Appendix C contains numerous maps showing the model mines used in the analysis and is not Section 508 compliant. Please contact Mark Gehlhar at OSMRE 202-208-2716 for assistance.
Pre-Mining

- 50 ft contours taken from USGS Seamless Server
- 14.5 acre ephemeral drainage requirement based on "Defining perennial, intermittent, and ephemeral channels in Eastern Kentucky: Application to forestry best management practices" by JR Svec, RK Kolka, and JW Stringer, 2005.
- Ephemeral/Intermittent points found using coal seam outcrop on down-dip side (North) and 19.8 acre drainage requirement on up-dip side (South), also from Svec, Kolka, and Stringer, 2005.

Legend
- Original Topography (50 ft Ctrs)
- Generated Streams (14.5 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Ephemeral/Intermittent Point

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Central Appalachia Region
Surface Area Mine
Pre-Mining
Alternative 1
- 2.3 million tpy mined
- 37 million tons coal resource
- 16.1:1 mining ratio
- 487 million CY initial backfill
- 251 million LCY excess spoil
  - 37% outside mineral removal area
  - 36.4 million LCY fill below lowest seam mined
- 1,260 disturbed acres
- Stream Impacts:
  - 2,156 ft ephemeral stream mined through
  - 1,624 ft ephemeral stream filled
  - 1,444 ft intermittent stream mined through
  - 12,258 ft intermittent stream filled

Central Appalachia Region
Surface Area Mine
Alternative 1

Legend
- Original Topography (50 ft Ctrs)
- Generated Streams (14.3 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography
- Excess Spoil Topography
- Ephemeral/Intermittent Point

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Alternative 2
- 2.3 million tpy mined
- 37 million tons coal resource
- 16.1:1 mining ratio
- 487 million CY initial backfill
- 251 million LCY excess spoil
  - All excess spoil must be located to an offsite storage area
- 1,116 disturbed acres
- Stream Impacts:
  - 2,156 ft ephemeral stream mined through
  - 1,444 ft intermittent stream mined through

Legend
- Original Topography (50 ft Ctrs)
- Generated Streams (100 ft stream offset)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography
- Excess Spoil Topography
- Ephemeral/Intermittent Point

Central Appalachia Region
Surface Area Mine
Alternative 2
Alternative 3

- 2.3 million tpy mined
- 37 million tons coal resource
- 16.1:1 mining ratio
- 487 million CY initial backfill
- 251 million LCY excess spoil
  - 37% outside mineral removal area
  - 36.4 million LCY fill below lowest seam mined
- 1,260 disturbed acres

Stream Impacts:
- 2,156 ft ephemeral stream mined through
- 1,624 ft ephemeral stream filled
- 1,444 ft intermittent stream mined through
- 12,258 ft intermittent stream filled

Legend
- Original Topography (50 ft Ctrs)
- Generated Streams (14.5 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography
- Excess Spoil Topography
- Ephemeral/Intermittent Point

Central Appalachia Region
Surface Area Mine
Alternative 3
Alternative 4
- 2.3 million tpy mined
- 37 million tons coal resource
- 16.1:1 mining ratio
- 487 million CY initial backfill
- 251 million LCY excess spoil
  - 37% outside mineral removal area
  - 57.7 million LCY fill below lowest seam mined
- 1,260 disturbed acres
- Stream Impacts:
  - 2,156 ft ephemeral stream mined through
  - 1,624 ft ephemeral stream filled
  - 1,444 ft intermittent stream mined through
  - 12,258 ft intermittent stream filled

Central Appalachia Region
Surface Area Mine
Alternative 4
Alternative 5
- 2.3 million tpy mined
- 37 million tons coal resource
- 16.1:1 mining ratio
- 487 million CY initial backfill
- 251 million LCY excess spoil
  - 37% outside mineral removal area
  - 57.7 million LCY fill below lowest seam mined
- 1,260 disturbed acres
- Stream Impacts:
  - 2,156 ft ephemeral stream mined through
  - 1,624 ft ephemeral stream filled
  - 1,444 ft intermittent stream mined through
  - 12,258 ft intermittent stream filled

Legend
- Original Topography (50 ft Ctrs)
- Generated Streams (14.5 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography
- Excess Spoil Topography
- Relocated Stream
- Ephemeral/Intermittent Point

Central Appalachia Region
Surface Area Mine
Alternative 5
Alternative 6

- 2.3 million tpy mined
- 37 million tons coal resource
- 16.1:1 mining ratio
- 487 million CY initial backfill
- 251 million LCY excess spoil
  - 37% outside mineral removal area
  - 57.7 million LCY fill below lowest seam mined
- 1,260 disturbed acres

Stream Impacts:
- 2,156 ft ephemeral stream mined through
- 1,624 ft ephemeral stream filled
- 1,444 ft intermittent stream mined through
- 12,258 ft intermittent stream filled

Legend
- Original Topography (50 ft Ctrs)
- Generated Streams (14.5 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography
- Excess Spoil Topography
- Relocated Stream
- Ephemeral/Intermittent Point

Central Appalachia Region
Surface Area Mine
Alternative 6

Scale 1"=1000'
0 1000 feet
Alternative 7
- 2.3 million tpy mined
- 37 million tons coal resource
- 16.1:1 mining ratio
- 487 million CY initial backfill
- 251 million LCY excess spoil
  - 37% outside mineral removal area
  - 57.7 million LCY fill below lowest seam mined
- 1,260 disturbed acres
- Stream Impacts:
  - 2,156 ft ephemeral stream mined through
  - 1,624 ft ephemeral stream filled
  - 1,444 ft intermittent stream mined through
  - 12,258 ft intermittent stream filled

Legend
- Original Topography (50 ft Ctrs)
- Generated Streams (14.5 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography
- Excess Spoil Topography
- Relocated Stream
- Ephemeral/Intermittent Point

Central Appalachia Region
Surface Area Mine
Alternative 7
Alternative 8
- 2.3 million tpy mined
- 37 million tons coal resource
- 16.1:1 mining ratio
- 487 million CY initial backfill
- 251 million LCY excess spoil
  - 37% outside mineral removal area
  - 57.7 million LCY fill below lowest seam mined
- 1,260 disturbed acres
- Stream Impacts:
  - 2,156 ft ephemeral stream mined through
  - 1,624 ft ephemeral stream filled
  - 1,444 ft intermittent stream mined through
  - 12,258 ft intermittent stream filled

Legend
- Original Topography (50 ft Ctrs)
- Generated Streams (14.5 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography
- Excess Spoil Topography
- Relocated Stream
- Ephemeral/Intermittent Point

Central Appalachia Region
Surface Area Mine
Alternative 8
Alternative 9
- 2.3 million tpy mined
- 37 million tons coal resource
- 16.1:1 mining ratio
- 487 million CY initial backfill
- 251 million LCY excess spoil
  - 37% outside mineral removal area
  - 36.4 million LCY fill below lowest seam mined
- 1,260 disturbed acres
- Stream Impacts:
  - 2,156 ft ephemeral stream mined through
  - 1,624 ft ephemeral stream filled
  - 1,444 ft intermittent stream mined through
  - 12,258 ft intermittent stream filled

Legend
- Original Topography (50 ft Ctrs)
- Generated Streams (14.5 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography
- Excess Spoil Topography
- Ephemeral/Intermittent Point

Central Appalachia Region
Surface Area Mine
Alternative 9
Pre-Mining
- 50 ft contours taken from USGS Seamless Server
- 14.5 acre ephemeral drainage requirement based on "Defining perennial, intermittent, and ephemeral channels in Eastern Kentucky: Application to forestry best management practices" by JR Svec, RK Kolka, and JW Stringer, 2005.
- Ephemeral/Intermittent points found using coal seam outcrop on down-dip side (North) and 19.8 acre drainage requirement on up-dip side (South), also from Svec, Kolka, and Stringer, 2005.
Alternative 1
- 0.5 million tpy mined
- 5 million tons coal resource
- 13.2:1 mining ratio
- 55 million CY initial backfill
- 28 million LCY excess fill
  - 87% outside mineral removal area
  - 76% below lowest seam mined
- 458 disturbed acres
- Stream Impacts
  - 235 ft ephemeral stream mined through
  - 704 ft ephemeral stream filled
  - 302 ft intermittent stream mined through
  - 6,928 ft intermittent stream filled

Central Appalachia Region
Surface Contour Mine
Alternative 1
Alternative 2

- 0.5 million tpy
- 5 million tons coal resource
- 13.2:1 mining ratio
- 55 million CY initial backfill
- 28 million LCY excess fill
  - All excess spoil must be located to an offsite storage area
- 371 disturbed acres

Stream Impacts

- 235 ft ephemeral stream mined through
- 302 ft intermittent stream mined through

Legend

- Original Topography (50 ft Ctrs)
- Generated Streams (14.5 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Ephemeral/Intermittent Point

Central Appalachia Region
Surface Contour Mine
Alternative 2
Alternative 3
- 0.5 million tpy
- 5 million tons coal resource
- 13.2:1 mining ratio
- 55 million CY initial backfill
- 28 million LCY excess fill
  - 87% outside mineral removal area
  - 76% below lowest seam mined
- 458 impacted acres
- Stream Impacts
  - 235 ft ephemeral stream mined through
  - 704 ft ephemeral stream filled
  - 302 ft intermittent stream mined through
  - 6,928 ft intermittent stream filled

Central Appalachia Region
Surface Contour Mine
Alternative 3

Legend
- Original Topography (50 ft Ctrs)
- Generated Streams (14.5 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography
- Excess Spoil Topography
- Ephemeral/Intermittent Point

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Scale 1"=1500'
Alternative 4
- 0.5 million tpy
- 5 million tons coal resource
- 13.2:1 mining ratio
- 55 million CY initial backfill
- 28 million LCY excess fill
  - 46% outside mineral removal area
  - 34% below lowest seam mined
- 448 disturbed acres
- Stream Impacts:
  - 235 ft ephemeral stream mined through
  - 457 ft ephemeral stream filled
  - 302 ft intermittent stream mined through
  - 3,135 ft intermittent stream filled

Legend
- Original Topography (50 ft Cts)
- Generated Streams (14.5 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Excess Spoil Topography
- Post-Mining Topography
- Ephemeral/Intermittent Point
Alternative 5
- 0.5 million tpy
- 5 million tons coal resource
- 13.2:1 mining ratio
- 55 million CY initial backfill
- 28 million LCY excess fill
  - 46% outside mineral removal area
  - 34% below lowest seam mined
- 448 disturbed acres
- Stream Impacts:
  - 235 ft ephemeral stream mined through
  - 457 ft ephemeral stream filled
  - 302 ft intermittent stream mined through
  - 3,135 ft intermittent stream filled

Central Appalachia Region
Surface Contour Mine
Alternative 5
Alternative 6
- 0.5 million tpy
- 5 million tons coal resource
- 13.2:1 mining ratio
- 55 million CY initial backfill
- 28 million LCY excess fill
  - 46% outside mineral removal area
  - 34% below lowest seam mined
- 448 disturbed acres
- Stream Impacts:
  - 235 ft ephemeral stream mined through
  - 457 ft ephemeral stream filled
  - 302 ft intermittent stream mined through
  - 3,135 ft intermittent stream filled

Legend
- Original Topography (50 ft Ctrs)
- Generated Streams (14.5 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Excess Spoil Topography
- Post-Mining Topography
- Ephemeral/Intermittent Point

Central Appalachia Region
Surface Contour Mine
Alternative 6
Alternative 7
- 0.5 million tpy
- 5 million tons coal resource
- 13.2:1 mining ratio
- 55 million CY initial backfill
- 28 million LCY excess fill
  - 46% outside mineral removal area
  - 34% below lowest seam mined
- 448 disturbed acres
- Stream Impacts:
  - 235 ft ephemeral stream mined through
  - 457 ft ephemeral stream filled
  - 302 ft intermittent stream mined through
  - 3,135 ft intermittent stream filled
- 46% outside mineral removal area
- 34% below lowest seam mined
- 448 disturbed acres
- Stream Impacts:
  - 235 ft ephemeral stream mined through
  - 457 ft ephemeral stream filled
  - 302 ft intermittent stream mined through
  - 3,135 ft intermittent stream filled

Legend
- Original Topography (50 ft Ctrs)
- Generated Streams (14.5 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Excess Spoil Topography
- Post-Mining Topography
- Ephemeral/Intermittent Point

Central Appalachia Region
Surface Contour Mine
Alternative 7

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Scale 1"=1500'
Alternative 8
- 0.5 million tpy
- 5 million tons coal resource
- 13.2:1 mining ratio
- 55 million CY initial backfill
- 28 million LCY excess fill
  - 46% outside mineral removal area
  - 34% below lowest seam mined
- 448 disturbed acres
- Stream Impacts:
  - 235 ft ephemeral stream mined through
  - 457 ft ephemeral stream filled
  - 302 ft intermittent stream mined through
  - 3,135 ft intermittent stream filled

Central Appalachia Region
Surface Contour Mine
Alternative 8
Alternative 9
- 0.5 million tpy mined
- 5 million tons coal resource
- 13.2:1 mining ratio
- 55 million CY initial backfill
- 28 million LCY excess fill
  - 87% outside mineral removal area
  - 76% below lowest seam mined
- 458 disturbed acres
- Stream Impacts
  - 235 ft ephemeral stream mined through
  - 704 ft ephemeral stream filled
  - 302 ft intermittent stream mined through
  - 6,928 ft intermittent stream filled

Central Appalachia Region
Surface Contour Mine
Alternative 9

Legend
- Original Topography (50 ft Ctrs)
- Generated Streams (14.5 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography
- Excess Spoil Topography
- Ephemeral/Intermittent Point

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Scale 1"=1500'
1500 feet
Pre-Mining

- 20 ft contours taken from USGS Seamless Server
- 7.8 acre ephemeral drainage requirement based on original streams delineated within permit files. Streams were generated based on drainage requirement until stream length was within 1% of the streams sampled from the permit file. This drainage requirement was then applied to the sample mine topography to generate the final streams.
Alternative 1
- 0.2 million tpy
- 1.6 million tons coal resource
- 7.5:1 mining ratio
- 205 disturbed acres
- Stream Impacts:
  - 423 ft ephemeral stream mined through

Legend
- Original Topography (20 ft Ctrs)
- Generated Streams (7.8 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography

Northern Appalachia Region
Surface Contour Mine
Alternative 1
**Alternative 2**
- 0.2 million tpy
- 1.6 million tons coal resource
- 7.5:1 mining ratio
- 205 disturbed acres
- Stream Impacts:
  - 423 ft ephemeral stream mined through

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**Legend**
- Original Topography (20 ft Ctrs)
- Generated Streams (7.8 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography

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**Northern Appalachia Region**
**Surface Contour Mine**
**Alternative 2**
Alternative 3
- 0.2 million tpy
- 1.6 million tons coal resource
- 7.5:1 mining ratio
- 205 disturbed acres
- Stream Impacts:
  - 423 ft ephemeral stream mined through

Legend
- Original Topography (20 ft Ctrs)
- Generated Streams (7.8 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography

Northern Appalachia Region
Surface Contour Mine
Alternative 3

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Prepared By:
Alternative 4
- 0.2 million tpy
- 1.6 million tons coal resource
- 7.5:1 mining ratio
- 205 disturbed acres
- Stream Impacts:
  - 423 ft ephemeral stream mined through

Legend
- Original Topography (20 ft Ctrs)
- Generated Streams (7.8 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography

Northern Appalachia Region
Surface Contour Mine
Alternative 4
Mineral Removal Area
Generated Streams
Post-Mining Topography

Region
Surface Contour Mine
Scale 1"=1000'

Alternative 5
- 0.2 million tpy
- 1.6 million tons coal resource
- 7.5:1 mining ratio
- 205 disturbed acres
- Stream Impacts:
  - 423 ft ephemeral stream mined through

Legend
- Original Topography (20 ft Ctrs)
- Generated Streams (7.8 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography

Northern Appalachia Region
Surface Contour Mine
Alternative 5

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Prepared By:

Legend
- Original Topography (20 ft Ctrs)
- Generated Streams (7.8 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography

Northern Appalachia
Region
Surface Contour Mine
Alternative 6

Alternative 6
- 0.2 million tpy
- 1.6 million tons coal resource
- 7.5:1 mining ratio
- 205 disturbed acres
- Stream Impacts:
  - 423 ft ephemeral stream mined through
Alternative 7

- 0.2 million tpy
- 1.6 million tons coal resource
- 7.5:1 mining ratio
- 205 disturbed acres
- Stream Impacts:
  - 423 ft ephemeral stream mined through

Legend

- Original Topography (20 ft Ctrs)
- Generated Streams (7.8 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography

Northern Appalachia Region
Surface Contour Mine
Alternative 7
Alternative 8
- 0.2 million tpy
- 1.6 million tons coal resource
- 7.5:1 mining ratio
- 205 disturbed acres

Stream Impacts:
- 423 ft ephemeral stream mined through

Legend
- Original Topography (20 ft Ctrs)
- Generated Streams (7.8 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography
Alternative 9
- 0.2 million tpy
- 1.6 million tons coal resource
- 7.5:1 mining ratio
- 205 disturbed acres
- Stream Impacts:
  - 423 ft ephemeral stream mined through

Legend
Original Topography (20 ft Ctrs)
Generated Streams
(7.8 acre drainage)
100 ft stream offset
Mineral Removal Area
Post-Mining Topography

Northern Appalachia Region
Surface Contour Mine
Alternative 9

01000 feet
Scale 1"=1000'
Pre-Mining

- 20 ft contours taken from USGS Seamless Server
- 14.5 acre ephemeral drainage requirement based on "Defining perennial, intermittent, and ephemeral channels in Eastern Kentucky: Application to forestry best management practices" by JR Svec, RK Kolka, and JW Stringer, 2005.
- E/I points found using coal seam outcrop on down-dip side (North) and 19.8 acre drainage requirement on up-dip side (South), also from Svec, Kolka, and Stringer, 2005.
Alternative 1
- 0.25 million tpy
- 4.2 million tons coal resource
- 3.0 million tons recoverable coal
- 773 mine acres
- 12 disturbed acres
- Stream Impacts
  - 863 ft intermittent stream filled
  - 391 ft ephemeral stream filled

Legend
- Original Topography (20 ft Ctrs)
- Generated Streams (14.5 acre drainage)
- 100 ft stream offset
- Accessible Coal Boundary
- NO Mine Area
- High Extraction R&P Area
- Face-Up/Fill Boundary and Contours
- Refuse Impoundment
- Ephemeral/Intermittent Point
Alternative 2
- 0.25 million tpy
- 4.2 million tons coal resource
- 3.0 million tons recoverable coal
- 773 mine acres
- 12 disturbed acres
- Stream Impacts
  - 863 ft intermittent stream filled
  - 391 ft ephemeral stream filled

Legend
- Original Topography (20 ft Ctrs)
- Generated Streams (14.5 acre drainage)
- 100 ft stream offset
- Accessible Coal Boundary
- NO Mine Area
- High Extraction R&P Area
- Face-Up/Fill Boundary and Contours
- Refuse Impoundment
- Ephemeral/Intermittent Point

Central Appalachia Region
Underground Room and Pillar Mine Alternative 2

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Alternative 3
- 0.25 million tpy
- 4.2 million tons coal resource
- 3.0 million tons recoverable coal
- 773 mine acres
- 12.1 disturbed acres
- Stream Impacts
  - 863 ft intermittent stream filled
  - 391 ft ephemeral stream filled

Central Appalachia Region
Underground Room and Pillar Mine
Alternative 3
Alternative 4
- 0.25 million tpy
- 4.2 million tons coal resource
- 3.0 million tons recoverable coal
- 773 mine acres
- 12 disturbed acres

Stream Impacts
- 863 ft intermittent stream filled
- 391 ft ephemeral stream filled

Legend
- Original Topography (20 ft Ctrs)
- Generated Streams (14.5 acre drainage)
- 100 ft stream offset
- Accessible Coal Boundary
- NO Mine Area
- High Extraction R&P Area
- Face-Up/Fill Boundary and Contours
- Refuse Impoundment
- Ephemeral/Intermittent Point

Central Appalachia Region
Underground Room and Pillar Mine
Alternative 4
Alternative 5
- 0.25 million tpy
- 4.2 million tons coal resource
- 3.0 million tons recoverable coal
- 773 mine acres
- 12 disturbed acres
- Stream Impacts
  - 863 ft intermittent stream filled
  - 391 ft ephemeral stream filled

Legend
- Original Topography (20 ft Ctrs)
- Generated Streams (14.5 acre drainage)
- 100 ft stream offset
- Accessible Coal Boundary
- NO Mine Area
- High Extraction R&P Area
- Face-Up/Fill Boundary and Contours
- Refuse Impoundment
- Ephemeral/Intermittent Point

Central Appalachia Region
Underground Room and Pillar Mine
Alternative 5
Alternative 6
- 0.25 million tpy
- 4.2 million tons coal resource
- 3.0 million tons recoverable coal
- 773 mine acres
- 12 disturbed acres
Stream Impacts
  - 863 ft intermittent stream filled
  - 391 ft ephemeral stream filled

Legend
- Original Topography (20 ft Ctrs)
- Generated Streams (14.5 acre drainage)
- 100 ft stream offset
- Accessible Coal Boundary
- NO Mine Area
- High Extraction R&P Area
- Face-Up/Fill Boundary and Contours
- Refuse Impoundment
- Ephemeral/Intermittent Point
Central Appalachia Region
Underground Room and Pillar Mine
Alternative 7

- 0.25 million tpy
- 4.2 million tons coal resource
- 3.0 million tons recoverable coal
- 773 mine acres
- 12 disturbed acres
- Stream Impacts
  - 863 ft intermittent stream filled
  - 391 ft ephemeral stream filled

Legend
- Original Topography (20 ft Ctrs)
- Generated Streams (14.5 acre drainage)
- 100 ft stream offset
- Accessible Coal Boundary
- NO Mine Area
- High Extraction R&P Area
- Face-Up/Fill Boundary and Contours
- Refuse Impoundment
- Ephemeral/Intermittent Point

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Alternative 8
- 0.25 million tpy
- 4.2 million tons coal resource
- 3.0 million tons recoverable coal
- 773 mine acres
- 12 disturbed acres

Stream Impacts
- 863 ft intermittent stream filled
- 391 ft ephemeral stream filled

Legend
- Original Topography (20 ft Ctrs)
- Generated Streams
  (14.5 acre drainage)
- 100 ft stream offset
- Accessible Coal Boundary
- NO Mine Area
- High Extraction R&P Area
- Face-Up/Fill Boundary and Contours
- Refuse Impoundment
- Ephemeral/Intermittent Point

Central Appalachia Region
Underground Room and Pillar Mine
Alternative 8
Alternative 9
- 0.25 million tpy
- 4.2 million tons coal resource
- 3.0 million tons recoverable coal
- 773 mine acres
- 12 disturbed acres
- Stream Impacts
  - 863 ft intermittent stream filled
  - 391 ft ephemeral stream filled

Legend
- Original Topography (20 ft Ctrs)
- Generated Streams (14.5 acre drainage)
- 100 ft stream offset
- Accessible Coal Boundary
- NO Mine Area
- High Extraction R&P Area
- Face-Up/Fill Boundary and Contours
- Refuse Impoundment
- Ephemeral/Intermittent Point

Central Appalachia Region
Underground Room and Pillar Mine Alternative 9

Scale 1"=1500'