444E-03  2.33e-03  2.59e-02  kx09  1 0 1
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l09kh190  log factor  7.7633695E-03  2.33e-03  2.59e-02  kx09  1 0 1
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l09kh192  log factor  7.7129984E-03  2.33e-03  2.59e-02  kx09  1 0 1
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l09kh194  log factor  7.7743417E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh195  log factor  7.8692342E-03  2.33e-03  2.59e-02  kx09  1 0 1
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l09kh199  log factor  7.9748979E-03  2.33e-03  2.59e-02  kx09  1 0 1
l09kh200  log factor  7.8724507E-03  2.33e-03  2.59e-02  kx09  1 0 1
l10kh001  log factor  4.9129433E-04  6.05e-05  6.05e-03  kx10  1 0 1
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l10kh005  log factor  6.0475713E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh006  log factor  6.0536846E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh007  log factor  5.4839224E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh008  log factor  4.8675444E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh009  log factor  5.8394610E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh010  log factor  6.0942666E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh011  log factor  6.0486816E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh012  log factor  6.0397220E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh013  log factor  6.0043870E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh014  log factor  5.4131292E-04  6.05e-05  6.05e-03  kx10  1 0 1
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l10kh019  log factor  5.8472958E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh020  log factor  5.9962206E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh021  log factor  6.0261287E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh022  log factor  5.7604655E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh023  log factor  6.5137905E-04  6.05e-05  6.05e-03  kx10  1 0 1
```



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l10kh024  log factor  8.3256222E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh025  log factor  3.7462099E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh026  log factor  4.9701993E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh027  log factor  5.8107560E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh028  log factor  6.2136681E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh029  log factor  6.0317073E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh030  log factor  6.0370632E-04  6.05e-05  6.05e-03  kx10  1 0 1
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l10kh039  log factor  6.0396618E-04  6.05e-05  6.05e-03  kx10  1 0 1
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l10kh041  log factor  5.8695789E-04  6.05e-05  6.05e-03  kx10  1 0 1
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l10kh048  log factor  5.9821689E-04  6.05e-05  6.05e-03  kx10  1 0 1
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l10kh052  log factor  4.6513828E-04  6.05e-05  6.05e-03  kx10  1 0 1
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l10kh058  log factor  6.0417313E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh059  log factor  6.0485903E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh060  log factor  6.0558168E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh061  log factor  6.0469364E-04  6.05e-05  6.05e-03  kx10  1 0 1
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l10kh063  log factor  5.8644540E-04  6.05e-05  6.05e-03  kx10  1 0 1
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```



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l10kh071  log factor  6.0360196E-04  6.05e-05  6.05e-03  kx10  1 0 1
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l10kh073  log factor  6.2516359E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh074  log factor  6.0705133E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh075  log factor  5.9213140E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh076  log factor  6.4762301E-04  6.05e-05  6.05e-03  kx10  1 0 1
l10kh077  log factor  6.6460349E-04  6.05e-05  6.05e-03  kx10  1 0 1
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l10kh079  log factor  6.3897082E-04  6.05e-05  6.05e-03  kx10  1 0 1
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l10kh092  log factor  6.2780207E-04  6.05e-05  6.05e-03  kx10  1 0 1
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```



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l10kh132  log factor  6.0560247E-04  6.05e-05  6.05e-03  kx10  1 0 1
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l10kh165  log factor  5.8325265E-04  6.05e-05  6.05e-03  kx10  1 0 1
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```



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l11kh068  log factor  7.8131515E-03  2.33e-03  2.59e-02  kx11  1 0 1
l11kh069  log factor  7.7934518E-03  2.33e-03  2.59e-02  kx11  1 0 1
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l11kh075  log factor  9.4005813E-03  2.33e-03  2.59e-02  kx11  1 0 1
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l11kh079  log factor  7.7665505E-03  2.33e-03  2.59e-02  kx11  1 0 1
l11kh080  log factor  7.7742211E-03  2.33e-03  2.59e-02  kx11  1 0 1
```



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l11kh126  log factor  7.7705117E-03  2.33e-03  2.59e-02  kx11  1 0 1
l11kh127  log factor  7.7097244E-03  2.33e-03  2.59e-02  kx11  1 0 1
```



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l11kh130  log factor  7.7907913E-03  2.33e-03  2.59e-02  kx11  1 0 1
l11kh131  log factor  7.7767091E-03  2.33e-03  2.59e-02  kx11  1 0 1
l11kh132  log factor  7.8180927E-03  2.33e-03  2.59e-02  kx11  1 0 1
l11kh133  log factor  7.8011675E-03  2.33e-03  2.59e-02  kx11  1 0 1
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l11kh174  log factor  7.7669622E-03  2.33e-03  2.59e-02  kx11  1 0 1
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```



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l12kh006  log factor  5.9977727E-04  6.05e-05  6.05e-03  kx12  1 0 1
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l12kh039  log factor  6.0387926E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh040  log factor  6.0549377E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh041  log factor  6.0177556E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh042  log factor  6.2506553E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh043  log factor  6.6154828E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh044  log factor  7.4173621E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh045  log factor  6.4189956E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh046  log factor  4.0829176E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh047  log factor  4.6915976E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh048  log factor  5.8572555E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh049  log factor  6.2459713E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh050  log factor  6.0155710E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh051  log factor  6.0654589E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh052  log factor  6.0536144E-04  6.05e-05  6.05e-03  kx12  1 0 1
```



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l12kh053  log factor  6.1882422E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh054  log factor  6.1404327E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh055  log factor  5.8396824E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh056  log factor  5.9555768E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh057  log factor  5.6560933E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh058  log factor  5.7980704E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh059  log factor  5.9515176E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh060  log factor  6.1570164E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh061  log factor  5.9907835E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh062  log factor  6.1269267E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh063  log factor  6.0439958E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh064  log factor  6.0502202E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh065  log factor  5.2402773E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh066  log factor  7.5017892E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh067  log factor  8.2813077E-04  6.05e-05  6.05e-03  kx12  1 0 1
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l12kh069  log factor  6.6548413E-04  6.05e-05  6.05e-03  kx12  1 0 1
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l12kh078  log factor  5.8242044E-04  6.05e-05  6.05e-03  kx12  1 0 1
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l12kh088  log factor  5.9969053E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh089  log factor  6.0036931E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh090  log factor  6.0567221E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh091  log factor  6.0223177E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh092  log factor  6.0394944E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh093  log factor  6.0554553E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh094  log factor  6.0099839E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh095  log factor  6.1031573E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh096  log factor  6.0396971E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh097  log factor  6.0429211E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh098  log factor  6.6978532E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh099  log factor  6.0597453E-04  6.05e-05  6.05e-03  kx12  1 0 1
```



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l12kh100  log factor  5.9969650E-04  6.05e-05  6.05e-03  kx12  1 0 1
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l12kh102  log factor  5.9927532E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh103  log factor  6.0696329E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh104  log factor  6.0561511E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh105  log factor  6.0502312E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh106  log factor  6.0649469E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh107  log factor  6.0591687E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh108  log factor  6.6057875E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh109  log factor  6.0599940E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh110  log factor  6.0666521E-04  6.05e-05  6.05e-03  kx12  1 0 1
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l12kh112  log factor  6.1348723E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh113  log factor  6.0812981E-04  6.05e-05  6.05e-03  kx12  1 0 1
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l12kh115  log factor  6.2528977E-04  6.05e-05  6.05e-03  kx12  1 0 1
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l12kh118  log factor  6.0439848E-04  6.05e-05  6.05e-03  kx12  1 0 1
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l12kh133  log factor  6.2463352E-04  6.05e-05  6.05e-03  kx12  1 0 1
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l12kh135  log factor  5.3006334E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh136  log factor  4.8247042E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh137  log factor  1.1204157E-03  6.05e-05  6.05e-03  kx12  1 0 1
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l12kh145  log factor  6.5283634E-04  6.05e-05  6.05e-03  kx12  1 0 1
l12kh146  log factor  6.0616098E-04  6.05e-05  6.05e-03  kx12  1 0 1
```



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l12kh147  log factor  6.0441213E-04  6.05e-05  6.05e-03  kx12  1 0 1
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l12kh149  log factor  5.9837754E-04  6.05e-05  6.05e-03  kx12  1 0 1
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l12kh180  log factor  6.0594552E-04  6.05e-05  6.05e-03  kx12  1 0 1
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l12kh193  log factor  5.8925236E-04  6.05e-05  6.05e-03  kx12  1 0 1
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l12kh194  log factor  6.0061640E-04  6.05e-05  6.05e-03  kx12  1 0 1
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l12kh200  log factor  7.0270636E-04  6.05e-05  6.05e-03  kx12  1 0 1
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l12kh202  log factor  5.3953799E-04  6.05e-05  6.05e-03  kx12  1 0 1
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l13kh013  log factor  9.1250257E-03  2.33e-03  2.59e-02  kx13  1 0 1
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l13kh017  log factor  7.7900840E-03  2.33e-03  2.59e-02  kx13  1 0 1
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l13kh019  log factor  8.2544827E-03  2.33e-03  2.59e-02  kx13  1 0 1
l13kh020  log factor  8.4733504E-03  2.33e-03  2.59e-02  kx13  1 0 1
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l13kh031  log factor  7.8252665E-03  2.33e-03  2.59e-02  kx13  1 0 1
l13kh032  log factor  7.8581820E-03  2.33e-03  2.59e-02  kx13  1 0 1
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l13kh034  log factor  7.7595204E-03  2.33e-03  2.59e-02  kx13  1 0 1
l13kh035  log factor  7.8238138E-03  2.33e-03  2.59e-02  kx13  1 0 1
```



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l13kh036  log factor  7.7433972E-03  2.33e-03  2.59e-02  kx13  1 0 1
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l13kh038  log factor  7.7740837E-03  2.33e-03  2.59e-02  kx13  1 0 1
l13kh039  log factor  7.8000934E-03  2.33e-03  2.59e-02  kx13  1 0 1
l13kh040  log factor  7.8313650E-03  2.33e-03  2.59e-02  kx13  1 0 1
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l13kh042  log factor  7.7230351E-03  2.33e-03  2.59e-02  kx13  1 0 1
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l13kh045  log factor  7.7788978E-03  2.33e-03  2.59e-02  kx13  1 0 1
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l13kh048  log factor  7.7397919E-03  2.33e-03  2.59e-02  kx13  1 0 1
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l13kh051  log factor  7.7420667E-03  2.33e-03  2.59e-02  kx13  1 0 1
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l13kh068  log factor  5.1911979E-03  2.33e-03  2.59e-02  kx13  1 0 1
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l13kh079  log factor  1.2215162E-02  2.33e-03  2.59e-02  kx13  1 0 1
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l13kh082  log factor  5.8910097E-03  2.33e-03  2.59e-02  kx13  1 0 1
```



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l13kh085  log factor  5.5837654E-03  2.33e-03  2.59e-02  kx13  1 0 1
l13kh086  log factor  7.6731729E-03  2.33e-03  2.59e-02  kx13  1 0 1
l13kh087  log factor  8.1297851E-03  2.33e-03  2.59e-02  kx13  1 0 1
l13kh088  log factor  7.7830520E-03  2.33e-03  2.59e-02  kx13  1 0 1
l13kh089  log factor  7.8040726E-03  2.33e-03  2.59e-02  kx13  1 0 1
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```



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```



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```



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l14kh021  log factor  7.7515504E-03  2.33e-03  2.59e-02  kx14  1 0 1
l14kh022  log factor  7.7849660E-03  2.33e-03  2.59e-02  kx14  1 0 1
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l14kh025  log factor  7.7977423E-03  2.33e-03  2.59e-02  kx14  1 0 1
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l14kh039  log factor  7.7014239E-03  2.33e-03  2.59e-02  kx14  1 0 1
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l14kh046  log factor  7.7919605E-03  2.33e-03  2.59e-02  kx14  1 0 1
l14kh047  log factor  7.7759753E-03  2.33e-03  2.59e-02  kx14  1 0 1
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l14kh052  log factor  7.6967249E-03  2.33e-03  2.59e-02  kx14  1 0 1
```



```
l14kh053  log factor  7.9965884E-03  2.33e-03  2.59e-02  kx14  1 0 1
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l14kh055  log factor  7.9403720E-03  2.33e-03  2.59e-02  kx14  1 0 1
l14kh056  log factor  7.8877734E-03  2.33e-03  2.59e-02  kx14  1 0 1
l14kh057  log factor  7.5486987E-03  2.33e-03  2.59e-02  kx14  1 0 1
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l14kh099  log factor  8.1747972E-03  2.33e-03  2.59e-02  kx14  1 0 1
```



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l14kh100  log factor  1.2625522E-02  2.33e-03  2.59e-02  kx14  1 0 1
l14kh101  log factor  7.9653278E-03  2.33e-03  2.59e-02  kx14  1 0 1
l14kh102  log factor  8.4289755E-03  2.33e-03  2.59e-02  kx14  1 0 1
l14kh103  log factor  7.6284106E-03  2.33e-03  2.59e-02  kx14  1 0 1
l14kh104  log factor  7.9183663E-03  2.33e-03  2.59e-02  kx14  1 0 1
l14kh105  log factor  7.1995309E-03  2.33e-03  2.59e-02  kx14  1 0 1
l14kh106  log factor  5.5661275E-03  2.33e-03  2.59e-02  kx14  1 0 1
l14kh107  log factor  7.4398700E-03  2.33e-03  2.59e-02  kx14  1 0 1
l14kh108  log factor  8.5297302E-03  2.33e-03  2.59e-02  kx14  1 0 1
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l14kh111  log factor  7.8516609E-03  2.33e-03  2.59e-02  kx14  1 0 1
l14kh112  log factor  7.6826391E-03  2.33e-03  2.59e-02  kx14  1 0 1
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l14kh146  log factor  7.6420062E-03  2.33e-03  2.59e-02  kx14  1 0 1
```



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l14kh147  log factor  7.8182000E-03  2.33e-03  2.59e-02  kx14  1 0 1
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```



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l14kh194  log factor  6.0924644E-03  2.33e-03  2.59e-02  kx14  1 0 1
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l15kh011  log factor  3.0247765E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh012  log factor  3.0250498E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh013  log factor  3.0178922E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh014  log factor  3.0187888E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh015  log factor  3.0166979E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh016  log factor  3.0232325E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh017  log factor  3.0187797E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh018  log factor  3.0271310E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh019  log factor  3.0091989E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh020  log factor  3.0235068E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh021  log factor  3.0182439E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh022  log factor  3.0220787E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh023  log factor  3.0165538E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh024  log factor  3.0073020E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh025  log factor  3.0183268E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh026  log factor  3.0168605E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh027  log factor  3.0222002E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh028  log factor  3.0223981E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh029  log factor  3.0209964E-04  6.05e-05  1.51e-03  kx15  1 0 1
```



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l15kh030  log factor  3.0021187E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh031  log factor  2.9925936E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh032  log factor  3.0135157E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh033  log factor  3.0119030E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh034  log factor  3.0454009E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh035  log factor  3.1170921E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh036  log factor  2.9909880E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh037  log factor  3.0002818E-04  6.05e-05  1.51e-03  kx15  1 0 1
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l15kh039  log factor  2.7729199E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh040  log factor  3.0993115E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh041  log factor  2.9418645E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh042  log factor  1.4113028E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh043  log factor  6.8396216E-05  6.05e-05  1.51e-03  kx15  1 0 1
l15kh044  log factor  2.9042244E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh045  log factor  2.7677062E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh046  log factor  3.9800920E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh047  log factor  2.1592717E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh048  log factor  1.2136602E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh049  log factor  2.8993704E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh050  log factor  3.1218554E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh051  log factor  1.7202380E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh052  log factor  2.6744822E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh053  log factor  3.2358058E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh054  log factor  2.5577987E-04  6.05e-05  1.51e-03  kx15  1 0 1
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l15kh056  log factor  2.5652721E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh057  log factor  3.0329047E-04  6.05e-05  1.51e-03  kx15  1 0 1
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l15kh060  log factor  2.9162329E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh061  log factor  2.5206421E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh062  log factor  3.0921371E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh063  log factor  3.1437300E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh064  log factor  2.8194076E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh065  log factor  2.6976283E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh066  log factor  2.8946195E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh067  log factor  1.6658984E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh068  log factor  2.9905616E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh069  log factor  1.3688164E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh070  log factor  2.8894168E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh071  log factor  2.9576206E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh072  log factor  2.9663034E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh073  log factor  2.9507497E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh074  log factor  2.6897180E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh075  log factor  2.8863250E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh076  log factor  2.9503449E-04  6.05e-05  1.51e-03  kx15  1 0 1
```



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l15kh077  log factor  2.9732739E-04  6.05e-05  1.51e-03  kx15  1 0 1
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l15kh079  log factor  2.9878208E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh080  log factor  3.0257595E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh081  log factor  3.0226112E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh082  log factor  3.0368236E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh083  log factor  2.7902299E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh084  log factor  2.9714832E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh085  log factor  3.0349134E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh086  log factor  2.7372358E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh087  log factor  2.9942334E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh088  log factor  3.0674275E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh089  log factor  3.0266959E-04  6.05e-05  1.51e-03  kx15  1 0 1
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l15kh091  log factor  2.9869510E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh092  log factor  2.9513274E-04  6.05e-05  1.51e-03  kx15  1 0 1
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l15kh094  log factor  2.8541201E-04  6.05e-05  1.51e-03  kx15  1 0 1
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l15kh102  log factor  2.7382225E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh103  log factor  2.8274689E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh104  log factor  8.7891761E-05  6.05e-05  1.51e-03  kx15  1 0 1
l15kh105  log factor  2.9729339E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh106  log factor  2.9945958E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh107  log factor  3.1292106E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh108  log factor  3.2409522E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh109  log factor  5.0989689E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh110  log factor  3.0076762E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh111  log factor  3.0865995E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh112  log factor  3.6335595E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh113  log factor  3.5084379E-04  6.05e-05  1.51e-03  kx15  1 0 1
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l15kh120  log factor  2.1737828E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh121  log factor  1.0259039E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh122  log factor  2.1355936E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh123  log factor  2.8449527E-04  6.05e-05  1.51e-03  kx15  1 0 1
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l15kh124  log factor  6.8664087E-05  6.05e-05  1.51e-03  kx15  1 0 1
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l15kh126  log factor  6.0500000E-05  6.05e-05  1.51e-03  kx15  1 0 1
l15kh127  log factor  6.0500000E-05  6.05e-05  1.51e-03  kx15  1 0 1
l15kh128  log factor  2.4127662E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh129  log factor  2.2202546E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh130  log factor  2.7439652E-04  6.05e-05  1.51e-03  kx15  1 0 1
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l15kh140  log factor  2.9443896E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh141  log factor  2.0047966E-04  6.05e-05  1.51e-03  kx15  1 0 1
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l15kh143  log factor  2.2287803E-04  6.05e-05  1.51e-03  kx15  1 0 1
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l15kh152  log factor  3.8908145E-04  6.05e-05  1.51e-03  kx15  1 0 1
l15kh153  log factor  6.0878077E-04  6.05e-05  1.51e-03  kx15  1 0 1
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l15kh170  log factor  2.9764387E-04  6.05e-05  1.51e-03  kx15  1 0 1
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l15kh171  log factor  2.6375317E-04  6.05e-05  1.51e-03  kx15  1 0 1
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l15kh173  log factor  6.0500000E-05  6.05e-05  1.51e-03  kx15  1 0 1
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l16kh002  log factor  7.7677316E-03  2.33e-03  2.59e-02  kx16  1 0 1
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l16kh008  log factor  7.7540046E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh009  log factor  7.7979284E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh010  log factor  7.9391548E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh011  log factor  7.7700017E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh012  log factor  8.5132139E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh013  log factor  7.9765835E-03  2.33e-03  2.59e-02  kx16  1 0 1
```



```
l16kh014  log factor  8.3335320E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh015  log factor  7.8800383E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh016  log factor  1.1694371E-02  2.33e-03  2.59e-02  kx16  1 0 1
l16kh017  log factor  1.7751755E-02  2.33e-03  2.59e-02  kx16  1 0 1
l16kh018  log factor  1.1167325E-02  2.33e-03  2.59e-02  kx16  1 0 1
l16kh019  log factor  1.1775244E-02  2.33e-03  2.59e-02  kx16  1 0 1
l16kh020  log factor  1.2989232E-02  2.33e-03  2.59e-02  kx16  1 0 1
l16kh021  log factor  7.8141363E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh022  log factor  8.4858454E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh023  log factor  9.0494673E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh024  log factor  8.3164916E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh025  log factor  6.2739204E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh026  log factor  7.8196043E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh027  log factor  7.8436200E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh028  log factor  7.7723877E-03  2.33e-03  2.59e-02  kx16  1 0 1
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l16kh030  log factor  7.8448004E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh031  log factor  7.8028945E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh032  log factor  7.7863401E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh033  log factor  7.7473133E-03  2.33e-03  2.59e-02  kx16  1 0 1
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l16kh035  log factor  7.7361696E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh036  log factor  7.7861314E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh037  log factor  7.8106885E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh038  log factor  7.8349281E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh039  log factor  7.6616316E-03  2.33e-03  2.59e-02  kx16  1 0 1
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l16kh044  log factor  7.4530219E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh045  log factor  1.1063055E-02  2.33e-03  2.59e-02  kx16  1 0 1
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l16kh047  log factor  9.2779383E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh048  log factor  7.5613370E-03  2.33e-03  2.59e-02  kx16  1 0 1
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l16kh050  log factor  7.7282299E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh051  log factor  7.6905896E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh052  log factor  7.8104662E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh053  log factor  7.7211859E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh054  log factor  7.7398959E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh055  log factor  7.7784917E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh056  log factor  7.7922531E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh057  log factor  7.7459817E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh058  log factor  7.1312255E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh059  log factor  7.7259107E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh060  log factor  7.7959569E-03  2.33e-03  2.59e-02  kx16  1 0 1
```



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l16kh063  log factor  7.7609533E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh064  log factor  7.8294273E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh065  log factor  7.7292680E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh066  log factor  7.7968315E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh067  log factor  7.7731598E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh068  log factor  7.7941929E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh069  log factor  7.7923458E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh070  log factor  7.8375385E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh071  log factor  7.9411576E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh072  log factor  7.7531454E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh073  log factor  7.8411897E-03  2.33e-03  2.59e-02  kx16  1 0 1
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l16kh101  log factor  7.7730413E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh102  log factor  7.7424359E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh103  log factor  7.7537157E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh104  log factor  7.7594799E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh105  log factor  8.5797898E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh106  log factor  7.5441035E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh107  log factor  7.8409860E-03  2.33e-03  2.59e-02  kx16  1 0 1
```

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l16kh108  log factor  7.7048708E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh109  log factor  8.2706390E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh110  log factor  7.7826885E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh111  log factor  7.7252476E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh112  log factor  3.5234658E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh113  log factor  7.4055420E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh114  log factor  6.8467003E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh115  log factor  7.8563665E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh116  log factor  7.8170082E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh117  log factor  6.0736700E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh118  log factor  5.1542620E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh119  log factor  8.1658726E-03  2.33e-03  2.59e-02  kx16  1 0 1
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l16kh122  log factor  5.3544995E-03  2.33e-03  2.59e-02  kx16  1 0 1
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l16kh124  log factor  7.9840982E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh125  log factor  8.9365233E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh126  log factor  8.1892855E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh127  log factor  1.1406696E-02  2.33e-03  2.59e-02  kx16  1 0 1
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l16kh129  log factor  8.5816815E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh130  log factor  7.1579758E-03  2.33e-03  2.59e-02  kx16  1 0 1
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l16kh136  log factor  6.3939685E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh137  log factor  8.2654959E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh138  log factor  7.3769173E-03  2.33e-03  2.59e-02  kx16  1 0 1
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l16kh140  log factor  7.4854751E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh141  log factor  7.6420827E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh142  log factor  1.0117081E-02  2.33e-03  2.59e-02  kx16  1 0 1
l16kh143  log factor  9.0243069E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh144  log factor  8.2071064E-03  2.33e-03  2.59e-02  kx16  1 0 1
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l16kh151  log factor  4.2128322E-03  2.33e-03  2.59e-02  kx16  1 0 1
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l16kh153  log factor  7.7979765E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh154  log factor  7.3828512E-03  2.33e-03  2.59e-02  kx16  1 0 1
```



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l16kh155  log factor  7.7793747E-03  2.33e-03  2.59e-02  kx16  1 0 1
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l16kh157  log factor  6.4755306E-03  2.33e-03  2.59e-02  kx16  1 0 1
l16kh158  log factor  7.9688231E-03  2.33e-03  2.59e-02  kx16  1 0 1
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l16kh163  log factor  7.7734034E-03  2.33e-03  2.59e-02  kx16  1 0 1
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l16kh172  log factor  9.5083745E-03  2.33e-03  2.59e-02  kx16  1 0 1
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l16kh191  log factor  7.6928093E-03  2.33e-03  2.59e-02  kx16  1 0 1
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l17kh004  log factor  3.0157492E-03  6.05e-04  1.51e-02  kx17  1 0 1
l17kh005  log factor  3.0334249E-03  6.05e-04  1.51e-02  kx17  1 0 1
l17kh006  log factor  3.0200384E-03  6.05e-04  1.51e-02  kx17  1 0 1
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l17kh008  log factor  3.0285020E-03  6.05e-04  1.51e-02  kx17  1 0 1
l17kh009  log factor  2.9996948E-03  6.05e-04  1.51e-02  kx17  1 0 1
l17kh010  log factor  3.0444484E-03  6.05e-04  1.51e-02  kx17  1 0 1
```



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l17kh011  log factor  3.0145381E-03  6.05e-04  1.51e-02  kx17  1 0 1
l17kh012  log factor  3.0194148E-03  6.05e-04  1.51e-02  kx17  1 0 1
l17kh013  log factor  3.0191553E-03  6.05e-04  1.51e-02  kx17  1 0 1
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l17kh015  log factor  3.0019436E-03  6.05e-04  1.51e-02  kx17  1 0 1
l17kh016  log factor  2.7331793E-03  6.05e-04  1.51e-02  kx17  1 0 1
l17kh017  log factor  3.0041608E-03  6.05e-04  1.51e-02  kx17  1 0 1
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l17kh024  log factor  2.9886554E-03  6.05e-04  1.51e-02  kx17  1 0 1
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```



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l17kh064  log factor  2.9516700E-03  6.05e-04  1.51e-02  kx17  1 0 1
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l17kh070  log factor  4.1314918E-03  6.05e-04  1.51e-02  kx17  1 0 1
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l17kh103  log factor  1.7339390E-03  6.05e-04  1.51e-02  kx17  1 0 1
l17kh104  log factor  5.3379820E-03  6.05e-04  1.51e-02  kx17  1 0 1
```



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```



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```



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l18kh068  log factor  6.9121015E-02  1.38e-02  3.46e-01  kx18  1 0 1
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l18kh077  log factor  6.8755263E-02  1.38e-02  3.46e-01  kx18  1 0 1
l18kh078  log factor  6.8804518E-02  1.38e-02  3.46e-01  kx18  1 0 1
l18kh079  log factor  6.9276017E-02  1.38e-02  3.46e-01  kx18  1 0 1
l18kh080  log factor  6.9053464E-02  1.38e-02  3.46e-01  kx18  1 0 1
l18kh081  log factor  6.9362876E-02  1.38e-02  3.46e-01  kx18  1 0 1
l18kh082  log factor  7.2516929E-02  1.38e-02  3.46e-01  kx18  1 0 1
l18kh083  log factor  6.8406862E-02  1.38e-02  3.46e-01  kx18  1 0 1
l18kh084  log factor  0.1130914      1.38e-02  3.46e-01  kx18  1 0 1
l18kh085  log factor  5.9902149E-02  1.38e-02  3.46e-01  kx18  1 0 1
l18kh086  log factor  7.1067011E-02  1.38e-02  3.46e-01  kx18  1 0 1
l18kh087  log factor  7.2653879E-02  1.38e-02  3.46e-01  kx18  1 0 1
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l18kh090  log factor  6.6702756E-02  1.38e-02  3.46e-01  kx18  1 0 1
l18kh091  log factor  7.2190422E-02  1.38e-02  3.46e-01  kx18  1 0 1
l18kh092  log factor  6.9988928E-02  1.38e-02  3.46e-01  kx18  1 0 1
```



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l18kh093  log factor  6.5258726E-02  1.38e-02  3.46e-01  kx18  1 0 1
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l18kh097  log factor  7.1039206E-02  1.38e-02  3.46e-01  kx18  1 0 1
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l18kh099  log factor  0.1160421      1.38e-02  3.46e-01  kx18  1 0 1
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l19kh019  log factor  3.0152997E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh020  log factor  3.0236834E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh021  log factor  3.0279690E-03  6.05e-04  1.51e-02  kx19  1 0 1
```



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l19kh025  log factor  3.0145900E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh026  log factor  2.9543695E-03  6.05e-04  1.51e-02  kx19  1 0 1
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l19kh028  log factor  2.8282590E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh029  log factor  2.9498567E-03  6.05e-04  1.51e-02  kx19  1 0 1
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l19kh086  log factor  2.9250972E-03  6.05e-04  1.51e-02  kx19  1 0 1
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```



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l19kh116  log factor  2.1424275E-03  6.05e-04  1.51e-02  kx19  1 0 1
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l19kh150  log factor  3.3927049E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh151  log factor  2.8539205E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh152  log factor  3.0851582E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh153  log factor  2.9420184E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh154  log factor  3.0523720E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh155  log factor  3.1048916E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh156  log factor  3.3183910E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh157  log factor  2.7228370E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh158  log factor  3.6362600E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh159  log factor  4.8816851E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh160  log factor  2.4728977E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh161  log factor  2.5460365E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh162  log factor  4.5850366E-03  6.05e-04  1.51e-02  kx19  1 0 1
```



```
l19kh163  log factor  2.4642724E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh164  log factor  2.0554472E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh165  log factor  3.0091439E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh166  log factor  3.0168491E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh167  log factor  3.0234812E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh168  log factor  2.9512197E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh169  log factor  2.9969052E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh170  log factor  2.9983261E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh171  log factor  3.0025079E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh172  log factor  2.9665638E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh173  log factor  2.9996589E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh174  log factor  2.9826729E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh175  log factor  2.3611450E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh176  log factor  3.0248822E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh177  log factor  3.0245836E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh178  log factor  2.9912925E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh179  log factor  3.0185247E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh180  log factor  3.1704302E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh181  log factor  3.0097489E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh182  log factor  2.9778023E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh183  log factor  2.9968156E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh184  log factor  3.0159578E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh185  log factor  3.0398655E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh186  log factor  2.9269322E-03  6.05e-04  1.51e-02  kx19  1 0 1
l19kh187  log factor  3.0082301E-03  6.05e-04  1.51e-02  kx19  1 0 1
l20kh001  log factor  7.5188051E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh002  log factor  7.8519664E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh003  log factor  7.7817188E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh004  log factor  7.7782380E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh005  log factor  7.8201105E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh006  log factor  7.9077955E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh007  log factor  7.8050522E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh008  log factor  7.7831170E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh009  log factor  7.8273179E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh010  log factor  7.9096529E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh011  log factor  7.9517322E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh012  log factor  7.7279726E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh013  log factor  7.7478049E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh014  log factor  7.5869917E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh015  log factor  7.8263807E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh016  log factor  7.2359503E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh017  log factor  8.0682646E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh018  log factor  7.7710070E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh019  log factor  7.8322163E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh020  log factor  7.8817212E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh021  log factor  7.8737240E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh022  log factor  7.7738052E-03  2.33e-03  2.59e-02  kx20  1 0 1
```



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l20kh023  log factor  7.7660729E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh024  log factor  7.7793724E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh025  log factor  7.7608804E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh026  log factor  7.7671748E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh027  log factor  7.7787367E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh028  log factor  7.7771418E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh029  log factor  7.7727516E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh030  log factor  7.7690416E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh031  log factor  7.7661099E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh032  log factor  7.7635529E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh033  log factor  7.7815226E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh034  log factor  7.7768077E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh035  log factor  7.7715602E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh036  log factor  7.7807010E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh037  log factor  7.7676801E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh038  log factor  7.7506105E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh039  log factor  7.7727590E-03  2.33e-03  2.59e-02  kx20  1 0 1
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l20kh041  log factor  7.7612158E-03  2.33e-03  2.59e-02  kx20  1 0 1
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l20kh047  log factor  7.5391268E-03  2.33e-03  2.59e-02  kx20  1 0 1
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l20kh051  log factor  7.7788773E-03  2.33e-03  2.59e-02  kx20  1 0 1
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l20kh055  log factor  8.1908853E-03  2.33e-03  2.59e-02  kx20  1 0 1
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l20kh057  log factor  6.7787677E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh058  log factor  7.7680338E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh059  log factor  6.5639372E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh060  log factor  7.7685897E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh061  log factor  7.7627273E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh062  log factor  7.7612979E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh063  log factor  7.5073879E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh064  log factor  7.8229914E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh065  log factor  7.7515608E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh066  log factor  7.7426717E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh067  log factor  7.7333961E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh068  log factor  7.7967912E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh069  log factor  7.7756293E-03  2.33e-03  2.59e-02  kx20  1 0 1
```



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l20kh070  log factor  7.7729652E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh071  log factor  7.7082450E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh072  log factor  7.7792401E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh073  log factor  7.7860973E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh074  log factor  7.7731739E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh075  log factor  7.7646255E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh076  log factor  7.8064382E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh077  log factor  7.7704179E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh078  log factor  7.7654769E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh079  log factor  7.7710505E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh080  log factor  7.7602661E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh081  log factor  7.8563371E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh082  log factor  7.6972342E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh083  log factor  7.9285229E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh084  log factor  7.8215515E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh085  log factor  7.8010747E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh086  log factor  7.4427043E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh087  log factor  6.9868331E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh088  log factor  7.7021942E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh089  log factor  7.6134484E-03  2.33e-03  2.59e-02  kx20  1 0 1
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l20kh091  log factor  7.7667838E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh092  log factor  7.7852160E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh093  log factor  7.7679026E-03  2.33e-03  2.59e-02  kx20  1 0 1
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l20kh097  log factor  7.9529620E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh098  log factor  8.8848306E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh099  log factor  8.4754617E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh100  log factor  7.8623833E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh101  log factor  8.9946386E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh102  log factor  4.7881992E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh103  log factor  1.0228746E-02  2.33e-03  2.59e-02  kx20  1 0 1
l20kh104  log factor  4.3023725E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh105  log factor  8.1059271E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh106  log factor  7.6513408E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh107  log factor  9.6906365E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh108  log factor  1.1060902E-02  2.33e-03  2.59e-02  kx20  1 0 1
l20kh109  log factor  7.9789589E-03  2.33e-03  2.59e-02  kx20  1 0 1
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l20kh111  log factor  7.9864795E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh112  log factor  8.2703998E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh113  log factor  7.9866458E-03  2.33e-03  2.59e-02  kx20  1 0 1
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l20kh116  log factor  7.7975166E-03  2.33e-03  2.59e-02  kx20  1 0 1
```



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l20kh117  log factor  7.7875958E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh118  log factor  7.7849286E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh119  log factor  7.7793538E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh120  log factor  7.7578546E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh121  log factor  7.7060453E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh122  log factor  7.8170673E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh123  log factor  7.7536379E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh124  log factor  8.0276955E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh125  log factor  7.8865010E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh126  log factor  7.4769981E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh127  log factor  8.5060415E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh128  log factor  8.0899288E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh129  log factor  1.0672449E-02  2.33e-03  2.59e-02  kx20  1 0 1
l20kh130  log factor  7.7304768E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh131  log factor  1.1610061E-02  2.33e-03  2.59e-02  kx20  1 0 1
l20kh132  log factor  1.0343351E-02  2.33e-03  2.59e-02  kx20  1 0 1
l20kh133  log factor  7.7883606E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh134  log factor  7.8007366E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh135  log factor  7.7684610E-03  2.33e-03  2.59e-02  kx20  1 0 1
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l20kh137  log factor  7.7751654E-03  2.33e-03  2.59e-02  kx20  1 0 1
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l20kh143  log factor  3.9402114E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh144  log factor  8.6200367E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh145  log factor  9.1507274E-03  2.33e-03  2.59e-02  kx20  1 0 1
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l20kh147  log factor  7.7955846E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh148  log factor  7.7574821E-03  2.33e-03  2.59e-02  kx20  1 0 1
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l20kh152  log factor  7.6832771E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh153  log factor  7.6748574E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh154  log factor  7.8190641E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh155  log factor  7.9383620E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh156  log factor  7.8534991E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh157  log factor  7.9153760E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh158  log factor  8.0666484E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh159  log factor  7.8677163E-03  2.33e-03  2.59e-02  kx20  1 0 1
l20kh160  log factor  8.1338981E-03  2.33e-03  2.59e-02  kx20  1 0 1
l21kh001  log factor  8.5037597E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh002  log factor  8.4698461E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh003  log factor  8.4801371E-04  1.15e-04  6.48e-03  kx21  1 0 1
```



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l21kh004  log factor  8.4681512E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh005  log factor  8.5053956E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh006  log factor  8.5891996E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh007  log factor  8.6262725E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh008  log factor  8.6361237E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh009  log factor  8.6375062E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh010  log factor  8.6234148E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh011  log factor  8.5617993E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh012  log factor  8.6901614E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh013  log factor  8.6558432E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh014  log factor  8.6267006E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh015  log factor  8.6331574E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh016  log factor  8.5849091E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh017  log factor  7.7626271E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh018  log factor  8.2513797E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh019  log factor  8.3431188E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh020  log factor  8.1317405E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh021  log factor  8.3713563E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh022  log factor  8.5557218E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh023  log factor  8.3962416E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh024  log factor  8.5647401E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh025  log factor  8.3848852E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh026  log factor  8.4581243E-04  1.15e-04  6.48e-03  kx21  1 0 1
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l21kh029  log factor  8.5440883E-04  1.15e-04  6.48e-03  kx21  1 0 1
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l21kh032  log factor  8.3300122E-04  1.15e-04  6.48e-03  kx21  1 0 1
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l21kh035  log factor  8.5228803E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh036  log factor  8.7071283E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh037  log factor  8.6921810E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh038  log factor  8.6519232E-04  1.15e-04  6.48e-03  kx21  1 0 1
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l21kh040  log factor  8.6306687E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh041  log factor  8.6505828E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh042  log factor  8.6361056E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh043  log factor  8.7010372E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh044  log factor  8.7134896E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh045  log factor  8.7390697E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh046  log factor  8.7785942E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh047  log factor  8.6429309E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh048  log factor  8.4555509E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh049  log factor  8.5212283E-04  1.15e-04  6.48e-03  kx21  1 0 1
l21kh050  log factor  8.7219318E-04  1.15e-04  6.48e-03  kx21  1 0 1
```

l21kh051	log factor	8.4856996E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh052	log factor	8.5458260E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh053	log factor	8.5378279E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh054	log factor	8.5592014E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh055	log factor	8.6074363E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh056	log factor	8.5626849E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh057	log factor	8.4475714E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh058	log factor	8.1949145E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh059	log factor	7.2546705E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh060	log factor	7.3517931E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh061	log factor	7.6503350E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh062	log factor	7.7792934E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh063	log factor	8.0837309E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh064	log factor	5.3811795E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh065	log factor	3.8703224E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh066	log factor	4.5922988E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh067	log factor	7.7709899E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh068	log factor	8.0017794E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh069	log factor	8.4833011E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh070	log factor	8.4670990E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh071	log factor	8.6405780E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh072	log factor	8.3443641E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh073	log factor	8.6315106E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh074	log factor	8.5798070E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh075	log factor	7.3243348E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh076	log factor	4.1597340E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh077	log factor	7.8512577E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh078	log factor	3.2031328E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh079	log factor	3.9062252E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh080	log factor	7.8844455E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh081	log factor	8.3404900E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh082	log factor	8.6390177E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh083	log factor	9.3311743E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh084	log factor	6.3575222E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh085	log factor	8.7470438E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh086	log factor	5.5388173E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh087	log factor	1.3337977E-03	1.15e-04	6.48e-03	kx21	1 0 1
l21kh088	log factor	5.3069111E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh089	log factor	5.9962926E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh090	log factor	6.2637611E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh091	log factor	5.1602931E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh092	log factor	5.5132346E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh093	log factor	1.0411429E-03	1.15e-04	6.48e-03	kx21	1 0 1
l21kh094	log factor	7.6361055E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh095	log factor	8.3532209E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh096	log factor	8.4112520E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh097	log factor	7.2857392E-04	1.15e-04	6.48e-03	kx21	1 0 1

l21kh098	log factor	8.5287445E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh099	log factor	8.4912895E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh100	log factor	8.0767609E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh101	log factor	6.6206085E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh102	log factor	4.4808964E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh103	log factor	3.6552729E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh104	log factor	2.7493089E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh105	log factor	3.9188600E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh106	log factor	6.0804327E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh107	log factor	6.9721726E-04	1.15e-04	6.48e-03	kx21	1 0 1
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l21kh109	log factor	8.2583274E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh110	log factor	7.9051924E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh111	log factor	7.7038134E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh112	log factor	7.2022029E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh113	log factor	8.3517647E-04	1.15e-04	6.48e-03	kx21	1 0 1
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l21kh115	log factor	8.4796757E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh116	log factor	8.5670574E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh117	log factor	8.5286995E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh118	log factor	1.1697760E-03	1.15e-04	6.48e-03	kx21	1 0 1
l21kh119	log factor	8.4481950E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh120	log factor	9.9605565E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh121	log factor	8.6623272E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh122	log factor	8.7352828E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh123	log factor	7.8401777E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh124	log factor	9.1516129E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh125	log factor	5.8001793E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh126	log factor	5.1596020E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh127	log factor	8.0004976E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh128	log factor	8.5040086E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh129	log factor	4.5872882E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh130	log factor	9.5323331E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh131	log factor	9.8668745E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh132	log factor	9.1862074E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh133	log factor	8.7005101E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh134	log factor	9.4358060E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh135	log factor	8.9178114E-04	1.15e-04	6.48e-03	kx21	1 0 1
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l21kh137	log factor	9.7389197E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh138	log factor	2.8944007E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh139	log factor	4.2581058E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh140	log factor	7.9312307E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh141	log factor	8.3834974E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh142	log factor	8.2948230E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh143	log factor	8.7060069E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh144	log factor	9.0358736E-04	1.15e-04	6.48e-03	kx21	1 0 1

l21kh145	log factor	8.5496076E-04	1.15e-04	6.48e-03	kx21	1 0 1
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l21kh147	log factor	8.6199739E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh148	log factor	8.6360318E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh149	log factor	8.4398612E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh150	log factor	9.5926215E-04	1.15e-04	6.48e-03	kx21	1 0 1
l21kh151	log factor	1.0624522E-03	1.15e-04	6.48e-03	kx21	1 0 1
l21kh152	log factor	1.3303814E-03	1.15e-04	6.48e-03	kx21	1 0 1
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l22kh001	log factor	3.0405797E-03	6.05e-04	1.51e-02	kx22	1 0 1
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l22kh003	log factor	3.0445896E-03	6.05e-04	1.51e-02	kx22	1 0 1
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l22kh008	log factor	3.0295273E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh009	log factor	3.0030670E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh010	log factor	3.0531075E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh011	log factor	2.9978613E-03	6.05e-04	1.51e-02	kx22	1 0 1
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l22kh013	log factor	2.8523322E-03	6.05e-04	1.51e-02	kx22	1 0 1
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l22kh016	log factor	3.0130430E-03	6.05e-04	1.51e-02	kx22	1 0 1
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l22kh026	log factor	2.8358919E-03	6.05e-04	1.51e-02	kx22	1 0 1
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l22kh029	log factor	2.8062729E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh030	log factor	2.8334632E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh031	log factor	3.7382500E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh032	log factor	4.3203375E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh033	log factor	3.6679188E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh034	log factor	1.3893673E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh035	log factor	6.8108747E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh036	log factor	6.3604269E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh037	log factor	2.5024981E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh038	log factor	3.3305859E-03	6.05e-04	1.51e-02	kx22	1 0 1

l22kh039	log factor	3.3061641E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh040	log factor	3.0842420E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh041	log factor	3.2910617E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh042	log factor	3.0859164E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh043	log factor	2.9847661E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh044	log factor	3.0660700E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh045	log factor	2.8488057E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh046	log factor	2.8434665E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh047	log factor	2.8484152E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh048	log factor	3.0773509E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh049	log factor	2.9998965E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh050	log factor	3.9527783E-03	6.05e-04	1.51e-02	kx22	1 0 1
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l22kh052	log factor	3.3811664E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh053	log factor	2.9283389E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh054	log factor	2.8374535E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh055	log factor	3.0110193E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh056	log factor	3.0281121E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh057	log factor	2.7037103E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh058	log factor	3.0389228E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh059	log factor	3.2106746E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh060	log factor	3.1236171E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh061	log factor	3.2226491E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh062	log factor	3.0980777E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh063	log factor	3.2481765E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh064	log factor	2.3385041E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh065	log factor	2.8279652E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh066	log factor	1.9043879E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh067	log factor	1.5669622E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh068	log factor	6.0500000E-04	6.05e-04	1.51e-02	kx22	1 0 1
l22kh069	log factor	2.2750845E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh070	log factor	3.2612808E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh071	log factor	2.9130275E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh072	log factor	3.0627202E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh073	log factor	2.7804959E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh074	log factor	2.6142177E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh075	log factor	3.3617232E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh076	log factor	2.8462220E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh077	log factor	1.7135882E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh078	log factor	2.7104062E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh079	log factor	2.0534454E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh080	log factor	3.1377996E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh081	log factor	2.3377580E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh082	log factor	1.3095544E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh083	log factor	2.2893036E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh084	log factor	1.6298699E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh085	log factor	2.8724034E-03	6.05e-04	1.51e-02	kx22	1 0 1

l22kh086	log factor	2.9423813E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh087	log factor	2.9851034E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh088	log factor	3.1264658E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh089	log factor	2.7810647E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh090	log factor	3.0576153E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh091	log factor	3.0321512E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh092	log factor	2.9725872E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh093	log factor	3.0040113E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh094	log factor	3.0169742E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh095	log factor	3.0339572E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh096	log factor	3.0426011E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh097	log factor	3.0331409E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh098	log factor	3.0373130E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh099	log factor	3.0227007E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh100	log factor	2.9953057E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh101	log factor	3.0291478E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh102	log factor	3.0321471E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh103	log factor	2.9882612E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh104	log factor	3.0864160E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh105	log factor	3.0160401E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh106	log factor	3.0225111E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh107	log factor	2.9768452E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh108	log factor	3.0114039E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh109	log factor	3.0500204E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh110	log factor	3.0962816E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh111	log factor	2.9179790E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh112	log factor	2.8484137E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh113	log factor	3.0435632E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh114	log factor	3.0095453E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh115	log factor	1.2572313E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh116	log factor	2.6502077E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh117	log factor	3.2221419E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh118	log factor	1.9842532E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh119	log factor	4.7581756E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh120	log factor	3.6711486E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh121	log factor	3.0046998E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh122	log factor	2.9209839E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh123	log factor	2.9536693E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh124	log factor	3.0248497E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh125	log factor	3.0122990E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh126	log factor	3.0214581E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh127	log factor	3.0199365E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh128	log factor	3.0231320E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh129	log factor	3.0065807E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh130	log factor	2.9984684E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh131	log factor	3.0781932E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh132	log factor	3.0144581E-03	6.05e-04	1.51e-02	kx22	1 0 1

l22kh133	log factor	2.5646563E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh134	log factor	2.9660978E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh135	log factor	2.3908962E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh136	log factor	2.7665435E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh137	log factor	2.8915697E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh138	log factor	3.1409320E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh139	log factor	2.9899052E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh140	log factor	3.0173813E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh141	log factor	3.0375426E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh142	log factor	3.0183647E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh143	log factor	3.0439669E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh144	log factor	3.0271657E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh145	log factor	2.9866001E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh146	log factor	2.9706436E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh147	log factor	3.0258811E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh148	log factor	3.0016532E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh149	log factor	2.8542867E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh150	log factor	3.0734206E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh151	log factor	2.9675520E-03	6.05e-04	1.51e-02	kx22	1 0 1
l22kh152	log factor	3.0714978E-03	6.05e-04	1.51e-02	kx22	1 0 1
l23kh001	log factor	3.0600239E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh002	log factor	3.0263639E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh003	log factor	3.0237582E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh004	log factor	3.0282017E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh005	log factor	3.0245299E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh006	log factor	3.0760563E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh007	log factor	3.0488596E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh008	log factor	3.0445376E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh009	log factor	3.0673724E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh010	log factor	3.0658359E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh011	log factor	3.0919788E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh012	log factor	3.0658200E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh013	log factor	3.0148849E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh014	log factor	3.0532658E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh015	log factor	3.1370812E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh016	log factor	3.1159226E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh017	log factor	3.1036523E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh018	log factor	3.0482018E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh019	log factor	3.0902476E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh020	log factor	3.1592225E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh021	log factor	3.0260566E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh022	log factor	3.0242586E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh023	log factor	3.0220212E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh024	log factor	3.0206589E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh025	log factor	3.0255064E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh026	log factor	3.0282770E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh027	log factor	3.0253510E-02	9.07e-03	1.01e-01	kx23	1 0 1

l23kh028	log factor	3.0208465E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh029	log factor	3.0236561E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh030	log factor	3.0241753E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh031	log factor	3.0234772E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh032	log factor	3.0195172E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh033	log factor	3.0173381E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh034	log factor	3.0223954E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh035	log factor	3.0181538E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh036	log factor	3.0342896E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh037	log factor	3.0254947E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh038	log factor	2.9969236E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh039	log factor	3.0181057E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh040	log factor	3.0413751E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh041	log factor	3.0668039E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh042	log factor	3.0136028E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh043	log factor	3.0600593E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh044	log factor	3.1856204E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh045	log factor	3.1012719E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh046	log factor	2.9790613E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh047	log factor	2.9975600E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh048	log factor	2.7483505E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh049	log factor	2.9933834E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh050	log factor	3.0241390E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh051	log factor	3.0250441E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh052	log factor	3.0406489E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh053	log factor	3.0088012E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh054	log factor	3.0599012E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh055	log factor	3.0578970E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh056	log factor	3.0172642E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh057	log factor	3.0422410E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh058	log factor	3.0476333E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh059	log factor	3.0147145E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh060	log factor	3.0780345E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh061	log factor	3.0066683E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh062	log factor	3.0193035E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh063	log factor	3.0297564E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh064	log factor	3.0196164E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh065	log factor	3.0231555E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh066	log factor	3.0357304E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh067	log factor	3.0423508E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh068	log factor	3.0320203E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh069	log factor	3.0460092E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh070	log factor	3.0114368E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh071	log factor	3.1487694E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh072	log factor	2.9968144E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh073	log factor	3.0352339E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh074	log factor	3.0264707E-02	9.07e-03	1.01e-01	kx23	1 0 1

l23kh075	log factor	3.0251703E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh076	log factor	3.0553233E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh077	log factor	3.0212018E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh078	log factor	3.0224414E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh079	log factor	2.9663489E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh080	log factor	3.1108353E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh081	log factor	3.1492166E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh082	log factor	3.8826327E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh083	log factor	3.8624631E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh084	log factor	3.3620623E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh085	log factor	5.0076833E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh086	log factor	2.7377846E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh087	log factor	2.0458030E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh088	log factor	3.5258695E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh089	log factor	3.1927323E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh090	log factor	3.2885320E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh091	log factor	3.0713817E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh092	log factor	3.0262219E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh093	log factor	5.2151438E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh094	log factor	4.7837103E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh095	log factor	2.9259847E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh096	log factor	4.0125755E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh097	log factor	3.4904490E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh098	log factor	3.8367635E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh099	log factor	3.0891297E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh100	log factor	3.3520541E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh101	log factor	3.2851770E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh102	log factor	2.9858266E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh103	log factor	3.0373941E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh104	log factor	3.0213914E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh105	log factor	2.9952266E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh106	log factor	3.2223790E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh107	log factor	3.1483297E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh108	log factor	3.1149685E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh109	log factor	3.6269598E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh110	log factor	5.4433569E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh111	log factor	6.0456025E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh112	log factor	3.8398719E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh113	log factor	3.5777284E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh114	log factor	1.8226718E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh115	log factor	5.2136766E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh116	log factor	5.8620644E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh117	log factor	3.4359949E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh118	log factor	3.2329377E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh119	log factor	2.5232559E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh120	log factor	3.3142921E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh121	log factor	3.0981479E-02	9.07e-03	1.01e-01	kx23	1 0 1

l23kh122	log factor	3.0278952E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh123	log factor	3.0352857E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh124	log factor	3.0549286E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh125	log factor	3.0355899E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh126	log factor	3.0211063E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh127	log factor	3.0223881E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh128	log factor	3.0575860E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh129	log factor	3.0222854E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh130	log factor	3.0352975E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh131	log factor	3.0337130E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh132	log factor	3.0348444E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh133	log factor	3.0406043E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh134	log factor	3.0250225E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh135	log factor	3.0224980E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh136	log factor	3.0409792E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh137	log factor	3.0245413E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh138	log factor	3.2521720E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh139	log factor	3.0229305E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh140	log factor	2.9597150E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh141	log factor	3.0236177E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh142	log factor	3.0567132E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh143	log factor	3.0657001E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh144	log factor	3.0614240E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh145	log factor	3.1438945E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh146	log factor	3.0867094E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh147	log factor	3.1385565E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh148	log factor	3.0931003E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh149	log factor	3.0453421E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh150	log factor	3.0498507E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh151	log factor	3.0592313E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh152	log factor	3.0361739E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh153	log factor	3.0602064E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh154	log factor	3.3713872E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh155	log factor	3.0589635E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh156	log factor	3.4005522E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh157	log factor	2.9657372E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh158	log factor	3.1250545E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh159	log factor	3.0270160E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh160	log factor	3.0379188E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh161	log factor	3.1191064E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh162	log factor	2.9186947E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh163	log factor	3.6680558E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh164	log factor	2.8548609E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh165	log factor	3.2358259E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh166	log factor	3.4080931E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh167	log factor	3.3461754E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh168	log factor	3.1193180E-02	9.07e-03	1.01e-01	kx23	1 0 1

l23kh169	log factor	2.9974127E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh170	log factor	2.9795593E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh171	log factor	2.9956549E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh172	log factor	3.0270428E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh173	log factor	3.0226730E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh174	log factor	3.5548555E-02	9.07e-03	1.01e-01	kx23	1 0 1
l23kh175	log factor	4.4191527E-02	9.07e-03	1.01e-01	kx23	1 0 1
l24kh001	log factor	6.9146267E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh002	log factor	6.9112347E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh003	log factor	6.9334112E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh004	log factor	6.9818490E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh005	log factor	6.9252707E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh006	log factor	6.9150202E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh007	log factor	6.9819309E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh008	log factor	6.9418016E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh009	log factor	6.9372172E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh010	log factor	6.9341165E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh011	log factor	6.9818053E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh012	log factor	6.9919301E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh013	log factor	7.1548715E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh014	log factor	6.9804148E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh015	log factor	6.9036153E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh016	log factor	7.0467490E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh017	log factor	6.8759793E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh018	log factor	7.1280459E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh019	log factor	6.8875977E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh020	log factor	6.8961167E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh021	log factor	6.9164667E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh022	log factor	6.9141991E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh023	log factor	6.9146956E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh024	log factor	6.9152324E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh025	log factor	6.9156118E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh026	log factor	6.9247702E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh027	log factor	7.0755739E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh028	log factor	6.7521550E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh029	log factor	6.6564282E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh030	log factor	2.1278164E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh031	log factor	7.7016375E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh032	log factor	6.7603529E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh033	log factor	7.1439737E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh034	log factor	6.7026625E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh035	log factor	6.5775030E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh036	log factor	7.1099141E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh037	log factor	7.2134696E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh038	log factor	7.2233091E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh039	log factor	7.0225874E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh040	log factor	6.8428034E-02	1.38e-02	3.46e-01	kx24	1 0 1

l24kh041	log factor	6.9229955E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh042	log factor	6.8922221E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh043	log factor	6.9024060E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh044	log factor	6.9033759E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh045	log factor	6.8169815E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh046	log factor	6.9059200E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh047	log factor	7.1226738E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh048	log factor	6.8042879E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh049	log factor	6.5428992E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh050	log factor	6.6195452E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh051	log factor	7.5346635E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh052	log factor	7.3423229E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh053	log factor	8.1834400E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh054	log factor	6.9916026E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh055	log factor	6.9158242E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh056	log factor	6.9088361E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh057	log factor	6.9071763E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh058	log factor	6.9014862E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh059	log factor	6.9036640E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh060	log factor	6.9190221E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh061	log factor	6.9251650E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh062	log factor	7.0018084E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh063	log factor	7.0642597E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh064	log factor	6.8969601E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh065	log factor	6.9006638E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh066	log factor	6.9822067E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh067	log factor	6.8973853E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh068	log factor	6.9167537E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh069	log factor	6.9083736E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh070	log factor	6.9541471E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh071	log factor	6.9871200E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh072	log factor	6.9691800E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh073	log factor	6.9687237E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh074	log factor	6.9132872E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh075	log factor	6.9086800E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh076	log factor	6.9116027E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh077	log factor	6.9066603E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh078	log factor	6.9123095E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh079	log factor	7.1134302E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh080	log factor	7.2901527E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh081	log factor	9.2195858E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh082	log factor	2.4890232E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh083	log factor	0.1062924	1.38e-02	3.46e-01	kx24	1 0 1
l24kh084	log factor	8.7340839E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh085	log factor	0.1003769	1.38e-02	3.46e-01	kx24	1 0 1
l24kh086	log factor	9.3351011E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh087	log factor	7.0290049E-02	1.38e-02	3.46e-01	kx24	1 0 1

l24kh088	log factor	7.1932430E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh089	log factor	0.1207963	1.38e-02	3.46e-01	kx24	1 0 1
l24kh090	log factor	0.1734166	1.38e-02	3.46e-01	kx24	1 0 1
l24kh091	log factor	0.1006313	1.38e-02	3.46e-01	kx24	1 0 1
l24kh092	log factor	9.5195751E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh093	log factor	0.1253295	1.38e-02	3.46e-01	kx24	1 0 1
l24kh094	log factor	0.1498735	1.38e-02	3.46e-01	kx24	1 0 1
l24kh095	log factor	0.1578697	1.38e-02	3.46e-01	kx24	1 0 1
l24kh096	log factor	6.9589764E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh097	log factor	0.1034302	1.38e-02	3.46e-01	kx24	1 0 1
l24kh098	log factor	6.8875244E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh099	log factor	7.3836988E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh100	log factor	6.9138291E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh101	log factor	6.9495941E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh102	log factor	6.8707778E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh103	log factor	6.9347639E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh104	log factor	6.9523402E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh105	log factor	6.1358018E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh106	log factor	6.9939904E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh107	log factor	7.3877979E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh108	log factor	8.9595514E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh109	log factor	0.2359412	1.38e-02	3.46e-01	kx24	1 0 1
l24kh110	log factor	7.8256879E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh111	log factor	7.0845837E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh112	log factor	6.9269387E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh113	log factor	6.9300073E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh114	log factor	6.9150749E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh115	log factor	6.9129274E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh116	log factor	6.9402773E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh117	log factor	6.9438630E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh118	log factor	6.9308804E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh119	log factor	6.9540270E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh120	log factor	6.9295014E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh121	log factor	6.9533232E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh122	log factor	6.9071710E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh123	log factor	7.0071753E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh124	log factor	6.9682128E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh125	log factor	7.2622778E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh126	log factor	6.9107967E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh127	log factor	6.9149114E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh128	log factor	6.8942191E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh129	log factor	3.8981892E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh130	log factor	8.2987601E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh131	log factor	6.2281080E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh132	log factor	0.1360212	1.38e-02	3.46e-01	kx24	1 0 1
l24kh133	log factor	7.0214280E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh134	log factor	6.9925684E-02	1.38e-02	3.46e-01	kx24	1 0 1

l24kh135	log factor	1.5083036E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh136	log factor	7.3183441E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh137	log factor	7.1633563E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh138	log factor	2.4581523E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh139	log factor	4.8528615E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh140	log factor	0.1943123	1.38e-02	3.46e-01	kx24	1 0 1
l24kh141	log factor	0.1008913	1.38e-02	3.46e-01	kx24	1 0 1
l24kh142	log factor	0.1229886	1.38e-02	3.46e-01	kx24	1 0 1
l24kh143	log factor	4.3753798E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh144	log factor	5.7553718E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh145	log factor	6.6994904E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh146	log factor	8.4371632E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh147	log factor	7.9232739E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh148	log factor	6.3609200E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh149	log factor	6.9292795E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh150	log factor	7.0637248E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh151	log factor	7.1973005E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh152	log factor	8.2076259E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh153	log factor	4.1250814E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh154	log factor	5.0051513E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh155	log factor	7.4525740E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh156	log factor	7.0714817E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh157	log factor	6.9922010E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh158	log factor	7.0404322E-02	1.38e-02	3.46e-01	kx24	1 0 1
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l24kh163	log factor	7.0124993E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh164	log factor	6.8261376E-02	1.38e-02	3.46e-01	kx24	1 0 1
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l24kh170	log factor	6.8253295E-02	1.38e-02	3.46e-01	kx24	1 0 1
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l24kh172	log factor	6.9693930E-02	1.38e-02	3.46e-01	kx24	1 0 1
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l24kh174	log factor	6.9438312E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh175	log factor	6.9090529E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh176	log factor	4.6854498E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh177	log factor	6.4961546E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh178	log factor	0.2798718	1.38e-02	3.46e-01	kx24	1 0 1
l24kh179	log factor	5.1358266E-02	1.38e-02	3.46e-01	kx24	1 0 1
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l24kh184	log factor	6.9148203E-02	1.38e-02	3.46e-01	kx24	1 0 1
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l24kh188	log factor	6.8990092E-02	1.38e-02	3.46e-01	kx24	1 0 1
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l24kh191	log factor	6.9024147E-02	1.38e-02	3.46e-01	kx24	1 0 1
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l24kh196	log factor	7.1956310E-02	1.38e-02	3.46e-01	kx24	1 0 1
l24kh197	log factor	6.9123095E-02	1.38e-02	3.46e-01	kx24	1 0 1
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l24kh202	log factor	8.9128592E-02	1.38e-02	3.46e-01	kx24	1 0 1
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l25kh012	log factor	3.0278617E-02	9.07e-03	1.01e-01	kx25	1 0 1
l25kh013	log factor	3.0218220E-02	9.07e-03	1.01e-01	kx25	1 0 1

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l25kh016	log factor	3.0251494E-02	9.07e-03	1.01e-01	kx25	1 0 1
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l25kh105	log factor	3.0228580E-02	9.07e-03	1.01e-01	kx25	1 0 1
l25kh106	log factor	3.0399108E-02	9.07e-03	1.01e-01	kx25	1 0 1
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l25kh108  log factor  3.0347161E-02  9.07e-03  1.01e-01  kx25  1 0 1
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l25kh121  log factor  3.0269776E-02  9.07e-03  1.01e-01  kx25  1 0 1
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l25kh123  log factor  3.0264004E-02  9.07e-03  1.01e-01  kx25  1 0 1
l25kh124  log factor  3.0061402E-02  9.07e-03  1.01e-01  kx25  1 0 1
l25kh125  log factor  3.0267575E-02  9.07e-03  1.01e-01  kx25  1 0 1
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l25kh133  log factor  3.1060974E-02  9.07e-03  1.01e-01  kx25  1 0 1
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l25kh135  log factor  3.6967334E-02  9.07e-03  1.01e-01  kx25  1 0 1
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l25kh140  log factor  3.2978959E-02  9.07e-03  1.01e-01  kx25  1 0 1
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l25kh148  log factor  3.0636879E-02  9.07e-03  1.01e-01  kx25  1 0 1
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l25kh151  log factor  3.0607955E-02  9.07e-03  1.01e-01  kx25  1 0 1
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l25kh153  log factor  2.9260547E-02  9.07e-03  1.01e-01  kx25  1 0 1
l25kh154  log factor  3.0527085E-02  9.07e-03  1.01e-01  kx25  1 0 1
```



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l25kh155  log factor  3.3261448E-02  9.07e-03  1.01e-01  kx25  1 0 1
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l25kh157  log factor  3.3150172E-02  9.07e-03  1.01e-01  kx25  1 0 1
l25kh158  log factor  2.9706854E-02  9.07e-03  1.01e-01  kx25  1 0 1
l25kh159  log factor  0.1010000      9.07e-03  1.01e-01  kx25  1 0 1
l25kh160  log factor  1.5057505E-02  9.07e-03  1.01e-01  kx25  1 0 1
l25kh161  log factor  1.8887734E-02  9.07e-03  1.01e-01  kx25  1 0 1
l25kh162  log factor  0.1010000      9.07e-03  1.01e-01  kx25  1 0 1
l25kh163  log factor  3.9089910E-02  9.07e-03  1.01e-01  kx25  1 0 1
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l25kh169  log factor  3.5316051E-02  9.07e-03  1.01e-01  kx25  1 0 1
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l25kh187  log factor  4.0627153E-02  9.07e-03  1.01e-01  kx25  1 0 1
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l25kh190  log factor  3.7685288E-02  9.07e-03  1.01e-01  kx25  1 0 1
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l25kh201  log factor  3.0783232E-02  9.07e-03  1.01e-01  kx25  1 0 1
```



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```



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```



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l26kh134  log factor  1.2746601E-02  2.33e-03  2.59e-02  kx26  1 0 1
l26kh135  log factor  6.1420250E-03  2.33e-03  2.59e-02  kx26  1 0 1
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l26kh139  log factor  7.8844243E-03  2.33e-03  2.59e-02  kx26  1 0 1
l26kh140  log factor  7.7882007E-03  2.33e-03  2.59e-02  kx26  1 0 1
```



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```



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```



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l27kh156  log factor  8.5573487E-03  2.33e-03  2.59e-02  kx27  1 0 1
l27kh157  log factor  1.1233293E-02  2.33e-03  2.59e-02  kx27  1 0 1
l27kh158  log factor  8.2207966E-03  2.33e-03  2.59e-02  kx27  1 0 1
l27kh159  log factor  6.5567268E-03  2.33e-03  2.59e-02  kx27  1 0 1
l27kh160  log factor  6.6208064E-03  2.33e-03  2.59e-02  kx27  1 0 1
l28kh001  log factor  7.8013697E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh002  log factor  7.8195932E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh003  log factor  7.8014399E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh004  log factor  7.7750124E-03  2.33e-03  2.59e-02  kx28  1 0 1
```



```
l28kh005  log factor  7.7701066E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh006  log factor  7.7842620E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh007  log factor  7.7757853E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh008  log factor  7.7707502E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh009  log factor  7.7837475E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh010  log factor  7.7815902E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh011  log factor  7.7725082E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh012  log factor  7.7774009E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh013  log factor  7.8160818E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh014  log factor  7.8176809E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh015  log factor  7.7806032E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh016  log factor  7.8075081E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh017  log factor  8.0424994E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh018  log factor  8.0633957E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh019  log factor  7.9453158E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh020  log factor  7.9015629E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh021  log factor  7.9309700E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh022  log factor  7.8865922E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh023  log factor  7.8394982E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh024  log factor  7.9034113E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh025  log factor  7.9003029E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh026  log factor  7.7437355E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh027  log factor  7.7304191E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh028  log factor  8.1178798E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh029  log factor  8.1351404E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh030  log factor  1.0990450E-02  2.33e-03  2.59e-02  kx28  1 0 1
l28kh031  log factor  9.3933238E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh032  log factor  7.9017289E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh033  log factor  7.7838819E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh034  log factor  7.7297140E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh035  log factor  8.0639007E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh036  log factor  8.0611629E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh037  log factor  7.6775288E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh038  log factor  7.6981285E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh039  log factor  7.7985447E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh040  log factor  7.7956649E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh041  log factor  7.7821059E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh042  log factor  7.7727379E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh043  log factor  7.7787938E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh044  log factor  7.7729364E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh045  log factor  7.7702467E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh046  log factor  7.7734712E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh047  log factor  7.7717347E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh048  log factor  7.7727069E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh049  log factor  7.7744776E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh050  log factor  7.7840092E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh051  log factor  7.7773046E-03  2.33e-03  2.59e-02  kx28  1 0 1
```



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l28kh052  log factor  7.7729878E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh053  log factor  7.7683781E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh054  log factor  7.7808631E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh055  log factor  7.8015192E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh056  log factor  7.7735842E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh057  log factor  7.7757443E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh058  log factor  7.7714320E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh059  log factor  7.7787541E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh060  log factor  7.7991663E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh061  log factor  7.9825943E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh062  log factor  8.1991776E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh063  log factor  7.6609356E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh064  log factor  9.1562061E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh065  log factor  8.1492273E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh066  log factor  7.7928352E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh067  log factor  8.0164731E-03  2.33e-03  2.59e-02  kx28  1 0 1
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l28kh069  log factor  8.0835692E-03  2.33e-03  2.59e-02  kx28  1 0 1
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l28kh072  log factor  7.7811007E-03  2.33e-03  2.59e-02  kx28  1 0 1
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l28kh076  log factor  7.7590287E-03  2.33e-03  2.59e-02  kx28  1 0 1
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l28kh079  log factor  7.7661577E-03  2.33e-03  2.59e-02  kx28  1 0 1
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l28kh083  log factor  7.7958293E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh084  log factor  7.8179680E-03  2.33e-03  2.59e-02  kx28  1 0 1
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l28kh086  log factor  7.7813488E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh087  log factor  7.7672230E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh088  log factor  7.7896398E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh089  log factor  7.8023370E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh090  log factor  7.7441985E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh091  log factor  7.7995265E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh092  log factor  7.8652089E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh093  log factor  7.7859252E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh094  log factor  7.7645309E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh095  log factor  7.7602528E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh096  log factor  7.7531404E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh097  log factor  7.7625368E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh098  log factor  7.7677120E-03  2.33e-03  2.59e-02  kx28  1 0 1
```



```
l28kh099  log factor  7.7824356E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh100  log factor  7.7727186E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh101  log factor  7.7800783E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh102  log factor  7.7794527E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh103  log factor  7.7922376E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh104  log factor  7.8227982E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh105  log factor  7.7983773E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh106  log factor  7.7823737E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh107  log factor  7.7881601E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh108  log factor  7.6029351E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh109  log factor  7.4427886E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh110  log factor  8.4247434E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh111  log factor  8.9494701E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh112  log factor  8.7088136E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh113  log factor  7.8024077E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh114  log factor  7.8675852E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh115  log factor  8.2917798E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh116  log factor  8.4134747E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh117  log factor  7.0891040E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh118  log factor  1.0165832E-02  2.33e-03  2.59e-02  kx28  1 0 1
l28kh119  log factor  1.0260897E-02  2.33e-03  2.59e-02  kx28  1 0 1
l28kh120  log factor  1.6456313E-02  2.33e-03  2.59e-02  kx28  1 0 1
l28kh121  log factor  2.0780844E-02  2.33e-03  2.59e-02  kx28  1 0 1
l28kh122  log factor  2.3300000E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh123  log factor  2.5900000E-02  2.33e-03  2.59e-02  kx28  1 0 1
l28kh124  log factor  2.5900000E-02  2.33e-03  2.59e-02  kx28  1 0 1
l28kh125  log factor  9.5355742E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh126  log factor  1.0052135E-02  2.33e-03  2.59e-02  kx28  1 0 1
l28kh127  log factor  8.4067933E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh128  log factor  7.7038305E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh129  log factor  7.9531756E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh130  log factor  7.8066212E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh131  log factor  1.1124771E-02  2.33e-03  2.59e-02  kx28  1 0 1
l28kh132  log factor  8.4444931E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh133  log factor  1.1473688E-02  2.33e-03  2.59e-02  kx28  1 0 1
l28kh134  log factor  2.5900000E-02  2.33e-03  2.59e-02  kx28  1 0 1
l28kh135  log factor  1.1844289E-02  2.33e-03  2.59e-02  kx28  1 0 1
l28kh136  log factor  1.7720285E-02  2.33e-03  2.59e-02  kx28  1 0 1
l28kh137  log factor  2.5851421E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh138  log factor  2.5900000E-02  2.33e-03  2.59e-02  kx28  1 0 1
l28kh139  log factor  9.4090056E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh140  log factor  8.6138148E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh141  log factor  8.6471500E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh142  log factor  1.1288267E-02  2.33e-03  2.59e-02  kx28  1 0 1
l28kh143  log factor  9.5819121E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh144  log factor  8.0198267E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh145  log factor  7.9935914E-03  2.33e-03  2.59e-02  kx28  1 0 1
```



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l28kh146  log factor  8.3076015E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh147  log factor  7.1584572E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh148  log factor  8.1403482E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh149  log factor  7.9807914E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh150  log factor  8.1177868E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh151  log factor  8.1278482E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh152  log factor  8.0777676E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh153  log factor  8.5747819E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh154  log factor  8.5067264E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh155  log factor  8.2134715E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh156  log factor  7.4195401E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh157  log factor  8.5689427E-03  2.33e-03  2.59e-02  kx28  1 0 1
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l28kh161  log factor  7.7511472E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh162  log factor  7.8876789E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh163  log factor  2.0806510E-02  2.33e-03  2.59e-02  kx28  1 0 1
l28kh164  log factor  9.8826864E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh165  log factor  7.3018144E-03  2.33e-03  2.59e-02  kx28  1 0 1
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l28kh167  log factor  2.5900000E-02  2.33e-03  2.59e-02  kx28  1 0 1
l28kh168  log factor  1.0237544E-02  2.33e-03  2.59e-02  kx28  1 0 1
l28kh169  log factor  7.8551982E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh170  log factor  5.2505904E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh171  log factor  2.3120233E-02  2.33e-03  2.59e-02  kx28  1 0 1
l28kh172  log factor  1.9050474E-02  2.33e-03  2.59e-02  kx28  1 0 1
l28kh173  log factor  1.0156291E-02  2.33e-03  2.59e-02  kx28  1 0 1
l28kh174  log factor  7.8355493E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh175  log factor  7.8105498E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh176  log factor  7.7730906E-03  2.33e-03  2.59e-02  kx28  1 0 1
l28kh177  log factor  7.7656422E-03  2.33e-03  2.59e-02  kx28  1 0 1
l29kh001  log factor  3.0244293E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh002  log factor  3.0232181E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh003  log factor  3.0258184E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh004  log factor  3.0121929E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh005  log factor  3.0240800E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh006  log factor  2.9863415E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh007  log factor  3.0818503E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh008  log factor  3.1484856E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh009  log factor  3.0348825E-03  6.05e-04  1.51e-02  kx29  1 0 1
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l29kh011  log factor  3.0265798E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh012  log factor  3.0249960E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh013  log factor  3.0274019E-03  6.05e-04  1.51e-02  kx29  1 0 1
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l29kh015  log factor  3.0219932E-03  6.05e-04  1.51e-02  kx29  1 0 1
```



```
l29kh016  log factor  3.0148229E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh017  log factor  3.0630046E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh018  log factor  3.0145197E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh019  log factor  3.0072783E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh020  log factor  3.0229152E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh021  log factor  3.0247486E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh022  log factor  3.0266045E-03  6.05e-04  1.51e-02  kx29  1 0 1
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l29kh025  log factor  3.0229563E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh026  log factor  3.0178194E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh027  log factor  2.9915357E-03  6.05e-04  1.51e-02  kx29  1 0 1
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l29kh029  log factor  3.0864316E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh030  log factor  3.5863902E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh031  log factor  3.1439420E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh032  log factor  3.0426648E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh033  log factor  3.0431581E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh034  log factor  3.0406159E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh035  log factor  3.0228521E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh036  log factor  3.0251868E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh037  log factor  3.0229614E-03  6.05e-04  1.51e-02  kx29  1 0 1
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l29kh039  log factor  3.0205999E-03  6.05e-04  1.51e-02  kx29  1 0 1
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l29kh045  log factor  3.0258623E-03  6.05e-04  1.51e-02  kx29  1 0 1
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l29kh048  log factor  3.0264564E-03  6.05e-04  1.51e-02  kx29  1 0 1
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l29kh052  log factor  3.0252980E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh053  log factor  3.0238626E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh054  log factor  3.0674308E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh055  log factor  3.0277699E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh056  log factor  3.0389990E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh057  log factor  2.9501486E-03  6.05e-04  1.51e-02  kx29  1 0 1
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l29kh060  log factor  3.0455824E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh061  log factor  3.1169098E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh062  log factor  3.1446394E-03  6.05e-04  1.51e-02  kx29  1 0 1
```



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l29kh063  log factor  2.5229259E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh064  log factor  2.8817391E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh065  log factor  3.0239052E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh066  log factor  3.1179578E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh067  log factor  3.1072501E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh068  log factor  3.3859845E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh069  log factor  3.2439162E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh070  log factor  3.0347082E-03  6.05e-04  1.51e-02  kx29  1 0 1
l29kh071  log factor  2.9956495E-03  6.05e-04  1.51e-02  kx29  1 0 1
l30kh001  log factor  8.6494628E-04  8.64e-05  2.07e-03  kx30  1 0 1
l30kh002  log factor  8.6443649E-04  8.64e-05  2.07e-03  kx30  1 0 1
l30kh003  log factor  8.6474421E-04  8.64e-05  2.07e-03  kx30  1 0 1
l30kh004  log factor  8.6420597E-04  8.64e-05  2.07e-03  kx30  1 0 1
l30kh005  log factor  8.6723169E-04  8.64e-05  2.07e-03  kx30  1 0 1
l30kh006  log factor  8.6033982E-04  8.64e-05  2.07e-03  kx30  1 0 1
l30kh007  log factor  8.6353264E-04  8.64e-05  2.07e-03  kx30  1 0 1
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l30kh017  log factor  8.6364130E-04  8.64e-05  2.07e-03  kx30  1 0 1
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l30kh023  log factor  8.6442278E-04  8.64e-05  2.07e-03  kx30  1 0 1
l30kh024  log factor  8.6512595E-04  8.64e-05  2.07e-03  kx30  1 0 1
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l30kh026  log factor  8.6449112E-04  8.64e-05  2.07e-03  kx30  1 0 1
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l30kh028  log factor  8.6447475E-04  8.64e-05  2.07e-03  kx30  1 0 1
l30kh029  log factor  8.6380747E-04  8.64e-05  2.07e-03  kx30  1 0 1
l30kh030  log factor  8.6371011E-04  8.64e-05  2.07e-03  kx30  1 0 1
l30kh031  log factor  8.6529668E-04  8.64e-05  2.07e-03  kx30  1 0 1
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l30kh034  log factor  8.6363154E-04  8.64e-05  2.07e-03  kx30  1 0 1
l30kh035  log factor  8.6408101E-04  8.64e-05  2.07e-03  kx30  1 0 1
l30kh036  log factor  8.6237850E-04  8.64e-05  2.07e-03  kx30  1 0 1
l30kh037  log factor  8.6298649E-04  8.64e-05  2.07e-03  kx30  1 0 1
l30kh038  log factor  8.6568253E-04  8.64e-05  2.07e-03  kx30  1 0 1
```



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l30kh039  log factor  8.6852971E-04  8.64e-05  2.07e-03  kx30  1 0 1
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l30kh041  log factor  8.7774799E-04  8.64e-05  2.07e-03  kx30  1 0 1
l30kh042  log factor  8.5500632E-04  8.64e-05  2.07e-03  kx30  1 0 1
l30kh043  log factor  8.6331958E-04  8.64e-05  2.07e-03  kx30  1 0 1
l30kh044  log factor  8.6347476E-04  8.64e-05  2.07e-03  kx30  1 0 1
l30kh045  log factor  8.6286857E-04  8.64e-05  2.07e-03  kx30  1 0 1
l30kh046  log factor  8.6329191E-04  8.64e-05  2.07e-03  kx30  1 0 1
l30kh047  log factor  8.6368980E-04  8.64e-05  2.07e-03  kx30  1 0 1
l30kh048  log factor  8.6342415E-04  8.64e-05  2.07e-03  kx30  1 0 1
l30kh049  log factor  8.6443778E-04  8.64e-05  2.07e-03  kx30  1 0 1
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l30kh084  log factor  8.6428424E-04  8.64e-05  2.07e-03  kx30  1 0 1
l30kh085  log factor  8.6372742E-04  8.64e-05  2.07e-03  kx30  1 0 1
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l30kh088  log factor   8.6252572E-04  8.64e-05  2.07e-03  kx30  1 0 1
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l03unsatw log factor    1.050000      0.950 1.05  ust1e3  1 0 1
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l22unsatw log factor    1.050000      0.950 1.05  ust1e3  1 0 1
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l01kz004  log factor    1.009344      0.6 1.4 kzf01 1 0 1
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l01kz009  log factor    1.007113      0.6 1.4 kzf01 1 0 1
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l01kz022  log factor    1.007009      0.6 1.4 kzf01 1 0 1
l01kz023  log factor    1.005656      0.6 1.4 kzf01 1 0 1
l01kz024  log factor   0.9982749      0.6 1.4 kzf01 1 0 1
```



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l01kz026  log factor    1.031680      0.6 1.4 kzf01 1 0 1
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l01kz028  log factor    1.003535      0.6 1.4 kzf01 1 0 1
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l01kz030  log factor   0.9976280      0.6 1.4 kzf01 1 0 1
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l02kz018  log factor    1.004279      0.6 1.4 kzf02 1 0 1
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l02kz021  log factor   0.9411767      0.6 1.4 kzf02 1 0 1
l02kz022  log factor    1.018743      0.6 1.4 kzf02 1 0 1
l02kz023  log factor   0.9564200      0.6 1.4 kzf02 1 0 1
l02kz024  log factor   0.7517172      0.6 1.4 kzf02 1 0 1
l02kz025  log factor   0.7751494      0.6 1.4 kzf02 1 0 1
l02kz026  log factor   0.8077097      0.6 1.4 kzf02 1 0 1
l02kz027  log factor   0.6407792      0.6 1.4 kzf02 1 0 1
l02kz028  log factor   0.9110788      0.6 1.4 kzf02 1 0 1
l02kz029  log factor   0.8074854      0.6 1.4 kzf02 1 0 1
```



```
l02kz030  log factor   0.6143510      0.6 1.4 kzf02 1 0 1
l02kz031  log factor   0.8644596      0.6 1.4 kzf02 1 0 1
l02kz032  log factor   0.9916447      0.6 1.4 kzf02 1 0 1
l02kz033  log factor    1.022843      0.6 1.4 kzf02 1 0 1
l02kz034  log factor   0.9695812      0.6 1.4 kzf02 1 0 1
l02kz035  log factor   0.9740480      0.6 1.4 kzf02 1 0 1
l02kz036  log factor   0.9685090      0.6 1.4 kzf02 1 0 1
l02kz037  log factor   0.9192232      0.6 1.4 kzf02 1 0 1
l02kz038  log factor   0.9650204      0.6 1.4 kzf02 1 0 1
l02kz039  log factor   0.9835060      0.6 1.4 kzf02 1 0 1
l02kz040  log factor    1.024633      0.6 1.4 kzf02 1 0 1
l02kz041  log factor    1.006520      0.6 1.4 kzf02 1 0 1
l03kz001  log factor   0.9932792      0.6 1.4 kzf03 1 0 1
l03kz002  log factor   0.9949911      0.6 1.4 kzf03 1 0 1
l03kz003  log factor   0.9978338      0.6 1.4 kzf03 1 0 1
l03kz004  log factor    1.004579      0.6 1.4 kzf03 1 0 1
l03kz005  log factor    1.003531      0.6 1.4 kzf03 1 0 1
l03kz006  log factor   0.9982564      0.6 1.4 kzf03 1 0 1
l03kz007  log factor   0.9976302      0.6 1.4 kzf03 1 0 1
l03kz008  log factor    1.003164      0.6 1.4 kzf03 1 0 1
l03kz009  log factor    1.000318      0.6 1.4 kzf03 1 0 1
l03kz010  log factor   0.9958127      0.6 1.4 kzf03 1 0 1
l03kz011  log factor   0.9868359      0.6 1.4 kzf03 1 0 1
l03kz012  log factor   0.9857945      0.6 1.4 kzf03 1 0 1
l03kz013  log factor   0.9972235      0.6 1.4 kzf03 1 0 1
l03kz014  log factor   0.9867178      0.6 1.4 kzf03 1 0 1
l03kz015  log factor   0.9839832      0.6 1.4 kzf03 1 0 1
l03kz016  log factor   0.9905589      0.6 1.4 kzf03 1 0 1
l03kz017  log factor   0.9946491      0.6 1.4 kzf03 1 0 1
l03kz018  log factor   0.9567739      0.6 1.4 kzf03 1 0 1
l03kz019  log factor   0.9892466      0.6 1.4 kzf03 1 0 1
l03kz020  log factor   0.9899365      0.6 1.4 kzf03 1 0 1
l03kz021  log factor   0.9789558      0.6 1.4 kzf03 1 0 1
l03kz022  log factor   0.9899495      0.6 1.4 kzf03 1 0 1
l03kz023  log factor   0.9827686      0.6 1.4 kzf03 1 0 1
l03kz024  log factor   0.8060629      0.6 1.4 kzf03 1 0 1
l03kz025  log factor   0.9834717      0.6 1.4 kzf03 1 0 1
l03kz026  log factor    1.006875      0.6 1.4 kzf03 1 0 1
l03kz027  log factor   0.9577987      0.6 1.4 kzf03 1 0 1
l03kz028  log factor   0.9834608      0.6 1.4 kzf03 1 0 1
l03kz029  log factor   0.9808379      0.6 1.4 kzf03 1 0 1
l03kz030  log factor    1.001946      0.6 1.4 kzf03 1 0 1
l03kz031  log factor   0.9801131      0.6 1.4 kzf03 1 0 1
l03kz032  log factor   0.9850287      0.6 1.4 kzf03 1 0 1
l03kz033  log factor   0.9989452      0.6 1.4 kzf03 1 0 1
l03kz034  log factor   0.9822059      0.6 1.4 kzf03 1 0 1
l03kz035  log factor   0.9952765      0.6 1.4 kzf03 1 0 1
```



```
l03kz036  log factor    1.002127      0.6 1.4 kzf03 1 0 1
l03kz037  log factor    1.003442      0.6 1.4 kzf03 1 0 1
l03kz038  log factor    1.019856      0.6 1.4 kzf03 1 0 1
l03kz039  log factor    1.004324      0.6 1.4 kzf03 1 0 1
l03kz040  log factor   0.9933008      0.6 1.4 kzf03 1 0 1
l03kz041  log factor    1.004977      0.6 1.4 kzf03 1 0 1
l03kz042  log factor   0.9952888      0.6 1.4 kzf03 1 0 1
l03kz043  log factor   0.9850079      0.6 1.4 kzf03 1 0 1
l04kz001  log factor    1.003276      0.6 1.4 kzf04 1 0 1
l04kz002  log factor   0.9901305      0.6 1.4 kzf04 1 0 1
l04kz003  log factor   0.9714605      0.6 1.4 kzf04 1 0 1
l04kz004  log factor   0.9920111      0.6 1.4 kzf04 1 0 1
l04kz005  log factor   0.9213130      0.6 1.4 kzf04 1 0 1
l04kz006  log factor   0.7650315      0.6 1.4 kzf04 1 0 1
l04kz007  log factor    1.018819      0.6 1.4 kzf04 1 0 1
l04kz008  log factor   0.9982413      0.6 1.4 kzf04 1 0 1
l04kz009  log factor   0.9620815      0.6 1.4 kzf04 1 0 1
l04kz010  log factor    1.008667      0.6 1.4 kzf04 1 0 1
l04kz011  log factor    1.009244      0.6 1.4 kzf04 1 0 1
l04kz012  log factor   0.9981112      0.6 1.4 kzf04 1 0 1
l04kz013  log factor   0.9677196      0.6 1.4 kzf04 1 0 1
l04kz014  log factor   0.9783898      0.6 1.4 kzf04 1 0 1
l04kz015  log factor   0.9676721      0.6 1.4 kzf04 1 0 1
l04kz016  log factor   0.8018981      0.6 1.4 kzf04 1 0 1
l04kz017  log factor   0.9297262      0.6 1.4 kzf04 1 0 1
l04kz018  log factor   0.8501716      0.6 1.4 kzf04 1 0 1
l04kz019  log factor   0.9148063      0.6 1.4 kzf04 1 0 1
l04kz020  log factor    1.009143      0.6 1.4 kzf04 1 0 1
l04kz021  log factor   0.7241698      0.6 1.4 kzf04 1 0 1
l04kz022  log factor   0.8621100      0.6 1.4 kzf04 1 0 1
l04kz023  log factor   0.9338884      0.6 1.4 kzf04 1 0 1
l04kz024  log factor   0.8675656      0.6 1.4 kzf04 1 0 1
l04kz025  log factor    1.124462      0.6 1.4 kzf04 1 0 1
l04kz026  log factor    1.001632      0.6 1.4 kzf04 1 0 1
l04kz027  log factor    1.044142      0.6 1.4 kzf04 1 0 1
l04kz028  log factor    1.151724      0.6 1.4 kzf04 1 0 1
l04kz029  log factor    1.001135      0.6 1.4 kzf04 1 0 1
l04kz030  log factor   0.9514654      0.6 1.4 kzf04 1 0 1
l04kz031  log factor   0.7025154      0.6 1.4 kzf04 1 0 1
l04kz032  log factor   0.8408658      0.6 1.4 kzf04 1 0 1
l04kz033  log factor   0.8714216      0.6 1.4 kzf04 1 0 1
l04kz034  log factor   0.9652409      0.6 1.4 kzf04 1 0 1
l04kz035  log factor   0.9702723      0.6 1.4 kzf04 1 0 1
l04kz036  log factor    1.400000      0.6 1.4 kzf04 1 0 1
l04kz037  log factor   0.7597091      0.6 1.4 kzf04 1 0 1
l04kz038  log factor   0.6000000      0.6 1.4 kzf04 1 0 1
l04kz039  log factor   0.9262374      0.6 1.4 kzf04 1 0 1
```



```
l04kz040  log factor   0.9712938      0.6 1.4 kzf04 1 0 1
l04kz041  log factor   0.9908934      0.6 1.4 kzf04 1 0 1
l04kz042  log factor   0.6000000      0.6 1.4 kzf04 1 0 1
l04kz043  log factor   0.9313860      0.6 1.4 kzf04 1 0 1
l04kz044  log factor   0.9857910      0.6 1.4 kzf04 1 0 1
l05kz001  log factor   0.9910601      0.6 1.4 kzf05 1 0 1
l05kz002  log factor    1.007284      0.6 1.4 kzf05 1 0 1
l05kz003  log factor    1.000885      0.6 1.4 kzf05 1 0 1
l05kz004  log factor    1.002553      0.6 1.4 kzf05 1 0 1
l05kz005  log factor   0.9845108      0.6 1.4 kzf05 1 0 1
l05kz006  log factor   0.9545715      0.6 1.4 kzf05 1 0 1
l05kz007  log factor    1.000739      0.6 1.4 kzf05 1 0 1
l05kz008  log factor   0.9936306      0.6 1.4 kzf05 1 0 1
l05kz009  log factor   0.9895091      0.6 1.4 kzf05 1 0 1
l05kz010  log factor   0.9996959      0.6 1.4 kzf05 1 0 1
l05kz011  log factor   0.9866449      0.6 1.4 kzf05 1 0 1
l05kz012  log factor   0.9797230      0.6 1.4 kzf05 1 0 1
l05kz013  log factor    1.003726      0.6 1.4 kzf05 1 0 1
l05kz014  log factor   0.9950963      0.6 1.4 kzf05 1 0 1
l05kz015  log factor   0.9711508      0.6 1.4 kzf05 1 0 1
l05kz016  log factor   0.9060952      0.6 1.4 kzf05 1 0 1
l05kz017  log factor   0.9929639      0.6 1.4 kzf05 1 0 1
l05kz018  log factor   0.9660632      0.6 1.4 kzf05 1 0 1
l05kz019  log factor   0.9623106      0.6 1.4 kzf05 1 0 1
l05kz020  log factor    1.004669      0.6 1.4 kzf05 1 0 1
l05kz021  log factor   0.9922274      0.6 1.4 kzf05 1 0 1
l05kz022  log factor   0.9925933      0.6 1.4 kzf05 1 0 1
l05kz023  log factor    1.004707      0.6 1.4 kzf05 1 0 1
l05kz024  log factor   0.9892586      0.6 1.4 kzf05 1 0 1
l05kz025  log factor   0.9596388      0.6 1.4 kzf05 1 0 1
l05kz026  log factor   0.8219436      0.6 1.4 kzf05 1 0 1
l05kz027  log factor   0.9821950      0.6 1.4 kzf05 1 0 1
l05kz028  log factor   0.9640379      0.6 1.4 kzf05 1 0 1
l05kz029  log factor   0.9997682      0.6 1.4 kzf05 1 0 1
l05kz030  log factor    1.000100      0.6 1.4 kzf05 1 0 1
l05kz031  log factor    1.004606      0.6 1.4 kzf05 1 0 1
l05kz032  log factor   0.9819280      0.6 1.4 kzf05 1 0 1
l05kz033  log factor    1.012819      0.6 1.4 kzf05 1 0 1
l05kz034  log factor    1.015410      0.6 1.4 kzf05 1 0 1
l05kz035  log factor    1.009140      0.6 1.4 kzf05 1 0 1
l05kz036  log factor   0.9955390      0.6 1.4 kzf05 1 0 1
l05kz037  log factor   0.9935397      0.6 1.4 kzf05 1 0 1
l05kz038  log factor   0.9370817      0.6 1.4 kzf05 1 0 1
l05kz039  log factor   0.9873236      0.6 1.4 kzf05 1 0 1
l05kz040  log factor   0.9881150      0.6 1.4 kzf05 1 0 1
l05kz041  log factor   0.9967750      0.6 1.4 kzf05 1 0 1
l05kz042  log factor    1.049786      0.6 1.4 kzf05 1 0 1
```



```
l05kz043  log factor    1.083055      0.6 1.4 kzf05 1 0 1
l05kz044  log factor    1.022909      0.6 1.4 kzf05 1 0 1
l05kz045  log factor   0.9932008      0.6 1.4 kzf05 1 0 1
l05kz046  log factor    1.027062      0.6 1.4 kzf05 1 0 1
l05kz047  log factor   0.8849011      0.6 1.4 kzf05 1 0 1
l05kz048  log factor    1.010535      0.6 1.4 kzf05 1 0 1
l06kz001  log factor    1.005915      0.6 1.4 kzf06 1 0 1
l06kz002  log factor   0.9942360      0.6 1.4 kzf06 1 0 1
l06kz003  log factor   0.9868652      0.6 1.4 kzf06 1 0 1
l06kz004  log factor   0.9989613      0.6 1.4 kzf06 1 0 1
l06kz005  log factor   0.9631494      0.6 1.4 kzf06 1 0 1
l06kz006  log factor    1.018808      0.6 1.4 kzf06 1 0 1
l06kz007  log factor   0.9964459      0.6 1.4 kzf06 1 0 1
l06kz008  log factor   0.9973070      0.6 1.4 kzf06 1 0 1
l06kz009  log factor    1.008826      0.6 1.4 kzf06 1 0 1
l06kz010  log factor   0.9892291      0.6 1.4 kzf06 1 0 1
l06kz011  log factor    1.012100      0.6 1.4 kzf06 1 0 1
l06kz012  log factor    1.006318      0.6 1.4 kzf06 1 0 1
l06kz013  log factor   0.9626121      0.6 1.4 kzf06 1 0 1
l06kz014  log factor    1.027066      0.6 1.4 kzf06 1 0 1
l06kz015  log factor   0.9525950      0.6 1.4 kzf06 1 0 1
l06kz016  log factor    1.010203      0.6 1.4 kzf06 1 0 1
l06kz017  log factor   0.9792027      0.6 1.4 kzf06 1 0 1
l06kz018  log factor   0.8869669      0.6 1.4 kzf06 1 0 1
l06kz019  log factor   0.7144303      0.6 1.4 kzf06 1 0 1
l06kz020  log factor   0.9027135      0.6 1.4 kzf06 1 0 1
l06kz021  log factor   0.7593374      0.6 1.4 kzf06 1 0 1
l06kz022  log factor   0.6000000      0.6 1.4 kzf06 1 0 1
l06kz023  log factor   0.6000000      0.6 1.4 kzf06 1 0 1
l06kz024  log factor   0.7161828      0.6 1.4 kzf06 1 0 1
l06kz025  log factor   0.8233272      0.6 1.4 kzf06 1 0 1
l06kz026  log factor    1.002989      0.6 1.4 kzf06 1 0 1
l06kz027  log factor   0.8328410      0.6 1.4 kzf06 1 0 1
l06kz028  log factor   0.9534724      0.6 1.4 kzf06 1 0 1
l06kz029  log factor   0.9860966      0.6 1.4 kzf06 1 0 1
l06kz030  log factor   0.7805942      0.6 1.4 kzf06 1 0 1
l06kz031  log factor   0.7570359      0.6 1.4 kzf06 1 0 1
l06kz032  log factor   0.9081537      0.6 1.4 kzf06 1 0 1
l06kz033  log factor   0.6000000      0.6 1.4 kzf06 1 0 1
l06kz034  log factor   0.6000000      0.6 1.4 kzf06 1 0 1
l06kz035  log factor   0.6834773      0.6 1.4 kzf06 1 0 1
l06kz036  log factor   0.7159884      0.6 1.4 kzf06 1 0 1
l06kz037  log factor   0.8097174      0.6 1.4 kzf06 1 0 1
l06kz038  log factor   0.7853664      0.6 1.4 kzf06 1 0 1
l06kz039  log factor   0.6000000      0.6 1.4 kzf06 1 0 1
l06kz040  log factor   0.6000000      0.6 1.4 kzf06 1 0 1
l06kz041  log factor   0.9706998      0.6 1.4 kzf06 1 0 1
```



```
l07kz001  log factor   0.9975892      0.6 1.4 kzf07 1 0 1
l07kz002  log factor    1.006523      0.6 1.4 kzf07 1 0 1
l07kz003  log factor    1.025601      0.6 1.4 kzf07 1 0 1
l07kz004  log factor    1.024464      0.6 1.4 kzf07 1 0 1
l07kz005  log factor    1.033804      0.6 1.4 kzf07 1 0 1
l07kz006  log factor    1.004718      0.6 1.4 kzf07 1 0 1
l07kz007  log factor    1.028033      0.6 1.4 kzf07 1 0 1
l07kz008  log factor   0.9929279      0.6 1.4 kzf07 1 0 1
l07kz009  log factor   0.9991833      0.6 1.4 kzf07 1 0 1
l07kz010  log factor   0.9720037      0.6 1.4 kzf07 1 0 1
l07kz011  log factor    1.003859      0.6 1.4 kzf07 1 0 1
l07kz012  log factor   0.9260036      0.6 1.4 kzf07 1 0 1
l07kz013  log factor   0.9408425      0.6 1.4 kzf07 1 0 1
l07kz014  log factor    1.006395      0.6 1.4 kzf07 1 0 1
l07kz015  log factor    1.020617      0.6 1.4 kzf07 1 0 1
l07kz016  log factor    1.021568      0.6 1.4 kzf07 1 0 1
l07kz017  log factor    1.014539      0.6 1.4 kzf07 1 0 1
l07kz018  log factor   0.9857724      0.6 1.4 kzf07 1 0 1
l07kz019  log factor   0.9878505      0.6 1.4 kzf07 1 0 1
l07kz020  log factor   0.9879999      0.6 1.4 kzf07 1 0 1
l07kz021  log factor   0.9865905      0.6 1.4 kzf07 1 0 1
l07kz022  log factor    1.026049      0.6 1.4 kzf07 1 0 1
l07kz023  log factor   0.9976582      0.6 1.4 kzf07 1 0 1
l07kz024  log factor   0.9749820      0.6 1.4 kzf07 1 0 1
l07kz025  log factor    1.005736      0.6 1.4 kzf07 1 0 1
l07kz026  log factor    1.006127      0.6 1.4 kzf07 1 0 1
l07kz027  log factor   0.8969190      0.6 1.4 kzf07 1 0 1
l07kz028  log factor   0.9777638      0.6 1.4 kzf07 1 0 1
l07kz029  log factor   0.9908919      0.6 1.4 kzf07 1 0 1
l07kz030  log factor   0.9719941      0.6 1.4 kzf07 1 0 1
l07kz031  log factor    1.022143      0.6 1.4 kzf07 1 0 1
l07kz032  log factor   0.9793259      0.6 1.4 kzf07 1 0 1
l07kz033  log factor   0.9608725      0.6 1.4 kzf07 1 0 1
l07kz034  log factor   0.9775624      0.6 1.4 kzf07 1 0 1
l07kz035  log factor    1.008942      0.6 1.4 kzf07 1 0 1
l07kz036  log factor   0.9576381      0.6 1.4 kzf07 1 0 1
l07kz037  log factor   0.8957691      0.6 1.4 kzf07 1 0 1
l07kz038  log factor   0.9613267      0.6 1.4 kzf07 1 0 1
l07kz039  log factor   0.9887230      0.6 1.4 kzf07 1 0 1
l07kz040  log factor   0.8522648      0.6 1.4 kzf07 1 0 1
l07kz041  log factor   0.8745076      0.6 1.4 kzf07 1 0 1
l07kz042  log factor   0.9049297      0.6 1.4 kzf07 1 0 1
l07kz043  log factor   0.9989103      0.6 1.4 kzf07 1 0 1
l07kz044  log factor    1.019606      0.6 1.4 kzf07 1 0 1
l08kz001  log factor    1.002854      0.6 1.4 kzf08 1 0 1
l08kz002  log factor    1.022610      0.6 1.4 kzf08 1 0 1
l08kz003  log factor    1.041579      0.6 1.4 kzf08 1 0 1
```



```
l08kz004  log factor    1.027361      0.6 1.4 kzf08 1 0 1
l08kz005  log factor    1.027277      0.6 1.4 kzf08 1 0 1
l08kz006  log factor    1.025913      0.6 1.4 kzf08 1 0 1
l08kz007  log factor    1.028870      0.6 1.4 kzf08 1 0 1
l08kz008  log factor    1.032030      0.6 1.4 kzf08 1 0 1
l08kz009  log factor    1.000953      0.6 1.4 kzf08 1 0 1
l08kz010  log factor    1.022567      0.6 1.4 kzf08 1 0 1
l08kz011  log factor   0.7816793      0.6 1.4 kzf08 1 0 1
l08kz012  log factor   0.7066980      0.6 1.4 kzf08 1 0 1
l08kz013  log factor    1.029717      0.6 1.4 kzf08 1 0 1
l08kz014  log factor   0.7422492      0.6 1.4 kzf08 1 0 1
l08kz015  log factor   0.9598432      0.6 1.4 kzf08 1 0 1
l08kz016  log factor   0.9764367      0.6 1.4 kzf08 1 0 1
l08kz017  log factor   0.9648910      0.6 1.4 kzf08 1 0 1
l08kz018  log factor   0.9775127      0.6 1.4 kzf08 1 0 1
l08kz019  log factor    1.165443      0.6 1.4 kzf08 1 0 1
l08kz020  log factor    1.148784      0.6 1.4 kzf08 1 0 1
l08kz021  log factor   0.8142919      0.6 1.4 kzf08 1 0 1
l08kz022  log factor   0.6807804      0.6 1.4 kzf08 1 0 1
l08kz023  log factor   0.9390558      0.6 1.4 kzf08 1 0 1
l08kz024  log factor   0.9678108      0.6 1.4 kzf08 1 0 1
l08kz025  log factor    1.008962      0.6 1.4 kzf08 1 0 1
l08kz026  log factor   0.9608352      0.6 1.4 kzf08 1 0 1
l08kz027  log factor   0.9878232      0.6 1.4 kzf08 1 0 1
l08kz028  log factor   0.7910074      0.6 1.4 kzf08 1 0 1
l08kz029  log factor    1.175238      0.6 1.4 kzf08 1 0 1
l08kz030  log factor   0.6000000      0.6 1.4 kzf08 1 0 1
l08kz031  log factor   0.6000000      0.6 1.4 kzf08 1 0 1
l08kz032  log factor   0.8894666      0.6 1.4 kzf08 1 0 1
l08kz033  log factor    1.029240      0.6 1.4 kzf08 1 0 1
l08kz034  log factor    1.018576      0.6 1.4 kzf08 1 0 1
l08kz035  log factor    1.005681      0.6 1.4 kzf08 1 0 1
l08kz036  log factor   0.9808382      0.6 1.4 kzf08 1 0 1
l08kz037  log factor   0.9528411      0.6 1.4 kzf08 1 0 1
l08kz038  log factor    1.224591      0.6 1.4 kzf08 1 0 1
l08kz039  log factor   0.8311111      0.6 1.4 kzf08 1 0 1
l08kz040  log factor   0.9556252      0.6 1.4 kzf08 1 0 1
l08kz041  log factor   0.6000000      0.6 1.4 kzf08 1 0 1
l08kz042  log factor    1.327872      0.6 1.4 kzf08 1 0 1
l08kz043  log factor   0.6000000      0.6 1.4 kzf08 1 0 1
l08kz044  log factor    1.400000      0.6 1.4 kzf08 1 0 1
l08kz045  log factor    1.137452      0.6 1.4 kzf08 1 0 1
l08kz046  log factor   0.6728412      0.6 1.4 kzf08 1 0 1
l08kz047  log factor   0.8407169      0.6 1.4 kzf08 1 0 1
l08kz048  log factor    1.267731      0.6 1.4 kzf08 1 0 1
l08kz049  log factor   0.6515344      0.6 1.4 kzf08 1 0 1
l08kz050  log factor   0.9064942      0.6 1.4 kzf08 1 0 1
```



```
l08kz051  log factor    1.047092      0.6 1.4 kzf08 1 0 1
l08kz052  log factor   0.9675051      0.6 1.4 kzf08 1 0 1
l09kz001  log factor    1.008451      0.6 1.4 kzf09 1 0 1
l09kz002  log factor    1.025165      0.6 1.4 kzf09 1 0 1
l09kz003  log factor    1.028007      0.6 1.4 kzf09 1 0 1
l09kz004  log factor    1.029068      0.6 1.4 kzf09 1 0 1
l09kz005  log factor    1.001743      0.6 1.4 kzf09 1 0 1
l09kz006  log factor   0.9997389      0.6 1.4 kzf09 1 0 1
l09kz007  log factor   0.9939345      0.6 1.4 kzf09 1 0 1
l09kz008  log factor   0.9775621      0.6 1.4 kzf09 1 0 1
l09kz009  log factor   0.9985140      0.6 1.4 kzf09 1 0 1
l09kz010  log factor   0.9830384      0.6 1.4 kzf09 1 0 1
l09kz011  log factor   0.9940930      0.6 1.4 kzf09 1 0 1
l09kz012  log factor   0.9880773      0.6 1.4 kzf09 1 0 1
l09kz013  log factor   0.9663211      0.6 1.4 kzf09 1 0 1
l09kz014  log factor   0.9987304      0.6 1.4 kzf09 1 0 1
l09kz015  log factor   0.9571164      0.6 1.4 kzf09 1 0 1
l09kz016  log factor    1.029664      0.6 1.4 kzf09 1 0 1
l09kz017  log factor    1.040180      0.6 1.4 kzf09 1 0 1
l09kz018  log factor    1.038451      0.6 1.4 kzf09 1 0 1
l09kz019  log factor    1.017529      0.6 1.4 kzf09 1 0 1
l09kz020  log factor   0.9159502      0.6 1.4 kzf09 1 0 1
l09kz021  log factor    1.066845      0.6 1.4 kzf09 1 0 1
l09kz022  log factor   0.9312867      0.6 1.4 kzf09 1 0 1
l09kz023  log factor   0.8442537      0.6 1.4 kzf09 1 0 1
l09kz024  log factor    1.048363      0.6 1.4 kzf09 1 0 1
l09kz025  log factor   0.9974755      0.6 1.4 kzf09 1 0 1
l09kz026  log factor    1.056332      0.6 1.4 kzf09 1 0 1
l09kz027  log factor    1.053399      0.6 1.4 kzf09 1 0 1
l09kz028  log factor    1.018477      0.6 1.4 kzf09 1 0 1
l09kz029  log factor   0.9815259      0.6 1.4 kzf09 1 0 1
l09kz030  log factor   0.8991936      0.6 1.4 kzf09 1 0 1
l09kz031  log factor   0.9363106      0.6 1.4 kzf09 1 0 1
l09kz032  log factor    1.163700      0.6 1.4 kzf09 1 0 1
l09kz033  log factor   0.9990654      0.6 1.4 kzf09 1 0 1
l09kz034  log factor    1.021818      0.6 1.4 kzf09 1 0 1
l09kz035  log factor   0.9964747      0.6 1.4 kzf09 1 0 1
l09kz036  log factor   0.9884028      0.6 1.4 kzf09 1 0 1
l09kz037  log factor   0.9892357      0.6 1.4 kzf09 1 0 1
l09kz038  log factor    1.017456      0.6 1.4 kzf09 1 0 1
l09kz039  log factor    1.035419      0.6 1.4 kzf09 1 0 1
l09kz040  log factor    1.005455      0.6 1.4 kzf09 1 0 1
l09kz041  log factor   0.9897335      0.6 1.4 kzf09 1 0 1
l09kz042  log factor   0.9968347      0.6 1.4 kzf09 1 0 1
l09kz043  log factor    1.041633      0.6 1.4 kzf09 1 0 1
l09kz044  log factor   0.9817685      0.6 1.4 kzf09 1 0 1
l09kz045  log factor   0.9117502      0.6 1.4 kzf09 1 0 1
```



```
l09kz046  log factor   0.9970228      0.6 1.4 kzf09 1 0 1
l09kz047  log factor    1.033420      0.6 1.4 kzf09 1 0 1
l09kz048  log factor   0.9968002      0.6 1.4 kzf09 1 0 1
l09kz049  log factor    1.031389      0.6 1.4 kzf09 1 0 1
l09kz050  log factor    1.011011      0.6 1.4 kzf09 1 0 1
l09kz051  log factor    1.015181      0.6 1.4 kzf09 1 0 1
l10kz001  log factor    1.003489      0.6 1.4 kzf10 1 0 1
l10kz002  log factor    1.000984      0.6 1.4 kzf10 1 0 1
l10kz003  log factor    1.012889      0.6 1.4 kzf10 1 0 1
l10kz004  log factor   0.9940903      0.6 1.4 kzf10 1 0 1
l10kz005  log factor   0.9892718      0.6 1.4 kzf10 1 0 1
l10kz006  log factor    1.040398      0.6 1.4 kzf10 1 0 1
l10kz007  log factor    1.069077      0.6 1.4 kzf10 1 0 1
l10kz008  log factor    1.014656      0.6 1.4 kzf10 1 0 1
l10kz009  log factor   0.7587868      0.6 1.4 kzf10 1 0 1
l10kz010  log factor    1.000547      0.6 1.4 kzf10 1 0 1
l10kz011  log factor   0.9789524      0.6 1.4 kzf10 1 0 1
l10kz012  log factor   0.9307153      0.6 1.4 kzf10 1 0 1
l10kz013  log factor   0.9698229      0.6 1.4 kzf10 1 0 1
l10kz014  log factor   0.7713526      0.6 1.4 kzf10 1 0 1
l10kz015  log factor    1.098367      0.6 1.4 kzf10 1 0 1
l10kz016  log factor    1.271915      0.6 1.4 kzf10 1 0 1
l10kz017  log factor    1.247242      0.6 1.4 kzf10 1 0 1
l10kz018  log factor   0.7684340      0.6 1.4 kzf10 1 0 1
l10kz019  log factor    1.400000      0.6 1.4 kzf10 1 0 1
l10kz020  log factor   0.7759123      0.6 1.4 kzf10 1 0 1
l10kz021  log factor   0.8956343      0.6 1.4 kzf10 1 0 1
l10kz022  log factor    1.026364      0.6 1.4 kzf10 1 0 1
l10kz023  log factor    1.102090      0.6 1.4 kzf10 1 0 1
l10kz024  log factor    1.107100      0.6 1.4 kzf10 1 0 1
l10kz025  log factor   0.9828145      0.6 1.4 kzf10 1 0 1
l10kz026  log factor   0.9387472      0.6 1.4 kzf10 1 0 1
l10kz027  log factor   0.9880614      0.6 1.4 kzf10 1 0 1
l10kz028  log factor   0.9978826      0.6 1.4 kzf10 1 0 1
l10kz029  log factor   0.9620572      0.6 1.4 kzf10 1 0 1
l10kz030  log factor   0.6000000      0.6 1.4 kzf10 1 0 1
l10kz031  log factor   0.6024257      0.6 1.4 kzf10 1 0 1
l10kz032  log factor   0.6000000      0.6 1.4 kzf10 1 0 1
l10kz033  log factor    1.400000      0.6 1.4 kzf10 1 0 1
l10kz034  log factor    1.400000      0.6 1.4 kzf10 1 0 1
l10kz035  log factor    1.010206      0.6 1.4 kzf10 1 0 1
l10kz036  log factor    1.055080      0.6 1.4 kzf10 1 0 1
l10kz037  log factor   0.6000000      0.6 1.4 kzf10 1 0 1
l10kz038  log factor    1.230712      0.6 1.4 kzf10 1 0 1
l10kz039  log factor   0.9270017      0.6 1.4 kzf10 1 0 1
l10kz040  log factor    1.111408      0.6 1.4 kzf10 1 0 1
l10kz041  log factor    1.094794      0.6 1.4 kzf10 1 0 1
```



```
l10kz042  log factor   0.6000000      0.6 1.4 kzf10 1 0 1
l10kz043  log factor   0.6000000      0.6 1.4 kzf10 1 0 1
l10kz044  log factor    1.130157      0.6 1.4 kzf10 1 0 1
l11kz001  log factor    1.003595      0.6 1.4 kzf11 1 0 1
l11kz002  log factor   0.9998909      0.6 1.4 kzf11 1 0 1
l11kz003  log factor   0.9947184      0.6 1.4 kzf11 1 0 1
l11kz004  log factor    1.000883      0.6 1.4 kzf11 1 0 1
l11kz005  log factor   0.9978975      0.6 1.4 kzf11 1 0 1
l11kz006  log factor    1.011423      0.6 1.4 kzf11 1 0 1
l11kz007  log factor    1.005406      0.6 1.4 kzf11 1 0 1
l11kz008  log factor    1.028696      0.6 1.4 kzf11 1 0 1
l11kz009  log factor    1.006806      0.6 1.4 kzf11 1 0 1
l11kz010  log factor    1.034869      0.6 1.4 kzf11 1 0 1
l11kz011  log factor   0.9277244      0.6 1.4 kzf11 1 0 1
l11kz012  log factor    1.006479      0.6 1.4 kzf11 1 0 1
l11kz013  log factor   0.9820926      0.6 1.4 kzf11 1 0 1
l11kz014  log factor    1.000889      0.6 1.4 kzf11 1 0 1
l11kz015  log factor   0.9939263      0.6 1.4 kzf11 1 0 1
l11kz016  log factor   0.9757050      0.6 1.4 kzf11 1 0 1
l11kz017  log factor    1.013041      0.6 1.4 kzf11 1 0 1
l11kz018  log factor   0.9720362      0.6 1.4 kzf11 1 0 1
l11kz019  log factor   0.9697727      0.6 1.4 kzf11 1 0 1
l11kz020  log factor   0.9983412      0.6 1.4 kzf11 1 0 1
l11kz021  log factor   0.9918187      0.6 1.4 kzf11 1 0 1
l11kz022  log factor    1.002199      0.6 1.4 kzf11 1 0 1
l11kz023  log factor    1.045833      0.6 1.4 kzf11 1 0 1
l11kz024  log factor    1.023904      0.6 1.4 kzf11 1 0 1
l11kz025  log factor   0.9819410      0.6 1.4 kzf11 1 0 1
l11kz026  log factor   0.9942101      0.6 1.4 kzf11 1 0 1
l11kz027  log factor   0.9455560      0.6 1.4 kzf11 1 0 1
l11kz028  log factor    1.058343      0.6 1.4 kzf11 1 0 1
l11kz029  log factor    1.014651      0.6 1.4 kzf11 1 0 1
l11kz030  log factor    1.007253      0.6 1.4 kzf11 1 0 1
l11kz031  log factor   0.9883534      0.6 1.4 kzf11 1 0 1
l11kz032  log factor    1.007360      0.6 1.4 kzf11 1 0 1
l11kz033  log factor   0.9927655      0.6 1.4 kzf11 1 0 1
l11kz034  log factor   0.9860066      0.6 1.4 kzf11 1 0 1
l11kz035  log factor   0.9775189      0.6 1.4 kzf11 1 0 1
l11kz036  log factor   0.9787823      0.6 1.4 kzf11 1 0 1
l11kz037  log factor   0.9957797      0.6 1.4 kzf11 1 0 1
l11kz038  log factor    1.002285      0.6 1.4 kzf11 1 0 1
l11kz039  log factor    1.072108      0.6 1.4 kzf11 1 0 1
l11kz040  log factor   0.7432858      0.6 1.4 kzf11 1 0 1
l11kz041  log factor    1.000557      0.6 1.4 kzf11 1 0 1
l11kz042  log factor   0.9893560      0.6 1.4 kzf11 1 0 1
l11kz043  log factor   0.9923727      0.6 1.4 kzf11 1 0 1
l11kz044  log factor   0.9790625      0.6 1.4 kzf11 1 0 1
```



```
l11kz045  log factor   0.8100389      0.6 1.4 kzf11 1 0 1
l11kz046  log factor   0.8249483      0.6 1.4 kzf11 1 0 1
l11kz047  log factor   0.9903548      0.6 1.4 kzf11 1 0 1
l11kz048  log factor    1.004067      0.6 1.4 kzf11 1 0 1
l11kz049  log factor    1.051471      0.6 1.4 kzf11 1 0 1
l11kz050  log factor    1.047460      0.6 1.4 kzf11 1 0 1
l11kz051  log factor    1.006622      0.6 1.4 kzf11 1 0 1
l11kz052  log factor   0.9283171      0.6 1.4 kzf11 1 0 1
l11kz053  log factor    1.046359      0.6 1.4 kzf11 1 0 1
l11kz054  log factor   0.9871597      0.6 1.4 kzf11 1 0 1
l11kz055  log factor    1.137832      0.6 1.4 kzf11 1 0 1
l12kz001  log factor   0.9919650      0.6 1.4 kzf12 1 0 1
l12kz002  log factor    1.006806      0.6 1.4 kzf12 1 0 1
l12kz003  log factor   0.9223500      0.6 1.4 kzf12 1 0 1
l12kz004  log factor   0.9155419      0.6 1.4 kzf12 1 0 1
l12kz005  log factor   0.9499797      0.6 1.4 kzf12 1 0 1
l12kz006  log factor   0.9272421      0.6 1.4 kzf12 1 0 1
l12kz007  log factor    1.209197      0.6 1.4 kzf12 1 0 1
l12kz008  log factor    1.123791      0.6 1.4 kzf12 1 0 1
l12kz009  log factor    1.400000      0.6 1.4 kzf12 1 0 1
l12kz010  log factor    1.211517      0.6 1.4 kzf12 1 0 1
l12kz011  log factor    1.400000      0.6 1.4 kzf12 1 0 1
l12kz012  log factor   0.9942108      0.6 1.4 kzf12 1 0 1
l12kz013  log factor   0.9699509      0.6 1.4 kzf12 1 0 1
l12kz014  log factor    1.003414      0.6 1.4 kzf12 1 0 1
l12kz015  log factor   0.9417732      0.6 1.4 kzf12 1 0 1
l12kz016  log factor   0.9820929      0.6 1.4 kzf12 1 0 1
l12kz017  log factor    1.018270      0.6 1.4 kzf12 1 0 1
l12kz018  log factor   0.9441222      0.6 1.4 kzf12 1 0 1
l12kz019  log factor   0.6368182      0.6 1.4 kzf12 1 0 1
l12kz020  log factor   0.8158722      0.6 1.4 kzf12 1 0 1
l12kz021  log factor   0.7960094      0.6 1.4 kzf12 1 0 1
l12kz022  log factor    1.123072      0.6 1.4 kzf12 1 0 1
l12kz023  log factor    1.099718      0.6 1.4 kzf12 1 0 1
l12kz024  log factor   0.9472494      0.6 1.4 kzf12 1 0 1
l12kz025  log factor   0.8377753      0.6 1.4 kzf12 1 0 1
l12kz026  log factor    1.016112      0.6 1.4 kzf12 1 0 1
l12kz027  log factor    1.400000      0.6 1.4 kzf12 1 0 1
l12kz028  log factor   0.8502199      0.6 1.4 kzf12 1 0 1
l12kz029  log factor    1.400000      0.6 1.4 kzf12 1 0 1
l12kz030  log factor    1.345678      0.6 1.4 kzf12 1 0 1
l12kz031  log factor   0.6000000      0.6 1.4 kzf12 1 0 1
l12kz032  log factor   0.9096507      0.6 1.4 kzf12 1 0 1
l12kz033  log factor    1.017268      0.6 1.4 kzf12 1 0 1
l12kz034  log factor   0.9717600      0.6 1.4 kzf12 1 0 1
l12kz035  log factor    1.001017      0.6 1.4 kzf12 1 0 1
l12kz036  log factor   0.8889312      0.6 1.4 kzf12 1 0 1
```



```
l12kz037  log factor   0.9680728      0.6 1.4 kzf12 1 0 1
l12kz038  log factor    1.241613      0.6 1.4 kzf12 1 0 1
l12kz039  log factor    1.017309      0.6 1.4 kzf12 1 0 1
l12kz040  log factor    1.400000      0.6 1.4 kzf12 1 0 1
l12kz041  log factor   0.7820243      0.6 1.4 kzf12 1 0 1
l12kz042  log factor   0.9743065      0.6 1.4 kzf12 1 0 1
l12kz043  log factor   0.6067164      0.6 1.4 kzf12 1 0 1
l12kz044  log factor    1.257990      0.6 1.4 kzf12 1 0 1
l12kz045  log factor    1.036564      0.6 1.4 kzf12 1 0 1
l12kz046  log factor    1.033292      0.6 1.4 kzf12 1 0 1
l13kz001  log factor    1.001108      0.6 1.4 kzf13 1 0 1
l13kz002  log factor   0.9905866      0.6 1.4 kzf13 1 0 1
l13kz003  log factor   0.9828473      0.6 1.4 kzf13 1 0 1
l13kz004  log factor   0.9441857      0.6 1.4 kzf13 1 0 1
l13kz005  log factor   0.9591742      0.6 1.4 kzf13 1 0 1
l13kz006  log factor   0.9917080      0.6 1.4 kzf13 1 0 1
l13kz007  log factor    1.061814      0.6 1.4 kzf13 1 0 1
l13kz008  log factor    1.019459      0.6 1.4 kzf13 1 0 1
l13kz009  log factor    1.373846      0.6 1.4 kzf13 1 0 1
l13kz010  log factor   0.9915517      0.6 1.4 kzf13 1 0 1
l13kz011  log factor    1.400000      0.6 1.4 kzf13 1 0 1
l13kz012  log factor   0.9990734      0.6 1.4 kzf13 1 0 1
l13kz013  log factor   0.9956456      0.6 1.4 kzf13 1 0 1
l13kz014  log factor    1.036704      0.6 1.4 kzf13 1 0 1
l13kz015  log factor    1.125560      0.6 1.4 kzf13 1 0 1
l13kz016  log factor   0.9849087      0.6 1.4 kzf13 1 0 1
l13kz017  log factor   0.9883191      0.6 1.4 kzf13 1 0 1
l13kz018  log factor    1.001676      0.6 1.4 kzf13 1 0 1
l13kz019  log factor   0.9972678      0.6 1.4 kzf13 1 0 1
l13kz020  log factor   0.8426387      0.6 1.4 kzf13 1 0 1
l13kz021  log factor    1.238894      0.6 1.4 kzf13 1 0 1
l13kz022  log factor    1.000313      0.6 1.4 kzf13 1 0 1
l13kz023  log factor    1.028848      0.6 1.4 kzf13 1 0 1
l13kz024  log factor    1.014927      0.6 1.4 kzf13 1 0 1
l13kz025  log factor    1.050913      0.6 1.4 kzf13 1 0 1
l13kz026  log factor    1.008447      0.6 1.4 kzf13 1 0 1
l13kz027  log factor   0.9971929      0.6 1.4 kzf13 1 0 1
l13kz028  log factor   0.9747075      0.6 1.4 kzf13 1 0 1
l13kz029  log factor   0.8643349      0.6 1.4 kzf13 1 0 1
l13kz030  log factor   0.7012009      0.6 1.4 kzf13 1 0 1
l13kz031  log factor   0.8434574      0.6 1.4 kzf13 1 0 1
l13kz032  log factor    1.048795      0.6 1.4 kzf13 1 0 1
l13kz033  log factor   0.7357219      0.6 1.4 kzf13 1 0 1
l13kz034  log factor   0.9859677      0.6 1.4 kzf13 1 0 1
l13kz035  log factor   0.9802987      0.6 1.4 kzf13 1 0 1
l13kz036  log factor    1.041612      0.6 1.4 kzf13 1 0 1
l13kz037  log factor    1.059879      0.6 1.4 kzf13 1 0 1
```



```
l13kz038  log factor   0.9741382      0.6 1.4 kzf13 1 0 1
l13kz039  log factor    1.182005      0.6 1.4 kzf13 1 0 1
l13kz040  log factor    1.199817      0.6 1.4 kzf13 1 0 1
l13kz041  log factor    1.167233      0.6 1.4 kzf13 1 0 1
l13kz042  log factor   0.8926847      0.6 1.4 kzf13 1 0 1
l13kz043  log factor    1.017842      0.6 1.4 kzf13 1 0 1
l13kz044  log factor   0.9442338      0.6 1.4 kzf13 1 0 1
l13kz045  log factor    1.399140      0.6 1.4 kzf13 1 0 1
l13kz046  log factor    1.400000      0.6 1.4 kzf13 1 0 1
l13kz047  log factor    1.360776      0.6 1.4 kzf13 1 0 1
l13kz048  log factor    1.000026      0.6 1.4 kzf13 1 0 1
l13kz049  log factor    1.042207      0.6 1.4 kzf13 1 0 1
l14kz001  log factor   0.9983720      0.6 1.4 kzf14 1 0 1
l14kz002  log factor   0.9784017      0.6 1.4 kzf14 1 0 1
l14kz003  log factor    1.021765      0.6 1.4 kzf14 1 0 1
l14kz004  log factor   0.9265172      0.6 1.4 kzf14 1 0 1
l14kz005  log factor    1.059883      0.6 1.4 kzf14 1 0 1
l14kz006  log factor   0.9876937      0.6 1.4 kzf14 1 0 1
l14kz007  log factor    1.400000      0.6 1.4 kzf14 1 0 1
l14kz008  log factor    1.400000      0.6 1.4 kzf14 1 0 1
l14kz009  log factor    1.400000      0.6 1.4 kzf14 1 0 1
l14kz010  log factor   0.9223433      0.6 1.4 kzf14 1 0 1
l14kz011  log factor   0.7474916      0.6 1.4 kzf14 1 0 1
l14kz012  log factor   0.7632236      0.6 1.4 kzf14 1 0 1
l14kz013  log factor   0.6318853      0.6 1.4 kzf14 1 0 1
l14kz014  log factor    1.115280      0.6 1.4 kzf14 1 0 1
l14kz015  log factor   0.7773427      0.6 1.4 kzf14 1 0 1
l14kz016  log factor   0.6116632      0.6 1.4 kzf14 1 0 1
l14kz017  log factor    1.023226      0.6 1.4 kzf14 1 0 1
l14kz018  log factor    1.152532      0.6 1.4 kzf14 1 0 1
l14kz019  log factor   0.9730229      0.6 1.4 kzf14 1 0 1
l14kz020  log factor   0.9906892      0.6 1.4 kzf14 1 0 1
l14kz021  log factor   0.9834538      0.6 1.4 kzf14 1 0 1
l14kz022  log factor   0.9213349      0.6 1.4 kzf14 1 0 1
l14kz023  log factor    1.032202      0.6 1.4 kzf14 1 0 1
l14kz024  log factor    1.172602      0.6 1.4 kzf14 1 0 1
l14kz025  log factor    1.103511      0.6 1.4 kzf14 1 0 1
l14kz026  log factor    1.110994      0.6 1.4 kzf14 1 0 1
l14kz027  log factor    1.078706      0.6 1.4 kzf14 1 0 1
l14kz028  log factor    1.400000      0.6 1.4 kzf14 1 0 1
l14kz029  log factor   0.9543268      0.6 1.4 kzf14 1 0 1
l14kz030  log factor   0.8971278      0.6 1.4 kzf14 1 0 1
l14kz031  log factor   0.9383675      0.6 1.4 kzf14 1 0 1
l14kz032  log factor   0.9054873      0.6 1.4 kzf14 1 0 1
l14kz033  log factor    1.065026      0.6 1.4 kzf14 1 0 1
l14kz034  log factor    1.209393      0.6 1.4 kzf14 1 0 1
l14kz035  log factor   0.6581874      0.6 1.4 kzf14 1 0 1
```



```
l14kz036  log factor   0.7394931      0.6 1.4 kzf14 1 0 1
l14kz037  log factor    1.211377      0.6 1.4 kzf14 1 0 1
l14kz038  log factor   0.9445486      0.6 1.4 kzf14 1 0 1
l14kz039  log factor   0.9580956      0.6 1.4 kzf14 1 0 1
l14kz040  log factor   0.9495222      0.6 1.4 kzf14 1 0 1
l14kz041  log factor   0.8612347      0.6 1.4 kzf14 1 0 1
l14kz042  log factor   0.9911521      0.6 1.4 kzf14 1 0 1
l14kz043  log factor   0.9993047      0.6 1.4 kzf14 1 0 1
l14kz044  log factor   0.9715261      0.6 1.4 kzf14 1 0 1
l14kz045  log factor    1.058371      0.6 1.4 kzf14 1 0 1
l14kz046  log factor    1.010110      0.6 1.4 kzf14 1 0 1
l14kz047  log factor   0.9230306      0.6 1.4 kzf14 1 0 1
l14kz048  log factor   0.9305965      0.6 1.4 kzf14 1 0 1
l14kz049  log factor    1.400000      0.6 1.4 kzf14 1 0 1
l14kz050  log factor   0.7832650      0.6 1.4 kzf14 1 0 1
l14kz051  log factor   0.8583380      0.6 1.4 kzf14 1 0 1
l15kz001  log factor   0.9674439      0.6 1.4 kzf15 1 0 1
l15kz002  log factor   0.8958848      0.6 1.4 kzf15 1 0 1
l15kz003  log factor   0.9657223      0.6 1.4 kzf15 1 0 1
l15kz004  log factor    1.049174      0.6 1.4 kzf15 1 0 1
l15kz005  log factor   0.8070866      0.6 1.4 kzf15 1 0 1
l15kz006  log factor   0.7374741      0.6 1.4 kzf15 1 0 1
l15kz007  log factor   0.8788349      0.6 1.4 kzf15 1 0 1
l15kz008  log factor   0.8431514      0.6 1.4 kzf15 1 0 1
l15kz009  log factor   0.6726423      0.6 1.4 kzf15 1 0 1
l15kz010  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l15kz011  log factor   0.9627382      0.6 1.4 kzf15 1 0 1
l15kz012  log factor   0.9952643      0.6 1.4 kzf15 1 0 1
l15kz013  log factor    1.400000      0.6 1.4 kzf15 1 0 1
l15kz014  log factor    1.395695      0.6 1.4 kzf15 1 0 1
l15kz015  log factor    1.097082      0.6 1.4 kzf15 1 0 1
l15kz016  log factor   0.9883278      0.6 1.4 kzf15 1 0 1
l15kz017  log factor    1.028456      0.6 1.4 kzf15 1 0 1
l15kz018  log factor   0.8624389      0.6 1.4 kzf15 1 0 1
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l15kz020  log factor   0.9645421      0.6 1.4 kzf15 1 0 1
l15kz021  log factor   0.9583047      0.6 1.4 kzf15 1 0 1
l15kz022  log factor   0.8924297      0.6 1.4 kzf15 1 0 1
l15kz023  log factor   0.8582413      0.6 1.4 kzf15 1 0 1
l15kz024  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l15kz025  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l15kz026  log factor   0.9904286      0.6 1.4 kzf15 1 0 1
l15kz027  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l15kz028  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l15kz029  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l15kz030  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l15kz031  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
```



```
l15kz032  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l15kz033  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l15kz034  log factor    1.035215      0.6 1.4 kzf15 1 0 1
l15kz035  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l15kz036  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l15kz037  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l15kz038  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l15kz039  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l15kz040  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l15kz041  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l15kz042  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l15kz043  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l15kz044  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l15kz045  log factor    1.107625      0.6 1.4 kzf15 1 0 1
l15kz046  log factor    1.400000      0.6 1.4 kzf15 1 0 1
l15kz047  log factor    1.400000      0.6 1.4 kzf15 1 0 1
l15kz048  log factor    1.032684      0.6 1.4 kzf15 1 0 1
l15kz049  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l15kz050  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l15kz051  log factor   0.6449847      0.6 1.4 kzf15 1 0 1
l15kz052  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l15kz053  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l15kz054  log factor   0.6000000      0.6 1.4 kzf15 1 0 1
l16kz001  log factor   0.9921946      0.6 1.4 kzf16 1 0 1
l16kz002  log factor   0.9906815      0.6 1.4 kzf16 1 0 1
l16kz003  log factor   0.9918980      0.6 1.4 kzf16 1 0 1
l16kz004  log factor   0.9943239      0.6 1.4 kzf16 1 0 1
l16kz005  log factor   0.9973130      0.6 1.4 kzf16 1 0 1
l16kz006  log factor   0.9886665      0.6 1.4 kzf16 1 0 1
l16kz007  log factor   0.9764147      0.6 1.4 kzf16 1 0 1
l16kz008  log factor    1.002056      0.6 1.4 kzf16 1 0 1
l16kz009  log factor   0.9993301      0.6 1.4 kzf16 1 0 1
l16kz010  log factor   0.9929065      0.6 1.4 kzf16 1 0 1
l16kz011  log factor    1.004249      0.6 1.4 kzf16 1 0 1
l16kz012  log factor    1.000907      0.6 1.4 kzf16 1 0 1
l16kz013  log factor    1.002798      0.6 1.4 kzf16 1 0 1
l16kz014  log factor    1.014333      0.6 1.4 kzf16 1 0 1
l16kz015  log factor    1.008090      0.6 1.4 kzf16 1 0 1
l16kz016  log factor   0.9996638      0.6 1.4 kzf16 1 0 1
l16kz017  log factor   0.9495412      0.6 1.4 kzf16 1 0 1
l16kz018  log factor   0.9959544      0.6 1.4 kzf16 1 0 1
l16kz019  log factor   0.9956795      0.6 1.4 kzf16 1 0 1
l16kz020  log factor   0.9910009      0.6 1.4 kzf16 1 0 1
l16kz021  log factor   0.9772635      0.6 1.4 kzf16 1 0 1
l16kz022  log factor   0.9898504      0.6 1.4 kzf16 1 0 1
l16kz023  log factor   0.9708332      0.6 1.4 kzf16 1 0 1
l16kz024  log factor    1.023446      0.6 1.4 kzf16 1 0 1
```

```
l16kz025  log factor   0.9771641      0.6 1.4 kzf16 1 0 1
l16kz026  log factor    1.035503      0.6 1.4 kzf16 1 0 1
l16kz027  log factor    1.400000      0.6 1.4 kzf16 1 0 1
l16kz028  log factor   0.9981535      0.6 1.4 kzf16 1 0 1
l16kz029  log factor   0.9704070      0.6 1.4 kzf16 1 0 1
l16kz030  log factor   0.9767016      0.6 1.4 kzf16 1 0 1
l16kz031  log factor   0.9759511      0.6 1.4 kzf16 1 0 1
l16kz032  log factor    1.065545      0.6 1.4 kzf16 1 0 1
l16kz033  log factor    1.126023      0.6 1.4 kzf16 1 0 1
l16kz034  log factor   0.7608530      0.6 1.4 kzf16 1 0 1
l16kz035  log factor   0.8830171      0.6 1.4 kzf16 1 0 1
l16kz036  log factor   0.9838537      0.6 1.4 kzf16 1 0 1
l16kz037  log factor   0.9594325      0.6 1.4 kzf16 1 0 1
l16kz038  log factor   0.9546565      0.6 1.4 kzf16 1 0 1
l16kz039  log factor   0.8683267      0.6 1.4 kzf16 1 0 1
l16kz040  log factor    1.155937      0.6 1.4 kzf16 1 0 1
l16kz041  log factor    1.003120      0.6 1.4 kzf16 1 0 1
l16kz042  log factor    1.272752      0.6 1.4 kzf16 1 0 1
l16kz043  log factor   0.9799251      0.6 1.4 kzf16 1 0 1
l16kz044  log factor   0.9808433      0.6 1.4 kzf16 1 0 1
l16kz045  log factor   0.9865315      0.6 1.4 kzf16 1 0 1
l16kz046  log factor   0.9858212      0.6 1.4 kzf16 1 0 1
l16kz047  log factor   0.9860722      0.6 1.4 kzf16 1 0 1
l16kz048  log factor    1.106103      0.6 1.4 kzf16 1 0 1
l16kz049  log factor   0.9233155      0.6 1.4 kzf16 1 0 1
l16kz050  log factor   0.9794680      0.6 1.4 kzf16 1 0 1
l16kz051  log factor   0.9526932      0.6 1.4 kzf16 1 0 1
l16kz052  log factor   0.8529430      0.6 1.4 kzf16 1 0 1
l16kz053  log factor    1.008915      0.6 1.4 kzf16 1 0 1
l16kz054  log factor    1.096163      0.6 1.4 kzf16 1 0 1
l16kz055  log factor    1.012341      0.6 1.4 kzf16 1 0 1
l16kz056  log factor   0.9952726      0.6 1.4 kzf16 1 0 1
l16kz057  log factor   0.9185891      0.6 1.4 kzf16 1 0 1
l16kz058  log factor   0.9328274      0.6 1.4 kzf16 1 0 1
l16kz059  log factor   0.9649716      0.6 1.4 kzf16 1 0 1
l16kz060  log factor   0.9603365      0.6 1.4 kzf16 1 0 1
l16kz061  log factor    1.186316      0.6 1.4 kzf16 1 0 1
l16kz062  log factor   0.9368531      0.6 1.4 kzf16 1 0 1
l17kz001  log factor    1.400000      0.6 1.4 kzf17 1 0 1
l17kz002  log factor   0.8133932      0.6 1.4 kzf17 1 0 1
l17kz003  log factor    1.400000      0.6 1.4 kzf17 1 0 1
l17kz004  log factor   0.6978696      0.6 1.4 kzf17 1 0 1
l17kz005  log factor   0.8596653      0.6 1.4 kzf17 1 0 1
l17kz006  log factor    1.247102      0.6 1.4 kzf17 1 0 1
l17kz007  log factor   0.6000000      0.6 1.4 kzf17 1 0 1
l17kz008  log factor   0.6000000      0.6 1.4 kzf17 1 0 1
l17kz009  log factor    1.259507      0.6 1.4 kzf17 1 0 1
```



```
l17kz010  log factor   0.9027693      0.6 1.4 kzf17 1 0 1
l17kz011  log factor   0.9967436      0.6 1.4 kzf17 1 0 1
l17kz012  log factor   0.8449557      0.6 1.4 kzf17 1 0 1
l17kz013  log factor   0.7046082      0.6 1.4 kzf17 1 0 1
l17kz014  log factor   0.8687184      0.6 1.4 kzf17 1 0 1
l17kz015  log factor    1.400000      0.6 1.4 kzf17 1 0 1
l17kz016  log factor   0.9704856      0.6 1.4 kzf17 1 0 1
l17kz017  log factor   0.7425579      0.6 1.4 kzf17 1 0 1
l17kz018  log factor    1.096068      0.6 1.4 kzf17 1 0 1
l17kz019  log factor   0.6838630      0.6 1.4 kzf17 1 0 1
l17kz020  log factor   0.7176546      0.6 1.4 kzf17 1 0 1
l17kz021  log factor    1.107942      0.6 1.4 kzf17 1 0 1
l17kz022  log factor   0.6000000      0.6 1.4 kzf17 1 0 1
l17kz023  log factor   0.6000000      0.6 1.4 kzf17 1 0 1
l17kz024  log factor   0.6000000      0.6 1.4 kzf17 1 0 1
l17kz025  log factor    1.326697      0.6 1.4 kzf17 1 0 1
l17kz026  log factor    1.400000      0.6 1.4 kzf17 1 0 1
l17kz027  log factor    1.400000      0.6 1.4 kzf17 1 0 1
l17kz028  log factor   0.8517911      0.6 1.4 kzf17 1 0 1
l17kz029  log factor    1.106049      0.6 1.4 kzf17 1 0 1
l17kz030  log factor   0.8071511      0.6 1.4 kzf17 1 0 1
l17kz031  log factor   0.9539594      0.6 1.4 kzf17 1 0 1
l17kz032  log factor    1.076996      0.6 1.4 kzf17 1 0 1
l17kz033  log factor   0.7619221      0.6 1.4 kzf17 1 0 1
l17kz034  log factor    1.400000      0.6 1.4 kzf17 1 0 1
l17kz035  log factor   0.6000000      0.6 1.4 kzf17 1 0 1
l17kz036  log factor   0.8267234      0.6 1.4 kzf17 1 0 1
l17kz037  log factor   0.6000000      0.6 1.4 kzf17 1 0 1
l17kz038  log factor    1.170356      0.6 1.4 kzf17 1 0 1
l17kz039  log factor   0.6977288      0.6 1.4 kzf17 1 0 1
l17kz040  log factor    1.400000      0.6 1.4 kzf17 1 0 1
l17kz041  log factor    1.400000      0.6 1.4 kzf17 1 0 1
l17kz042  log factor    1.400000      0.6 1.4 kzf17 1 0 1
l17kz043  log factor   0.9462843      0.6 1.4 kzf17 1 0 1
l17kz044  log factor   0.6000000      0.6 1.4 kzf17 1 0 1
l17kz045  log factor    1.400000      0.6 1.4 kzf17 1 0 1
l17kz046  log factor   0.9133066      0.6 1.4 kzf17 1 0 1
l17kz047  log factor   0.6000000      0.6 1.4 kzf17 1 0 1
l17kz048  log factor   0.6000000      0.6 1.4 kzf17 1 0 1
l17kz049  log factor   0.6000000      0.6 1.4 kzf17 1 0 1
l17kz050  log factor   0.6000000      0.6 1.4 kzf17 1 0 1
l17kz051  log factor   0.6346109      0.6 1.4 kzf17 1 0 1
l17kz052  log factor    1.400000      0.6 1.4 kzf17 1 0 1
l17kz053  log factor    1.363161      0.6 1.4 kzf17 1 0 1
l17kz054  log factor    1.400000      0.6 1.4 kzf17 1 0 1
l17kz055  log factor    1.151394      0.6 1.4 kzf17 1 0 1
l17kz056  log factor   0.6000000      0.6 1.4 kzf17 1 0 1
```



```
l17kz057  log factor   0.6576464      0.6 1.4 kzf17 1 0 1
l17kz058  log factor    1.400000      0.6 1.4 kzf17 1 0 1
l17kz059  log factor    1.054728      0.6 1.4 kzf17 1 0 1
l17kz060  log factor   0.9518123      0.6 1.4 kzf17 1 0 1
l17kz061  log factor   0.8673659      0.6 1.4 kzf17 1 0 1
l17kz062  log factor    1.372403      0.6 1.4 kzf17 1 0 1
l17kz063  log factor   0.7107773      0.6 1.4 kzf17 1 0 1
l17kz064  log factor    1.311322      0.6 1.4 kzf17 1 0 1
l17kz065  log factor   0.8005675      0.6 1.4 kzf17 1 0 1
l17kz066  log factor    1.204353      0.6 1.4 kzf17 1 0 1
l17kz067  log factor    1.400000      0.6 1.4 kzf17 1 0 1
l17kz068  log factor   0.8454682      0.6 1.4 kzf17 1 0 1
l17kz069  log factor   0.7790799      0.6 1.4 kzf17 1 0 1
l18kz001  log factor    1.004144      0.6 1.4 kzf18 1 0 1
l18kz002  log factor    1.001260      0.6 1.4 kzf18 1 0 1
l18kz003  log factor    1.003199      0.6 1.4 kzf18 1 0 1
l18kz004  log factor   0.9977327      0.6 1.4 kzf18 1 0 1
l18kz005  log factor    1.014193      0.6 1.4 kzf18 1 0 1
l18kz006  log factor    1.011955      0.6 1.4 kzf18 1 0 1
l18kz007  log factor    1.097938      0.6 1.4 kzf18 1 0 1
l18kz008  log factor    1.019140      0.6 1.4 kzf18 1 0 1
l18kz009  log factor    1.015047      0.6 1.4 kzf18 1 0 1
l18kz010  log factor   0.9986390      0.6 1.4 kzf18 1 0 1
l18kz011  log factor   0.9983493      0.6 1.4 kzf18 1 0 1
l18kz012  log factor    1.000787      0.6 1.4 kzf18 1 0 1
l18kz013  log factor   0.9984339      0.6 1.4 kzf18 1 0 1
l18kz014  log factor   0.9937795      0.6 1.4 kzf18 1 0 1
l18kz015  log factor    1.006674      0.6 1.4 kzf18 1 0 1
l18kz016  log factor    1.012229      0.6 1.4 kzf18 1 0 1
l18kz017  log factor    1.002094      0.6 1.4 kzf18 1 0 1
l18kz018  log factor    1.000906      0.6 1.4 kzf18 1 0 1
l18kz019  log factor    1.012851      0.6 1.4 kzf18 1 0 1
l18kz020  log factor    1.039924      0.6 1.4 kzf18 1 0 1
l18kz021  log factor    1.014752      0.6 1.4 kzf18 1 0 1
l18kz022  log factor    1.023754      0.6 1.4 kzf18 1 0 1
l18kz023  log factor    1.017326      0.6 1.4 kzf18 1 0 1
l18kz024  log factor    1.054511      0.6 1.4 kzf18 1 0 1
l18kz025  log factor    1.007424      0.6 1.4 kzf18 1 0 1
l18kz026  log factor   0.9889251      0.6 1.4 kzf18 1 0 1
l18kz027  log factor   0.9627304      0.6 1.4 kzf18 1 0 1
l18kz028  log factor   0.9621743      0.6 1.4 kzf18 1 0 1
l18kz029  log factor    1.022453      0.6 1.4 kzf18 1 0 1
l18kz030  log factor    1.128814      0.6 1.4 kzf18 1 0 1
l18kz031  log factor    1.000086      0.6 1.4 kzf18 1 0 1
l18kz032  log factor    1.000570      0.6 1.4 kzf18 1 0 1
l18kz033  log factor   0.9975216      0.6 1.4 kzf18 1 0 1
l18kz034  log factor    1.005435      0.6 1.4 kzf18 1 0 1
```



```
l18kz035  log factor    1.003652      0.6 1.4 kzf18 1 0 1
l18kz036  log factor    1.000216      0.6 1.4 kzf18 1 0 1
l18kz037  log factor   0.9979901      0.6 1.4 kzf18 1 0 1
l18kz038  log factor   0.9953165      0.6 1.4 kzf18 1 0 1
l18kz039  log factor   0.9930542      0.6 1.4 kzf18 1 0 1
l18kz040  log factor    1.008822      0.6 1.4 kzf18 1 0 1
l18kz041  log factor   0.9902953      0.6 1.4 kzf18 1 0 1
l18kz042  log factor   0.9999590      0.6 1.4 kzf18 1 0 1
l18kz043  log factor   0.9967013      0.6 1.4 kzf18 1 0 1
l18kz044  log factor    1.104329      0.6 1.4 kzf18 1 0 1
l18kz045  log factor    1.032835      0.6 1.4 kzf18 1 0 1
l19kz001  log factor   0.9883937      0.6 1.4 kzf19 1 0 1
l19kz002  log factor   0.9435849      0.6 1.4 kzf19 1 0 1
l19kz003  log factor   0.9865788      0.6 1.4 kzf19 1 0 1
l19kz004  log factor    1.053142      0.6 1.4 kzf19 1 0 1
l19kz005  log factor    1.020835      0.6 1.4 kzf19 1 0 1
l19kz006  log factor    1.400000      0.6 1.4 kzf19 1 0 1
l19kz007  log factor    1.400000      0.6 1.4 kzf19 1 0 1
l19kz008  log factor   0.7575727      0.6 1.4 kzf19 1 0 1
l19kz009  log factor    1.081166      0.6 1.4 kzf19 1 0 1
l19kz010  log factor    1.184576      0.6 1.4 kzf19 1 0 1
l19kz011  log factor   0.9282037      0.6 1.4 kzf19 1 0 1
l19kz012  log factor    1.177302      0.6 1.4 kzf19 1 0 1
l19kz013  log factor   0.8140214      0.6 1.4 kzf19 1 0 1
l19kz014  log factor   0.8693263      0.6 1.4 kzf19 1 0 1
l19kz015  log factor   0.8836902      0.6 1.4 kzf19 1 0 1
l19kz016  log factor   0.9852684      0.6 1.4 kzf19 1 0 1
l19kz017  log factor   0.9625213      0.6 1.4 kzf19 1 0 1
l19kz018  log factor   0.9669554      0.6 1.4 kzf19 1 0 1
l19kz019  log factor   0.9875800      0.6 1.4 kzf19 1 0 1
l19kz020  log factor   0.9469798      0.6 1.4 kzf19 1 0 1
l19kz021  log factor   0.6000000      0.6 1.4 kzf19 1 0 1
l19kz022  log factor    1.400000      0.6 1.4 kzf19 1 0 1
l19kz023  log factor   0.6000000      0.6 1.4 kzf19 1 0 1
l19kz024  log factor   0.6945728      0.6 1.4 kzf19 1 0 1
l19kz025  log factor    1.028112      0.6 1.4 kzf19 1 0 1
l19kz026  log factor    1.115250      0.6 1.4 kzf19 1 0 1
l19kz027  log factor   0.6211537      0.6 1.4 kzf19 1 0 1
l19kz028  log factor   0.6761287      0.6 1.4 kzf19 1 0 1
l19kz029  log factor   0.9862133      0.6 1.4 kzf19 1 0 1
l19kz030  log factor   0.9791278      0.6 1.4 kzf19 1 0 1
l19kz031  log factor    1.006867      0.6 1.4 kzf19 1 0 1
l19kz032  log factor   0.9765952      0.6 1.4 kzf19 1 0 1
l19kz033  log factor    1.055430      0.6 1.4 kzf19 1 0 1
l19kz034  log factor   0.9800223      0.6 1.4 kzf19 1 0 1
l19kz035  log factor    1.012553      0.6 1.4 kzf19 1 0 1
l19kz036  log factor   0.9664269      0.6 1.4 kzf19 1 0 1
```



```
l19kz037  log factor   0.9107130      0.6 1.4 kzf19 1 0 1
l19kz038  log factor   0.9683914      0.6 1.4 kzf19 1 0 1
l19kz039  log factor    1.110068      0.6 1.4 kzf19 1 0 1
l19kz040  log factor   0.9866694      0.6 1.4 kzf19 1 0 1
l19kz041  log factor    1.002874      0.6 1.4 kzf19 1 0 1
l19kz042  log factor   0.9848336      0.6 1.4 kzf19 1 0 1
l19kz043  log factor   0.9861389      0.6 1.4 kzf19 1 0 1
l19kz044  log factor    1.400000      0.6 1.4 kzf19 1 0 1
l19kz045  log factor    1.400000      0.6 1.4 kzf19 1 0 1
l19kz046  log factor   0.8286394      0.6 1.4 kzf19 1 0 1
l19kz047  log factor   0.8782115      0.6 1.4 kzf19 1 0 1
l19kz048  log factor    1.045506      0.6 1.4 kzf19 1 0 1
l19kz049  log factor    1.070598      0.6 1.4 kzf19 1 0 1
l19kz050  log factor   0.7665257      0.6 1.4 kzf19 1 0 1
l19kz051  log factor    1.400000      0.6 1.4 kzf19 1 0 1
l19kz052  log factor    1.184472      0.6 1.4 kzf19 1 0 1
l19kz053  log factor   0.7419814      0.6 1.4 kzf19 1 0 1
l19kz054  log factor   0.6213545      0.6 1.4 kzf19 1 0 1
l19kz055  log factor   0.6826046      0.6 1.4 kzf19 1 0 1
l19kz056  log factor    1.258456      0.6 1.4 kzf19 1 0 1
l19kz057  log factor    1.030505      0.6 1.4 kzf19 1 0 1
l19kz058  log factor    1.400000      0.6 1.4 kzf19 1 0 1
l19kz059  log factor   0.6000000      0.6 1.4 kzf19 1 0 1
l19kz060  log factor   0.6000000      0.6 1.4 kzf19 1 0 1
l19kz061  log factor   0.6000000      0.6 1.4 kzf19 1 0 1
l19kz062  log factor   0.8278236      0.6 1.4 kzf19 1 0 1
l19kz063  log factor    1.209576      0.6 1.4 kzf19 1 0 1
l19kz064  log factor    1.247478      0.6 1.4 kzf19 1 0 1
l19kz065  log factor    1.037864      0.6 1.4 kzf19 1 0 1
l19kz066  log factor   0.8859594      0.6 1.4 kzf19 1 0 1
l19kz067  log factor   0.9303042      0.6 1.4 kzf19 1 0 1
l19kz068  log factor   0.9023616      0.6 1.4 kzf19 1 0 1
l20kz001  log factor    1.005655      0.6 1.4 kzf20 1 0 1
l20kz002  log factor   0.9888528      0.6 1.4 kzf20 1 0 1
l20kz003  log factor   0.9979856      0.6 1.4 kzf20 1 0 1
l20kz004  log factor    1.002991      0.6 1.4 kzf20 1 0 1
l20kz005  log factor   0.9912432      0.6 1.4 kzf20 1 0 1
l20kz006  log factor   0.9924299      0.6 1.4 kzf20 1 0 1
l20kz007  log factor    1.005421      0.6 1.4 kzf20 1 0 1
l20kz008  log factor    1.001297      0.6 1.4 kzf20 1 0 1
l20kz009  log factor    1.007436      0.6 1.4 kzf20 1 0 1
l20kz010  log factor   0.9985739      0.6 1.4 kzf20 1 0 1
l20kz011  log factor    1.003337      0.6 1.4 kzf20 1 0 1
l20kz012  log factor   0.9758248      0.6 1.4 kzf20 1 0 1
l20kz013  log factor    1.001088      0.6 1.4 kzf20 1 0 1
l20kz014  log factor   0.9987697      0.6 1.4 kzf20 1 0 1
l20kz015  log factor   0.9955162      0.6 1.4 kzf20 1 0 1
```



```
l20kz016  log factor   0.9951904      0.6 1.4 kzf20 1 0 1
l20kz017  log factor    1.001221      0.6 1.4 kzf20 1 0 1
l20kz018  log factor   0.9893256      0.6 1.4 kzf20 1 0 1
l20kz019  log factor    1.006477      0.6 1.4 kzf20 1 0 1
l20kz020  log factor   0.9917630      0.6 1.4 kzf20 1 0 1
l20kz021  log factor   0.9791261      0.6 1.4 kzf20 1 0 1
l20kz022  log factor   0.9817663      0.6 1.4 kzf20 1 0 1
l20kz023  log factor   0.9580145      0.6 1.4 kzf20 1 0 1
l20kz024  log factor    1.001699      0.6 1.4 kzf20 1 0 1
l20kz025  log factor   0.9745750      0.6 1.4 kzf20 1 0 1
l20kz026  log factor   0.9091631      0.6 1.4 kzf20 1 0 1
l20kz027  log factor   0.9259693      0.6 1.4 kzf20 1 0 1
l20kz028  log factor   0.9257837      0.6 1.4 kzf20 1 0 1
l20kz029  log factor   0.9862661      0.6 1.4 kzf20 1 0 1
l20kz030  log factor   0.9753853      0.6 1.4 kzf20 1 0 1
l20kz031  log factor    1.005341      0.6 1.4 kzf20 1 0 1
l20kz032  log factor   0.9955727      0.6 1.4 kzf20 1 0 1
l20kz033  log factor   0.8731595      0.6 1.4 kzf20 1 0 1
l20kz034  log factor   0.9905914      0.6 1.4 kzf20 1 0 1
l20kz035  log factor    1.100817      0.6 1.4 kzf20 1 0 1
l20kz036  log factor    1.011126      0.6 1.4 kzf20 1 0 1
l20kz037  log factor   0.9987912      0.6 1.4 kzf20 1 0 1
l20kz038  log factor   0.9790446      0.6 1.4 kzf20 1 0 1
l20kz039  log factor   0.9786624      0.6 1.4 kzf20 1 0 1
l20kz040  log factor   0.9842280      0.6 1.4 kzf20 1 0 1
l20kz041  log factor    1.002523      0.6 1.4 kzf20 1 0 1
l20kz042  log factor    1.028659      0.6 1.4 kzf20 1 0 1
l20kz043  log factor    1.004720      0.6 1.4 kzf20 1 0 1
l20kz044  log factor    1.002850      0.6 1.4 kzf20 1 0 1
l20kz045  log factor    1.026345      0.6 1.4 kzf20 1 0 1
l20kz046  log factor   0.9995209      0.6 1.4 kzf20 1 0 1
l20kz047  log factor    1.018953      0.6 1.4 kzf20 1 0 1
l20kz048  log factor   0.9236862      0.6 1.4 kzf20 1 0 1
l20kz049  log factor    1.041155      0.6 1.4 kzf20 1 0 1
l20kz050  log factor   0.8731262      0.6 1.4 kzf20 1 0 1
l20kz051  log factor   0.8661475      0.6 1.4 kzf20 1 0 1
l20kz052  log factor   0.9780867      0.6 1.4 kzf20 1 0 1
l20kz053  log factor   0.9860180      0.6 1.4 kzf20 1 0 1
l20kz054  log factor   0.9842571      0.6 1.4 kzf20 1 0 1
l20kz055  log factor   0.9574625      0.6 1.4 kzf20 1 0 1
l20kz056  log factor    1.027376      0.6 1.4 kzf20 1 0 1
l20kz057  log factor   0.9793264      0.6 1.4 kzf20 1 0 1
l20kz058  log factor   0.9807523      0.6 1.4 kzf20 1 0 1
l20kz059  log factor   0.9907463      0.6 1.4 kzf20 1 0 1
l20kz060  log factor   0.9987440      0.6 1.4 kzf20 1 0 1
l20kz061  log factor    1.000284      0.6 1.4 kzf20 1 0 1
l20kz062  log factor   0.9949803      0.6 1.4 kzf20 1 0 1
```



```
l21kz001  log factor   0.9282846      0.6 1.4 kzf21 1 0 1
l21kz002  log factor   0.9537840      0.6 1.4 kzf21 1 0 1
l21kz003  log factor   0.9501827      0.6 1.4 kzf21 1 0 1
l21kz004  log factor   0.9711557      0.6 1.4 kzf21 1 0 1
l21kz005  log factor    1.124616      0.6 1.4 kzf21 1 0 1
l21kz006  log factor   0.9729100      0.6 1.4 kzf21 1 0 1
l21kz007  log factor    1.062194      0.6 1.4 kzf21 1 0 1
l21kz008  log factor   0.9228311      0.6 1.4 kzf21 1 0 1
l21kz009  log factor   0.6000000      0.6 1.4 kzf21 1 0 1
l21kz010  log factor   0.6000000      0.6 1.4 kzf21 1 0 1
l21kz011  log factor   0.6000000      0.6 1.4 kzf21 1 0 1
l21kz012  log factor   0.6000000      0.6 1.4 kzf21 1 0 1
l21kz013  log factor   0.8893290      0.6 1.4 kzf21 1 0 1
l21kz014  log factor   0.9278593      0.6 1.4 kzf21 1 0 1
l21kz015  log factor   0.9109383      0.6 1.4 kzf21 1 0 1
l21kz016  log factor   0.9598364      0.6 1.4 kzf21 1 0 1
l21kz017  log factor   0.9742758      0.6 1.4 kzf21 1 0 1
l21kz018  log factor    1.156926      0.6 1.4 kzf21 1 0 1
l21kz019  log factor   0.9459184      0.6 1.4 kzf21 1 0 1
l21kz020  log factor    1.084500      0.6 1.4 kzf21 1 0 1
l21kz021  log factor    1.008119      0.6 1.4 kzf21 1 0 1
l21kz022  log factor   0.9991638      0.6 1.4 kzf21 1 0 1
l21kz023  log factor   0.9877131      0.6 1.4 kzf21 1 0 1
l21kz024  log factor   0.9850513      0.6 1.4 kzf21 1 0 1
l21kz025  log factor   0.9891116      0.6 1.4 kzf21 1 0 1
l21kz026  log factor   0.9279364      0.6 1.4 kzf21 1 0 1
l21kz027  log factor   0.8791539      0.6 1.4 kzf21 1 0 1
l21kz028  log factor   0.8822380      0.6 1.4 kzf21 1 0 1
l21kz029  log factor   0.8579901      0.6 1.4 kzf21 1 0 1
l21kz030  log factor   0.9123938      0.6 1.4 kzf21 1 0 1
l21kz031  log factor    1.022864      0.6 1.4 kzf21 1 0 1
l21kz032  log factor    1.029578      0.6 1.4 kzf21 1 0 1
l21kz033  log factor    1.045388      0.6 1.4 kzf21 1 0 1
l21kz034  log factor   0.9088973      0.6 1.4 kzf21 1 0 1
l21kz035  log factor    1.033717      0.6 1.4 kzf21 1 0 1
l21kz036  log factor    1.400000      0.6 1.4 kzf21 1 0 1
l21kz037  log factor   0.6000000      0.6 1.4 kzf21 1 0 1
l21kz038  log factor   0.6641695      0.6 1.4 kzf21 1 0 1
l21kz039  log factor   0.9508940      0.6 1.4 kzf21 1 0 1
l21kz040  log factor   0.8276694      0.6 1.4 kzf21 1 0 1
l21kz041  log factor   0.8417770      0.6 1.4 kzf21 1 0 1
l21kz042  log factor   0.6000000      0.6 1.4 kzf21 1 0 1
l21kz043  log factor   0.6000000      0.6 1.4 kzf21 1 0 1
l21kz044  log factor   0.6000000      0.6 1.4 kzf21 1 0 1
l21kz045  log factor   0.6000000      0.6 1.4 kzf21 1 0 1
l21kz046  log factor   0.6000000      0.6 1.4 kzf21 1 0 1
l21kz047  log factor   0.6481121      0.6 1.4 kzf21 1 0 1
```



```
l21kz048  log factor   0.6000000      0.6 1.4 kzf21 1 0 1
l21kz049  log factor   0.7863349      0.6 1.4 kzf21 1 0 1
l21kz050  log factor   0.6000000      0.6 1.4 kzf21 1 0 1
l21kz051  log factor   0.7488371      0.6 1.4 kzf21 1 0 1
l21kz052  log factor   0.9712436      0.6 1.4 kzf21 1 0 1
l21kz053  log factor   0.8805019      0.6 1.4 kzf21 1 0 1
l21kz054  log factor   0.9851310      0.6 1.4 kzf21 1 0 1
l21kz055  log factor   0.9074510      0.6 1.4 kzf21 1 0 1
l21kz056  log factor   0.9820648      0.6 1.4 kzf21 1 0 1
l21kz057  log factor    1.046278      0.6 1.4 kzf21 1 0 1
l21kz058  log factor   0.9905086      0.6 1.4 kzf21 1 0 1
l21kz059  log factor    1.115118      0.6 1.4 kzf21 1 0 1
l21kz060  log factor    1.161683      0.6 1.4 kzf21 1 0 1
l21kz061  log factor    1.103272      0.6 1.4 kzf21 1 0 1
l21kz062  log factor   0.6684442      0.6 1.4 kzf21 1 0 1
l21kz063  log factor    1.115993      0.6 1.4 kzf21 1 0 1
l21kz064  log factor   0.6000000      0.6 1.4 kzf21 1 0 1
l21kz065  log factor    1.023575      0.6 1.4 kzf21 1 0 1
l21kz066  log factor   0.9694593      0.6 1.4 kzf21 1 0 1
l21kz067  log factor   0.9116276      0.6 1.4 kzf21 1 0 1
l22kz001  log factor   0.9950609      0.6 1.4 kzf22 1 0 1
l22kz002  log factor   0.9517873      0.6 1.4 kzf22 1 0 1
l22kz003  log factor   0.9963772      0.6 1.4 kzf22 1 0 1
l22kz004  log factor   0.9788707      0.6 1.4 kzf22 1 0 1
l22kz005  log factor   0.9801568      0.6 1.4 kzf22 1 0 1
l22kz006  log factor   0.9923368      0.6 1.4 kzf22 1 0 1
l22kz007  log factor    1.152546      0.6 1.4 kzf22 1 0 1
l22kz008  log factor    1.218190      0.6 1.4 kzf22 1 0 1
l22kz009  log factor    1.171826      0.6 1.4 kzf22 1 0 1
l22kz010  log factor    1.137391      0.6 1.4 kzf22 1 0 1
l22kz011  log factor   0.9620106      0.6 1.4 kzf22 1 0 1
l22kz012  log factor    1.002504      0.6 1.4 kzf22 1 0 1
l22kz013  log factor    1.001830      0.6 1.4 kzf22 1 0 1
l22kz014  log factor    1.073166      0.6 1.4 kzf22 1 0 1
l22kz015  log factor   0.9855751      0.6 1.4 kzf22 1 0 1
l22kz016  log factor   0.9924221      0.6 1.4 kzf22 1 0 1
l22kz017  log factor   0.8900153      0.6 1.4 kzf22 1 0 1
l22kz018  log factor   0.9829664      0.6 1.4 kzf22 1 0 1
l22kz019  log factor   0.9411396      0.6 1.4 kzf22 1 0 1
l22kz020  log factor   0.8893854      0.6 1.4 kzf22 1 0 1
l22kz021  log factor   0.9431489      0.6 1.4 kzf22 1 0 1
l22kz022  log factor   0.9293683      0.6 1.4 kzf22 1 0 1
l22kz023  log factor   0.9991539      0.6 1.4 kzf22 1 0 1
l22kz024  log factor   0.7598441      0.6 1.4 kzf22 1 0 1
l22kz025  log factor   0.9409764      0.6 1.4 kzf22 1 0 1
l22kz026  log factor    1.025287      0.6 1.4 kzf22 1 0 1
l22kz027  log factor    1.004799      0.6 1.4 kzf22 1 0 1
```



```
l22kz028  log factor   0.9859925      0.6 1.4 kzf22 1 0 1
l22kz029  log factor   0.6000000      0.6 1.4 kzf22 1 0 1
l22kz030  log factor   0.7552869      0.6 1.4 kzf22 1 0 1
l22kz031  log factor   0.9397605      0.6 1.4 kzf22 1 0 1
l22kz032  log factor   0.8217092      0.6 1.4 kzf22 1 0 1
l22kz033  log factor   0.6152015      0.6 1.4 kzf22 1 0 1
l22kz034  log factor   0.7715889      0.6 1.4 kzf22 1 0 1
l22kz035  log factor   0.7212362      0.6 1.4 kzf22 1 0 1
l22kz036  log factor   0.6720802      0.6 1.4 kzf22 1 0 1
l22kz037  log factor   0.6000000      0.6 1.4 kzf22 1 0 1
l22kz038  log factor   0.6000000      0.6 1.4 kzf22 1 0 1
l22kz039  log factor   0.6000000      0.6 1.4 kzf22 1 0 1
l22kz040  log factor    1.070166      0.6 1.4 kzf22 1 0 1
l22kz041  log factor    1.120015      0.6 1.4 kzf22 1 0 1
l22kz042  log factor   0.9420746      0.6 1.4 kzf22 1 0 1
l22kz043  log factor    1.028862      0.6 1.4 kzf22 1 0 1
l22kz044  log factor   0.9880394      0.6 1.4 kzf22 1 0 1
l22kz045  log factor   0.9445208      0.6 1.4 kzf22 1 0 1
l22kz046  log factor   0.9639519      0.6 1.4 kzf22 1 0 1
l22kz047  log factor    1.016044      0.6 1.4 kzf22 1 0 1
l22kz048  log factor   0.9197495      0.6 1.4 kzf22 1 0 1
l22kz049  log factor   0.8878111      0.6 1.4 kzf22 1 0 1
l22kz050  log factor   0.9060472      0.6 1.4 kzf22 1 0 1
l22kz051  log factor   0.6000000      0.6 1.4 kzf22 1 0 1
l22kz052  log factor   0.6009760      0.6 1.4 kzf22 1 0 1
l22kz053  log factor   0.7001328      0.6 1.4 kzf22 1 0 1
l22kz054  log factor   0.6787787      0.6 1.4 kzf22 1 0 1
l22kz055  log factor   0.6961010      0.6 1.4 kzf22 1 0 1
l22kz056  log factor   0.8851518      0.6 1.4 kzf22 1 0 1
l22kz057  log factor   0.7487183      0.6 1.4 kzf22 1 0 1
l22kz058  log factor   0.6000000      0.6 1.4 kzf22 1 0 1
l22kz059  log factor   0.9315111      0.6 1.4 kzf22 1 0 1
l22kz060  log factor   0.6000000      0.6 1.4 kzf22 1 0 1
l22kz061  log factor    1.053428      0.6 1.4 kzf22 1 0 1
l22kz062  log factor    1.176776      0.6 1.4 kzf22 1 0 1
l22kz063  log factor   0.7824495      0.6 1.4 kzf22 1 0 1
l22kz064  log factor   0.8888262      0.6 1.4 kzf22 1 0 1
l22kz065  log factor   0.8690425      0.6 1.4 kzf22 1 0 1
l22kz066  log factor   0.9186749      0.6 1.4 kzf22 1 0 1
l22kz067  log factor   0.9571334      0.6 1.4 kzf22 1 0 1
l23kz001  log factor    1.001994      0.6 1.4 kzf23 1 0 1
l23kz002  log factor    1.000925      0.6 1.4 kzf23 1 0 1
l23kz003  log factor    1.006701      0.6 1.4 kzf23 1 0 1
l23kz004  log factor   0.9994298      0.6 1.4 kzf23 1 0 1
l23kz005  log factor   0.9955183      0.6 1.4 kzf23 1 0 1
l23kz006  log factor    1.003440      0.6 1.4 kzf23 1 0 1
l23kz007  log factor   0.9983067      0.6 1.4 kzf23 1 0 1
```



```
l23kz008  log factor    1.012653      0.6 1.4 kzf23 1 0 1
l23kz009  log factor   0.9965541      0.6 1.4 kzf23 1 0 1
l23kz010  log factor   0.9937707      0.6 1.4 kzf23 1 0 1
l23kz011  log factor   0.9915517      0.6 1.4 kzf23 1 0 1
l23kz012  log factor   0.9799648      0.6 1.4 kzf23 1 0 1
l23kz013  log factor    1.005517      0.6 1.4 kzf23 1 0 1
l23kz014  log factor   0.9858482      0.6 1.4 kzf23 1 0 1
l23kz015  log factor   0.9862119      0.6 1.4 kzf23 1 0 1
l23kz016  log factor   0.9903280      0.6 1.4 kzf23 1 0 1
l23kz017  log factor   0.9998764      0.6 1.4 kzf23 1 0 1
l23kz018  log factor   0.9971191      0.6 1.4 kzf23 1 0 1
l23kz019  log factor   0.9880156      0.6 1.4 kzf23 1 0 1
l23kz020  log factor    1.001031      0.6 1.4 kzf23 1 0 1
l23kz021  log factor   0.9973438      0.6 1.4 kzf23 1 0 1
l23kz022  log factor    1.000753      0.6 1.4 kzf23 1 0 1
l23kz023  log factor   0.9996698      0.6 1.4 kzf23 1 0 1
l23kz024  log factor   0.9976613      0.6 1.4 kzf23 1 0 1
l23kz025  log factor    1.327137      0.6 1.4 kzf23 1 0 1
l23kz026  log factor   0.9211027      0.6 1.4 kzf23 1 0 1
l23kz027  log factor    1.212526      0.6 1.4 kzf23 1 0 1
l23kz028  log factor    1.004748      0.6 1.4 kzf23 1 0 1
l23kz029  log factor   0.9834530      0.6 1.4 kzf23 1 0 1
l23kz030  log factor   0.9792887      0.6 1.4 kzf23 1 0 1
l23kz031  log factor   0.9894628      0.6 1.4 kzf23 1 0 1
l23kz032  log factor   0.9991147      0.6 1.4 kzf23 1 0 1
l23kz033  log factor   0.9902606      0.6 1.4 kzf23 1 0 1
l23kz034  log factor   0.9951599      0.6 1.4 kzf23 1 0 1
l23kz035  log factor   0.9963104      0.6 1.4 kzf23 1 0 1
l23kz036  log factor   0.9879352      0.6 1.4 kzf23 1 0 1
l23kz037  log factor   0.9966449      0.6 1.4 kzf23 1 0 1
l23kz038  log factor    1.006445      0.6 1.4 kzf23 1 0 1
l23kz039  log factor   0.9998001      0.6 1.4 kzf23 1 0 1
l23kz040  log factor    1.002671      0.6 1.4 kzf23 1 0 1
l23kz041  log factor    1.109461      0.6 1.4 kzf23 1 0 1
l23kz042  log factor   0.9515000      0.6 1.4 kzf23 1 0 1
l23kz043  log factor   0.7593911      0.6 1.4 kzf23 1 0 1
l23kz044  log factor   0.9797606      0.6 1.4 kzf23 1 0 1
l23kz045  log factor    1.189917      0.6 1.4 kzf23 1 0 1
l23kz046  log factor    1.190420      0.6 1.4 kzf23 1 0 1
l23kz047  log factor    1.000531      0.6 1.4 kzf23 1 0 1
l23kz048  log factor   0.9910348      0.6 1.4 kzf23 1 0 1
l23kz049  log factor    1.148536      0.6 1.4 kzf23 1 0 1
l23kz050  log factor    1.000888      0.6 1.4 kzf23 1 0 1
l23kz051  log factor    1.005414      0.6 1.4 kzf23 1 0 1
l23kz052  log factor   0.9969929      0.6 1.4 kzf23 1 0 1
l23kz053  log factor   0.9931335      0.6 1.4 kzf23 1 0 1
l23kz054  log factor    1.053393      0.6 1.4 kzf23 1 0 1
```



```
l23kz055  log factor   0.9979867      0.6 1.4 kzf23 1 0 1
l23kz056  log factor   0.9918985      0.6 1.4 kzf23 1 0 1
l23kz057  log factor    1.000303      0.6 1.4 kzf23 1 0 1
l23kz058  log factor   0.9358690      0.6 1.4 kzf23 1 0 1
l23kz059  log factor   0.9104492      0.6 1.4 kzf23 1 0 1
l23kz060  log factor    1.251953      0.6 1.4 kzf23 1 0 1
l23kz061  log factor   0.9168526      0.6 1.4 kzf23 1 0 1
l23kz062  log factor   0.8275100      0.6 1.4 kzf23 1 0 1
l23kz063  log factor    1.000510      0.6 1.4 kzf23 1 0 1
l23kz064  log factor   0.9977594      0.6 1.4 kzf23 1 0 1
l23kz065  log factor    1.017376      0.6 1.4 kzf23 1 0 1
l23kz066  log factor    1.001292      0.6 1.4 kzf23 1 0 1
l23kz067  log factor   0.9677082      0.6 1.4 kzf23 1 0 1
l23kz068  log factor   0.9946226      0.6 1.4 kzf23 1 0 1
l24kz001  log factor    1.001943      0.6 1.4 kzf24 1 0 1
l24kz002  log factor    1.009438      0.6 1.4 kzf24 1 0 1
l24kz003  log factor   0.9975064      0.6 1.4 kzf24 1 0 1
l24kz004  log factor   0.9972545      0.6 1.4 kzf24 1 0 1
l24kz005  log factor    1.000593      0.6 1.4 kzf24 1 0 1
l24kz006  log factor   0.9962929      0.6 1.4 kzf24 1 0 1
l24kz007  log factor   0.9888092      0.6 1.4 kzf24 1 0 1
l24kz008  log factor   0.9335234      0.6 1.4 kzf24 1 0 1
l24kz009  log factor   0.9571736      0.6 1.4 kzf24 1 0 1
l24kz010  log factor   0.9997324      0.6 1.4 kzf24 1 0 1
l24kz011  log factor   0.9996377      0.6 1.4 kzf24 1 0 1
l24kz012  log factor   0.9978508      0.6 1.4 kzf24 1 0 1
l24kz013  log factor   0.9853324      0.6 1.4 kzf24 1 0 1
l24kz014  log factor    1.007319      0.6 1.4 kzf24 1 0 1
l24kz015  log factor   0.9976141      0.6 1.4 kzf24 1 0 1
l24kz016  log factor   0.9137443      0.6 1.4 kzf24 1 0 1
l24kz017  log factor   0.9526468      0.6 1.4 kzf24 1 0 1
l24kz018  log factor   0.9602503      0.6 1.4 kzf24 1 0 1
l24kz019  log factor    1.004207      0.6 1.4 kzf24 1 0 1
l24kz020  log factor   0.9922425      0.6 1.4 kzf24 1 0 1
l24kz021  log factor   0.9522715      0.6 1.4 kzf24 1 0 1
l24kz022  log factor   0.9776064      0.6 1.4 kzf24 1 0 1
l24kz023  log factor   0.9926614      0.6 1.4 kzf24 1 0 1
l24kz024  log factor    1.400000      0.6 1.4 kzf24 1 0 1
l24kz025  log factor   0.9871863      0.6 1.4 kzf24 1 0 1
l24kz026  log factor    1.400000      0.6 1.4 kzf24 1 0 1
l24kz027  log factor   0.6351235      0.6 1.4 kzf24 1 0 1
l24kz028  log factor   0.9936147      0.6 1.4 kzf24 1 0 1
l24kz029  log factor    1.029374      0.6 1.4 kzf24 1 0 1
l24kz030  log factor   0.9967306      0.6 1.4 kzf24 1 0 1
l24kz031  log factor    1.003240      0.6 1.4 kzf24 1 0 1
l24kz032  log factor   0.9965963      0.6 1.4 kzf24 1 0 1
l24kz033  log factor    1.004719      0.6 1.4 kzf24 1 0 1
```



```
l24kz034  log factor   0.8109987      0.6 1.4 kzf24 1 0 1
l24kz035  log factor   0.8265908      0.6 1.4 kzf24 1 0 1
l24kz036  log factor    1.017132      0.6 1.4 kzf24 1 0 1
l24kz037  log factor    1.134378      0.6 1.4 kzf24 1 0 1
l24kz038  log factor    1.001248      0.6 1.4 kzf24 1 0 1
l24kz039  log factor   0.9973030      0.6 1.4 kzf24 1 0 1
l24kz040  log factor    1.001809      0.6 1.4 kzf24 1 0 1
l24kz041  log factor    1.003807      0.6 1.4 kzf24 1 0 1
l24kz042  log factor   0.8273923      0.6 1.4 kzf24 1 0 1
l24kz043  log factor   0.7483252      0.6 1.4 kzf24 1 0 1
l24kz044  log factor    1.237599      0.6 1.4 kzf24 1 0 1
l24kz045  log factor   0.9967388      0.6 1.4 kzf24 1 0 1
l24kz046  log factor    1.000473      0.6 1.4 kzf24 1 0 1
l24kz047  log factor   0.9979025      0.6 1.4 kzf24 1 0 1
l24kz048  log factor    1.006732      0.6 1.4 kzf24 1 0 1
l24kz049  log factor   0.9846627      0.6 1.4 kzf24 1 0 1
l24kz050  log factor    1.008715      0.6 1.4 kzf24 1 0 1
l24kz051  log factor    1.001023      0.6 1.4 kzf24 1 0 1
l24kz052  log factor   0.9184067      0.6 1.4 kzf24 1 0 1
l24kz053  log factor    1.400000      0.6 1.4 kzf24 1 0 1
l24kz054  log factor   0.9428294      0.6 1.4 kzf24 1 0 1
l24kz055  log factor   0.8024167      0.6 1.4 kzf24 1 0 1
l24kz056  log factor    1.329930      0.6 1.4 kzf24 1 0 1
l24kz057  log factor   0.6797602      0.6 1.4 kzf24 1 0 1
l24kz058  log factor   0.9734358      0.6 1.4 kzf24 1 0 1
l24kz059  log factor   0.7919966      0.6 1.4 kzf24 1 0 1
l24kz060  log factor   0.9916683      0.6 1.4 kzf24 1 0 1
l24kz061  log factor   0.8659075      0.6 1.4 kzf24 1 0 1
l24kz062  log factor   0.6000000      0.6 1.4 kzf24 1 0 1
l24kz063  log factor    1.021607      0.6 1.4 kzf24 1 0 1
l24kz064  log factor   0.7820142      0.6 1.4 kzf24 1 0 1
l24kz065  log factor    1.084375      0.6 1.4 kzf24 1 0 1
l25kz001  log factor    1.006024      0.6 1.4 kzf25 1 0 1
l25kz002  log factor   0.9960807      0.6 1.4 kzf25 1 0 1
l25kz003  log factor   0.9979381      0.6 1.4 kzf25 1 0 1
l25kz004  log factor   0.9991619      0.6 1.4 kzf25 1 0 1
l25kz005  log factor   0.9988413      0.6 1.4 kzf25 1 0 1
l25kz006  log factor    1.000133      0.6 1.4 kzf25 1 0 1
l25kz007  log factor    1.006713      0.6 1.4 kzf25 1 0 1
l25kz008  log factor    1.005450      0.6 1.4 kzf25 1 0 1
l25kz009  log factor    1.001012      0.6 1.4 kzf25 1 0 1
l25kz010  log factor   0.9965520      0.6 1.4 kzf25 1 0 1
l25kz011  log factor    1.003068      0.6 1.4 kzf25 1 0 1
l25kz012  log factor    1.006707      0.6 1.4 kzf25 1 0 1
l25kz013  log factor   0.9859940      0.6 1.4 kzf25 1 0 1
l25kz014  log factor   0.9961199      0.6 1.4 kzf25 1 0 1
l25kz015  log factor    1.009495      0.6 1.4 kzf25 1 0 1
```



```
l25kz016  log factor   0.9969744      0.6 1.4 kzf25 1 0 1
l25kz017  log factor    1.000972      0.6 1.4 kzf25 1 0 1
l25kz018  log factor    1.000679      0.6 1.4 kzf25 1 0 1
l25kz019  log factor   0.9932922      0.6 1.4 kzf25 1 0 1
l25kz020  log factor   0.9900774      0.6 1.4 kzf25 1 0 1
l25kz021  log factor   0.9981372      0.6 1.4 kzf25 1 0 1
l25kz022  log factor   0.9847397      0.6 1.4 kzf25 1 0 1
l25kz023  log factor    1.028216      0.6 1.4 kzf25 1 0 1
l25kz024  log factor    1.089888      0.6 1.4 kzf25 1 0 1
l25kz025  log factor   0.9248850      0.6 1.4 kzf25 1 0 1
l25kz026  log factor    1.050958      0.6 1.4 kzf25 1 0 1
l25kz027  log factor   0.9183303      0.6 1.4 kzf25 1 0 1
l25kz028  log factor   0.8912928      0.6 1.4 kzf25 1 0 1
l25kz029  log factor   0.9941682      0.6 1.4 kzf25 1 0 1
l25kz030  log factor    1.004521      0.6 1.4 kzf25 1 0 1
l25kz031  log factor   0.9867403      0.6 1.4 kzf25 1 0 1
l25kz032  log factor   0.9844562      0.6 1.4 kzf25 1 0 1
l25kz033  log factor   0.9921780      0.6 1.4 kzf25 1 0 1
l25kz034  log factor   0.9849678      0.6 1.4 kzf25 1 0 1
l25kz035  log factor    1.014655      0.6 1.4 kzf25 1 0 1
l25kz036  log factor   0.9245871      0.6 1.4 kzf25 1 0 1
l25kz037  log factor    1.032803      0.6 1.4 kzf25 1 0 1
l25kz038  log factor   0.9980446      0.6 1.4 kzf25 1 0 1
l25kz039  log factor   0.9899691      0.6 1.4 kzf25 1 0 1
l25kz040  log factor   0.9956477      0.6 1.4 kzf25 1 0 1
l25kz041  log factor    1.002508      0.6 1.4 kzf25 1 0 1
l25kz042  log factor   0.9962041      0.6 1.4 kzf25 1 0 1
l25kz043  log factor   0.9999090      0.6 1.4 kzf25 1 0 1
l25kz044  log factor   0.9950132      0.6 1.4 kzf25 1 0 1
l25kz045  log factor    1.002368      0.6 1.4 kzf25 1 0 1
l25kz046  log factor    1.007174      0.6 1.4 kzf25 1 0 1
l25kz047  log factor    1.001220      0.6 1.4 kzf25 1 0 1
l25kz048  log factor    1.000123      0.6 1.4 kzf25 1 0 1
l25kz049  log factor   0.9994863      0.6 1.4 kzf25 1 0 1
l25kz050  log factor   0.9964540      0.6 1.4 kzf25 1 0 1
l25kz051  log factor   0.9976517      0.6 1.4 kzf25 1 0 1
l25kz052  log factor    1.022751      0.6 1.4 kzf25 1 0 1
l25kz053  log factor    1.007714      0.6 1.4 kzf25 1 0 1
l25kz054  log factor    1.004059      0.6 1.4 kzf25 1 0 1
l25kz055  log factor    1.008518      0.6 1.4 kzf25 1 0 1
l25kz056  log factor   0.9935459      0.6 1.4 kzf25 1 0 1
l25kz057  log factor   0.9955040      0.6 1.4 kzf25 1 0 1
l25kz058  log factor    1.005025      0.6 1.4 kzf25 1 0 1
l25kz059  log factor    1.019562      0.6 1.4 kzf25 1 0 1
l25kz060  log factor   0.9902475      0.6 1.4 kzf25 1 0 1
l25kz061  log factor    1.006683      0.6 1.4 kzf25 1 0 1
l25kz062  log factor    1.048081      0.6 1.4 kzf25 1 0 1
```



```
l25kz063  log factor   0.9917191      0.6 1.4 kzf25 1 0 1
l25kz064  log factor    1.012257      0.6 1.4 kzf25 1 0 1
l25kz065  log factor    1.007485      0.6 1.4 kzf25 1 0 1
l25kz066  log factor   0.9793357      0.6 1.4 kzf25 1 0 1
l25kz067  log factor    1.027525      0.6 1.4 kzf25 1 0 1
l25kz068  log factor   0.9984029      0.6 1.4 kzf25 1 0 1
l25kz069  log factor   0.9988178      0.6 1.4 kzf25 1 0 1
l25kz070  log factor    1.003176      0.6 1.4 kzf25 1 0 1
l25kz071  log factor   0.9996490      0.6 1.4 kzf25 1 0 1
l26kz001  log factor   0.9977161      0.6 1.4 kzf26 1 0 1
l26kz002  log factor   0.9848046      0.6 1.4 kzf26 1 0 1
l26kz003  log factor   0.9880413      0.6 1.4 kzf26 1 0 1
l26kz004  log factor   0.9877601      0.6 1.4 kzf26 1 0 1
l26kz005  log factor   0.9902135      0.6 1.4 kzf26 1 0 1
l26kz006  log factor   0.9983983      0.6 1.4 kzf26 1 0 1
l26kz007  log factor    1.010576      0.6 1.4 kzf26 1 0 1
l26kz008  log factor    1.041316      0.6 1.4 kzf26 1 0 1
l26kz009  log factor    1.009596      0.6 1.4 kzf26 1 0 1
l26kz010  log factor    1.005417      0.6 1.4 kzf26 1 0 1
l26kz011  log factor    1.000296      0.6 1.4 kzf26 1 0 1
l26kz012  log factor   0.9937752      0.6 1.4 kzf26 1 0 1
l26kz013  log factor   0.9996131      0.6 1.4 kzf26 1 0 1
l26kz014  log factor   0.9915513      0.6 1.4 kzf26 1 0 1
l26kz015  log factor    1.006087      0.6 1.4 kzf26 1 0 1
l26kz016  log factor    1.002763      0.6 1.4 kzf26 1 0 1
l26kz017  log factor   0.9962824      0.6 1.4 kzf26 1 0 1
l26kz018  log factor   0.9902705      0.6 1.4 kzf26 1 0 1
l26kz019  log factor    1.000571      0.6 1.4 kzf26 1 0 1
l26kz020  log factor   0.9859573      0.6 1.4 kzf26 1 0 1
l26kz021  log factor   0.9822303      0.6 1.4 kzf26 1 0 1
l26kz022  log factor    1.000608      0.6 1.4 kzf26 1 0 1
l26kz023  log factor   0.9997291      0.6 1.4 kzf26 1 0 1
l26kz024  log factor   0.9985034      0.6 1.4 kzf26 1 0 1
l26kz025  log factor   0.9528883      0.6 1.4 kzf26 1 0 1
l26kz026  log factor    1.400000      0.6 1.4 kzf26 1 0 1
l26kz027  log factor    1.023867      0.6 1.4 kzf26 1 0 1
l26kz028  log factor   0.9942204      0.6 1.4 kzf26 1 0 1
l26kz029  log factor   0.9774286      0.6 1.4 kzf26 1 0 1
l26kz030  log factor   0.9865828      0.6 1.4 kzf26 1 0 1
l26kz031  log factor   0.9875775      0.6 1.4 kzf26 1 0 1
l26kz032  log factor   0.9851319      0.6 1.4 kzf26 1 0 1
l26kz033  log factor   0.8681861      0.6 1.4 kzf26 1 0 1
l26kz034  log factor   0.9227747      0.6 1.4 kzf26 1 0 1
l26kz035  log factor    1.096316      0.6 1.4 kzf26 1 0 1
l26kz036  log factor   0.9977296      0.6 1.4 kzf26 1 0 1
l26kz037  log factor   0.9897901      0.6 1.4 kzf26 1 0 1
l26kz038  log factor   0.9983881      0.6 1.4 kzf26 1 0 1
```



```
l26kz039  log factor   0.9914794      0.6 1.4 kzf26 1 0 1
l26kz040  log factor    1.008730      0.6 1.4 kzf26 1 0 1
l26kz041  log factor    1.400000      0.6 1.4 kzf26 1 0 1
l26kz042  log factor    1.290502      0.6 1.4 kzf26 1 0 1
l26kz043  log factor    1.075091      0.6 1.4 kzf26 1 0 1
l26kz044  log factor    1.400000      0.6 1.4 kzf26 1 0 1
l26kz045  log factor   0.8760250      0.6 1.4 kzf26 1 0 1
l26kz046  log factor   0.9797977      0.6 1.4 kzf26 1 0 1
l26kz047  log factor    1.264253      0.6 1.4 kzf26 1 0 1
l26kz048  log factor    1.386031      0.6 1.4 kzf26 1 0 1
l26kz049  log factor    1.048011      0.6 1.4 kzf26 1 0 1
l26kz050  log factor    1.058341      0.6 1.4 kzf26 1 0 1
l26kz051  log factor   0.9937002      0.6 1.4 kzf26 1 0 1
l26kz052  log factor    1.021018      0.6 1.4 kzf26 1 0 1
l26kz053  log factor   0.9772811      0.6 1.4 kzf26 1 0 1
l26kz054  log factor    1.400000      0.6 1.4 kzf26 1 0 1
l26kz055  log factor    1.087153      0.6 1.4 kzf26 1 0 1
l26kz056  log factor   0.9936341      0.6 1.4 kzf26 1 0 1
l26kz057  log factor   0.9966727      0.6 1.4 kzf26 1 0 1
l26kz058  log factor    1.031729      0.6 1.4 kzf26 1 0 1
l26kz059  log factor   0.9890482      0.6 1.4 kzf26 1 0 1
l27kz001  log factor    1.002305      0.6 1.4 kzf27 1 0 1
l27kz002  log factor   0.9888452      0.6 1.4 kzf27 1 0 1
l27kz003  log factor   0.9977098      0.6 1.4 kzf27 1 0 1
l27kz004  log factor   0.9912383      0.6 1.4 kzf27 1 0 1
l27kz005  log factor   0.9829018      0.6 1.4 kzf27 1 0 1
l27kz006  log factor   0.9943544      0.6 1.4 kzf27 1 0 1
l27kz007  log factor   0.9946173      0.6 1.4 kzf27 1 0 1
l27kz008  log factor    1.037694      0.6 1.4 kzf27 1 0 1
l27kz009  log factor   0.9966894      0.6 1.4 kzf27 1 0 1
l27kz010  log factor   0.9956400      0.6 1.4 kzf27 1 0 1
l27kz011  log factor    1.009020      0.6 1.4 kzf27 1 0 1
l27kz012  log factor    1.000346      0.6 1.4 kzf27 1 0 1
l27kz013  log factor   0.9840608      0.6 1.4 kzf27 1 0 1
l27kz014  log factor   0.9731058      0.6 1.4 kzf27 1 0 1
l27kz015  log factor   0.9934423      0.6 1.4 kzf27 1 0 1
l27kz016  log factor   0.9922540      0.6 1.4 kzf27 1 0 1
l27kz017  log factor   0.9851380      0.6 1.4 kzf27 1 0 1
l27kz018  log factor   0.9955777      0.6 1.4 kzf27 1 0 1
l27kz019  log factor   0.9958961      0.6 1.4 kzf27 1 0 1
l27kz020  log factor   0.9968229      0.6 1.4 kzf27 1 0 1
l27kz021  log factor    1.006679      0.6 1.4 kzf27 1 0 1
l27kz022  log factor   0.9829394      0.6 1.4 kzf27 1 0 1
l27kz023  log factor   0.9891551      0.6 1.4 kzf27 1 0 1
l27kz024  log factor   0.9963989      0.6 1.4 kzf27 1 0 1
l27kz025  log factor   0.9984827      0.6 1.4 kzf27 1 0 1
l27kz026  log factor    1.185656      0.6 1.4 kzf27 1 0 1
```



```
l27kz027  log factor    1.001736      0.6 1.4 kzf27 1 0 1
l27kz028  log factor    1.014714      0.6 1.4 kzf27 1 0 1
l27kz029  log factor   0.9731910      0.6 1.4 kzf27 1 0 1
l27kz030  log factor   0.9795993      0.6 1.4 kzf27 1 0 1
l27kz031  log factor   0.9807570      0.6 1.4 kzf27 1 0 1
l27kz032  log factor   0.9939600      0.6 1.4 kzf27 1 0 1
l27kz033  log factor   0.9679834      0.6 1.4 kzf27 1 0 1
l27kz034  log factor   0.9389565      0.6 1.4 kzf27 1 0 1
l27kz035  log factor    1.023990      0.6 1.4 kzf27 1 0 1
l27kz036  log factor    1.237982      0.6 1.4 kzf27 1 0 1
l27kz037  log factor    1.400000      0.6 1.4 kzf27 1 0 1
l27kz038  log factor    1.400000      0.6 1.4 kzf27 1 0 1
l27kz039  log factor   0.8518869      0.6 1.4 kzf27 1 0 1
l27kz040  log factor   0.8554195      0.6 1.4 kzf27 1 0 1
l27kz041  log factor   0.9028486      0.6 1.4 kzf27 1 0 1
l27kz042  log factor   0.9730541      0.6 1.4 kzf27 1 0 1
l27kz043  log factor   0.9632979      0.6 1.4 kzf27 1 0 1
l27kz044  log factor   0.9822444      0.6 1.4 kzf27 1 0 1
l27kz045  log factor    1.066312      0.6 1.4 kzf27 1 0 1
l27kz046  log factor   0.9880432      0.6 1.4 kzf27 1 0 1
l27kz047  log factor    1.012078      0.6 1.4 kzf27 1 0 1
l27kz048  log factor   0.9896989      0.6 1.4 kzf27 1 0 1
l27kz049  log factor   0.9870671      0.6 1.4 kzf27 1 0 1
l27kz050  log factor    1.153287      0.6 1.4 kzf27 1 0 1
l27kz051  log factor    1.393718      0.6 1.4 kzf27 1 0 1
l27kz052  log factor    1.400000      0.6 1.4 kzf27 1 0 1
l27kz053  log factor    1.400000      0.6 1.4 kzf27 1 0 1
l27kz054  log factor    1.029838      0.6 1.4 kzf27 1 0 1
l27kz055  log factor   0.9595296      0.6 1.4 kzf27 1 0 1
l27kz056  log factor   0.9838554      0.6 1.4 kzf27 1 0 1
l27kz057  log factor   0.9917368      0.6 1.4 kzf27 1 0 1
l27kz058  log factor   0.9873372      0.6 1.4 kzf27 1 0 1
l27kz059  log factor   0.9834045      0.6 1.4 kzf27 1 0 1
l27kz060  log factor   0.9805185      0.6 1.4 kzf27 1 0 1
l28kz001  log factor    1.000255      0.6 1.4 kzf28 1 0 1
l28kz002  log factor   0.9993368      0.6 1.4 kzf28 1 0 1
l28kz003  log factor   0.9807430      0.6 1.4 kzf28 1 0 1
l28kz004  log factor    1.031176      0.6 1.4 kzf28 1 0 1
l28kz005  log factor   0.9984074      0.6 1.4 kzf28 1 0 1
l28kz006  log factor    1.003034      0.6 1.4 kzf28 1 0 1
l28kz007  log factor    1.014110      0.6 1.4 kzf28 1 0 1
l28kz008  log factor    1.005921      0.6 1.4 kzf28 1 0 1
l28kz009  log factor    1.005422      0.6 1.4 kzf28 1 0 1
l28kz010  log factor   0.9968671      0.6 1.4 kzf28 1 0 1
l28kz011  log factor   0.9920437      0.6 1.4 kzf28 1 0 1
l28kz012  log factor    1.004683      0.6 1.4 kzf28 1 0 1
l28kz013  log factor    1.012181      0.6 1.4 kzf28 1 0 1
```

```
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l28kz015  log factor   1.009952    0.6 1.4 kzf28 1 0 1
l28kz016  log factor  0.9884733    0.6 1.4 kzf28 1 0 1
l28kz017  log factor   1.000270    0.6 1.4 kzf28 1 0 1
l28kz018  log factor  0.9989332    0.6 1.4 kzf28 1 0 1
l28kz019  log factor  0.9929840    0.6 1.4 kzf28 1 0 1
l28kz020  log factor  0.9801010    0.6 1.4 kzf28 1 0 1
l28kz021  log factor  0.9973534    0.6 1.4 kzf28 1 0 1
l28kz022  log factor  0.9770717    0.6 1.4 kzf28 1 0 1
l28kz023  log factor  0.9817216    0.6 1.4 kzf28 1 0 1
l28kz024  log factor  0.9860084    0.6 1.4 kzf28 1 0 1
l28kz025  log factor   1.008999    0.6 1.4 kzf28 1 0 1
l28kz026  log factor  0.9829933    0.6 1.4 kzf28 1 0 1
l28kz027  log factor   1.004131    0.6 1.4 kzf28 1 0 1
l28kz028  log factor   1.263859    0.6 1.4 kzf28 1 0 1
l28kz029  log factor   1.067042    0.6 1.4 kzf28 1 0 1
l28kz030  log factor   1.044831    0.6 1.4 kzf28 1 0 1
l28kz031  log factor  0.9730321    0.6 1.4 kzf28 1 0 1
l28kz032  log factor   1.400000    0.6 1.4 kzf28 1 0 1
l28kz033  log factor   1.049495    0.6 1.4 kzf28 1 0 1
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l28kz035  log factor  0.9900268    0.6 1.4 kzf28 1 0 1
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l28kz037  log factor  0.9972704    0.6 1.4 kzf28 1 0 1
l28kz038  log factor  0.9847757    0.6 1.4 kzf28 1 0 1
l28kz039  log factor   1.012621    0.6 1.4 kzf28 1 0 1
l28kz040  log factor  0.9926526    0.6 1.4 kzf28 1 0 1
l28kz041  log factor  0.9910135    0.6 1.4 kzf28 1 0 1
l28kz042  log factor  0.9992890    0.6 1.4 kzf28 1 0 1
l28kz043  log factor  0.9917682    0.6 1.4 kzf28 1 0 1
l28kz044  log factor   1.023141    0.6 1.4 kzf28 1 0 1
l28kz045  log factor   1.137260    0.6 1.4 kzf28 1 0 1
l28kz046  log factor   1.064126    0.6 1.4 kzf28 1 0 1
l28kz047  log factor  0.9861519    0.6 1.4 kzf28 1 0 1
l28kz048  log factor  0.9767985    0.6 1.4 kzf28 1 0 1
l28kz049  log factor  0.9773090    0.6 1.4 kzf28 1 0 1
l28kz050  log factor  0.9865012    0.6 1.4 kzf28 1 0 1
l28kz051  log factor  0.9971827    0.6 1.4 kzf28 1 0 1
l28kz052  log factor   1.009459    0.6 1.4 kzf28 1 0 1
l28kz053  log factor  0.9840880    0.6 1.4 kzf28 1 0 1
l28kz054  log factor  0.9961342    0.6 1.4 kzf28 1 0 1
l28kz055  log factor  0.9800658    0.6 1.4 kzf28 1 0 1
l28kz056  log factor  0.9865099    0.6 1.4 kzf28 1 0 1
l28kz057  log factor   1.002887    0.6 1.4 kzf28 1 0 1
l29kz001  log factor  0.9961786    0.6 1.4 kzf29 1 0 1
l29kz002  log factor  0.9889545    0.6 1.4 kzf29 1 0 1
l29kz003  log factor   1.001036    0.6 1.4 kzf29 1 0 1
```



```
l29kz004  log factor   1.003834    0.6 1.4 kzf29 1 0 1
l29kz005  log factor  0.9968442    0.6 1.4 kzf29 1 0 1
l29kz006  log factor  0.9961487    0.6 1.4 kzf29 1 0 1
l29kz007  log factor  0.9922031    0.6 1.4 kzf29 1 0 1
l29kz008  log factor  0.9880234    0.6 1.4 kzf29 1 0 1
l29kz009  log factor  0.9792031    0.6 1.4 kzf29 1 0 1
l29kz010  log factor  0.9834201    0.6 1.4 kzf29 1 0 1
l29kz011  log factor  0.9957956    0.6 1.4 kzf29 1 0 1
l29kz012  log factor   1.002562    0.6 1.4 kzf29 1 0 1
l29kz013  log factor  0.9874854    0.6 1.4 kzf29 1 0 1
l29kz014  log factor  0.9781353    0.6 1.4 kzf29 1 0 1
l29kz015  log factor   1.000131    0.6 1.4 kzf29 1 0 1
l29kz016  log factor  0.9855925    0.6 1.4 kzf29 1 0 1
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l29kz018  log factor  0.9870037    0.6 1.4 kzf29 1 0 1
l29kz019  log factor   1.012083    0.6 1.4 kzf29 1 0 1
l29kz020  log factor   1.058695    0.6 1.4 kzf29 1 0 1
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l29kz023  log factor  0.9993505    0.6 1.4 kzf29 1 0 1
l29kz024  log factor   1.011874    0.6 1.4 kzf29 1 0 1
l29kz025  log factor  0.9823920    0.6 1.4 kzf29 1 0 1
l30kz001  log factor  0.9977761    0.6 1.4 kzf30 1 0 1
l30kz002  log factor  0.9975458    0.6 1.4 kzf30 1 0 1
l30kz003  log factor   1.004445    0.6 1.4 kzf30 1 0 1
l30kz004  log factor   1.007632    0.6 1.4 kzf30 1 0 1
l30kz005  log factor  0.9980007    0.6 1.4 kzf30 1 0 1
l30kz006  log factor  0.9992920    0.6 1.4 kzf30 1 0 1
l30kz007  log factor  0.9971100    0.6 1.4 kzf30 1 0 1
l30kz008  log factor   1.000578    0.6 1.4 kzf30 1 0 1
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l30kz010  log factor   1.001749    0.6 1.4 kzf30 1 0 1
l30kz011  log factor   1.005312    0.6 1.4 kzf30 1 0 1
l30kz012  log factor   1.000529    0.6 1.4 kzf30 1 0 1
l30kz013  log factor   1.003454    0.6 1.4 kzf30 1 0 1
l30kz014  log factor  0.9950354    0.6 1.4 kzf30 1 0 1
l30kz015  log factor   1.004800    0.6 1.4 kzf30 1 0 1
l30kz016  log factor  0.9975048    0.6 1.4 kzf30 1 0 1
l30kz017  log factor  0.9985425    0.6 1.4 kzf30 1 0 1
l30kz018  log factor  0.9905746    0.6 1.4 kzf30 1 0 1
l30kz019  log factor   1.000354    0.6 1.4 kzf30 1 0 1
l30kz020  log factor  0.9966205    0.6 1.4 kzf30 1 0 1
l30kz021  log factor   1.002184    0.6 1.4 kzf30 1 0 1
l30kz022  log factor  0.9902815    0.6 1.4 kzf30 1 0 1
l30kz023  log factor  0.9966328    0.6 1.4 kzf30 1 0 1
l30kz024  log factor  0.9970622    0.6 1.4 kzf30 1 0 1
l30kz025  log factor  0.9998891    0.6 1.4 kzf30 1 0 1
```



```
l30kz026  log factor  0.9959434    0.6 1.4 kzf30 1 0 1
l30kz027  log factor  0.9950216    0.6 1.4 kzf30 1 0 1
l30kz028  log factor  0.9946244    0.6 1.4 kzf30 1 0 1
l01ss001  log factor   1.032153    0.85  1.15  ssf01 1 0 1
l01ss002  log factor   1.049106    0.85  1.15  ssf01 1 0 1
l01ss003  log factor   1.014095    0.85  1.15  ssf01 1 0 1
l01ss004  log factor   1.037923    0.85  1.15  ssf01 1 0 1
l01ss005  log factor   1.043098    0.85  1.15  ssf01 1 0 1
l01ss006  log factor   1.010441    0.85  1.15  ssf01 1 0 1
l01ss007  log factor   1.004101    0.85  1.15  ssf01 1 0 1
l01ss008  log factor   1.003661    0.85  1.15  ssf01 1 0 1
l01ss009  log factor  0.9977866    0.85  1.15  ssf01 1 0 1
l01ss010  log factor  0.9925727    0.85  1.15  ssf01 1 0 1
l01ss011  log factor  0.9763321    0.85  1.15  ssf01 1 0 1
l01ss012  log factor  0.9956699    0.85  1.15  ssf01 1 0 1
l01ss013  log factor   1.003839    0.85  1.15  ssf01 1 0 1
l01ss014  log factor  0.9940919    0.85  1.15  ssf01 1 0 1
l01ss015  log factor  0.9993039    0.85  1.15  ssf01 1 0 1
l01ss016  log factor   1.007017    0.85  1.15  ssf01 1 0 1
l01ss017  log factor   1.000656    0.85  1.15  ssf01 1 0 1
l01ss018  log factor  0.9982535    0.85  1.15  ssf01 1 0 1
l01ss019  log factor   1.004719    0.85  1.15  ssf01 1 0 1
l01ss020  log factor  0.9955527    0.85  1.15  ssf01 1 0 1
l01ss021  log factor  0.9935378    0.85  1.15  ssf01 1 0 1
l01ss022  log factor   1.006806    0.85  1.15  ssf01 1 0 1
l01ss023  log factor  0.9959647    0.85  1.15  ssf01 1 0 1
l01ss024  log factor   1.004564    0.85  1.15  ssf01 1 0 1
l01ss025  log factor   1.007822    0.85  1.15  ssf01 1 0 1
l01ss026  log factor   1.003201    0.85  1.15  ssf01 1 0 1
l01ss027  log factor  0.9981685    0.85  1.15  ssf01 1 0 1
l01ss028  log factor   1.004641    0.85  1.15  ssf01 1 0 1
l01ss029  log factor  0.9980101    0.85  1.15  ssf01 1 0 1
l01ss030  log factor  0.9998136    0.85  1.15  ssf01 1 0 1
l01ss031  log factor  0.9961882    0.85  1.15  ssf01 1 0 1
l01ss032  log factor  0.9948390    0.85  1.15  ssf01 1 0 1
l01ss033  log factor  0.9942642    0.85  1.15  ssf01 1 0 1
l01ss034  log factor   1.008645    0.85  1.15  ssf01 1 0 1
l01ss035  log factor  0.9974468    0.85  1.15  ssf01 1 0 1
l01ss036  log factor  0.9967157    0.85  1.15  ssf01 1 0 1
l01ss037  log factor  0.9997548    0.85  1.15  ssf01 1 0 1
l01ss038  log factor  0.9962788    0.85  1.15  ssf01 1 0 1
l01ss039  log factor   1.003418    0.85  1.15  ssf01 1 0 1
l01ss040  log factor  0.9997650    0.85  1.15  ssf01 1 0 1
l01ss041  log factor   1.000379    0.85  1.15  ssf01 1 0 1
l01ss042  log factor   1.000751    0.85  1.15  ssf01 1 0 1
l02ss001  log factor  0.9939410    0.85  1.15  ssf02 1 0 1
l02ss002  log factor   1.002631    0.85  1.15  ssf02 1 0 1
```



```
l02ss003  log factor  0.9948572    0.85  1.15  ssf02 1 0 1
l02ss004  log factor   1.001230    0.85  1.15  ssf02 1 0 1
l02ss005  log factor   1.006658    0.85  1.15  ssf02 1 0 1
l02ss006  log factor  0.9975909    0.85  1.15  ssf02 1 0 1
l02ss007  log factor   1.002632    0.85  1.15  ssf02 1 0 1
l02ss008  log factor   1.002142    0.85  1.15  ssf02 1 0 1
l02ss009  log factor   1.006605    0.85  1.15  ssf02 1 0 1
l02ss010  log factor   1.007730    0.85  1.15  ssf02 1 0 1
l02ss011  log factor   1.009028    0.85  1.15  ssf02 1 0 1
l02ss012  log factor  0.9976913    0.85  1.15  ssf02 1 0 1
l02ss013  log factor  0.9904400    0.85  1.15  ssf02 1 0 1
l02ss014  log factor  0.9979297    0.85  1.15  ssf02 1 0 1
l02ss015  log factor   1.000678    0.85  1.15  ssf02 1 0 1
l02ss016  log factor   1.000458    0.85  1.15  ssf02 1 0 1
l02ss017  log factor   1.001519    0.85  1.15  ssf02 1 0 1
l02ss018  log factor   1.000930    0.85  1.15  ssf02 1 0 1
l02ss019  log factor  0.9929972    0.85  1.15  ssf02 1 0 1
l02ss020  log factor  0.9983250    0.85  1.15  ssf02 1 0 1
l02ss021  log factor  0.9982412    0.85  1.15  ssf02 1 0 1
l02ss022  log factor   1.004449    0.85  1.15  ssf02 1 0 1
l02ss023  log factor  0.9958851    0.85  1.15  ssf02 1 0 1
l02ss024  log factor   1.000120    0.85  1.15  ssf02 1 0 1
l02ss025  log factor   1.000071    0.85  1.15  ssf02 1 0 1
l02ss026  log factor  0.9970350    0.85  1.15  ssf02 1 0 1
l02ss027  log factor   1.001957    0.85  1.15  ssf02 1 0 1
l02ss028  log factor   1.006280    0.85  1.15  ssf02 1 0 1
l02ss029  log factor  0.9973296    0.85  1.15  ssf02 1 0 1
l02ss030  log factor   1.003141    0.85  1.15  ssf02 1 0 1
l02ss031  log factor   1.000144    0.85  1.15  ssf02 1 0 1
l02ss032  log factor  0.9966100    0.85  1.15  ssf02 1 0 1
l02ss033  log factor  0.9982198    0.85  1.15  ssf02 1 0 1
l02ss034  log factor   1.003284    0.85  1.15  ssf02 1 0 1
l02ss035  log factor  0.9978722    0.85  1.15  ssf02 1 0 1
l02ss036  log factor   1.007770    0.85  1.15  ssf02 1 0 1
l02ss037  log factor   1.000692    0.85  1.15  ssf02 1 0 1
l02ss038  log factor   1.007398    0.85  1.15  ssf02 1 0 1
l02ss039  log factor  0.9971934    0.85  1.15  ssf02 1 0 1
l02ss040  log factor  0.9980654    0.85  1.15  ssf02 1 0 1
l02ss041  log factor  0.9996068    0.85  1.15  ssf02 1 0 1
l03ss001  log factor  0.9966769    0.85  1.15  ssf03 1 0 1
l03ss002  log factor   1.004847    0.85  1.15  ssf03 1 0 1
l03ss003  log factor   1.007547    0.85  1.15  ssf03 1 0 1
l03ss004  log factor  0.9929680    0.85  1.15  ssf03 1 0 1
l03ss005  log factor   1.003354    0.85  1.15  ssf03 1 0 1
l03ss006  log factor   1.000525    0.85  1.15  ssf03 1 0 1
l03ss007  log factor  0.9945978    0.85  1.15  ssf03 1 0 1
l03ss008  log factor  0.9968566    0.85  1.15  ssf03 1 0 1
```



```
l03ss009  log factor  0.9983966    0.85  1.15  ssf03 1 0 1
l03ss010  log factor  0.9934032    0.85  1.15  ssf03 1 0 1
l03ss011  log factor  0.9961196    0.85  1.15  ssf03 1 0 1
l03ss012  log factor   1.006343    0.85  1.15  ssf03 1 0 1
l03ss013  log factor   1.005863    0.85  1.15  ssf03 1 0 1
l03ss014  log factor   1.007987    0.85  1.15  ssf03 1 0 1
l03ss015  log factor  0.9968951    0.85  1.15  ssf03 1 0 1
l03ss016  log factor   1.000163    0.85  1.15  ssf03 1 0 1
l03ss017  log factor  0.9996899    0.85  1.15  ssf03 1 0 1
l03ss018  log factor   1.001552    0.85  1.15  ssf03 1 0 1
l03ss019  log factor  0.9947878    0.85  1.15  ssf03 1 0 1
l03ss020  log factor  0.9988878    0.85  1.15  ssf03 1 0 1
l03ss021  log factor   1.002893    0.85  1.15  ssf03 1 0 1
l03ss022  log factor   1.000136    0.85  1.15  ssf03 1 0 1
l03ss023  log factor   1.001234    0.85  1.15  ssf03 1 0 1
l03ss024  log factor  0.9983785    0.85  1.15  ssf03 1 0 1
l03ss025  log factor  0.9985727    0.85  1.15  ssf03 1 0 1
l03ss026  log factor   1.000271    0.85  1.15  ssf03 1 0 1
l03ss027  log factor  0.9980908    0.85  1.15  ssf03 1 0 1
l03ss028  log factor   1.004483    0.85  1.15  ssf03 1 0 1
l03ss029  log factor  0.9949210    0.85  1.15  ssf03 1 0 1
l03ss030  log factor   1.004382    0.85  1.15  ssf03 1 0 1
l03ss031  log factor   1.005189    0.85  1.15  ssf03 1 0 1
l03ss032  log factor  0.9971305    0.85  1.15  ssf03 1 0 1
l03ss033  log factor  0.9978144    0.85  1.15  ssf03 1 0 1
l03ss034  log factor   1.007929    0.85  1.15  ssf03 1 0 1
l03ss035  log factor   1.000762    0.85  1.15  ssf03 1 0 1
l03ss036  log factor  0.9976293    0.85  1.15  ssf03 1 0 1
l03ss037  log factor   1.006416    0.85  1.15  ssf03 1 0 1
l03ss038  log factor  0.9929603    0.85  1.15  ssf03 1 0 1
l03ss039  log factor  0.9993621    0.85  1.15  ssf03 1 0 1
l03ss040  log factor  0.9937345    0.85  1.15  ssf03 1 0 1
l03ss041  log factor   1.002772    0.85  1.15  ssf03 1 0 1
l03ss042  log factor  0.9994460    0.85  1.15  ssf03 1 0 1
l03ss043  log factor   1.001888    0.85  1.15  ssf03 1 0 1
l04ss001  log factor  0.9991735    0.85  1.15  ssf04 1 0 1
l04ss002  log factor   1.002774    0.85  1.15  ssf04 1 0 1
l04ss003  log factor  0.9988617    0.85  1.15  ssf04 1 0 1
l04ss004  log factor  0.9981536    0.85  1.15  ssf04 1 0 1
l04ss005  log factor   1.004052    0.85  1.15  ssf04 1 0 1
l04ss006  log factor   1.003400    0.85  1.15  ssf04 1 0 1
l04ss007  log factor  0.9944023    0.85  1.15  ssf04 1 0 1
l04ss008  log factor   1.003995    0.85  1.15  ssf04 1 0 1
l04ss009  log factor  0.9974483    0.85  1.15  ssf04 1 0 1
l04ss010  log factor   1.001970    0.85  1.15  ssf04 1 0 1
l04ss011  log factor   1.002626    0.85  1.15  ssf04 1 0 1
l04ss012  log factor  0.9951708    0.85  1.15  ssf04 1 0 1
```



```
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l04ss014  log factor  0.9973746    0.85  1.15  ssf04 1 0 1
l04ss015  log factor  0.9991358    0.85  1.15  ssf04 1 0 1
l04ss016  log factor  0.9963899    0.85  1.15  ssf04 1 0 1
l04ss017  log factor  0.9955235    0.85  1.15  ssf04 1 0 1
l04ss018  log factor   1.000409    0.85  1.15  ssf04 1 0 1
l04ss019  log factor   1.008057    0.85  1.15  ssf04 1 0 1
l04ss020  log factor  0.9984224    0.85  1.15  ssf04 1 0 1
l04ss021  log factor  0.9967860    0.85  1.15  ssf04 1 0 1
l04ss022  log factor  0.9989210    0.85  1.15  ssf04 1 0 1
l04ss023  log factor  0.9984415    0.85  1.15  ssf04 1 0 1
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l04ss026  log factor   1.006024    0.85  1.15  ssf04 1 0 1
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l04ss036  log factor   1.004445    0.85  1.15  ssf04 1 0 1
l04ss037  log factor  0.9919073    0.85  1.15  ssf04 1 0 1
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l04ss039  log factor  0.9944106    0.85  1.15  ssf04 1 0 1
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l05ss007  log factor   1.004683    0.85  1.15  ssf05 1 0 1
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l05ss012  log factor   1.006912    0.85  1.15  ssf05 1 0 1
l05ss013  log factor  0.9933171    0.85  1.15  ssf05 1 0 1
l05ss014  log factor  0.9995759    0.85  1.15  ssf05 1 0 1
l05ss015  log factor  0.9967083    0.85  1.15  ssf05 1 0 1
```



```
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l05ss018  log factor   1.011342    0.85  1.15  ssf05 1 0 1
l05ss019  log factor  0.9977203    0.85  1.15  ssf05 1 0 1
l05ss020  log factor  0.9938337    0.85  1.15  ssf05 1 0 1
l05ss021  log factor   1.004690    0.85  1.15  ssf05 1 0 1
l05ss022  log factor   1.005765    0.85  1.15  ssf05 1 0 1
l05ss023  log factor  0.9989369    0.85  1.15  ssf05 1 0 1
l05ss024  log factor  0.9943925    0.85  1.15  ssf05 1 0 1
l05ss025  log factor   1.004206    0.85  1.15  ssf05 1 0 1
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l05ss027  log factor   1.003050    0.85  1.15  ssf05 1 0 1
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l05ss031  log factor   1.000967    0.85  1.15  ssf05 1 0 1
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l05ss043  log factor  0.9996528    0.85  1.15  ssf05 1 0 1
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l05ss046  log factor  0.9999807    0.85  1.15  ssf05 1 0 1
l05ss047  log factor  0.9934944    0.85  1.15  ssf05 1 0 1
l05ss048  log factor  0.9902945    0.85  1.15  ssf05 1 0 1
l06ss001  log factor   1.003255    0.85  1.15  ssf06 1 0 1
l06ss002  log factor   1.008687    0.85  1.15  ssf06 1 0 1
l06ss003  log factor  0.9932973    0.85  1.15  ssf06 1 0 1
l06ss004  log factor   1.007071    0.85  1.15  ssf06 1 0 1
l06ss005  log factor  0.9911368    0.85  1.15  ssf06 1 0 1
l06ss006  log factor  0.9986256    0.85  1.15  ssf06 1 0 1
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l06ss008  log factor  0.9951792    0.85  1.15  ssf06 1 0 1
l06ss009  log factor  0.9944434    0.85  1.15  ssf06 1 0 1
l06ss010  log factor  0.9942490    0.85  1.15  ssf06 1 0 1
l06ss011  log factor   1.009939    0.85  1.15  ssf06 1 0 1
l06ss012  log factor  0.9999152    0.85  1.15  ssf06 1 0 1
l06ss013  log factor  0.9991845    0.85  1.15  ssf06 1 0 1
l06ss014  log factor   1.001280    0.85  1.15  ssf06 1 0 1
```



```
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l06ss018  log factor   1.000130    0.85  1.15  ssf06 1 0 1
l06ss019  log factor  0.9952972    0.85  1.15  ssf06 1 0 1
l06ss020  log factor   1.002976    0.85  1.15  ssf06 1 0 1
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l06ss024  log factor  0.9958627    0.85  1.15  ssf06 1 0 1
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l06ss028  log factor   1.009675    0.85  1.15  ssf06 1 0 1
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l06ss030  log factor   1.005383    0.85  1.15  ssf06 1 0 1
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l06ss037  log factor   1.003149    0.85  1.15  ssf06 1 0 1
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l06ss041  log factor  0.9998997    0.85  1.15  ssf06 1 0 1
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l07ss005  log factor  0.9942354    0.85  1.15  ssf07 1 0 1
l07ss006  log factor   1.000877    0.85  1.15  ssf07 1 0 1
l07ss007  log factor   1.004455    0.85  1.15  ssf07 1 0 1
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l07ss009  log factor  0.9971857    0.85  1.15  ssf07 1 0 1
l07ss010  log factor  0.9998873    0.85  1.15  ssf07 1 0 1
l07ss011  log factor   1.004533    0.85  1.15  ssf07 1 0 1
l07ss012  log factor  0.9964832    0.85  1.15  ssf07 1 0 1
l07ss013  log factor   1.006008    0.85  1.15  ssf07 1 0 1
l07ss014  log factor  0.9933707    0.85  1.15  ssf07 1 0 1
l07ss015  log factor  0.9994067    0.85  1.15  ssf07 1 0 1
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l07ss017  log factor  0.9963589    0.85  1.15  ssf07 1 0 1
l07ss018  log factor  0.9922132    0.85  1.15  ssf07 1 0 1
l07ss019  log factor  0.9992838    0.85  1.15  ssf07 1 0 1
l07ss020  log factor   1.001747    0.85  1.15  ssf07 1 0 1
```



```
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l07ss025  log factor  0.9963509    0.85  1.15  ssf07 1 0 1
l07ss026  log factor  0.9989299    0.85  1.15  ssf07 1 0 1
l07ss027  log factor  0.9967972    0.85  1.15  ssf07 1 0 1
l07ss028  log factor   1.001863    0.85  1.15  ssf07 1 0 1
l07ss029  log factor   1.000180    0.85  1.15  ssf07 1 0 1
l07ss030  log factor   1.010513    0.85  1.15  ssf07 1 0 1
l07ss031  log factor  0.9980402    0.85  1.15  ssf07 1 0 1
l07ss032  log factor  0.9989521    0.85  1.15  ssf07 1 0 1
l07ss033  log factor  0.9981363    0.85  1.15  ssf07 1 0 1
l07ss034  log factor   1.005039    0.85  1.15  ssf07 1 0 1
l07ss035  log factor   1.006546    0.85  1.15  ssf07 1 0 1
l07ss036  log factor   1.005892    0.85  1.15  ssf07 1 0 1
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l07ss038  log factor   1.000926    0.85  1.15  ssf07 1 0 1
l07ss039  log factor  0.9981561    0.85  1.15  ssf07 1 0 1
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l07ss043  log factor  0.9934491    0.85  1.15  ssf07 1 0 1
l07ss044  log factor   1.000255    0.85  1.15  ssf07 1 0 1
l08ss001  log factor   1.002014    0.85  1.15  ssf08 1 0 1
l08ss002  log factor  0.9910405    0.85  1.15  ssf08 1 0 1
l08ss003  log factor  0.9989140    0.85  1.15  ssf08 1 0 1
l08ss004  log factor   1.002255    0.85  1.15  ssf08 1 0 1
l08ss005  log factor  0.9956953    0.85  1.15  ssf08 1 0 1
l08ss006  log factor   1.000762    0.85  1.15  ssf08 1 0 1
l08ss007  log factor   1.003223    0.85  1.15  ssf08 1 0 1
l08ss008  log factor  0.9997639    0.85  1.15  ssf08 1 0 1
l08ss009  log factor  0.9957075    0.85  1.15  ssf08 1 0 1
l08ss010  log factor  0.9953110    0.85  1.15  ssf08 1 0 1
l08ss011  log factor  0.9984598    0.85  1.15  ssf08 1 0 1
l08ss012  log factor   1.004710    0.85  1.15  ssf08 1 0 1
l08ss013  log factor  0.9937149    0.85  1.15  ssf08 1 0 1
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l08ss015  log factor   1.006120    0.85  1.15  ssf08 1 0 1
l08ss016  log factor  0.9994435    0.85  1.15  ssf08 1 0 1
l08ss017  log factor   1.000666    0.85  1.15  ssf08 1 0 1
l08ss018  log factor   1.001244    0.85  1.15  ssf08 1 0 1
l08ss019  log factor   1.010798    0.85  1.15  ssf08 1 0 1
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l08ss021  log factor   1.002982    0.85  1.15  ssf08 1 0 1
l08ss022  log factor  0.9955741    0.85  1.15  ssf08 1 0 1
l08ss023  log factor   1.007722    0.85  1.15  ssf08 1 0 1
```



```
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l08ss027  log factor  0.9978975    0.85  1.15  ssf08 1 0 1
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l08ss029  log factor  0.9986150    0.85  1.15  ssf08 1 0 1
l08ss030  log factor   1.002801    0.85  1.15  ssf08 1 0 1
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l09ss007  log factor   1.002718    0.85  1.15  ssf09 1 0 1
l09ss008  log factor  0.9974447    0.85  1.15  ssf09 1 0 1
l09ss009  log factor   1.008730    0.85  1.15  ssf09 1 0 1
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l09ss016  log factor  0.9981511    0.85  1.15  ssf09 1 0 1
l09ss017  log factor  0.9959600    0.85  1.15  ssf09 1 0 1
l09ss018  log factor  0.9960342    0.85  1.15  ssf09 1 0 1
```



```
l09ss019  log factor  0.9965067    0.85  1.15  ssf09 1 0 1
l09ss020  log factor  0.9965352    0.85  1.15  ssf09 1 0 1
l09ss021  log factor   1.002391    0.85  1.15  ssf09 1 0 1
l09ss022  log factor   1.004588    0.85  1.15  ssf09 1 0 1
l09ss023  log factor  0.9853526    0.85  1.15  ssf09 1 0 1
l09ss024  log factor   1.000699    0.85  1.15  ssf09 1 0 1
l09ss025  log factor  0.9985952    0.85  1.15  ssf09 1 0 1
l09ss026  log factor  0.9969527    0.85  1.15  ssf09 1 0 1
l09ss027  log factor   1.001430    0.85  1.15  ssf09 1 0 1
l09ss028  log factor   1.004687    0.85  1.15  ssf09 1 0 1
l09ss029  log factor  0.9954171    0.85  1.15  ssf09 1 0 1
l09ss030  log factor   1.003456    0.85  1.15  ssf09 1 0 1
l09ss031  log factor  0.9925211    0.85  1.15  ssf09 1 0 1
l09ss032  log factor  0.9938253    0.85  1.15  ssf09 1 0 1
l09ss033  log factor   1.013884    0.85  1.15  ssf09 1 0 1
l09ss034  log factor   1.012083    0.85  1.15  ssf09 1 0 1
l09ss035  log factor   1.001964    0.85  1.15  ssf09 1 0 1
l09ss036  log factor   1.001468    0.85  1.15  ssf09 1 0 1
l09ss037  log factor  0.9971834    0.85  1.15  ssf09 1 0 1
l09ss038  log factor  0.9943126    0.85  1.15  ssf09 1 0 1
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l09ss042  log factor  0.9993303    0.85  1.15  ssf09 1 0 1
l09ss043  log factor   1.002341    0.85  1.15  ssf09 1 0 1
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l09ss045  log factor  0.9945704    0.85  1.15  ssf09 1 0 1
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l09ss051  log factor  0.9965194    0.85  1.15  ssf09 1 0 1
l10ss001  log factor   1.002025    0.85  1.15  ssf10 1 0 1
l10ss002  log factor  0.9922022    0.85  1.15  ssf10 1 0 1
l10ss003  log factor   1.006390    0.85  1.15  ssf10 1 0 1
l10ss004  log factor   1.001023    0.85  1.15  ssf10 1 0 1
l10ss005  log factor  0.9963168    0.85  1.15  ssf10 1 0 1
l10ss006  log factor  0.9929900    0.85  1.15  ssf10 1 0 1
l10ss007  log factor   1.000283    0.85  1.15  ssf10 1 0 1
l10ss008  log factor  0.9965461    0.85  1.15  ssf10 1 0 1
l10ss009  log factor  0.9990405    0.85  1.15  ssf10 1 0 1
l10ss010  log factor   1.000943    0.85  1.15  ssf10 1 0 1
l10ss011  log factor   1.000114    0.85  1.15  ssf10 1 0 1
l10ss012  log factor  0.9985894    0.85  1.15  ssf10 1 0 1
l10ss013  log factor   1.009690    0.85  1.15  ssf10 1 0 1
l10ss014  log factor   1.004450    0.85  1.15  ssf10 1 0 1
```



```
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l10ss017  log factor   1.004479    0.85  1.15  ssf10 1 0 1
l10ss018  log factor   1.004638    0.85  1.15  ssf10 1 0 1
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l10ss020  log factor  0.9983536    0.85  1.15  ssf10 1 0 1
l10ss021  log factor   1.004608    0.85  1.15  ssf10 1 0 1
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l10ss024  log factor  0.9989305    0.85  1.15  ssf10 1 0 1
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l11ss015  log factor  0.9919620    0.85  1.15  ssf11 1 0 1
l11ss016  log factor  0.9992023    0.85  1.15  ssf11 1 0 1
l11ss017  log factor  0.9996316    0.85  1.15  ssf11 1 0 1
```



```
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l11ss021  log factor   1.001187    0.85  1.15  ssf11 1 0 1
l11ss022  log factor  0.9966390    0.85  1.15  ssf11 1 0 1
l11ss023  log factor   1.002801    0.85  1.15  ssf11 1 0 1
l11ss024  log factor   1.001740    0.85  1.15  ssf11 1 0 1
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l12ss009  log factor  0.9952807    0.85  1.15  ssf12 1 0 1
```



```
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l12ss013  log factor   1.011090    0.85  1.15  ssf12 1 0 1
l12ss014  log factor   1.000416    0.85  1.15  ssf12 1 0 1
l12ss015  log factor  0.9963671    0.85  1.15  ssf12 1 0 1
l12ss016  log factor  0.9991656    0.85  1.15  ssf12 1 0 1
l12ss017  log factor   1.006804    0.85  1.15  ssf12 1 0 1
l12ss018  log factor   1.002182    0.85  1.15  ssf12 1 0 1
l12ss019  log factor  0.9968185    0.85  1.15  ssf12 1 0 1
l12ss020  log factor   1.000127    0.85  1.15  ssf12 1 0 1
l12ss021  log factor   1.006510    0.85  1.15  ssf12 1 0 1
l12ss022  log factor   1.007018    0.85  1.15  ssf12 1 0 1
l12ss023  log factor  0.9984528    0.85  1.15  ssf12 1 0 1
l12ss024  log factor  0.9952247    0.85  1.15  ssf12 1 0 1
l12ss025  log factor   1.002045    0.85  1.15  ssf12 1 0 1
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l12ss029  log factor  0.9996849    0.85  1.15  ssf12 1 0 1
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l12ss040  log factor  0.9973715    0.85  1.15  ssf12 1 0 1
l12ss041  log factor  0.9884695    0.85  1.15  ssf12 1 0 1
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l13ss007  log factor   1.010703    0.85  1.15  ssf13 1 0 1
l13ss008  log factor  0.9897409    0.85  1.15  ssf13 1 0 1
l13ss009  log factor  0.9952554    0.85  1.15  ssf13 1 0 1
l13ss010  log factor  0.9913303    0.85  1.15  ssf13 1 0 1
```



```
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l13ss016  log factor   1.002556    0.85  1.15  ssf13 1 0 1
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l13ss019  log factor  0.9953259    0.85  1.15  ssf13 1 0 1
l13ss020  log factor   1.030931    0.85  1.15  ssf13 1 0 1
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l14ss006  log factor   1.007527    0.85  1.15  ssf14 1 0 1
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l14ss008  log factor   1.150000    0.85  1.15  ssf14 1 0 1
```



```
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```

```
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```
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```



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l19ss054  log factor  0.9619394   0.85  1.15  ssf19 1 0 1
l19ss055  log factor  0.9899639   0.85  1.15  ssf19 1 0 1
l19ss056  log factor  0.9968855   0.85  1.15  ssf19 1 0 1
```



```
l19ss057  log factor  0.9973033   0.85  1.15  ssf19 1 0 1
l19ss058  log factor  0.8999752   0.85  1.15  ssf19 1 0 1
l19ss059  log factor   1.032774   0.85  1.15  ssf19 1 0 1
l19ss060  log factor  0.9956215   0.85  1.15  ssf19 1 0 1
l19ss061  log factor  0.9997240   0.85  1.15  ssf19 1 0 1
l19ss062  log factor  0.9916057   0.85  1.15  ssf19 1 0 1
l19ss063  log factor  0.9859870   0.85  1.15  ssf19 1 0 1
l19ss064  log factor   1.004636   0.85  1.15  ssf19 1 0 1
l19ss065  log factor   1.003776   0.85  1.15  ssf19 1 0 1
l19ss066  log factor  0.9972152   0.85  1.15  ssf19 1 0 1
l19ss067  log factor   1.001616   0.85  1.15  ssf19 1 0 1
l19ss068  log factor   1.003682   0.85  1.15  ssf19 1 0 1
l20ss001  log factor  0.9983192   0.85  1.15  ssf20 1 0 1
l20ss002  log factor   1.004408   0.85  1.15  ssf20 1 0 1
l20ss003  log factor  0.9993886   0.85  1.15  ssf20 1 0 1
l20ss004  log factor   1.000595   0.85  1.15  ssf20 1 0 1
l20ss005  log factor  0.9963019   0.85  1.15  ssf20 1 0 1
l20ss006  log factor  0.9986349   0.85  1.15  ssf20 1 0 1
l20ss007  log factor  0.9915777   0.85  1.15  ssf20 1 0 1
l20ss008  log factor  0.9989020   0.85  1.15  ssf20 1 0 1
l20ss009  log factor   1.004989   0.85  1.15  ssf20 1 0 1
l20ss010  log factor  0.9986517   0.85  1.15  ssf20 1 0 1
l20ss011  log factor   1.008092   0.85  1.15  ssf20 1 0 1
l20ss012  log factor  0.9969734   0.85  1.15  ssf20 1 0 1
l20ss013  log factor  0.9970959   0.85  1.15  ssf20 1 0 1
l20ss014  log factor  0.9994562   0.85  1.15  ssf20 1 0 1
l20ss015  log factor  0.9996219   0.85  1.15  ssf20 1 0 1
l20ss016  log factor   1.001786   0.85  1.15  ssf20 1 0 1
l20ss017  log factor  0.9916577   0.85  1.15  ssf20 1 0 1
l20ss018  log factor   1.002332   0.85  1.15  ssf20 1 0 1
l20ss019  log factor  0.9999766   0.85  1.15  ssf20 1 0 1
l20ss020  log factor   1.002624   0.85  1.15  ssf20 1 0 1
l20ss021  log factor   1.004333   0.85  1.15  ssf20 1 0 1
l20ss022  log factor   1.007846   0.85  1.15  ssf20 1 0 1
l20ss023  log factor  0.9736981   0.85  1.15  ssf20 1 0 1
l20ss024  log factor  0.8500000   0.85  1.15  ssf20 1 0 1
l20ss025  log factor  0.9491029   0.85  1.15  ssf20 1 0 1
l20ss026  log factor  0.8500000   0.85  1.15  ssf20 1 0 1
l20ss027  log factor  0.8500000   0.85  1.15  ssf20 1 0 1
l20ss028  log factor   1.002510   0.85  1.15  ssf20 1 0 1
l20ss029  log factor  0.9963825   0.85  1.15  ssf20 1 0 1
l20ss030  log factor   1.000217   0.85  1.15  ssf20 1 0 1
l20ss031  log factor  0.9921920   0.85  1.15  ssf20 1 0 1
l20ss032  log factor  0.9754077   0.85  1.15  ssf20 1 0 1
l20ss033  log factor   1.016468   0.85  1.15  ssf20 1 0 1
l20ss034  log factor  0.9987265   0.85  1.15  ssf20 1 0 1
l20ss035  log factor  0.9181851   0.85  1.15  ssf20 1 0 1
```



```
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l20ss038  log factor   1.008383   0.85  1.15  ssf20 1 0 1
l20ss039  log factor  0.9975242   0.85  1.15  ssf20 1 0 1
l20ss040  log factor   1.001062   0.85  1.15  ssf20 1 0 1
l20ss041  log factor   1.003429   0.85  1.15  ssf20 1 0 1
l20ss042  log factor  0.9993175   0.85  1.15  ssf20 1 0 1
l20ss043  log factor   1.002022   0.85  1.15  ssf20 1 0 1
l20ss044  log factor   1.000726   0.85  1.15  ssf20 1 0 1
l20ss045  log factor  0.9970353   0.85  1.15  ssf20 1 0 1
l20ss046  log factor  0.9932454   0.85  1.15  ssf20 1 0 1
l20ss047  log factor  0.9544066   0.85  1.15  ssf20 1 0 1
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l20ss049  log factor  0.8500000   0.85  1.15  ssf20 1 0 1
l20ss050  log factor  0.8500000   0.85  1.15  ssf20 1 0 1
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l20ss054  log factor  0.9880465   0.85  1.15  ssf20 1 0 1
l20ss055  log factor  0.8746766   0.85  1.15  ssf20 1 0 1
l20ss056  log factor  0.9999168   0.85  1.15  ssf20 1 0 1
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l20ss058  log factor   1.010989   0.85  1.15  ssf20 1 0 1
l20ss059  log factor   1.002046   0.85  1.15  ssf20 1 0 1
l20ss060  log factor   1.002709   0.85  1.15  ssf20 1 0 1
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l20ss062  log factor  0.9985491   0.85  1.15  ssf20 1 0 1
l21ss001  log factor  0.9969893   0.85  1.15  ssf21 1 0 1
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l21ss004  log factor   1.011014   0.85  1.15  ssf21 1 0 1
l21ss005  log factor  0.9988814   0.85  1.15  ssf21 1 0 1
l21ss006  log factor   1.006762   0.85  1.15  ssf21 1 0 1
l21ss007  log factor  0.9950075   0.85  1.15  ssf21 1 0 1
l21ss008  log factor   1.001700   0.85  1.15  ssf21 1 0 1
l21ss009  log factor  0.8500000   0.85  1.15  ssf21 1 0 1
l21ss010  log factor  0.8500000   0.85  1.15  ssf21 1 0 1
l21ss011  log factor  0.8500000   0.85  1.15  ssf21 1 0 1
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l21ss014  log factor   1.007884   0.85  1.15  ssf21 1 0 1
l21ss015  log factor  0.9701340   0.85  1.15  ssf21 1 0 1
l21ss016  log factor  0.9844838   0.85  1.15  ssf21 1 0 1
l21ss017  log factor  0.9942895   0.85  1.15  ssf21 1 0 1
l21ss018  log factor  0.9913727   0.85  1.15  ssf21 1 0 1
l21ss019  log factor  0.9959627   0.85  1.15  ssf21 1 0 1
l21ss020  log factor  0.9887217   0.85  1.15  ssf21 1 0 1
```



```
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l21ss024  log factor  0.9893366   0.85  1.15  ssf21 1 0 1
l21ss025  log factor  0.9976353   0.85  1.15  ssf21 1 0 1
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l21ss027  log factor  0.9923964   0.85  1.15  ssf21 1 0 1
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l21ss029  log factor  0.9856005   0.85  1.15  ssf21 1 0 1
l21ss030  log factor  0.9843696   0.85  1.15  ssf21 1 0 1
l21ss031  log factor   1.011372   0.85  1.15  ssf21 1 0 1
l21ss032  log factor   1.000337   0.85  1.15  ssf21 1 0 1
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l21ss034  log factor   1.005301   0.85  1.15  ssf21 1 0 1
l21ss035  log factor   1.011394   0.85  1.15  ssf21 1 0 1
l21ss036  log factor  0.8500000   0.85  1.15  ssf21 1 0 1
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l21ss038  log factor  0.8500000   0.85  1.15  ssf21 1 0 1
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l21ss043  log factor  0.9606976   0.85  1.15  ssf21 1 0 1
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l21ss047  log factor  0.9202419   0.85  1.15  ssf21 1 0 1
l21ss048  log factor  0.8500000   0.85  1.15  ssf21 1 0 1
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l21ss053  log factor  0.9922225   0.85  1.15  ssf21 1 0 1
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l21ss055  log factor   1.002724   0.85  1.15  ssf21 1 0 1
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l21ss058  log factor  0.9970254   0.85  1.15  ssf21 1 0 1
l21ss059  log factor   1.009637   0.85  1.15  ssf21 1 0 1
l21ss060  log factor   1.002652   0.85  1.15  ssf21 1 0 1
l21ss061  log factor  0.9967773   0.85  1.15  ssf21 1 0 1
l21ss062  log factor  0.9061586   0.85  1.15  ssf21 1 0 1
l21ss063  log factor  0.9953347   0.85  1.15  ssf21 1 0 1
l21ss064  log factor  0.8544770   0.85  1.15  ssf21 1 0 1
l21ss065  log factor  0.9985578   0.85  1.15  ssf21 1 0 1
l21ss066  log factor  0.9848190   0.85  1.15  ssf21 1 0 1
l21ss067  log factor  0.9985588   0.85  1.15  ssf21 1 0 1
```



```
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l22ss003  log factor  0.9999159   0.85  1.15  ssf22 1 0 1
l22ss004  log factor  0.9974639   0.85  1.15  ssf22 1 0 1
l22ss005  log factor   1.004932   0.85  1.15  ssf22 1 0 1
l22ss006  log factor   1.008985   0.85  1.15  ssf22 1 0 1
l22ss007  log factor  0.9839419   0.85  1.15  ssf22 1 0 1
l22ss008  log factor  0.9868222   0.85  1.15  ssf22 1 0 1
l22ss009  log factor   1.092755   0.85  1.15  ssf22 1 0 1
l22ss010  log factor  0.9931061   0.85  1.15  ssf22 1 0 1
l22ss011  log factor  0.9952173   0.85  1.15  ssf22 1 0 1
l22ss012  log factor  0.9963462   0.85  1.15  ssf22 1 0 1
l22ss013  log factor   1.005248   0.85  1.15  ssf22 1 0 1
l22ss014  log factor  0.9935822   0.85  1.15  ssf22 1 0 1
l22ss015  log factor  0.9963635   0.85  1.15  ssf22 1 0 1
l22ss016  log factor  0.9975221   0.85  1.15  ssf22 1 0 1
l22ss017  log factor  0.9847752   0.85  1.15  ssf22 1 0 1
l22ss018  log factor  0.9830208   0.85  1.15  ssf22 1 0 1
l22ss019  log factor  0.9909012   0.85  1.15  ssf22 1 0 1
l22ss020  log factor  0.9862594   0.85  1.15  ssf22 1 0 1
l22ss021  log factor  0.9945627   0.85  1.15  ssf22 1 0 1
l22ss022  log factor  0.9877779   0.85  1.15  ssf22 1 0 1
l22ss023  log factor  0.9970846   0.85  1.15  ssf22 1 0 1
l22ss024  log factor   1.002720   0.85  1.15  ssf22 1 0 1
l22ss025  log factor  0.9917958   0.85  1.15  ssf22 1 0 1
l22ss026  log factor   1.002917   0.85  1.15  ssf22 1 0 1
l22ss027  log factor  0.9696817   0.85  1.15  ssf22 1 0 1
l22ss028  log factor   1.002076   0.85  1.15  ssf22 1 0 1
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l22ss032  log factor  0.9457086   0.85  1.15  ssf22 1 0 1
l22ss033  log factor  0.8500000   0.85  1.15  ssf22 1 0 1
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l22ss037  log factor  0.8500000   0.85  1.15  ssf22 1 0 1
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l22ss039  log factor  0.8500000   0.85  1.15  ssf22 1 0 1
l22ss040  log factor  0.9097825   0.85  1.15  ssf22 1 0 1
l22ss041  log factor  0.9952895   0.85  1.15  ssf22 1 0 1
l22ss042  log factor   1.005195   0.85  1.15  ssf22 1 0 1
l22ss043  log factor  0.9885602   0.85  1.15  ssf22 1 0 1
l22ss044  log factor   1.001233   0.85  1.15  ssf22 1 0 1
l22ss045  log factor   1.010332   0.85  1.15  ssf22 1 0 1
l22ss046  log factor  0.9959713   0.85  1.15  ssf22 1 0 1
l22ss047  log factor   1.006715   0.85  1.15  ssf22 1 0 1
```



```
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l22ss050  log factor   1.002816   0.85  1.15  ssf22 1 0 1
l22ss051  log factor  0.8500000   0.85  1.15  ssf22 1 0 1
l22ss052  log factor  0.8500000   0.85  1.15  ssf22 1 0 1
l22ss053  log factor  0.8500000   0.85  1.15  ssf22 1 0 1
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l22ss056  log factor   1.004712   0.85  1.15  ssf22 1 0 1
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l22ss058  log factor  0.9580845   0.85  1.15  ssf22 1 0 1
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l22ss061  log factor   1.011925   0.85  1.15  ssf22 1 0 1
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l22ss065  log factor   1.004306   0.85  1.15  ssf22 1 0 1
l22ss066  log factor  0.9867884   0.85  1.15  ssf22 1 0 1
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l23ss027  log factor  0.8855604   0.85  1.15  ssf23 1 0 1
```



```
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l23ss031  log factor  0.9895179   0.85  1.15  ssf23 1 0 1
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l23ss034  log factor   1.003290   0.85  1.15  ssf23 1 0 1
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l23ss058  log factor  0.8581835   0.85  1.15  ssf23 1 0 1
l23ss059  log factor  0.9198142   0.85  1.15  ssf23 1 0 1
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l23ss062  log factor  0.9999650   0.85  1.15  ssf23 1 0 1
l23ss063  log factor   1.000414   0.85  1.15  ssf23 1 0 1
l23ss064  log factor   1.005882   0.85  1.15  ssf23 1 0 1
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l23ss066  log factor   1.000457   0.85  1.15  ssf23 1 0 1
l23ss067  log factor  0.9945810   0.85  1.15  ssf23 1 0 1
l23ss068  log factor   1.006387   0.85  1.15  ssf23 1 0 1
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l24ss002  log factor   1.007553   0.85  1.15  ssf24 1 0 1
l24ss003  log factor  0.9992082   0.85  1.15  ssf24 1 0 1
l24ss004  log factor  0.9984380   0.85  1.15  ssf24 1 0 1
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l24ss006  log factor   1.009512   0.85  1.15  ssf24 1 0 1
```



```
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l24ss009  log factor   1.001189   0.85  1.15  ssf24 1 0 1
l24ss010  log factor  0.9966256   0.85  1.15  ssf24 1 0 1
l24ss011  log factor  0.9928302   0.85  1.15  ssf24 1 0 1
l24ss012  log factor   1.000291   0.85  1.15  ssf24 1 0 1
l24ss013  log factor  0.9790083   0.85  1.15  ssf24 1 0 1
l24ss014  log factor  0.9997543   0.85  1.15  ssf24 1 0 1
l24ss015  log factor  0.9767399   0.85  1.15  ssf24 1 0 1
l24ss016  log factor   1.000456   0.85  1.15  ssf24 1 0 1
l24ss017  log factor  0.9849116   0.85  1.15  ssf24 1 0 1
l24ss018  log factor  0.9801335   0.85  1.15  ssf24 1 0 1
l24ss019  log factor   1.001874   0.85  1.15  ssf24 1 0 1
l24ss020  log factor   1.001053   0.85  1.15  ssf24 1 0 1
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l24ss022  log factor   1.012299   0.85  1.15  ssf24 1 0 1
l24ss023  log factor  0.9927244   0.85  1.15  ssf24 1 0 1
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l24ss048  log factor  0.9943530   0.85  1.15  ssf24 1 0 1
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l24ss050  log factor  0.9784840   0.85  1.15  ssf24 1 0 1
l24ss051  log factor   1.002557   0.85  1.15  ssf24 1 0 1
l24ss052  log factor  0.9227596   0.85  1.15  ssf24 1 0 1
l24ss053  log factor  0.9930846   0.85  1.15  ssf24 1 0 1
```



```
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l24ss058  log factor  0.9693099   0.85  1.15  ssf24 1 0 1
l24ss059  log factor   1.004477   0.85  1.15  ssf24 1 0 1
l24ss060  log factor   1.007538   0.85  1.15  ssf24 1 0 1
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l24ss062  log factor  0.9078523   0.85  1.15  ssf24 1 0 1
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l25ss006  log factor   1.002074   0.85  1.15  ssf25 1 0 1
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l25ss009  log factor  0.9971304   0.85  1.15  ssf25 1 0 1
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l25ss035  log factor  0.8810536   0.85  1.15  ssf25 1 0 1
```



```
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l25ss039  log factor  0.9615128   0.85  1.15  ssf25 1 0 1
l25ss040  log factor  0.9912746   0.85  1.15  ssf25 1 0 1
l25ss041  log factor  0.9934390   0.85  1.15  ssf25 1 0 1
l25ss042  log factor  0.9944456   0.85  1.15  ssf25 1 0 1
l25ss043  log factor   1.002544   0.85  1.15  ssf25 1 0 1
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l25ss057  log factor   1.000814   0.85  1.15  ssf25 1 0 1
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l25ss066  log factor  0.8500000   0.85  1.15  ssf25 1 0 1
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l26ss003  log factor  0.9827294   0.85  1.15  ssf26 1 0 1
l26ss004  log factor   1.004128   0.85  1.15  ssf26 1 0 1
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l26ss009  log factor  0.9964360   0.85  1.15  ssf26 1 0 1
l26ss010  log factor   1.002622   0.85  1.15  ssf26 1 0 1
l26ss011  log factor  0.9970151   0.85  1.15  ssf26 1 0 1
```



```
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l26ss015  log factor  0.9993691   0.85  1.15  ssf26 1 0 1
l26ss016  log factor  0.9954915   0.85  1.15  ssf26 1 0 1
l26ss017  log factor  0.9967403   0.85  1.15  ssf26 1 0 1
l26ss018  log factor   1.012647   0.85  1.15  ssf26 1 0 1
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l26ss040  log factor  0.9981522   0.85  1.15  ssf26 1 0 1
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l26ss047  log factor  0.8500000   0.85  1.15  ssf26 1 0 1
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l26ss052  log factor   1.001951   0.85  1.15  ssf26 1 0 1
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l26ss057  log factor  0.9888528   0.85  1.15  ssf26 1 0 1
l26ss058  log factor  0.9935961   0.85  1.15  ssf26 1 0 1
```

```
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l27ss009  log factor  0.9993466   0.85  1.15  ssf27 1 0 1
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l27ss045  log factor  0.9233480   0.85  1.15  ssf27 1 0 1
l27ss046  log factor  0.9949448   0.85  1.15  ssf27 1 0 1
```



```
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l27ss056  log factor  0.9990570   0.85  1.15  ssf27 1 0 1
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l28ss006  log factor   1.001558   0.85  1.15  ssf28 1 0 1
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l28ss033  log factor  0.8500000   0.85  1.15  ssf28 1 0 1
```



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l11sy030  log factor   1.014953   0.875 1.125 syf11 1 0 1
l11sy031  log factor  0.9715829   0.875 1.125 syf11 1 0 1
l11sy032  log factor   1.004292   0.875 1.125 syf11 1 0 1
l11sy033  log factor   1.004762   0.875 1.125 syf11 1 0 1
l11sy034  log factor  0.9481218   0.875 1.125 syf11 1 0 1
l11sy035  log factor  0.9366492   0.875 1.125 syf11 1 0 1
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l11sy037  log factor  0.9724644   0.875 1.125 syf11 1 0 1
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l17sy008  log factor    1.002215      0.875 1.125 syf17 1 0 1
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l17sy010  log factor   0.9943562      0.875 1.125 syf17 1 0 1
l17sy011  log factor   0.9933272      0.875 1.125 syf17 1 0 1
l17sy012  log factor    1.004976      0.875 1.125 syf17 1 0 1
l17sy013  log factor    1.000800      0.875 1.125 syf17 1 0 1
l17sy014  log factor    1.007580      0.875 1.125 syf17 1 0 1
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l17sy016  log factor    1.000188      0.875 1.125 syf17 1 0 1
l17sy017  log factor   0.9934441      0.875 1.125 syf17 1 0 1
l17sy018  log factor    1.056013      0.875 1.125 syf17 1 0 1
l17sy019  log factor   0.9997110      0.875 1.125 syf17 1 0 1
l17sy020  log factor   0.9957400      0.875 1.125 syf17 1 0 1
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l17sy022  log factor   0.9984080      0.875 1.125 syf17 1 0 1
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l17sy026  log factor    1.006788      0.875 1.125 syf17 1 0 1
l17sy027  log factor    1.004420      0.875 1.125 syf17 1 0 1
l17sy028  log factor    1.004613      0.875 1.125 syf17 1 0 1
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l17sy038  log factor    1.005003      0.875 1.125 syf17 1 0 1
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l17sy046  log factor    1.004270      0.875 1.125 syf17 1 0 1
l17sy047  log factor    1.001096      0.875 1.125 syf17 1 0 1
l17sy048  log factor   0.9827570      0.875 1.125 syf17 1 0 1
l17sy049  log factor    1.027537      0.875 1.125 syf17 1 0 1
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l18sy027  log factor    1.013894      0.875 1.125 syf18 1 0 1
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l19sy029  log factor   0.9936059      0.875 1.125 syf19 1 0 1
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l20sy008  log factor   0.9952655      0.875 1.125 syf20 1 0 1
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l21sy040  log factor   0.9522840      0.875 1.125 syf21 1 0 1
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l21sy066  log factor   0.9801494      0.875 1.125 syf21 1 0 1
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l22sy020  log factor   0.9979280      0.875 1.125 syf22 1 0 1
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l24sy026  log factor    1.037840      0.875 1.125 syf24 1 0 1
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l25sy008  log factor   0.9895470      0.875 1.125 syf25 1 0 1
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l26sy006  log factor   0.9982587      0.875 1.125 syf26 1 0 1
l26sy007  log factor   0.9717561      0.875 1.125 syf26 1 0 1
l26sy008  log factor    1.005545      0.875 1.125 syf26 1 0 1
l26sy009  log factor   0.9965978      0.875 1.125 syf26 1 0 1
l26sy010  log factor   0.9964176      0.875 1.125 syf26 1 0 1
l26sy011  log factor    1.002046      0.875 1.125 syf26 1 0 1
l26sy012  log factor   0.9987803      0.875 1.125 syf26 1 0 1
l26sy013  log factor    1.001938      0.875 1.125 syf26 1 0 1
l26sy014  log factor   0.9820657      0.875 1.125 syf26 1 0 1
l26sy015  log factor    1.004583      0.875 1.125 syf26 1 0 1
l26sy016  log factor   0.9960205      0.875 1.125 syf26 1 0 1
l26sy017  log factor   0.9978811      0.875 1.125 syf26 1 0 1
l26sy018  log factor   0.9952602      0.875 1.125 syf26 1 0 1
l26sy019  log factor   0.9990329      0.875 1.125 syf26 1 0 1
l26sy020  log factor   0.9964265      0.875 1.125 syf26 1 0 1
l26sy021  log factor    1.001091      0.875 1.125 syf26 1 0 1
l26sy022  log factor   0.9979996      0.875 1.125 syf26 1 0 1
l26sy023  log factor    1.004158      0.875 1.125 syf26 1 0 1
l26sy024  log factor   0.9977355      0.875 1.125 syf26 1 0 1
l26sy025  log factor    1.003794      0.875 1.125 syf26 1 0 1
l26sy026  log factor   0.9986180      0.875 1.125 syf26 1 0 1
l26sy027  log factor    1.016371      0.875 1.125 syf26 1 0 1
l26sy028  log factor   0.9937235      0.875 1.125 syf26 1 0 1
l26sy029  log factor   0.9824782      0.875 1.125 syf26 1 0 1
l26sy030  log factor   0.9893517      0.875 1.125 syf26 1 0 1
l26sy031  log factor    1.000060      0.875 1.125 syf26 1 0 1
```



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l26sy032  log factor   0.9987258      0.875 1.125 syf26 1 0 1
l26sy033  log factor    1.001795      0.875 1.125 syf26 1 0 1
l26sy034  log factor   0.9981842      0.875 1.125 syf26 1 0 1
l26sy035  log factor    1.002834      0.875 1.125 syf26 1 0 1
l26sy036  log factor    1.002266      0.875 1.125 syf26 1 0 1
l26sy037  log factor   0.9936138      0.875 1.125 syf26 1 0 1
l26sy038  log factor   0.9937506      0.875 1.125 syf26 1 0 1
l26sy039  log factor   0.9975784      0.875 1.125 syf26 1 0 1
l26sy040  log factor   0.9951483      0.875 1.125 syf26 1 0 1
l26sy041  log factor   0.9814464      0.875 1.125 syf26 1 0 1
l26sy042  log factor   0.9989954      0.875 1.125 syf26 1 0 1
l26sy043  log factor    1.009038      0.875 1.125 syf26 1 0 1
l26sy044  log factor   0.9988026      0.875 1.125 syf26 1 0 1
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l26sy046  log factor   0.9995717      0.875 1.125 syf26 1 0 1
l26sy047  log factor    1.002429      0.875 1.125 syf26 1 0 1
l26sy048  log factor   0.9945337      0.875 1.125 syf26 1 0 1
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l26sy054  log factor    1.003719      0.875 1.125 syf26 1 0 1
l26sy055  log factor   0.9927309      0.875 1.125 syf26 1 0 1
l26sy056  log factor   0.8750000      0.875 1.125 syf26 1 0 1
l26sy057  log factor   0.9923023      0.875 1.125 syf26 1 0 1
l26sy058  log factor    1.002460      0.875 1.125 syf26 1 0 1
l26sy059  log factor   0.9988252      0.875 1.125 syf26 1 0 1
l27sy001  log factor    1.015208      0.875 1.125 syf27 1 0 1
l27sy002  log factor   0.9958031      0.875 1.125 syf27 1 0 1
l27sy003  log factor   0.9977901      0.875 1.125 syf27 1 0 1
l27sy004  log factor   0.9926046      0.875 1.125 syf27 1 0 1
l27sy005  log factor    1.000741      0.875 1.125 syf27 1 0 1
l27sy006  log factor    1.000017      0.875 1.125 syf27 1 0 1
l27sy007  log factor    1.000720      0.875 1.125 syf27 1 0 1
l27sy008  log factor    1.001781      0.875 1.125 syf27 1 0 1
l27sy009  log factor    1.005774      0.875 1.125 syf27 1 0 1
l27sy010  log factor    1.005414      0.875 1.125 syf27 1 0 1
l27sy011  log factor   0.9986802      0.875 1.125 syf27 1 0 1
l27sy012  log factor    1.000889      0.875 1.125 syf27 1 0 1
l27sy013  log factor    1.012504      0.875 1.125 syf27 1 0 1
l27sy014  log factor   0.9975166      0.875 1.125 syf27 1 0 1
l27sy015  log factor   0.9913665      0.875 1.125 syf27 1 0 1
l27sy016  log factor   0.9945713      0.875 1.125 syf27 1 0 1
l27sy017  log factor   0.9901323      0.875 1.125 syf27 1 0 1
l27sy018  log factor   0.9985032      0.875 1.125 syf27 1 0 1
l27sy019  log factor   0.9992163      0.875 1.125 syf27 1 0 1
```



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l27sy020  log factor    1.000679      0.875 1.125 syf27 1 0 1
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l27sy025  log factor   0.9995270      0.875 1.125 syf27 1 0 1
l27sy026  log factor    1.004879      0.875 1.125 syf27 1 0 1
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l27sy028  log factor    1.002870      0.875 1.125 syf27 1 0 1
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l27sy031  log factor    1.003662      0.875 1.125 syf27 1 0 1
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l27sy038  log factor    1.005260      0.875 1.125 syf27 1 0 1
l27sy039  log factor   0.9985832      0.875 1.125 syf27 1 0 1
l27sy040  log factor   0.9978426      0.875 1.125 syf27 1 0 1
l27sy041  log factor    1.000619      0.875 1.125 syf27 1 0 1
l27sy042  log factor   0.9967001      0.875 1.125 syf27 1 0 1
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l27sy044  log factor   0.9977163      0.875 1.125 syf27 1 0 1
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l27sy046  log factor    1.010689      0.875 1.125 syf27 1 0 1
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l27sy054  log factor   0.9962619      0.875 1.125 syf27 1 0 1
l27sy055  log factor    1.001320      0.875 1.125 syf27 1 0 1
l27sy056  log factor   0.9935583      0.875 1.125 syf27 1 0 1
l27sy057  log factor    1.007596      0.875 1.125 syf27 1 0 1
l27sy058  log factor   0.9987097      0.875 1.125 syf27 1 0 1
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l28sy002  log factor    1.006241      0.875 1.125 syf28 1 0 1
l28sy003  log factor    1.000218      0.875 1.125 syf28 1 0 1
l28sy004  log factor    1.000543      0.875 1.125 syf28 1 0 1
l28sy005  log factor   0.9973820      0.875 1.125 syf28 1 0 1
l28sy006  log factor    1.006118      0.875 1.125 syf28 1 0 1
```



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l28sy007  log factor    1.018640      0.875 1.125 syf28 1 0 1
l28sy008  log factor   0.9855565      0.875 1.125 syf28 1 0 1
l28sy009  log factor   0.9976671      0.875 1.125 syf28 1 0 1
l28sy010  log factor   0.9983704      0.875 1.125 syf28 1 0 1
l28sy011  log factor    1.013689      0.875 1.125 syf28 1 0 1
l28sy012  log factor   0.9927987      0.875 1.125 syf28 1 0 1
l28sy013  log factor   0.9914474      0.875 1.125 syf28 1 0 1
l28sy014  log factor   0.9973275      0.875 1.125 syf28 1 0 1
l28sy015  log factor    1.000597      0.875 1.125 syf28 1 0 1
l28sy016  log factor   0.9968986      0.875 1.125 syf28 1 0 1
l28sy017  log factor   0.9995569      0.875 1.125 syf28 1 0 1
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l28sy020  log factor    1.001055      0.875 1.125 syf28 1 0 1
l28sy021  log factor    1.007807      0.875 1.125 syf28 1 0 1
l28sy022  log factor   0.9992270      0.875 1.125 syf28 1 0 1
l28sy023  log factor   0.9994772      0.875 1.125 syf28 1 0 1
l28sy024  log factor   0.9960905      0.875 1.125 syf28 1 0 1
l28sy025  log factor   0.9951126      0.875 1.125 syf28 1 0 1
l28sy026  log factor    1.009636      0.875 1.125 syf28 1 0 1
l28sy027  log factor   0.9984097      0.875 1.125 syf28 1 0 1
l28sy028  log factor    1.001609      0.875 1.125 syf28 1 0 1
l28sy029  log factor    1.006820      0.875 1.125 syf28 1 0 1
l28sy030  log factor   0.9940523      0.875 1.125 syf28 1 0 1
l28sy031  log factor   0.9929155      0.875 1.125 syf28 1 0 1
l28sy032  log factor   0.9940631      0.875 1.125 syf28 1 0 1
l28sy033  log factor    1.001099      0.875 1.125 syf28 1 0 1
l28sy034  log factor   0.8750000      0.875 1.125 syf28 1 0 1
l28sy035  log factor    1.014032      0.875 1.125 syf28 1 0 1
l28sy036  log factor   0.9944970      0.875 1.125 syf28 1 0 1
l28sy037  log factor   0.9978237      0.875 1.125 syf28 1 0 1
l28sy038  log factor   0.9992235      0.875 1.125 syf28 1 0 1
l28sy039  log factor   0.9985985      0.875 1.125 syf28 1 0 1
l28sy040  log factor    1.006430      0.875 1.125 syf28 1 0 1
l28sy041  log factor   0.9980538      0.875 1.125 syf28 1 0 1
l28sy042  log factor    1.007236      0.875 1.125 syf28 1 0 1
l28sy043  log factor   0.9967065      0.875 1.125 syf28 1 0 1
l28sy044  log factor    1.001352      0.875 1.125 syf28 1 0 1
l28sy045  log factor   0.9998486      0.875 1.125 syf28 1 0 1
l28sy046  log factor   0.9980112      0.875 1.125 syf28 1 0 1
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l28sy048  log factor    1.002184      0.875 1.125 syf28 1 0 1
l28sy049  log factor    1.125000      0.875 1.125 syf28 1 0 1
l28sy050  log factor    1.000794      0.875 1.125 syf28 1 0 1
l28sy051  log factor    1.004459      0.875 1.125 syf28 1 0 1
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l28sy053  log factor    1.006859      0.875 1.125 syf28 1 0 1
```



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l28sy054  log factor    1.009802      0.875 1.125 syf28 1 0 1
l28sy055  log factor   0.9955571      0.875 1.125 syf28 1 0 1
l28sy056  log factor    1.003981      0.875 1.125 syf28 1 0 1
l28sy057  log factor    1.000876      0.875 1.125 syf28 1 0 1
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l29sy002  log factor   0.9946569      0.875 1.125 syf29 1 0 1
l29sy003  log factor    1.007343      0.875 1.125 syf29 1 0 1
l29sy004  log factor    1.007922      0.875 1.125 syf29 1 0 1
l29sy005  log factor   0.9944086      0.875 1.125 syf29 1 0 1
l29sy006  log factor   0.9973905      0.875 1.125 syf29 1 0 1
l29sy007  log factor    1.001713      0.875 1.125 syf29 1 0 1
l29sy008  log factor    1.001480      0.875 1.125 syf29 1 0 1
l29sy009  log factor    1.007057      0.875 1.125 syf29 1 0 1
l29sy010  log factor   0.9989097      0.875 1.125 syf29 1 0 1
l29sy011  log factor   0.9992041      0.875 1.125 syf29 1 0 1
l29sy012  log factor    1.006866      0.875 1.125 syf29 1 0 1
l29sy013  log factor    1.008236      0.875 1.125 syf29 1 0 1
l29sy014  log factor    1.000720      0.875 1.125 syf29 1 0 1
l29sy015  log factor   0.9980219      0.875 1.125 syf29 1 0 1
l29sy016  log factor   0.9999746      0.875 1.125 syf29 1 0 1
l29sy017  log factor   0.9981728      0.875 1.125 syf29 1 0 1
l29sy018  log factor   0.9980978      0.875 1.125 syf29 1 0 1
l29sy019  log factor    1.004667      0.875 1.125 syf29 1 0 1
l29sy020  log factor   0.9968302      0.875 1.125 syf29 1 0 1
l29sy021  log factor    1.007400      0.875 1.125 syf29 1 0 1
l29sy022  log factor   0.9967470      0.875 1.125 syf29 1 0 1
l29sy023  log factor   0.9986099      0.875 1.125 syf29 1 0 1
l29sy024  log factor    1.005137      0.875 1.125 syf29 1 0 1
l29sy025  log factor    1.002575      0.875 1.125 syf29 1 0 1
l30sy001  log factor   0.9963935      0.875 1.125 syf30 1 0 1
l30sy002  log factor    1.008187      0.875 1.125 syf30 1 0 1
l30sy003  log factor   0.9969707      0.875 1.125 syf30 1 0 1
l30sy004  log factor    1.006154      0.875 1.125 syf30 1 0 1
l30sy005  log factor    1.007221      0.875 1.125 syf30 1 0 1
l30sy006  log factor    1.000668      0.875 1.125 syf30 1 0 1
l30sy007  log factor    1.008327      0.875 1.125 syf30 1 0 1
l30sy008  log factor   0.9954133      0.875 1.125 syf30 1 0 1
l30sy009  log factor    1.003296      0.875 1.125 syf30 1 0 1
l30sy010  log factor   0.9995805      0.875 1.125 syf30 1 0 1
l30sy011  log factor   0.9965032      0.875 1.125 syf30 1 0 1
l30sy012  log factor    1.012726      0.875 1.125 syf30 1 0 1
l30sy013  log factor   0.9989772      0.875 1.125 syf30 1 0 1
l30sy014  log factor   0.9963689      0.875 1.125 syf30 1 0 1
l30sy015  log factor   0.9996681      0.875 1.125 syf30 1 0 1
l30sy016  log factor   0.9979535      0.875 1.125 syf30 1 0 1
l30sy017  log factor   0.9986238      0.875 1.125 syf30 1 0 1
l30sy018  log factor    1.003799      0.875 1.125 syf30 1 0 1
```



```
l30sy019  log factor   0.9959048      0.875 1.125 syf30 1 0 1
l30sy020  log factor   0.9931152      0.875 1.125 syf30 1 0 1
l30sy021  log factor   0.9990299      0.875 1.125 syf30 1 0 1
l30sy022  log factor   0.9963420      0.875 1.125 syf30 1 0 1
l30sy023  log factor   0.9954927      0.875 1.125 syf30 1 0 1
l30sy024  log factor    1.002064      0.875 1.125 syf30 1 0 1
l30sy025  log factor    1.008083      0.875 1.125 syf30 1 0 1
l30sy026  log factor    1.006153      0.875 1.125 syf30 1 0 1
l30sy027  log factor    1.000830      0.875 1.125 syf30 1 0 1
l30sy028  log factor    1.001398      0.875 1.125 syf30 1 0 1
lmtkv_t1 log factor   5.0000000E-10  1e-10  1e-09   lk_1e1  1 0 1
lmtkvf_t2t1 log factor   0.8500000      0.70  0.90   lkf1e2  1 0 1
lmtkvf_t3t2 log factor   0.8500000      0.70  0.90   lkf1e2  1 0 1
dd_tg01 log factor    3.500000      1.5  3.5   dtg1e2  1 0 1
dd_tg02 log factor    2.600000      1.3  2.6   dtg1e2  1 0 1
dd_tg03 log factor    2.800000      1.4  2.8   dtg1e2  1 0 1
dd_gs01 log factor    1.500000      1.5  3.5   dgs1e2  1 0 1
dd_gs02 log factor    2.458720      1.5  3.5   dgs1e2  1 0 1
dd_gs03 log factor    3.500000      1.5  3.5   dgs1e2  1 0 1
dd_gs04 log factor    1.500000      1.5  3.5   dgs1e2  1 0 1
dd_gs05 log factor    2.175355      1.5  3.5   dgs1e2  1 0 1
dd_gs06 log factor    2.196642      1.5  3.5   dgs1e2  1 0 1
rchf001 log factor   0.2000000      0.05  0.40  rhf2e2  1 0 1
rchf002 log factor   0.2469729      0.05  0.40  rhf2e2  1 0 1
rchf003 log factor   0.1707432      0.05  0.40  rhf2e2  1 0 1
rchf004 log factor   0.2577937      0.05  0.40  rhf2e2  1 0 1
rchf005 log factor   0.2000000      0.05  0.40  rhf2e2  1 0 1
rchf006 log factor   0.2837856      0.05  0.40  rhf2e2  1 0 1
rchf007 log factor   0.2151657      0.05  0.40  rhf2e2  1 0 1
rchf008 log factor   0.2613199      0.05  0.40  rhf2e2  1 0 1
rchf009 log factor   0.2462519      0.05  0.40  rhf2e2  1 0 1
rchf010 log factor   0.1782764      0.05  0.40  rhf2e2  1 0 1
rchf011 log factor   0.1959368      0.05  0.40  rhf2e2  1 0 1
rchf012 log factor   0.3058860      0.05  0.40  rhf2e2  1 0 1
rchf013 log factor   0.1242358      0.05  0.40  rhf2e2  1 0 1
rchf014 log factor   0.1899951      0.05  0.40  rhf2e2  1 0 1
rchf015 log factor   0.1888089      0.05  0.40  rhf2e2  1 0 1
rchf016 log factor   0.2435949      0.05  0.40  rhf2e2  1 0 1
rchf017 log factor   0.2167399      0.05  0.40  rhf2e2  1 0 1
rchf018 log factor   0.2219179      0.05  0.40  rhf2e2  1 0 1
rchf019 log factor   0.1970990      0.05  0.40  rhf2e2  1 0 1
rchf020 log factor   0.2822492      0.05  0.40  rhf2e2  1 0 1
rchf021 log factor   0.2332053      0.05  0.40  rhf2e2  1 0 1
rchf022 log factor   0.2005815      0.05  0.40  rhf2e2  1 0 1
rchf023 log factor   0.2034245      0.05  0.40  rhf2e2  1 0 1
rchf024 log factor   0.2429837      0.05  0.40  rhf2e2  1 0 1
rchf025 log factor   0.1916557      0.05  0.40  rhf2e2  1 0 1
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rchf026 log factor   0.2274084      0.05  0.40  rhf2e2  1 0 1
rchf027 log factor   0.2143236      0.05  0.40  rhf2e2  1 0 1
rchf028 log factor   0.2215992      0.05  0.40  rhf2e2  1 0 1
rchf029 log factor   0.3107141      0.05  0.40  rhf2e2  1 0 1
rchf030 log factor   0.2918175      0.05  0.40  rhf2e2  1 0 1
rchf031 log factor   0.1874318      0.05  0.40  rhf2e2  1 0 1
rchf032 log factor   0.2230773      0.05  0.40  rhf2e2  1 0 1
rchf033 log factor   0.1816344      0.05  0.40  rhf2e2  1 0 1
rchf034 log factor   0.3062708      0.05  0.40  rhf2e2  1 0 1
rchf035 log factor   0.1456768      0.05  0.40  rhf2e2  1 0 1
rchf036 log factor   0.1956050      0.05  0.40  rhf2e2  1 0 1
rchf037 log factor   0.1620516      0.05  0.40  rhf2e2  1 0 1
rchf038 log factor   0.1994757      0.05  0.40  rhf2e2  1 0 1
rchf039 log factor   0.1747989      0.05  0.40  rhf2e2  1 0 1
rchf040 log factor   0.2608634      0.05  0.40  rhf2e2  1 0 1
rchf041 log factor   0.2155182      0.05  0.40  rhf2e2  1 0 1
rchf042 log factor   0.1693902      0.05  0.40  rhf2e2  1 0 1
rchf043 log factor   0.2355858      0.05  0.40  rhf2e2  1 0 1
rchf044 log factor   0.1708826      0.05  0.40  rhf2e2  1 0 1
rchf045 log factor   0.2346471      0.05  0.40  rhf2e2  1 0 1
rchf046 log factor   0.2545639      0.05  0.40  rhf2e2  1 0 1
rchf047 log factor   0.1519871      0.05  0.40  rhf2e2  1 0 1
rchf048 log factor   0.2373336      0.05  0.40  rhf2e2  1 0 1
rchf049 log factor   0.2145003      0.05  0.40  rhf2e2  1 0 1
rchf050 log factor   0.2341831      0.05  0.40  rhf2e2  1 0 1
rchf051 log factor   0.1513532      0.05  0.40  rhf2e2  1 0 1
rchf052 log factor   0.2049692      0.05  0.40  rhf2e2  1 0 1
rchf053 log factor   0.1906225      0.05  0.40  rhf2e2  1 0 1
rchf054 log factor   0.2983558      0.05  0.40  rhf2e2  1 0 1
rchf055 log factor   0.2417124      0.05  0.40  rhf2e2  1 0 1
rchf056 log factor   0.2979400      0.05  0.40  rhf2e2  1 0 1
rchf057 log factor   0.3181776      0.05  0.40  rhf2e2  1 0 1
rchf058 log factor   0.1867340      0.05  0.40  rhf2e2  1 0 1
rchf059 log factor   0.1734438      0.05  0.40  rhf2e2  1 0 1
rchf060 log factor   0.3732833      0.05  0.40  rhf2e2  1 0 1
rchf061 log factor   0.2986939      0.05  0.40  rhf2e2  1 0 1
rchf062 log factor   0.2219934      0.05  0.40  rhf2e2  1 0 1
rchf063 log factor   0.1906278      0.05  0.40  rhf2e2  1 0 1
rchf064 log factor   0.1603267      0.05  0.40  rhf2e2  1 0 1
rchf065 log factor   0.1882207      0.05  0.40  rhf2e2  1 0 1
rchf066 log factor   0.1735379      0.05  0.40  rhf2e2  1 0 1
rchf067 log factor   0.2581370      0.05  0.40  rhf2e2  1 0 1
rchf068 log factor   0.1145876      0.05  0.40  rhf2e2  1 0 1
rchf069 log factor   0.2306914      0.05  0.40  rhf2e2  1 0 1
rchf070 log factor   0.2519230      0.05  0.40  rhf2e2  1 0 1
rchf071 log factor   0.2643835      0.05  0.40  rhf2e2  1 0 1
rchf072 log factor   0.1993657      0.05  0.40  rhf2e2  1 0 1
```



```
rchf073 log factor   0.1815244      0.05  0.40  rhf2e2  1 0 1
rchf074 log factor   0.2276165      0.05  0.40  rhf2e2  1 0 1
rchf075 log factor   0.2632549      0.05  0.40  rhf2e2  1 0 1
rchf076 log factor   0.2091510      0.05  0.40  rhf2e2  1 0 1
rchf077 log factor   0.2243380      0.05  0.40  rhf2e2  1 0 1
rchf078 log factor   5.0000000E-02  0.05  0.40  rhf2e2  1 0 1
rchf079 log factor   9.6057116E-02  0.05  0.40  rhf2e2  1 0 1
rchf080 log factor   0.1467386      0.05  0.40  rhf2e2  1 0 1
rchf081 log factor   0.1621694      0.05  0.40  rhf2e2  1 0 1
rchf082 log factor   0.1829054      0.05  0.40  rhf2e2  1 0 1
rchf083 log factor   0.1268984      0.05  0.40  rhf2e2  1 0 1
rchf084 log factor   0.1744695      0.05  0.40  rhf2e2  1 0 1
rchf085 log factor   0.1450679      0.05  0.40  rhf2e2  1 0 1
rchf086 log factor   0.2047794      0.05  0.40  rhf2e2  1 0 1
rchf087 log factor   0.2296925      0.05  0.40  rhf2e2  1 0 1
rchf088 log factor   0.1767168      0.05  0.40  rhf2e2  1 0 1
rchf089 log factor   0.1859300      0.05  0.40  rhf2e2  1 0 1
rchf090 log factor   0.4000000      0.05  0.40  rhf2e2  1 0 1
rchf091 log factor   0.2898163      0.05  0.40  rhf2e2  1 0 1
rchf092 log factor   0.3158960      0.05  0.40  rhf2e2  1 0 1
rchf093 log factor   0.1493422      0.05  0.40  rhf2e2  1 0 1
rchf094 log factor   0.1482471      0.05  0.40  rhf2e2  1 0 1
rchf095 log factor   0.1872064      0.05  0.40  rhf2e2  1 0 1
rchf096 log factor   0.2284830      0.05  0.40  rhf2e2  1 0 1
rchf097 log factor   0.1525300      0.05  0.40  rhf2e2  1 0 1
rchf098 log factor   8.3050652E-02  0.05  0.40  rhf2e2  1 0 1
rchf099 log factor   9.6145960E-02  0.05  0.40  rhf2e2  1 0 1
rchf100 log factor   0.1731818      0.05  0.40  rhf2e2  1 0 1
rchf101 log factor   8.6406391E-02  0.05  0.40  rhf2e2  1 0 1
rchf102 log factor   5.0000000E-02  0.05  0.40  rhf2e2  1 0 1
rchf103 log factor   5.9487037E-02  0.05  0.40  rhf2e2  1 0 1
rchf104 log factor   0.1700090      0.05  0.40  rhf2e2  1 0 1
rchf105 log factor   0.2434235      0.05  0.40  rhf2e2  1 0 1
rchf106 log factor   0.2860403      0.05  0.40  rhf2e2  1 0 1
rchf107 log factor   0.4000000      0.05  0.40  rhf2e2  1 0 1
rchf108 log factor   0.4000000      0.05  0.40  rhf2e2  1 0 1
rchf109 log factor   0.3301195      0.05  0.40  rhf2e2  1 0 1
rchf110 log factor   0.1653735      0.05  0.40  rhf2e2  1 0 1
rchf111 log factor   0.1222367      0.05  0.40  rhf2e2  1 0 1
rchf112 log factor   0.1700309      0.05  0.40  rhf2e2  1 0 1
rchf113 log factor   0.2008688      0.05  0.40  rhf2e2  1 0 1
rchf114 log factor   9.7463792E-02  0.05  0.40  rhf2e2  1 0 1
rchf115 log factor   0.2408855      0.05  0.40  rhf2e2  1 0 1
rchf116 log factor   0.1645391      0.05  0.40  rhf2e2  1 0 1
rchf117 log factor   0.2359561      0.05  0.40  rhf2e2  1 0 1
rchf118 log factor   5.0291457E-02  0.05  0.40  rhf2e2  1 0 1
rchf119 log factor   0.1835158      0.05  0.40  rhf2e2  1 0 1
```



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rchf120 log factor   0.3231507      0.05  0.40  rhf2e2  1 0 1
rchf121 log factor   0.2195499      0.05  0.40  rhf2e2  1 0 1
rchf122 log factor   0.3391344      0.05  0.40  rhf2e2  1 0 1
rchf123 log factor   0.2614254      0.05  0.40  rhf2e2  1 0 1
rchf124 log factor   0.3481424      0.05  0.40  rhf2e2  1 0 1
rchf125 log factor   0.2544845      0.05  0.40  rhf2e2  1 0 1
rchf126 log factor   0.4000000      0.05  0.40  rhf2e2  1 0 1
rchf127 log factor   0.1086907      0.05  0.40  rhf2e2  1 0 1
rchf128 log factor   0.2978874      0.05  0.40  rhf2e2  1 0 1
rchf129 log factor   9.4950265E-02  0.05  0.40  rhf2e2  1 0 1
rchf130 log factor   9.0140464E-02  0.05  0.40  rhf2e2  1 0 1
rchf131 log factor   0.2248066      0.05  0.40  rhf2e2  1 0 1
rchf132 log factor   0.2525968      0.05  0.40  rhf2e2  1 0 1
rchf133 log factor   0.2352981      0.05  0.40  rhf2e2  1 0 1
rchf134 log factor   0.1439034      0.05  0.40  rhf2e2  1 0 1
rchf135 log factor   0.1484769      0.05  0.40  rhf2e2  1 0 1
rchf136 log factor   0.4000000      0.05  0.40  rhf2e2  1 0 1
rchf137 log factor   0.4000000      0.05  0.40  rhf2e2  1 0 1
rchf138 log factor   0.4000000      0.05  0.40  rhf2e2  1 0 1
rchf139 log factor   0.1348547      0.05  0.40  rhf2e2  1 0 1
rchf140 log factor   0.1497856      0.05  0.40  rhf2e2  1 0 1
rchf141 log factor   0.2547045      0.05  0.40  rhf2e2  1 0 1
rchf142 log factor   0.1490217      0.05  0.40  rhf2e2  1 0 1
rchf143 log factor   0.1850144      0.05  0.40  rhf2e2  1 0 1
rchf144 log factor   0.1610810      0.05  0.40  rhf2e2  1 0 1
rchf145 log factor   0.1996983      0.05  0.40  rhf2e2  1 0 1
rchf146 log factor   0.1205478      0.05  0.40  rhf2e2  1 0 1
rchf147 log factor   0.1859638      0.05  0.40  rhf2e2  1 0 1
rchf148 log factor   0.2911731      0.05  0.40  rhf2e2  1 0 1
rchf149 log factor   0.2898964      0.05  0.40  rhf2e2  1 0 1
rchf150 log factor   0.2249696      0.05  0.40  rhf2e2  1 0 1
rchf151 log factor   6.3585319E-02  0.05  0.40  rhf2e2  1 0 1
rchf152 log factor   0.2220519      0.05  0.40  rhf2e2  1 0 1
rchf153 log factor   0.2614798      0.05  0.40  rhf2e2  1 0 1
rchf154 log factor   0.2031081      0.05  0.40  rhf2e2  1 0 1
rchf155 log factor   0.2324301      0.05  0.40  rhf2e2  1 0 1
rchf156 log factor   0.1959561      0.05  0.40  rhf2e2  1 0 1
rchf157 log factor   0.3168454      0.05  0.40  rhf2e2  1 0 1
rchf158 log factor   0.4000000      0.05  0.40  rhf2e2  1 0 1
rchf159 log factor   0.1546202      0.05  0.40  rhf2e2  1 0 1
rchf160 log factor   0.1413283      0.05  0.40  rhf2e2  1 0 1
rchf161 log factor   0.2081745      0.05  0.40  rhf2e2  1 0 1
rchf162 log factor   0.2149100      0.05  0.40  rhf2e2  1 0 1
rchf163 log factor   0.2587187      0.05  0.40  rhf2e2  1 0 1
rchf164 log factor   0.1844901      0.05  0.40  rhf2e2  1 0 1
rchf165 log factor   0.2406664      0.05  0.40  rhf2e2  1 0 1
rchf166 log factor   0.1385246      0.05  0.40  rhf2e2  1 0 1
```



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rchf167 log factor   0.2236317      0.05  0.40  rhf2e2  1 0 1
rchf168 log factor   0.1906449      0.05  0.40  rhf2e2  1 0 1
rche_low  log factor    1.015000      1.005 1.015 rhe1e3  1 0 1
rche_med  log factor    1.015000      1.015 1.030 rhe1e3  1 0 1
rche_hig  log factor    1.030000      1.030 1.050 rhe1e3  1 0 1
rche_oc log factor    1.060000      1.030 1.060 rhe1e3  1 0 1
evtf001 log factor   0.4500950      0.30  0.65  etf2e2  1 0 1
evtf002 log factor   0.4514519      0.30  0.65  etf2e2  1 0 1
evtf003 log factor   0.4512334      0.30  0.65  etf2e2  1 0 1
evtf004 log factor   0.4545477      0.30  0.65  etf2e2  1 0 1
evtf005 log factor   0.4500000      0.30  0.65  etf2e2  1 0 1
evtf006 log factor   0.4499640      0.30  0.65  etf2e2  1 0 1
evtf007 log factor   0.4488211      0.30  0.65  etf2e2  1 0 1
evtf008 log factor   0.4487636      0.30  0.65  etf2e2  1 0 1
evtf009 log factor   0.4496424      0.30  0.65  etf2e2  1 0 1
evtf010 log factor   0.4509475      0.30  0.65  etf2e2  1 0 1
evtf011 log factor   0.4484162      0.30  0.65  etf2e2  1 0 1
evtf012 log factor   0.4239986      0.30  0.65  etf2e2  1 0 1
evtf013 log factor   0.4548744      0.30  0.65  etf2e2  1 0 1
evtf014 log factor   0.4506623      0.30  0.65  etf2e2  1 0 1
evtf015 log factor   0.4540114      0.30  0.65  etf2e2  1 0 1
evtf016 log factor   0.4551627      0.30  0.65  etf2e2  1 0 1
evtf017 log factor   0.4578372      0.30  0.65  etf2e2  1 0 1
evtf018 log factor   0.4445102      0.30  0.65  etf2e2  1 0 1
evtf019 log factor   0.4481756      0.30  0.65  etf2e2  1 0 1
evtf020 log factor   0.4504558      0.30  0.65  etf2e2  1 0 1
evtf021 log factor   0.4428805      0.30  0.65  etf2e2  1 0 1
evtf022 log factor   0.4411681      0.30  0.65  etf2e2  1 0 1
evtf023 log factor   0.4435803      0.30  0.65  etf2e2  1 0 1
evtf024 log factor   0.4508977      0.30  0.65  etf2e2  1 0 1
evtf025 log factor   0.4508526      0.30  0.65  etf2e2  1 0 1
evtf026 log factor   0.4504177      0.30  0.65  etf2e2  1 0 1
evtf027 log factor   0.4513665      0.30  0.65  etf2e2  1 0 1
evtf028 log factor   0.4762021      0.30  0.65  etf2e2  1 0 1
evtf029 log factor   0.4969553      0.30  0.65  etf2e2  1 0 1
evtf030 log factor   0.5260830      0.30  0.65  etf2e2  1 0 1
evtf031 log factor   0.4451735      0.30  0.65  etf2e2  1 0 1
evtf032 log factor   0.4493070      0.30  0.65  etf2e2  1 0 1
evtf033 log factor   0.4469623      0.30  0.65  etf2e2  1 0 1
evtf034 log factor   0.3744167      0.30  0.65  etf2e2  1 0 1
evtf035 log factor   0.4701586      0.30  0.65  etf2e2  1 0 1
evtf036 log factor   0.4527343      0.30  0.65  etf2e2  1 0 1
evtf037 log factor   0.4483235      0.30  0.65  etf2e2  1 0 1
evtf038 log factor   0.4490188      0.30  0.65  etf2e2  1 0 1
evtf039 log factor   0.4498491      0.30  0.65  etf2e2  1 0 1
evtf040 log factor   0.4568920      0.30  0.65  etf2e2  1 0 1
evtf041 log factor   0.3955596      0.30  0.65  etf2e2  1 0 1
```



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evtf042 log factor   0.4265506      0.30  0.65  etf2e2  1 0 1
evtf043 log factor   0.4552375      0.30  0.65  etf2e2  1 0 1
evtf044 log factor   0.5918969      0.30  0.65  etf2e2  1 0 1
evtf045 log factor   0.6500000      0.30  0.65  etf2e2  1 0 1
evtf046 log factor   0.5362565      0.30  0.65  etf2e2  1 0 1
evtf047 log factor   0.4858378      0.30  0.65  etf2e2  1 0 1
evtf048 log factor   0.4499922      0.30  0.65  etf2e2  1 0 1
evtf049 log factor   0.4495622      0.30  0.65  etf2e2  1 0 1
evtf050 log factor   0.4442230      0.30  0.65  etf2e2  1 0 1
evtf051 log factor   0.4497028      0.30  0.65  etf2e2  1 0 1
evtf052 log factor   0.4139327      0.30  0.65  etf2e2  1 0 1
evtf053 log factor   0.4452877      0.30  0.65  etf2e2  1 0 1
evtf054 log factor   0.3581766      0.30  0.65  etf2e2  1 0 1
evtf055 log factor   0.4871210      0.30  0.65  etf2e2  1 0 1
evtf056 log factor   0.5262611      0.30  0.65  etf2e2  1 0 1
evtf057 log factor   0.4370732      0.30  0.65  etf2e2  1 0 1
evtf058 log factor   0.4409426      0.30  0.65  etf2e2  1 0 1
evtf059 log factor   0.4480694      0.30  0.65  etf2e2  1 0 1
evtf060 log factor   0.3673936      0.30  0.65  etf2e2  1 0 1
evtf061 log factor   0.3553466      0.30  0.65  etf2e2  1 0 1
evtf062 log factor   0.4190567      0.30  0.65  etf2e2  1 0 1
evtf063 log factor   0.3940157      0.30  0.65  etf2e2  1 0 1
evtf064 log factor   0.4676591      0.30  0.65  etf2e2  1 0 1
evtf065 log factor   0.3500071      0.30  0.65  etf2e2  1 0 1
evtf066 log factor   0.5020505      0.30  0.65  etf2e2  1 0 1
evtf067 log factor   0.4645296      0.30  0.65  etf2e2  1 0 1
evtf068 log factor   0.4453584      0.30  0.65  etf2e2  1 0 1
evtf069 log factor   0.4501010      0.30  0.65  etf2e2  1 0 1
evtf070 log factor   0.4434379      0.30  0.65  etf2e2  1 0 1
evtf071 log factor   0.4715844      0.30  0.65  etf2e2  1 0 1
evtf072 log factor   0.4508555      0.30  0.65  etf2e2  1 0 1
evtf073 log factor   0.4542935      0.30  0.65  etf2e2  1 0 1
evtf074 log factor   0.4396089      0.30  0.65  etf2e2  1 0 1
evtf075 log factor   0.4453260      0.30  0.65  etf2e2  1 0 1
evtf076 log factor   0.4648577      0.30  0.65  etf2e2  1 0 1
evtf077 log factor   0.4283611      0.30  0.65  etf2e2  1 0 1
evtf078 log factor   0.6500000      0.30  0.65  etf2e2  1 0 1
evtf079 log factor   0.4900268      0.30  0.65  etf2e2  1 0 1
evtf080 log factor   0.4410907      0.30  0.65  etf2e2  1 0 1
evtf081 log factor   0.4642795      0.30  0.65  etf2e2  1 0 1
evtf082 log factor   0.3983304      0.30  0.65  etf2e2  1 0 1
evtf083 log factor   0.5469054      0.30  0.65  etf2e2  1 0 1
evtf084 log factor   0.4356031      0.30  0.65  etf2e2  1 0 1
evtf085 log factor   0.4388365      0.30  0.65  etf2e2  1 0 1
evtf086 log factor   0.4494651      0.30  0.65  etf2e2  1 0 1
evtf087 log factor   0.4501433      0.30  0.65  etf2e2  1 0 1
evtf088 log factor   0.4516376      0.30  0.65  etf2e2  1 0 1
```



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evtf089 log factor   0.4787927      0.30  0.65  etf2e2  1 0 1
evtf090 log factor   0.3394098      0.30  0.65  etf2e2  1 0 1
evtf091 log factor   0.4683172      0.30  0.65  etf2e2  1 0 1
evtf092 log factor   0.3731769      0.30  0.65  etf2e2  1 0 1
evtf093 log factor   0.5229036      0.30  0.65  etf2e2  1 0 1
evtf094 log factor   0.4617442      0.30  0.65  etf2e2  1 0 1
evtf095 log factor   0.5630109      0.30  0.65  etf2e2  1 0 1
evtf096 log factor   0.4355428      0.30  0.65  etf2e2  1 0 1
evtf097 log factor   0.4681626      0.30  0.65  etf2e2  1 0 1
evtf098 log factor   0.5666955      0.30  0.65  etf2e2  1 0 1
evtf099 log factor   0.4832760      0.30  0.65  etf2e2  1 0 1
evtf100 log factor   0.4511647      0.30  0.65  etf2e2  1 0 1
evtf101 log factor   0.4679443      0.30  0.65  etf2e2  1 0 1
evtf102 log factor   0.4368225      0.30  0.65  etf2e2  1 0 1
evtf103 log factor   0.4877536      0.30  0.65  etf2e2  1 0 1
evtf104 log factor   0.4506902      0.30  0.65  etf2e2  1 0 1
evtf105 log factor   0.4463233      0.30  0.65  etf2e2  1 0 1
evtf106 log factor   0.4036811      0.30  0.65  etf2e2  1 0 1
evtf107 log factor   0.4382994      0.30  0.65  etf2e2  1 0 1
evtf108 log factor   0.4040058      0.30  0.65  etf2e2  1 0 1
evtf109 log factor   0.3282049      0.30  0.65  etf2e2  1 0 1
evtf110 log factor   0.3923768      0.30  0.65  etf2e2  1 0 1
evtf111 log factor   0.4531627      0.30  0.65  etf2e2  1 0 1
evtf112 log factor   0.4391892      0.30  0.65  etf2e2  1 0 1
evtf113 log factor   0.4562085      0.30  0.65  etf2e2  1 0 1
evtf114 log factor   0.4496822      0.30  0.65  etf2e2  1 0 1
evtf115 log factor   0.4321643      0.30  0.65  etf2e2  1 0 1
evtf116 log factor   0.4332352      0.30  0.65  etf2e2  1 0 1
evtf117 log factor   0.4555627      0.30  0.65  etf2e2  1 0 1
evtf118 log factor   0.4824071      0.30  0.65  etf2e2  1 0 1
evtf119 log factor   0.4231545      0.30  0.65  etf2e2  1 0 1
evtf120 log factor   0.4154987      0.30  0.65  etf2e2  1 0 1
evtf121 log factor   0.3897964      0.30  0.65  etf2e2  1 0 1
evtf122 log factor   0.4405030      0.30  0.65  etf2e2  1 0 1
evtf123 log factor   0.3482243      0.30  0.65  etf2e2  1 0 1
evtf124 log factor   0.4364062      0.30  0.65  etf2e2  1 0 1
evtf125 log factor   0.4362037      0.30  0.65  etf2e2  1 0 1
evtf126 log factor   0.4830379      0.30  0.65  etf2e2  1 0 1
evtf127 log factor   0.5695028      0.30  0.65  etf2e2  1 0 1
evtf128 log factor   0.4477345      0.30  0.65  etf2e2  1 0 1
evtf129 log factor   0.6168244      0.30  0.65  etf2e2  1 0 1
evtf130 log factor   0.4977389      0.30  0.65  etf2e2  1 0 1
evtf131 log factor   0.4506590      0.30  0.65  etf2e2  1 0 1
evtf132 log factor   0.4279108      0.30  0.65  etf2e2  1 0 1
evtf133 log factor   0.4163966      0.30  0.65  etf2e2  1 0 1
evtf134 log factor   0.4565287      0.30  0.65  etf2e2  1 0 1
evtf135 log factor   0.4295032      0.30  0.65  etf2e2  1 0 1
```



```
evtf136 log factor   0.3000000      0.30  0.65  etf2e2  1 0 1
evtf137 log factor   0.3705532      0.30  0.65  etf2e2  1 0 1
evtf138 log factor   0.4694004      0.30  0.65  etf2e2  1 0 1
evtf139 log factor   0.4062945      0.30  0.65  etf2e2  1 0 1
evtf140 log factor   0.5123156      0.30  0.65  etf2e2  1 0 1
evtf141 log factor   0.4077552      0.30  0.65  etf2e2  1 0 1
evtf142 log factor   0.3382583      0.30  0.65  etf2e2  1 0 1
evtf143 log factor   0.4148983      0.30  0.65  etf2e2  1 0 1
evtf144 log factor   0.3854662      0.30  0.65  etf2e2  1 0 1
evtf145 log factor   0.4490701      0.30  0.65  etf2e2  1 0 1
evtf146 log factor   0.4024776      0.30  0.65  etf2e2  1 0 1
evtf147 log factor   0.3864306      0.30  0.65  etf2e2  1 0 1
evtf148 log factor   0.4516954      0.30  0.65  etf2e2  1 0 1
evtf149 log factor   0.4671690      0.30  0.65  etf2e2  1 0 1
evtf150 log factor   0.5101175      0.30  0.65  etf2e2  1 0 1
evtf151 log factor   0.4185975      0.30  0.65  etf2e2  1 0 1
evtf152 log factor   0.5050230      0.30  0.65  etf2e2  1 0 1
evtf153 log factor   0.3377705      0.30  0.65  etf2e2  1 0 1
evtf154 log factor   0.4087106      0.30  0.65  etf2e2  1 0 1
evtf155 log factor   0.4147870      0.30  0.65  etf2e2  1 0 1
evtf156 log factor   0.4291413      0.30  0.65  etf2e2  1 0 1
evtf157 log factor   0.3096116      0.30  0.65  etf2e2  1 0 1
evtf158 log factor   0.4104130      0.30  0.65  etf2e2  1 0 1
evtf159 log factor   0.3934389      0.30  0.65  etf2e2  1 0 1
evtf160 log factor   0.4645394      0.30  0.65  etf2e2  1 0 1
evtf161 log factor   0.4118791      0.30  0.65  etf2e2  1 0 1
evtf162 log factor   0.4568432      0.30  0.65  etf2e2  1 0 1
evtf163 log factor   0.4689684      0.30  0.65  etf2e2  1 0 1
evtf164 log factor   0.4505119      0.30  0.65  etf2e2  1 0 1
evtf165 log factor   0.4835567      0.30  0.65  etf2e2  1 0 1
evtf166 log factor   0.3922154      0.30  0.65  etf2e2  1 0 1
evtf167 log factor   0.4063088      0.30  0.65  etf2e2  1 0 1
evtf168 log factor   0.4459763      0.30  0.65  etf2e2  1 0 1
ed001 log factor    1.500000      0.5 3 ed_3e2  1 0 1
ed002 log factor    1.502423      0.5 3 ed_3e2  1 0 1
ed003 log factor    1.493826      0.5 3 ed_3e2  1 0 1
ed004 log factor    1.502170      0.5 3 ed_3e2  1 0 1
ed005 log factor    1.489137      0.5 3 ed_3e2  1 0 1
ed006 log factor    1.488493      0.5 3 ed_3e2  1 0 1
ed007 log factor    1.523728      0.5 3 ed_3e2  1 0 1
ed008 log factor    1.505637      0.5 3 ed_3e2  1 0 1
ed009 log factor    1.491460      0.5 3 ed_3e2  1 0 1
ed010 log factor    1.498320      0.5 3 ed_3e2  1 0 1
ed011 log factor    1.497950      0.5 3 ed_3e2  1 0 1
ed012 log factor    1.499718      0.5 3 ed_3e2  1 0 1
ed013 log factor    1.507430      0.5 3 ed_3e2  1 0 1
ed014 log factor    1.556105      0.5 3 ed_3e2  1 0 1
```



```
ed015 log factor    1.516478      0.5 3 ed_3e2  1 0 1
ed016 log factor    1.523583      0.5 3 ed_3e2  1 0 1
ed017 log factor    1.494060      0.5 3 ed_3e2  1 0 1
ed018 log factor    1.480665      0.5 3 ed_3e2  1 0 1
ed019 log factor    1.484539      0.5 3 ed_3e2  1 0 1
ed020 log factor    1.477615      0.5 3 ed_3e2  1 0 1
ed021 log factor    1.500937      0.5 3 ed_3e2  1 0 1
ed022 log factor    1.484417      0.5 3 ed_3e2  1 0 1
ed023 log factor    1.615636      0.5 3 ed_3e2  1 0 1
ed024 log factor    1.494604      0.5 3 ed_3e2  1 0 1
ed025 log factor    1.238353      0.5 3 ed_3e2  1 0 1
ed026 log factor    1.497387      0.5 3 ed_3e2  1 0 1
ed027 log factor    1.503877      0.5 3 ed_3e2  1 0 1
ed028 log factor    1.531932      0.5 3 ed_3e2  1 0 1
ed029 log factor    1.575912      0.5 3 ed_3e2  1 0 1
ed030 log factor    1.495268      0.5 3 ed_3e2  1 0 1
ed031 log factor    1.494261      0.5 3 ed_3e2  1 0 1
ed032 log factor    1.517620      0.5 3 ed_3e2  1 0 1
ed033 log factor    1.483919      0.5 3 ed_3e2  1 0 1
ed034 log factor    1.503011      0.5 3 ed_3e2  1 0 1
ed035 log factor    1.490254      0.5 3 ed_3e2  1 0 1
ed036 log factor    1.511634      0.5 3 ed_3e2  1 0 1
ed037 log factor    1.508548      0.5 3 ed_3e2  1 0 1
ed038 log factor    1.544393      0.5 3 ed_3e2  1 0 1
ed039 log factor    1.489109      0.5 3 ed_3e2  1 0 1
ed040 log factor    1.431810      0.5 3 ed_3e2  1 0 1
ed041 log factor    1.430082      0.5 3 ed_3e2  1 0 1
ed042 log factor    1.515514      0.5 3 ed_3e2  1 0 1
ed043 log factor    1.503552      0.5 3 ed_3e2  1 0 1
ed044 log factor    1.433422      0.5 3 ed_3e2  1 0 1
ed045 log factor    1.307995      0.5 3 ed_3e2  1 0 1
ed046 log factor    1.381277      0.5 3 ed_3e2  1 0 1
ed047 log factor    1.174207      0.5 3 ed_3e2  1 0 1
ed048 log factor    1.393925      0.5 3 ed_3e2  1 0 1
ed049 log factor    1.864817      0.5 3 ed_3e2  1 0 1
ed050 log factor    1.620241      0.5 3 ed_3e2  1 0 1
ed051 log factor    1.489434      0.5 3 ed_3e2  1 0 1
ed052 log factor    1.813032      0.5 3 ed_3e2  1 0 1
ed053 log factor    2.066419      0.5 3 ed_3e2  1 0 1
ed054 log factor    1.717773      0.5 3 ed_3e2  1 0 1
ed055 log factor   0.9465092      0.5 3 ed_3e2  1 0 1
ed056 log factor    1.185162      0.5 3 ed_3e2  1 0 1
ed057 log factor    1.578995      0.5 3 ed_3e2  1 0 1
ed058 log factor    1.362435      0.5 3 ed_3e2  1 0 1
ed059 log factor    1.470829      0.5 3 ed_3e2  1 0 1
ed060 log factor    1.444082      0.5 3 ed_3e2  1 0 1
ed061 log factor    1.472961      0.5 3 ed_3e2  1 0 1
```



```
ed062 log factor    1.470972      0.5 3 ed_3e2  1 0 1
ed063 log factor    1.511860      0.5 3 ed_3e2  1 0 1
ed064 log factor    1.446434      0.5 3 ed_3e2  1 0 1
ed065 log factor    1.329016      0.5 3 ed_3e2  1 0 1
ed066 log factor    2.294811      0.5 3 ed_3e2  1 0 1
ed067 log factor    1.873484      0.5 3 ed_3e2  1 0 1
ed068 log factor    1.774719      0.5 3 ed_3e2  1 0 1
ed069 log factor    3.000000      0.5 3 ed_3e2  1 0 1
ed070 log factor    1.696652      0.5 3 ed_3e2  1 0 1
ed071 log factor    1.783131      0.5 3 ed_3e2  1 0 1
ed072 log factor    1.595762      0.5 3 ed_3e2  1 0 1
ed073 log factor    1.529129      0.5 3 ed_3e2  1 0 1
ed074 log factor    1.520808      0.5 3 ed_3e2  1 0 1
ed075 log factor    1.463562      0.5 3 ed_3e2  1 0 1
ed076 log factor    1.363103      0.5 3 ed_3e2  1 0 1
ed077 log factor    1.473090      0.5 3 ed_3e2  1 0 1
ed078 log factor    1.978696      0.5 3 ed_3e2  1 0 1
ed079 log factor    1.496125      0.5 3 ed_3e2  1 0 1
ed080 log factor    1.751822      0.5 3 ed_3e2  1 0 1
ed081 log factor    2.992780      0.5 3 ed_3e2  1 0 1
ed082 log factor    2.475636      0.5 3 ed_3e2  1 0 1
ed083 log factor    2.175892      0.5 3 ed_3e2  1 0 1
ed084 log factor    1.738240      0.5 3 ed_3e2  1 0 1
ed085 log factor    1.863683      0.5 3 ed_3e2  1 0 1
ed086 log factor    1.757314      0.5 3 ed_3e2  1 0 1
ed087 log factor    1.505138      0.5 3 ed_3e2  1 0 1
ed088 log factor    1.536584      0.5 3 ed_3e2  1 0 1
ed089 log factor    1.553400      0.5 3 ed_3e2  1 0 1
ed090 log factor    1.525716      0.5 3 ed_3e2  1 0 1
ed091 log factor    1.621743      0.5 3 ed_3e2  1 0 1
ed092 log factor    1.521960      0.5 3 ed_3e2  1 0 1
ed093 log factor    1.628196      0.5 3 ed_3e2  1 0 1
ed094 log factor    1.512642      0.5 3 ed_3e2  1 0 1
ed095 log factor    1.478533      0.5 3 ed_3e2  1 0 1
ed096 log factor    1.492914      0.5 3 ed_3e2  1 0 1
ed097 log factor    1.477907      0.5 3 ed_3e2  1 0 1
ed098 log factor    1.481940      0.5 3 ed_3e2  1 0 1
riv11 log factor   9.9975068E-08  1e-08 1e-05 riv5e2  1 0 1
riv12 log factor   3.0034071E-07  1e-08 1e-05 riv5e2  1 0 1
riv13 log factor   6.0054006E-07  1e-08 1e-05 riv5e2  1 0 1
riv14 log factor   9.0268031E-07  1e-08 1e-05 riv5e2  1 0 1
riv21 log factor   1.9991553E-07  1e-08 1e-05 riv5e2  1 0 1
ghbc17 log  factor    5.176997      0.01  10.0  ghb1e2  1 0 1
ghbc21 log  factor    1.646962      0.02  20.0  ghb1e2  1 0 1
ghbc27 log  factor    28.78134      1.7 170.5 ghb1e2  1 0 1
ghbh17 log  factor    8.148550      5 35  ghb1e2  1 -20 1
ghbh21 log  factor    13.16156      5 35  ghb1e2  1 -20 1
```



```
ghbh27 log  factor    11.06891      5 35  ghb1e2  1 -20 1
ghbh1701 log  factor    12.19203      5 15  ghb1e2  1 -10 1
ghbh1702 log  factor    12.04203      5 15  ghb1e2  1 -10 1
ghbh1703 log  factor    12.24696      5 15  ghb1e2  1 -10 1
ghbh1704 log  factor    10.23571      5 15  ghb1e2  1 -10 1
ghbc1701 log  factor    1.319110      0.3 1.7 ghb1e2  1 0 1
ghbc1702 log  factor    1.061580      0.3 1.7 ghb1e2  1 0 1
ghbc1703 log  factor    1.006017      0.3 1.7 ghb1e2  1 0 1
ghbc1704 log  factor    1.255723      0.3 1.7 ghb1e2  1 0 1
ghbh2101 log  factor    8.759915      5 15  ghb1e2  1 -10 1
ghbh2102 log  factor    9.399476      5 15  ghb1e2  1 -10 1
ghbh2103 log  factor    11.01007      5 15  ghb1e2  1 -10 1
ghbh2104 log  factor    7.501135      5 15  ghb1e2  1 -10 1
ghbh2105 log  factor    11.73580      5 15  ghb1e2  1 -10 1
ghbh2106 log  factor    6.489142      5 15  ghb1e2  1 -10 1
ghbc2101 log  factor   0.9480154      0.3 1.7 ghb1e2  1 0 1
ghbc2102 log  factor    1.162984      0.3 1.7 ghb1e2  1 0 1
ghbc2103 log  factor    1.192898      0.3 1.7 ghb1e2  1 0 1
ghbc2104 log  factor    1.246393      0.3 1.7 ghb1e2  1 0 1
ghbc2105 log  factor   0.8558279      0.3 1.7 ghb1e2  1 0 1
ghbc2106 log  factor   0.8730640      0.3 1.7 ghb1e2  1 0 1
ghbh2701 log  factor    9.314991      5 15  ghb1e2  1 -10 1
ghbh2702 log  factor    10.15492      5 15  ghb1e2  1 -10 1
ghbh2703 log  factor    9.432304      5 15  ghb1e2  1 -10 1
ghbh2704 log  factor    9.168812      5 15  ghb1e2  1 -10 1
ghbh2705 log  factor    12.24245      5 15  ghb1e2  1 -10 1
ghbh2706 log  factor    6.724937      5 15  ghb1e2  1 -10 1
ghbc2701 log  factor    1.083011      0.3 1.7 ghb1e2  1 0 1
ghbc2702 log  factor    1.207821      0.3 1.7 ghb1e2  1 0 1
ghbc2703 log  factor    1.002321      0.3 1.7 ghb1e2  1 0 1
ghbc2704 log  factor    1.537428      0.3 1.7 ghb1e2  1 0 1
ghbc2705 log  factor    1.065616      0.3 1.7 ghb1e2  1 0 1
ghbc2706 log  factor   0.8432898      0.3 1.7 ghb1e2  1 0 1
tvm_mth4  log factor   0.8500000      0.85  0.95  tvm5e3  1 0 1
tvm_kmax03 log factor   6.8397628E-06  8e-07  5e-05 tvm5e2  1 0 1
tvm_kmax02 log factor   4.5926588E-05  1e-05  1e-04 tvm5e2  1 0 1
tvm_kmax01 log factor   4.7644526E-04  1e-04  8e-04 tvm5e2  1 0 1
tvm_basek log factor   1.000E-09  5e-10  5e-09 tvm1e2  1 0 1
tvm_fillkh log factor   5.6767085E-05  5e-06 5e-04 tvm5e3 1 0 1
tvm_fillkv log factor   1.9250249E-05  2e-06 2e-04 tvm5e3 1 0 1
tvm_mods_01 log factor    1.002500      1.0025 1.10 tvm2e3 1 0  1
tvm_mods_21 log factor    1.250000      1.035 1.25 tvm2e3 1 0 1
tvm_mod3161 log factor   0.6000000      0.60 0.80 tvm1e2 1 0  1
tvm_mod2131 log factor   0.1168473      0.10 0.30 tvm1e2 1 0  1
tvm_ref21 log factor   0.1087603      0.05 0.15 tvm5e3  1 0 1
tvm_ref31 log factor   0.6500000      0.30 0.65 tvm1e2  1 0 1
tvm_ref61 log factor   0.9000000      0.60 0.90 tvm1e2  1 0 1
```

```
tvm_sc_lin log factor   0.5000000      0.50 1.20 tvm1e2 1 0 1
tvm_sc_ext log factor    1.194425      0.30 1.70 tvm1e2 1 0 1
tvm_sc_linmx log factor   0.5000000      0.50 1.00 tvm1e2 1 0 1
tvm01_kh10  log factor    4.333337      1.1 5 tvm1e2  1 0 1
tvm01_kh11  log factor    41.32560      10  150 tvm5e2  1 0 1
tvm01_kv10  log factor    1.100000      1.1 7.5 tvm2e2  1 0 1
tvm01_kv11  log factor    43.26268      10  150 tvm5e2  1 0 1
tvm11_kh10  log factor    1.895076      1 2 tvm5e3 1  0 1
tvm11_kh11  log factor    1.468292      1.04  7.5 tvm1e2 1  0 1
tvm11_kv10  log factor    1.731971      1 3 tvm5e3  1 0 1
tvm11_kv11  log factor    3.967622      1.1 7.5 tvm1e2  1 0 1
tvm61_kh01  log factor    1.600448      1.2 2.2 tvm5e3  1 0 1
tvm61_kh02  log factor    1.900000      1.2 1.9 tvm5e3  1 0 1
tvm61_kh03  log factor    2.500000      1.5 2.5 tvm5e3  1 0 1
tvm61_kh04  log factor    1.800000      1.2 1.8 tvm5e3  1 0 1
tvm61_kh05  fixed factor    2.000000      1.8 2.2 tvm5e3  1 0 1
tvm61_kh06  log factor    1.200000      1.2 1.4 tvm5e3  1 0 1
tvm61_kh07  log factor    1.411734      1.2 2.2 tvm5e3  1 0 1
tvm61_kh08  fixed factor    1.300000      1.1 1.5 tvm5e3  1 0 1
tvm61_kh09  log factor    1.700000      1.2 1.7 tvm5e3  1 0 1
tvm61_kh10  log factor    2.300000      1.2 2.3 tvm5e3  1 0 1
tvm61_kh11  log factor    90.00000      90  500 tvm1e2  1 0 1
tvm61_kh13  log factor    2.000000      1.2 2 tvm5e3  1 0 1
tvm61_kv01  log factor    2.167938      1.4 2.5 tvm5e3  1 0 1
tvm61_kv02  log factor    1.300000      1.3 2.2 tvm5e3  1 0 1
tvm61_kv03  log factor    1.200000      1.2 2.1 tvm5e3  1 0 1
tvm61_kv04  log factor    1.200000      1.2 1.6 tvm5e3  1 0 1
tvm61_kv05  fixed factor    2.000000      1.8 2.2 tvm5e3  1 0 1
tvm61_kv06  log factor    1.200000      1.2 1.5 tvm5e3  1 0 1
tvm61_kv07  log factor    1.307147      1.2 3.0 tvm5e3  1 0 1
tvm61_kv08  fixed factor    1.300000      1.1 1.5 tvm5e3  1 0 1
tvm61_kv09  log factor    1.200000      1.2 1.7 tvm5e3  1 0 1
tvm61_kv10  log factor    2.500000      1.3 2.5 tvm5e3  1 0 1
tvm61_kv11  log factor    1000.000      200 1000  tvm1e2  1 0 1
tvm61_kv13  log factor    2.000000      1.2 2.0 tvm5e3  1 0 1
tvm01_sy10 log factor    1.001000      1.001 1.006 tvm1e4 1 0 1
tvm01_sy11 log factor    1.150000      1.02 1.15 tvm1e3 1 0 1
tvm11_sy10 log factor    1.000200      1.0002 1.002 tvm1e4 1 0 1
tvm11_sy11 log factor    1.001000      1.001 1.006 tvm1e4 1 0 1
tvm61_sy10 log factor    1.010000      1.003 1.010 tvm1e4 1 0 1
tvm61_sy11 log factor    1.070000      1.02 1.07 tvm1e3 1 0 1
tvm61_sy13 log factor    1.000700      1.0002 1.0007 tvm1e4 1 0 1
tvm_syfact log factor   0.4000000      0.40 0.60 tvm1e2 1 0 1
tam3_001  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_002  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_003  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_004  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
```



```
tam3_005  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_006  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_007  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_008  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_009  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_010  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_011  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_012  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_013  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_014  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_015  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_016  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_017  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_018  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_019  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_020  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_021  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_022  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_023  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_024  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_025  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_026  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_027  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_028  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_029  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_030  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_031  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_032  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_033  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_034  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_035  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_036  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_037  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_038  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_039  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_040  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_041  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_042  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_043  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_044  log factor    2.135000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_045  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_046  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_047  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_048  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_049  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_050  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_051  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
```



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tam3_052  log factor    2.135000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_053  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_054  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_055  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_056  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_057  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_058  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_059  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_060  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_061  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_062  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_063  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_064  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_067  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_069  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_071  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_072  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_073  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_074  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_075  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_077  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_078  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_082  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_084  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_086  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_087  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_088  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_089  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_090  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_091  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_092  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_093  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_095  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_096  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_097  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_098  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
```



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tam3_099  log factor    2.135000   2.11000  2.16000 3at5e4  1.00  0.00  1
tam3_100  log factor    2.135000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_101  log factor    2.135000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_104  log factor    2.135000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_105  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_109  log factor    2.135000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_110  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_111  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_112  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_113  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_114  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_115  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_116  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_117  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_120  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_122  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_127  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_132  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_133  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_134  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_139  log factor    2.135000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_145  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_149  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_153  log factor    2.135000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_157  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_158  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_159  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_160  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_161  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_162  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_163  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_164  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_165  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_167  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_168  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_169  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_171  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_172  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_173  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_174  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_176  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_177  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_178  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_179  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_180  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_181  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_182  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_183  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_184  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_185  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_186  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_187  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_189  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_190  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_191  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_192  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_193  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_195  log factor    2.135000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_197  log factor    2.135000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_198  log factor    2.135000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_199  log factor    2.135000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_200  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_201  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_202  log factor    2.135000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_203  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_204  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_205  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
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tam3_207  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_208  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_209  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_210  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_211  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_212  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_213  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_214  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_215  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_216  log factor    2.135000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_217  log factor    2.135000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_218  log factor    2.135000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_219  log factor    2.135000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_220  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_221  log factor    2.135000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_222  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_223  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_224  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_225  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_226  log factor    2.135000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_227  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_228  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_229  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_230  log factor    2.160000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_231  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_232  log factor    2.110000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_233  log factor    2.135000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_234  log factor    2.135000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam3_235  log factor    2.135000   2.11000  2.16000 ta35e4  1.00  0.00  1
tam5_001  log factor    200.0000   169.000  237.000 5at5e3  1.00  0.00  1
tam5_002  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_003  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_004  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
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tam5_005  log factor    202.9159   169.000  237.000 ta55e3  1.00  0.00  1
tam5_006  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_007  log factor    202.1000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_008  log factor    205.1063   169.000  237.000 ta55e3  1.00  0.00  1
tam5_009  log factor    202.4719   169.000  237.000 ta55e3  1.00  0.00  1
tam5_010  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_011  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_012  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_013  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_014  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_015  log factor    198.6756   169.000  237.000 ta55e3  1.00  0.00  1
tam5_016  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_017  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_018  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_019  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_020  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_021  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_022  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_023  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_024  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_025  log factor    201.5389   169.000  237.000 ta55e3  1.00  0.00  1
tam5_026  log factor    189.7696   169.000  237.000 ta55e3  1.00  0.00  1
tam5_027  log factor    190.8402   169.000  237.000 ta55e3  1.00  0.00  1
tam5_028  log factor    196.3989   169.000  237.000 ta55e3  1.00  0.00  1
tam5_029  log factor    180.0402   169.000  237.000 ta55e3  1.00  0.00  1
tam5_030  log factor    190.4111   169.000  237.000 ta55e3  1.00  0.00  1
tam5_031  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_032  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_033  log factor    214.5493   169.000  237.000 ta55e3  1.00  0.00  1
tam5_034  log factor    189.5018   169.000  237.000 ta55e3  1.00  0.00  1
tam5_035  log factor    194.8938   169.000  237.000 ta55e3  1.00  0.00  1
tam5_036  log factor    203.2463   169.000  237.000 ta55e3  1.00  0.00  1
tam5_037  log factor    196.4862   169.000  237.000 ta55e3  1.00  0.00  1
tam5_038  log factor    202.1429   169.000  237.000 ta55e3  1.00  0.00  1
tam5_039  log factor    193.6045   169.000  237.000 ta55e3  1.00  0.00  1
tam5_040  log factor    197.4474   169.000  237.000 ta55e3  1.00  0.00  1
tam5_041  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_042  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_043  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_044  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_045  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_046  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_047  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_048  log factor    192.1718   169.000  237.000 ta55e3  1.00  0.00  1
tam5_049  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_050  log factor    217.6671   169.000  237.000 ta55e3  1.00  0.00  1
tam5_051  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
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tam5_052  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_053  log factor    183.7916   169.000  237.000 ta55e3  1.00  0.00  1
tam5_054  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_055  log factor    177.2451   169.000  237.000 ta55e3  1.00  0.00  1
tam5_056  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_057  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_058  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_059  log factor    200.2050   169.000  237.000 ta55e3  1.00  0.00  1
tam5_060  log factor    178.6614   169.000  237.000 ta55e3  1.00  0.00  1
tam5_061  log factor    174.8194   169.000  237.000 ta55e3  1.00  0.00  1
tam5_062  log factor    234.4710   169.000  237.000 ta55e3  1.00  0.00  1
tam5_063  log factor    229.6360   169.000  237.000 ta55e3  1.00  0.00  1
tam5_064  log factor    183.9466   169.000  237.000 ta55e3  1.00  0.00  1
tam5_065  log factor    201.6633   169.000  237.000 ta55e3  1.00  0.00  1
tam5_066  log factor    187.3376   169.000  237.000 ta55e3  1.00  0.00  1
tam5_067  log factor    212.0562   169.000  237.000 ta55e3  1.00  0.00  1
tam5_068  log factor    199.6219   169.000  237.000 ta55e3  1.00  0.00  1
tam5_069  log factor    199.5483   169.000  237.000 ta55e3  1.00  0.00  1
tam5_070  log factor    174.1759   169.000  237.000 ta55e3  1.00  0.00  1
tam5_071  log factor    225.6456   169.000  237.000 ta55e3  1.00  0.00  1
tam5_072  log factor    175.0438   169.000  237.000 ta55e3  1.00  0.00  1
tam5_073  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_074  log factor    177.2259   169.000  237.000 ta55e3  1.00  0.00  1
tam5_075  log factor    185.2875   169.000  237.000 ta55e3  1.00  0.00  1
tam5_076  log factor    201.0145   169.000  237.000 ta55e3  1.00  0.00  1
tam5_077  log factor    198.7969   169.000  237.000 ta55e3  1.00  0.00  1
tam5_078  log factor    199.7871   169.000  237.000 ta55e3  1.00  0.00  1
tam5_079  log factor    205.3091   169.000  237.000 ta55e3  1.00  0.00  1
tam5_080  log factor    223.6175   169.000  237.000 ta55e3  1.00  0.00  1
tam5_081  log factor    198.6756   169.000  237.000 ta55e3  1.00  0.00  1
tam5_082  log factor    203.1798   169.000  237.000 ta55e3  1.00  0.00  1
tam5_083  log factor    206.0221   169.000  237.000 ta55e3  1.00  0.00  1
tam5_084  log factor    191.1298   169.000  237.000 ta55e3  1.00  0.00  1
tam5_085  log factor    200.8143   169.000  237.000 ta55e3  1.00  0.00  1
tam5_086  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_087  log factor    186.1977   169.000  237.000 ta55e3  1.00  0.00  1
tam5_088  log factor    222.8415   169.000  237.000 ta55e3  1.00  0.00  1
tam5_089  log factor    208.9369   169.000  237.000 ta55e3  1.00  0.00  1
tam5_090  log factor    199.6593   169.000  237.000 ta55e3  1.00  0.00  1
tam5_091  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_092  log factor    190.5309   169.000  237.000 ta55e3  1.00  0.00  1
tam5_093  log factor    232.2737   169.000  237.000 ta55e3  1.00  0.00  1
tam5_094  log factor    195.0007   169.000  237.000 ta55e3  1.00  0.00  1
tam5_095  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_096  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_097  log factor    190.4883   169.000  237.000 ta55e3  1.00  0.00  1
tam5_098  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
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tam5_099  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_100  log factor    183.3857   169.000  237.000 ta55e3  1.00  0.00  1
tam5_101  log factor    218.5346   169.000  237.000 ta55e3  1.00  0.00  1
tam5_102  log factor    200.9699   169.000  237.000 ta55e3  1.00  0.00  1
tam5_103  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_104  log factor    221.3158   169.000  237.000 ta55e3  1.00  0.00  1
tam5_105  log factor    216.5003   169.000  237.000 ta55e3  1.00  0.00  1
tam5_106  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_107  log factor    201.9361   169.000  237.000 ta55e3  1.00  0.00  1
tam5_108  log factor    184.2631   169.000  237.000 ta55e3  1.00  0.00  1
tam5_109  log factor    184.2124   169.000  237.000 ta55e3  1.00  0.00  1
tam5_110  log factor    179.4105   169.000  237.000 ta55e3  1.00  0.00  1
tam5_111  log factor    202.1647   169.000  237.000 ta55e3  1.00  0.00  1
tam5_112  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_113  log factor    172.1722   169.000  237.000 ta55e3  1.00  0.00  1
tam5_114  log factor    174.7402   169.000  237.000 ta55e3  1.00  0.00  1
tam5_115  log factor    176.9459   169.000  237.000 ta55e3  1.00  0.00  1
tam5_116  log factor    175.2575   169.000  237.000 ta55e3  1.00  0.00  1
tam5_117  log factor    182.9198   169.000  237.000 ta55e3  1.00  0.00  1
tam5_118  log factor    174.5018   169.000  237.000 ta55e3  1.00  0.00  1
tam5_119  log factor    211.0399   169.000  237.000 ta55e3  1.00  0.00  1
tam5_120  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_121  log factor    213.4883   169.000  237.000 ta55e3  1.00  0.00  1
tam5_122  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_123  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_124  log factor    206.7605   169.000  237.000 ta55e3  1.00  0.00  1
tam5_125  log factor    193.8027   169.000  237.000 ta55e3  1.00  0.00  1
tam5_126  log factor    204.0258   169.000  237.000 ta55e3  1.00  0.00  1
tam5_127  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_128  log factor    202.9482   169.000  237.000 ta55e3  1.00  0.00  1
tam5_129  log factor    208.9571   169.000  237.000 ta55e3  1.00  0.00  1
tam5_130  log factor    218.3326   169.000  237.000 ta55e3  1.00  0.00  1
tam5_131  log factor    207.8843   169.000  237.000 ta55e3  1.00  0.00  1
tam5_132  log factor    209.2953   169.000  237.000 ta55e3  1.00  0.00  1
tam5_133  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_134  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_135  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_136  log factor    213.1489   169.000  237.000 ta55e3  1.00  0.00  1
tam5_137  log factor    197.0407   169.000  237.000 ta55e3  1.00  0.00  1
tam5_138  log factor    199.0101   169.000  237.000 ta55e3  1.00  0.00  1
tam5_139  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_140  log factor    192.8304   169.000  237.000 ta55e3  1.00  0.00  1
tam5_141  log factor    220.7803   169.000  237.000 ta55e3  1.00  0.00  1
tam5_142  log factor    202.3884   169.000  237.000 ta55e3  1.00  0.00  1
tam5_143  log factor    195.9015   169.000  237.000 ta55e3  1.00  0.00  1
tam5_144  log factor    230.7178   169.000  237.000 ta55e3  1.00  0.00  1
tam5_145  log factor    212.9250   169.000  237.000 ta55e3  1.00  0.00  1
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tam5_146  log factor    207.1888   169.000  237.000 ta55e3  1.00  0.00  1
tam5_147  log factor    215.4565   169.000  237.000 ta55e3  1.00  0.00  1
tam5_148  log factor    207.8515   169.000  237.000 ta55e3  1.00  0.00  1
tam5_149  log factor    206.4267   169.000  237.000 ta55e3  1.00  0.00  1
tam5_150  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_151  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_152  log factor    203.2732   169.000  237.000 ta55e3  1.00  0.00  1
tam5_153  log factor    203.1081   169.000  237.000 ta55e3  1.00  0.00  1
tam5_154  log factor    195.8072   169.000  237.000 ta55e3  1.00  0.00  1
tam5_155  log factor    202.4904   169.000  237.000 ta55e3  1.00  0.00  1
tam5_156  log factor    218.1888   169.000  237.000 ta55e3  1.00  0.00  1
tam5_157  log factor    211.7353   169.000  237.000 ta55e3  1.00  0.00  1
tam5_158  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_159  log factor    192.7216   169.000  237.000 ta55e3  1.00  0.00  1
tam5_160  log factor    190.7037   169.000  237.000 ta55e3  1.00  0.00  1
tam5_161  log factor    179.2937   169.000  237.000 ta55e3  1.00  0.00  1
tam5_162  log factor    192.0473   169.000  237.000 ta55e3  1.00  0.00  1
tam5_163  log factor    184.6725   169.000  237.000 ta55e3  1.00  0.00  1
tam5_164  log factor    215.7926   169.000  237.000 ta55e3  1.00  0.00  1
tam5_165  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_166  log factor    194.7837   169.000  237.000 ta55e3  1.00  0.00  1
tam5_167  log factor    214.3106   169.000  237.000 ta55e3  1.00  0.00  1
tam5_168  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_169  log factor    181.9362   169.000  237.000 ta55e3  1.00  0.00  1
tam5_170  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_171  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_172  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_173  log factor    181.9504   169.000  237.000 ta55e3  1.00  0.00  1
tam5_174  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_175  log factor    235.1954   169.000  237.000 ta55e3  1.00  0.00  1
tam5_176  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_177  log factor    209.9776   169.000  237.000 ta55e3  1.00  0.00  1
tam5_178  log factor    219.3292   169.000  237.000 ta55e3  1.00  0.00  1
tam5_179  log factor    185.5745   169.000  237.000 ta55e3  1.00  0.00  1
tam5_180  log factor    206.1018   169.000  237.000 ta55e3  1.00  0.00  1
tam5_181  log factor    206.4990   169.000  237.000 ta55e3  1.00  0.00  1
tam5_182  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_183  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_184  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_185  log factor    215.9951   169.000  237.000 ta55e3  1.00  0.00  1
tam5_186  log factor    203.7704   169.000  237.000 ta55e3  1.00  0.00  1
tam5_187  log factor    195.4356   169.000  237.000 ta55e3  1.00  0.00  1
tam5_188  log factor    196.8400   169.000  237.000 ta55e3  1.00  0.00  1
tam5_189  log factor    213.7018   169.000  237.000 ta55e3  1.00  0.00  1
tam5_190  log factor    174.9646   169.000  237.000 ta55e3  1.00  0.00  1
tam5_191  log factor    204.2528   169.000  237.000 ta55e3  1.00  0.00  1
tam5_192  log factor    201.0006   169.000  237.000 ta55e3  1.00  0.00  1
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tam5_193  log factor    175.7329   169.000  237.000 ta55e3  1.00  0.00  1
tam5_194  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_195  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_196  log factor    195.7198   169.000  237.000 ta55e3  1.00  0.00  1
tam5_197  log factor    179.3706   169.000  237.000 ta55e3  1.00  0.00  1
tam5_198  log factor    194.6992   169.000  237.000 ta55e3  1.00  0.00  1
tam5_199  log factor    225.6146   169.000  237.000 ta55e3  1.00  0.00  1
tam5_200  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_201  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_202  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_203  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_204  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_205  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_206  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_207  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_208  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_209  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_210  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_211  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_212  log factor    214.9574   169.000  237.000 ta55e3  1.00  0.00  1
tam5_213  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_214  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_215  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_216  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_217  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_218  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_219  log factor    222.7147   169.000  237.000 ta55e3  1.00  0.00  1
tam5_220  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_221  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_222  log factor    201.0822   169.000  237.000 ta55e3  1.00  0.00  1
tam5_223  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_224  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_225  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_226  log factor    189.0017   169.000  237.000 ta55e3  1.00  0.00  1
tam5_227  log factor    183.4234   169.000  237.000 ta55e3  1.00  0.00  1
tam5_228  log factor    198.7491   169.000  237.000 ta55e3  1.00  0.00  1
tam5_229  log factor    181.9290   169.000  237.000 ta55e3  1.00  0.00  1
tam5_230  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_231  log factor    209.2282   169.000  237.000 ta55e3  1.00  0.00  1
tam5_232  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_233  log factor    190.2508   169.000  237.000 ta55e3  1.00  0.00  1
tam5_234  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_235  log factor    191.6445   169.000  237.000 ta55e3  1.00  0.00  1
tam5_236  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_237  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_238  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_239  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
```



```
tam5_240  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_241  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_242  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_243  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_244  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_245  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_246  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_247  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_248  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_249  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_250  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_251  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_252  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_253  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_254  log factor    210.5746   169.000  237.000 ta55e3  1.00  0.00  1
tam5_255  log factor    202.7790   169.000  237.000 ta55e3  1.00  0.00  1
tam5_256  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_257  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_258  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_259  log factor    202.0927   169.000  237.000 ta55e3  1.00  0.00  1
tam5_260  log factor    181.2231   169.000  237.000 ta55e3  1.00  0.00  1
tam5_261  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_262  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_263  log factor    199.2984   169.000  237.000 ta55e3  1.00  0.00  1
tam5_264  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_265  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_266  log factor    203.9213   169.000  237.000 ta55e3  1.00  0.00  1
tam5_267  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_268  log factor    191.6610   169.000  237.000 ta55e3  1.00  0.00  1
tam5_269  log factor    214.2670   169.000  237.000 ta55e3  1.00  0.00  1
tam5_270  log factor    190.2966   169.000  237.000 ta55e3  1.00  0.00  1
tam5_271  log factor    169.4357   169.000  237.000 ta55e3  1.00  0.00  1
tam5_272  log factor    184.1760   169.000  237.000 ta55e3  1.00  0.00  1
tam5_273  log factor    200.6833   169.000  237.000 ta55e3  1.00  0.00  1
tam5_274  log factor    192.1261   169.000  237.000 ta55e3  1.00  0.00  1
tam5_275  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_276  log factor    176.3324   169.000  237.000 ta55e3  1.00  0.00  1
tam5_277  log factor    212.4279   169.000  237.000 ta55e3  1.00  0.00  1
tam5_278  log factor    194.0612   169.000  237.000 ta55e3  1.00  0.00  1
tam5_279  log factor    177.3197   169.000  237.000 ta55e3  1.00  0.00  1
tam5_280  log factor    185.3148   169.000  237.000 ta55e3  1.00  0.00  1
tam5_281  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_282  log factor    212.4374   169.000  237.000 ta55e3  1.00  0.00  1
tam5_283  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_284  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_285  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_286  log factor    216.4835   169.000  237.000 ta55e3  1.00  0.00  1
```



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tam5_287  log factor    200.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_288  log factor    224.1849   169.000  237.000 ta55e3  1.00  0.00  1
tam5_289  log factor    207.3577   169.000  237.000 ta55e3  1.00  0.00  1
tam5_290  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_291  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_292  log factor    174.8989   169.000  237.000 ta55e3  1.00  0.00  1
tam5_293  log factor    215.3673   169.000  237.000 ta55e3  1.00  0.00  1
tam5_294  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_295  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_296  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_297  log factor    237.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_298  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_299  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
tam5_300  log factor    169.0000   169.000  237.000 ta55e3  1.00  0.00  1
drn_k_so1 log factor   9.7742912E-08  5e-08  5e-05 drn1e1 1 0 1
drn_k_so2x log factor    1.629417      1.005  5 drn5e3  1 0 1
drn_k_so3x log factor    1.284108      1.005  5 drn5e3  1 0 1
drn_k_so4x log factor    1.398415      1.005  5 drn5e3  1 0 1
drn_k_so5x log factor    3.799741      1.005  5 drn5e3  1 0 1
drn_k_wb log factor   4.0710367E-07  5e-08  5e-05 drn1e1 1  0 1
drn_k_sof log factor   2.5717028E-07  5e-08  5e-05 drn1e1 1 0 1
drn_c_seep log factor    2.000000      2 500 drn2e2 1 0 1
drn_c_dwg log factor    62.38316      10 1000 drn2e2 1  0 1
drn_c_t01 log factor   4.2521787E-02  0.01 20 drn5e3 1  0 1
drn_c_b01 log factor    61.71223      10 500 drn1e2 1 0 1
drn_c_t11 log factor    4.217536      0.5 20 drn5e3 1 0 1
drn_c_b11 log factor    33.97948      15 500 drn1e2 1 0 1
drn_c_t21 log factor    5.044919      1 25 drn5e3 1 0 1
drn_c_b21 log factor    110.3059      25 500 drn1e2 1 0 1
drn_c_t31 log factor    4.692666      0.5 30 drn5e3 1 0 1
drn_c_b31 log factor    175.2149      50 1000 drn1e2 1  0 1
drn_c_t61 log factor    1.000000      1.0 40 drn5e3 1 0 1
drn_c_b61 log factor    2000.000      1 2000 drn1e2 1 0 1
drn_mwm01 log factor    17.04297      1 200 drn2e2 1  0 1
drn_mwm11 log factor    7.539130      2 250 drn2e2 1  0 1
drn_mwm21 log factor    49.25411      2 350 drn2e2 1  0 1
drn_mwm31 log factor    85.63336      5 1000 drn2e2 1 0 1
drn_mwm61 log factor    193.2858      10 1000 drn2e2 1  0 1
drn00011 log factor  0.9423632      0.2  5 drn2e2 1  0 1
drn00012  log factor   0.9316574      0.2  5 drn2e2 1 0 1
drn00013  log factor    1.029149      0.2  5 drn2e2 1 0 1
drn00014  log factor    1.173317      0.2  5 drn2e2 1 0 1
drn00015  log factor   0.9698337      0.2  5 drn2e2 1 0 1
drn00021  log factor    1.136642      0.2  5 drn2e2 1 0 1
drn00051  log factor   0.8998302      0.2  5 drn2e2 1 0 1
drn00102 log factor    1.297729      0.2  5 drn2e2 1  0 1
drn00103 log factor    1.155649      0.2  5 drn2e2 1  0 1
```



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drn00104 log factor    1.720242      0.2  5 drn2e2 1  0 1
drn00105 log factor   0.9458924      0.2  5 drn2e2 1  0 1
drn00106 log factor    1.142650      0.2  5 drn2e2 1  0 1
drn00107 log factor   0.8242769      0.2  5 drn2e2 1  0 1
drn00108 log factor    1.002434      0.2  5 drn2e2 1  0 1
drn00109 log factor   0.9136405      0.2  5 drn2e2 1  0 1
drn00110 log factor   0.5431044      0.2  5 drn2e2 1  0 1
drn00111 log factor    1.025942      0.2  5 drn2e2 1  0 1
drn00112 log factor   0.2000000      0.2  5 drn2e2 1  0 1
drn00113 log factor   0.9273089      0.2  5 drn2e2 1  0 1
drn00114 log factor   0.9279634      0.2  5 drn2e2 1  0 1
drn00115 log factor    1.329134      0.2  5 drn2e2 1  0 1
drn00116 log factor    1.210580      0.2  5 drn2e2 1  0 1
drn00117 log factor   0.7827032      0.2  5 drn2e2 1  0 1
drn00118 log factor   0.8651996      0.2  5 drn2e2 1  0 1
drn00119 log factor    1.336113      0.2  5 drn2e2 1  0 1
drn00120 log factor    1.163097      0.2  5 drn2e2 1  0 1
drn00121 log factor    1.111952      0.2  5 drn2e2 1  0 1
drn00122 log factor   0.9314650      0.2  5 drn2e2 1  0 1
drn00123 log factor    1.311201      0.2  5 drn2e2 1  0 1
drn00124 log factor   0.9178727      0.2  5 drn2e2 1  0 1
drn00125 log factor   0.9374726      0.2  5 drn2e2 1  0 1
drn00126 log factor   0.9972435      0.2  5 drn2e2 1  0 1
drn00127 log factor   0.8376613      0.2  5 drn2e2 1  0 1
drn00128 log factor    1.109523      0.2  5 drn2e2 1  0 1
drn00201   log factor    1.0      0.2  5 drn2e2 1 0 1
drn00261   log factor    1.0      0.2  5 drn2e2 1 0 1
drn00271   log factor    1.0      0.2  5 drn2e2 1 0 1
drn00202   log factor    1.0      0.2  5 drn2e2 1 0 1
drn00212   log factor    1.0      0.2  5 drn2e2 1 0 1
drn00222   log factor    1.0      0.2  5 drn2e2 1 0 1
drn00232   log factor    1.0      0.2  5 drn2e2 1 0 1
drn00242   log factor    1.0      0.2  5 drn2e2 1 0 1
drn00262   log factor    1.0      0.2  5 drn2e2 1 0 1
drn00272   log factor    1.0      0.2  5 drn2e2 1 0 1
drn00203   log factor    1.0      0.2  5 drn2e2 1 0 1
drn00301   log factor   0.9016267      0.2  5 drn2e2 1  0 1
drn00361   log factor   0.8139297      0.2  5 drn2e2 1  0 1
drn00371   log factor    1.150498      0.2  5 drn2e2 1  0 1
drn00401   log factor    1.250628      0.2  5 drn2e2 1  0 1
drn00431   log factor   0.6719771      0.2  5 drn2e2 1  0 1
drn00501   log factor    1.404630      0.2  5 drn2e2 1  0 1
drn00511   log factor   0.8306782      0.2  5 drn2e2 1  0 1
drn00521   log factor   0.9759872      0.2  5 drn2e2 1  0 1
drn00531   log factor    1.003978      0.2  5 drn2e2 1  0 1
drn00541   log factor    2.105063      0.2  5 drn2e2 1  0 1
drn00561   log factor    1.086534      0.2  5 drn2e2 1  0 1
```



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drn00571   log factor    1.0000      0.2  5 drn2e2 1  0 1
drn00502   log factor    1.0000      0.2  5 drn2e2 1  0 1
drn00522   log factor    1.0000      0.2  5 drn2e2 1  0 1
drn00503   log factor    1.0000      0.2  5 drn2e2 1  0 1
drn00523   log factor    1.0000      0.2  5 drn2e2 1  0 1
drn00504   log factor    1.0000      0.2  5 drn2e2 1  0 1
drn00524   log factor    1.0000      0.2  5 drn2e2 1  0 1
drn00534   log factor    1.0000      0.2  5 drn2e2 1  0 1
drn00505   log factor    1.0000      0.2  5 drn2e2 1  0 1
drn00525   log factor    1.0000      0.2  5 drn2e2 1  0 1
drn00535   log factor    1.0000      0.2  5 drn2e2 1  0 1
drn00506   log factor    1.0000      0.2  5 drn2e2 1  0 1
drn00526   log factor    1.0000      0.2  5 drn2e2 1  0 1
drn00536   log factor    1.0000      0.2  5 drn2e2 1  0 1
drn00601   log factor   0.9679773      0.2  5 drn2e2 1  0 1
drn00621   log factor   0.7661334      0.2  5 drn2e2 1  0 1
drn00631   log factor   0.9545725      0.2  5 drn2e2 1  0 1
drn00701   log factor   0.9622705      0.2  5 drn2e2 1  0 1
drn00801   log factor   0.9500406      0.2  5 drn2e2 1  0 1
drn00821   log factor   0.9997803      0.2  5 drn2e2 1  0 1
drn00831   log factor    1.037487      0.2  5 drn2e2 1  0 1
drn00901   log factor   0.8759760      0.2  5 drn2e2 1  0 1
drn00921   log factor   0.7651464      0.2  5 drn2e2 1  0 1
drn01001   log factor   0.7924888      0.2  5 drn2e2 1  0 1
drn01021   log factor   0.9662779      0.2  5 drn2e2 1  0 1
drn01101   log factor    1.072558      0.2  5 drn2e2 1  0 1
drn01121   log factor    1.021568      0.2  5 drn2e2 1  0 1
drn01161   log factor   0.7432805      0.2  5 drn2e2 1  0 1
drn01171   log factor   0.8152226      0.2  5 drn2e2 1  0 1
drn01201   log factor    1.010651      0.2  5 drn2e2 1  0 1
drn01211   log factor    1.071426      0.2  5 drn2e2 1  0 1
drn01231   log factor   0.9322652      0.2  5 drn2e2 1  0 1
drn01301   log factor    1.213704      0.2  5 drn2e2 1  0 1
drn01331   log factor   0.9589575      0.2  5 drn2e2 1  0 1
drn01401   log factor    1.153616      0.2  5 drn2e2 1  0 1
drn01501   log factor   0.9000408      0.2  5 drn2e2 1  0 1
drn01531   log factor    1.070024      0.2  5 drn2e2 1  0 1
drn01601   log factor   0.9051496      0.2  5 drn2e2 1  0 1
drn01621   log factor    1.000619      0.2  5 drn2e2 1  0 1
drn01631   log factor   0.9994951      0.2  5 drn2e2 1  0 1
drn01661   log factor    1.001318      0.2  5 drn2e2 1  0 1
drn01671   log factor    1.001113      0.2  5 drn2e2 1  0 1
drn01701   log factor    1.310588      0.2  5 drn2e2 1  0 1
drn01721   log factor   0.9507787      0.2  5 drn2e2 1  0 1
drn01731   log factor    1.153990      0.2  5 drn2e2 1  0 1
drn01801   log factor    1.002197      0.2  5 drn2e2 1  0 1
drn01831   log factor    1.002014      0.2  5 drn2e2 1  0 1
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drn01802   log factor   0.9468263      0.2  5 drn2e2 1  0 1
drn01832   log factor   0.9637533      0.2  5 drn2e2 1  0 1
drn02201   log factor    1.153762      0.2  5 drn2e2 1  0 1
drn02221   log factor   0.9546627      0.2  5 drn2e2 1  0 1
drn02231   log factor   0.7781215      0.2  5 drn2e2 1  0 1
drn02401   log factor   0.8250969      0.2  5 drn2e2 1  0 1
drn02431   log factor   0.9407939      0.2  5 drn2e2 1  0 1
drn02441   log factor   0.7688085      0.2  5 drn2e2 1  0 1
drn02501   log factor    1.215341      0.2  5 drn2e2 1  0 1
drn02601   log factor    1.153476      0.2  5 drn2e2 1  0 1
drn02631   log factor   0.9166675      0.2  5 drn2e2 1  0 1
drn02641   log factor    1.005677      0.2  5 drn2e2 1  0 1
drn02801   log factor   0.6604301      0.2  5 drn2e2 1  0 1
drn02831   log factor   0.9533305      0.2  5 drn2e2 1  0 1
drn02901   log factor   0.7924388      0.2  5 drn2e2 1  0 1
drn02921   log factor   0.9736515      0.2  5 drn2e2 1  0 1
drn02931   log factor    1.054849      0.2  5 drn2e2 1  0 1
drn03001   log factor    3.890788      0.2  5 drn2e2 1  0 1
drn03061   log factor   0.2638960      0.2  5 drn2e2 1  0 1
drn03071   log factor   0.2000000      0.2  5 drn2e2 1  0 1
drn03101   log factor   0.8453991      0.2  5 drn2e2 1  0 1
drn03111   log factor   0.9183762      0.2  5 drn2e2 1  0 1
drn03131   log factor   0.9022991      0.2  5 drn2e2 1  0 1
drn03141   log factor   0.8950632      0.2  5 drn2e2 1  0 1
drn03201   log factor   0.8997346      0.2  5 drn2e2 1  0 1
drn03231   log factor   0.8978949      0.2  5 drn2e2 1  0 1
drn03241   log factor    1.016349      0.2  5 drn2e2 1  0 1
drn03301   log factor   0.8763355      0.2  5 drn2e2 1  0 1
drn03321   log factor    1.235453      0.2  5 drn2e2 1  0 1
drn03331   log factor   0.9187692      0.2  5 drn2e2 1  0 1
drn03341   log factor    1.200895      0.2  5 drn2e2 1  0 1
drn03401   log factor   0.9915048      0.2  5 drn2e2 1  0 1
drn03421   log factor   0.8856837      0.2  5 drn2e2 1  0 1
drn03431   log factor    1.002372      0.2  5 drn2e2 1  0 1
drn03501   log factor    1.087683      0.2  5 drn2e2 1  0 1
drn03521   log factor   0.9774685      0.2  5 drn2e2 1  0 1
drn03531   log factor   0.7655575      0.2  5 drn2e2 1  0 1
drn10201   log  factor 1.000       0.2  5 drn2e2 1  0 1
drn10261   log  factor 1.000       0.2  5 drn2e2 1  0 1
drn10202   log  factor 1.000       0.2  5 drn2e2 1  0 1
drn10212   log  factor 1.000       0.2  5 drn2e2 1  0 1
drn10222   log  factor 1.000       0.2  5 drn2e2 1  0 1
drn10232   log  factor 1.000       0.2  5 drn2e2 1  0 1
drn10262   log  factor 1.000       0.2  5 drn2e2 1  0 1
drn10203   log  factor 1.000       0.2  5 drn2e2 1  0 1
drn10301    log factor   0.9991412      0.2  5 drn2e2 1 0 1
drn10361    log factor    1.006001      0.2  5 drn2e2 1 0 1
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drn10401    log factor    1.102721       0.2  5 drn2e2 1 0 1
drn10431    log factor    1.540227       0.2  5 drn2e2 1 0 1
drn10501    log  factor 1.000       0.2  5 drn2e2 1 0 1
drn10511    log  factor 1.000       0.2  5 drn2e2 1 0 1
drn10521    log  factor 1.000       0.2  5 drn2e2 1 0 1
drn10531    log  factor 1.000       0.2  5 drn2e2 1 0 1
drn10561    log  factor 1.000       0.2  5 drn2e2 1 0 1
drn10502    log  factor 1.000       0.2  5 drn2e2 1 0 1
drn10522    log  factor 1.000       0.2  5 drn2e2 1 0 1
drn10503    log  factor 1.000       0.2  5 drn2e2 1 0 1
drn10523    log  factor 1.000       0.2  5 drn2e2 1 0 1
drn10504    log  factor 1.000       0.2  5 drn2e2 1 0 1
drn10524    log  factor 1.000       0.2  5 drn2e2 1 0 1
drn10534    log  factor 1.000       0.2  5 drn2e2 1 0 1
drn10505    log  factor 1.000       0.2  5 drn2e2 1 0 1
drn10525    log  factor 1.000       0.2  5 drn2e2 1 0 1
drn10535    log  factor 1.000       0.2  5 drn2e2 1 0 1
drn10506    log  factor 1.000       0.2  5 drn2e2 1 0 1
drn10526    log  factor 1.000       0.2  5 drn2e2 1 0 1
drn10536    log  factor 1.000       0.2  5 drn2e2 1 0 1
drn10601    log factor   0.8881232      0.2  5 drn2e2 1 0 1
drn10621    log factor    1.068061      0.2  5 drn2e2 1 0 1
drn10631    log factor   0.8847914      0.2  5 drn2e2 1 0 1
drn10701    log factor    1.230283      0.2  5 drn2e2 1 0 1
drn10801    log factor    1.235313      0.2  5 drn2e2 1 0 1
drn10821    log factor   0.8946680      0.2  5 drn2e2 1 0 1
drn10831    log factor   0.8957396      0.2  5 drn2e2 1 0 1
drn10901    log factor    1.486878      0.2  5 drn2e2 1 0 1
drn10921    log factor   0.7716241      0.2  5 drn2e2 1 0 1
drn11001    log factor   0.8709487      0.2  5 drn2e2 1 0 1
drn11021    log factor   0.9162134      0.2  5 drn2e2 1 0 1
drn11101    log factor   0.9256722      0.2  5 drn2e2 1 0 1
drn11121    log factor    1.020914      0.2  5 drn2e2 1 0 1
drn11161    log factor   0.9876715      0.2  5 drn2e2 1 0 1
drn11201    log factor    1.141736      0.2  5 drn2e2 1 0 1
drn11211    log factor    1.074819      0.2  5 drn2e2 1 0 1
drn11231    log factor   0.8925683      0.2  5 drn2e2 1 0 1
drn11301    log factor   0.9438821      0.2  5 drn2e2 1 0 1
drn11331    log factor    1.000      0.2  5 drn2e2 1 0 1
drn11601    log factor    1.075855      0.2  5 drn2e2 1 0 1
drn11621    log factor   0.9860164      0.2  5 drn2e2 1 0 1
drn11631    log factor   0.9976567      0.2  5 drn2e2 1 0 1
drn11661    log factor   0.9978187      0.2  5 drn2e2 1 0 1
drn11701    log factor   0.8151386      0.2  5 drn2e2 1 0 1
drn11721    log factor   0.7723582      0.2  5 drn2e2 1 0 1
drn11731    log factor   0.8961093      0.2  5 drn2e2 1 0 1
drn11801    log factor    1.052252      0.2  5 drn2e2 1 0 1
```



```
drn11831    log factor   0.9951538      0.2  5 drn2e2 1 0 1
drn11802    log factor    1.023845      0.2  5 drn2e2 1 0 1
drn11832    log factor    1.0000      0.2  5 drn2e2 1 0 1
drn12201    log factor   0.9159393      0.2  5 drn2e2 1 0 1
drn12221    log factor   0.8716930      0.2  5 drn2e2 1 0 1
drn12231    log factor    1.076037      0.2  5 drn2e2 1 0 1
drn12401    log factor    1.041152      0.2  5 drn2e2 1 0 1
drn12431    log factor    1.149627      0.2  5 drn2e2 1 0 1
drn12501    log factor    1.042729      0.2  5 drn2e2 1 0 1
drn12601    log factor   0.8095380      0.2  5 drn2e2 1 0 1
drn12631    log factor    1.040241      0.2  5 drn2e2 1 0 1
drn12801    log factor    1.101042      0.2  5 drn2e2 1 0 1
drn12831    log factor   0.7667981      0.2  5 drn2e2 1 0 1
drn12901    log factor    1.079127      0.2  5 drn2e2 1 0 1
drn12921    log factor    1.041841      0.2  5 drn2e2 1 0 1
drn12931    log factor    1.247499      0.2  5 drn2e2 1 0 1
drn13001    log factor   0.6684207      0.2  5 drn2e2 1 0 1
drn13061    log factor   0.8346892      0.2  5 drn2e2 1 0 1
drn13101    log factor    1.196435      0.2  5 drn2e2 1 0 1
drn13111    log factor    1.177229      0.2  5 drn2e2 1 0 1
drn13131    log factor   0.8495230      0.2  5 drn2e2 1 0 1
drn13201    log factor    1.127266      0.2  5 drn2e2 1 0 1
drn13231    log factor    1.325454      0.2  5 drn2e2 1 0 1
drn13301    log factor   0.8718858      0.2  5 drn2e2 1 0 1
drn13321    log factor    1.028209      0.2  5 drn2e2 1 0 1
drn13331    log factor   0.9806968      0.2  5 drn2e2 1 0 1
drn13401    log factor   0.7758683      0.2  5 drn2e2 1 0 1
drn13421    log factor    1.055935      0.2  5 drn2e2 1 0 1
drn13431    log factor   0.9190106      0.2  5 drn2e2 1 0 1
drn13501    log factor   0.8659860      0.2  5 drn2e2 1 0 1
drn13521    log factor   0.9160788      0.2  5 drn2e2 1 0 1
drn13531    log factor    1.240864      0.2  5 drn2e2 1 0 1
* observation groups
Head1
Head2
Head3
Ddn1
Ddn2
Ddn3
PackerK
Inf1_2
Inf1_2cuml
Inf1_3
Inf1_3cuml
Inf1_4
Inf1_4cuml
* observation data
```



```
* model command line
pestpy.bat
* model input/output
parameters.tpl parameters.in
kx_points.tpl   kx_points.dat
67656_R01RevB_PRO_01a_LayAssgW.tpl 67656_R01RevB_PRO_01a_LayAssgW.csv
KzF_points.tpl KzF_points.dat
SsF_points.tpl SsF_points.dat
SyF_points.tpl SyF_points.dat
ExtArrayLineaments.tpl ExtArrayLineaments.in
ExtArrayDepthDependModifier.tpl ExtArrayDepthDependModifier.in
rchf_points.tpl rchf_points.dat
RCHPEST_USG_Active.tpl RCHPEST_USG_Active.in
evtf_points.tpl evtf_points.dat
ed_points.tpl ed_points.dat
RIVPEST_USG_Active.tpl RIVPEST_USG_Active.in
GHBPEST_USG_Active.tpl GHBPEST_USG_Active.in
68229_R01RevA_APR_01a_GHB_L17_Points.tpl
68229_R01RevA_APR_01a_GHB_L17_Points.csv
68229_R01RevA_APR_01a_GHB_L21_Points.tpl
68229_R01RevA_APR_01a_GHB_L21_Points.csv
68229_R01RevA_APR_01a_GHB_L27_Points.tpl
68229_R01RevA_APR_01a_GHB_L27_Points.csv
TAMS_points.tpl TAMS_points.dat
TAMS_points.tpl TAMS_points.dat
TVMModel_Extractn_1stWorkings.tpl TVMModel_Extractn_1stWorkings.txt
TVMModel_Extractn_1stWorkings_Nibble.tpl
TVMModel_Extractn_1stWorkings_Nibble.txt
TVMModel_Extractn_2ndWorking_Longwall.tpl
TVMModel_Extractn_2ndWorking_Longwall.txt
TVMPEST_USG_StackedDrains_ExtArr.tpl TVMPEST_USG_StackedDrains_ExtArr.in
DRNPEST_USG_StackedDrains.tpl DRNPEST_USG_StackedDrains.in
TARGPEST3D_ins TARGPEST3D.out
68229_R01RevA_APR_01a_ExtArrayTargets_log10.INS
68229_R01RevA_APR_01a_ExtArrayTargets_log10.txt
68229_R01RevA_APR_01a_TVMTargOutput_log10.INS
68229_R01RevA_APR_01a_TVMTargOutput_log10.txt
68229_R01RevA_APR_01a_Mines.ins 68229_R01RevA_APR_01a_Mines.txt
```

Appendix L PEST Parameter Uncertainty File

Appendix L

L1. PEST Parameter Uncertainty File

This appendix presents the PEST parameter uncertainty file (.UNC).

The file presents the calibrated standard deviations used for non-Covariance matrix parameters.

```
START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_101_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_102_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_103_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_104_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_105_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_106_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_107_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_108_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_109_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_110_v.mat
```



```
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_111_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_112_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_113_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_114_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_115_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_116_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_117_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_118_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_119_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX
```



```
START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_120_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_121_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_122_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_123_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_124_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_125_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_126_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_127_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_128_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
```



```
  file 68229_r01reva_apr_01a_kh_129_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kh_130_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_101_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_102_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_103_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_104_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_105_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_106_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_107_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_108_v.mat
variance_multiplier 1.000
```



```
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_109_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_110_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_111_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_112_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_113_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_114_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_115_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_116_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_117_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX
```



```
START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_118_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_119_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_120_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_121_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_122_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_123_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_124_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_125_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_126_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_127_v.mat
```



```
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_128_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_129_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_kvf_130_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_101_v.mat
variance_multiplier 1.0000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_102_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_103_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_104_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_105_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_106_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX
```



```
START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_107_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_108_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_109_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_110_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_111_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_112_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_113_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_114_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_115_v.mat
variance_multiplier 1.0000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
```



```
  file 68229_r01reva_apr_01a_ssf_116_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_117_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_118_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_119_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_120_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_121_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_122_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_123_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_124_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_125_v.mat
variance_multiplier 1.000
```



```
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
  file 68229_r01reva_apr_01a_ssf_126_v.mat
variance_multiplier 1.000
END COVARIANCE_MATRIX

START COVARIANCE_MATRIX
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START COVARIANCE_MATRIX
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END STANDARD_DEVIATION

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