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
- 20 ft contours taken from USGS Seamless Server
- 1.4 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.

Legend
- Original Topography (20 ft Ctrs)
- Generated Ephemeral Streams (1.4 acre drainage)
- Intermittent Streams
- 100 ft stream offset
- Mineral Removal Area

Northern Appalachia Region
Underground Mine Pre-Mining
Alternative 1
- 4.6 million tpy
- 84.7 million tons coal resource
- 69.3 million tons recoverable coal
- 6,954 mine acres
- 145 disturbed acres
- Stream Impacts
  - 3,529 ft intermittent stream filled
  - 10,542 ft ephemeral stream filled

Legend
- Original Topography (20 ft Ctrs)
- Generated Ephemeral Streams (1.4 acre drainage)
- Intermittent Streams
- 100 ft stream offset
- Mineral Removal Area
- Longwall Panel
- Refuse Impoundment

Northern Appalachia Region
Underground Longwall Mine Alternative 1
Alternative 2
- 4.6 million tpy
- 84.7 million tons coal resource
- 69.3 million tons recoverable coal
- 6,954 mine acres
- 145 disturbed acres
- Stream Impacts
  - 3,529 ft intermittent stream filled
  - 10,542 ft ephemeral stream filled

Legend
- Original Topography (20 ft Ctrs)
- Generated Ephemeral Streams (1.4 acre drainage)
- Intermittent Streams
- 100 ft stream offset
- Mineral Removal Area
- Longwall Panel
- Refuse Impoundment

Northern Appalachia Region
Underground Longwall Mine
Alternative 2
Alternative 3

- 4.6 million tpy
- 84.7 million tons coal resource
- 69.3 million tons recoverable coal
- 6,954 mine acres
- 145 disturbed acres
- Stream Impacts
  - 3,529 ft intermittent stream filled
  - 10,542 ft ephemeral stream filled

Legend
- Original Topography (20 ft Ctrs)
- Generated Ephemeral Streams (1.4 acre drainage)
- Intermittent Streams
- 100 ft stream offset
- Mineral Removal Area
- Longwall Panel
- Refuse Impoundment

Northern Appalachia Region
Underground Longwall Mine Alternative 3

Scale 1"=2500'
Alternative 4
- 4.6 million tpy
- 84.7 million tons coal resource
- 69.3 million tons recoverable coal
- 6,954 mine acres
- 145 disturbed acres
- Stream Impacts
  - 3,592 ft intermittent stream filled
  - 10,542 ft ephemeral stream filled

Legend
- Original Topography (20 ft Ctrs)
- Generated Ephemeral Streams (1.4 acre drainage)
- Intermittent Streams
- 100 ft stream offset
- Mineral Removal Area
- Longwall Panel
- Refuse Impoundment
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Prepared By:

Legend

Alternative 5
- 4.6 million tpy
- 84.7 million tons coal resource
- 69.3 million tons recoverable coal
- 6,954 mine acres
- 145 disturbed acres
- Stream Impacts
  - 3,529 ft intermittent stream filled
  - 10,542 ft ephemeral stream filled

Region

Scale 1"=2500'

Northern Appalachia
Region
Underground
Longwall Mine
Alternative 5
Alternative 6
- 4.6 million tpy
- 84.7 million tons coal resource
- 69.3 million tons recoverable coal
- 6,954 mine acres
- 145 disturbed acres
- Stream Impacts
  - 3,529 ft intermittent stream filled
  - 10,542 ft ephemeral stream filled

Legend
- Original Topography (20 ft Ctrs)
- Generated Ephemeral Streams (1.4 acre drainage)
- Intermittent Streams
- 100 ft stream offset
- Mineral Removal Area
- Longwall Panel
- Refuse Impoundment

Northern Appalachia Region
Underground Longwall Mine Alternative 6
Alternative 7
- 4.6 million tpy
- 84.7 million tons coal resource
- 69.3 million tons recoverable coal
- 6,954 mine acres
- 145 disturbed acres
- Stream Impacts
  - 3,529 ft intermittent stream filled
  - 10,542 ft ephemeral stream filled

Legend
- Original Topography (20 ft Ctrs)
- Generated Ephemeral Streams (1.4 acre drainage)
- Intermittent Streams
- 100 ft stream offset
- Mineral Removal Area
- Longwall Panel
- Refuse Impoundment

Northern Appalachia Region
Underground Longwall Mine Alternative 7

Scale 1"=2500' 0 5000 feet
Alternative 8
- 4.6 million tpy
- 84.7 million tons coal resource
- 69.3 million tons recoverable coal
- 6,954 mine acres
- 145 disturbed acres
- Stream Impacts
  - 3,529 ft intermittent stream filled
  - 10,542 ft ephemeral stream filled

Region
Scale 1"=2500'

Legend
- Original Topography (20 ft Ctrs)
- Generated Ephemeral Streams (1.4 acre drainage)
- Intermittent Streams
- 100 ft stream offset
- Mineral Removal Area
- Longwall Panel
- Refuse Impoundment

Northern Appalachia Region
Underground Longwall Mine Alternative 8

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Alternative 9
- 4.6 million tpy
- 84.7 million tons coal resource
- 69.3 million tons recoverable coal
- 6,954 mine acres
- 145 disturbed acres
- Stream Impacts
  - 3,529 ft intermittent stream filled
  - 10,542 ft ephemeral stream filled

Legend
- Original Topography (20 ft Ctrs)
- Generated Ephemeral Streams (1.4 acre drainage)
- Intermittent Streams
- 100 ft stream offset
- Mineral Removal Area
- Longwall Panel
- Refuse Impoundment

Northern Appalachia Region
Underground Longwall Mine Alternative 9
Pre-Mining
- 20 ft contours taken from USGS Seamless Server
- 7 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.
- Google Maps and Virtual Earth were used to delineate intermittent and perennial points where mining would not typically occur.

Legend
- Original Topography (20 ft Ctrs)
- Generated Streams-Intermittent (1 sq mi drainage definition)
- Generated Streams-Ephemeral (7 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
Alternative 1
- 3.3 million tpy mined
- 92.2 million tons coal resource
- 9.8:1 mining ratio
- 3,311 disturbed acres
- Stream Impacts:
  - 163,326 ft ephemeral stream mined through
  - 20,107 ft intermittent stream mined through (greater than one square mile of drainage)
  - 11,605 ft hydrologically defined intermittent stream mined through

Legend
- Original Topography (20 ft Ctrs)
- Generated Streams-Intermittent (1 sq mi drainage definition)
- 100 ft stream offset
- Mineral Removal Area
- Hydrologically Defined Intermittent Streams
- Post-Mining Topography

Colorado Plateau Region
Surface Area Mine
Alternative 1
Alternative 2
- 3.3 million tpy mined
- 92.2 million tons coal resource
- 9.8:1 mining ratio
- 3,311 disturbed acres
- Stream Impacts:
  - 163,326 ft ephemeral stream mined through
  - 20,107 ft intermittent stream mined through (greater than one square mile of drainage)
  - 11,605 ft hydrologically defined intermittent stream mined through
Alternative 3
- 3.3 million tpy mined
- 92.2 million tons coal resource
- 9.8:1 mining ratio
- 3,311 disturbed acres
- Stream Impacts:
  - 163,326 ft ephemeral stream mined through
  - 20,107 ft intermittent stream mined through (greater than one square mile of drainage)
  - 11,605 ft hydrologically defined intermittent stream mined through

Legend
- Original Topography (20 ft Ctrs)
- Generated Streams-Intermittent (1 sq mi drainage definition)
- 100 ft stream offset
- Mineral Removal Area
- Hydrologically Defined Intermittent Streams
- Post-Mining Topography

Colorado Plateau Region
Surface Area Mine Alternative 3
Alternative 4

- 3.3 million tpy mined
- 92.2 million tons coal resource
- 9.8:1 mining ratio
- 3,311 disturbed acres

Stream Impacts:
- 163,326 ft ephemeral stream mined through
- 20,107 ft intermittent stream mined through (greater than one square mile of drainage)
- 11,605 ft hydrologically defined intermittent stream mined through

Legend

- Original Topography (20 ft Ctrs)
- Generated Streams-Intermittent (hydrologically defined)
- Mineral Removal Area
- Hydrologically Defined Intermittent Streams
- Post-Mining Topography

Colorado Plateau Region
Surface Area Mine Alternative 4
Alternative 5
- 3.3 million tpy mined
- 92.2 million tons coal resource
- 9.8:1 mining ratio
- 3,311 disturbed acres
- Stream Impacts:
  - 163,326 ft ephemeral stream mined through
  - 20,107 ft intermittent stream mined through (greater than one square mile of drainage)
  - 11,605 ft hydrologically defined intermittent stream mined through

Legend
- Original Topography (20 ft Ctrs)
- Generated Streams-Intermittent (1 sq mi drainage definition)
- 100 ft stream offset
- Mineral Removal Area
- Hydrologically Defined Intermittent Streams
- Post-Mining Topography

Colorado Plateau Region
Surface Area Mine
Alternative 5
Alternative 6
- 3.3 million tpy mined
- 92.2 million tons coal resource
- 9.8:1 mining ratio
- 3,311 disturbed acres
- Stream Impacts:
  - 163,326 ft ephemeral stream mined through
  - 20,107 ft intermittent stream mined through (greater than one square mile of drainage)
  - 11,605 ft hydrologically defined intermittent stream mined through

Legend
- Original Topography (20 ft Ctrs)
- Generated Streams-Intermittent (1 sq mi drainage definition)
- 100 ft stream offset
- Mineral Removal Area
- Hydrologically Defined Intermittent Streams
- Post-Mining Topography
Alternative 7
- 3.3 million tpy mined
- 92.2 million tons coal resource
- 9.8:1 mining ratio
- 3,311 disturbed acres
- Stream Impacts:
  - 163,326 ft ephemeral stream mined through
  - 20,107 ft intermittent stream mined through (greater than one square mile of drainage)
  - 11,605 ft hydrologically defined intermittent stream mined through

Legend
- Original Topography (20 ft Ctrs)
- Generated Streams-Intermittent (hydrologically defined)
- Mineral Removal Area
- Hydrologically Defined Intermittent Streams
- Post-Mining Topography
Alternative 8
- 3.3 million tpy mined
- 92.2 million tons coal resource
- 9.8:1 mining ratio
- 3,311 disturbed acres
- Stream Impacts:
  - 163,326 ft ephemeral stream mined through
  - 20,107 ft intermittent stream mined through (greater than one square mile of drainage)
  - 11,605 ft hydrologically defined intermittent stream mined through

Legend
- Original Topography (20 ft Ctrs)
- Generated Streams-Intermittent (hydrologically defined)
- Mineral Removal Area
- Hydrologically Defined Intermittent Streams
- Post-Mining Topography

Colorado Plateau
Region
Surface Area Mine
Alternative 8
Alternative 9
- 3.3 million tpy mined
- 92.2 million tons coal resource
- 9.8:1 mining ratio
- 3,311 disturbed acres

Stream Impacts:
- 163,326 ft ephemeral stream mined through
- 20,107 ft intermittent stream mined through (greater than one square mile of drainage)
- 11,605 ft hydrologically defined intermittent stream mined through

Legend
- Original Topography (20 ft Ctrs)
- Generated Streams-Intermittent (1 sq mi drainage definition)
- 100 ft stream offset
- Mineral Removal Area
- Hydrologically Defined Intermittent Streams
- Post-Mining Topography

Colorado Plateau Region
Surface Area Mine Alternative 9
Mineral Removal Area
100 ft stream offset
Region
Scale 1"=1800'
01800 feet

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Legend

Pre-Mining
• 50 ft contours taken from USGS Seamless Server
• 7 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.

Generated Streams-Intermittent
(1 sq mi drainage requirement)
Generated Streams-Ephemeral
(7 acre drainage)
Original Topography (50 ft Ctrs)
100 ft stream offset
Mineral Removal Area

Colorado Plateau Region
Underground Longwall Mine Pre-Mining
- Alternative 1
  - 3.0 million tpy
  - 27.9 million tons coal resource
  - 20.5 million tons recoverable coal
  - 2,188 mine acres
  - 44 disturbed acres
- Stream Impacts
  - 2,097 ft ephemeral stream impacts
  - 0 ft intermittent stream impacts

Legend
- Original Topography (50 ft Ctrs)
- Generated Streams-Intermittent (1 sq mi drainage requirement)
- Generated Streams-Ephemeral (7 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Longwall Panel
- Minimum Cover Area
- Refuse Impoundment

Colorado Plateau Region
Underground Longwall Mine Alternative 1

Scale 1"=1800'
0 1800 feet
Alternative 2

- 3.0 million tpy
- 27.9 million tons coal resource
- 20.5 million tons recoverable coal
- 2,188 mine acres
- 44 disturbed acres
- Stream Impacts
  - 2,097 ft ephemeral stream impacts
  - 0 ft intermittent stream impacts

Legend

- Original Topography (50 ft Ctrs)
- Generated Streams-Intermittent (1 sq mi drainage requirement)
- Generated Streams-Ephemeral (7 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Longwall Panel
- Minimum Cover Area
- Refuse Impoundment

Colorado Plateau Region
Underground Longwall Mine Alternative 2
Legend
- Original Topography (50 ft Cts)
- Generated Streams-Intermittent (1 sq mi drainage requirement)
- Generated Streams-Ephemeral (7 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Longwall Panel
- Minimum Cover Area
- Refuse Impoundment

Colorado Plateau Region
Underground Longwall Mine Alternative 3

Alternative 3
- 3.0 million tpy
- 27.9 million tons coal resource
- 20.5 million tons recoverable coal
- 2,188 mine acres
- 44 disturbed acres
- Stream Impacts
  - 2,097 ft ephemeral stream impacts
  - 0 ft intermittent stream impacts
Alternative 4
- 3.0 million tpy
- 27.9 million tons coal resource
- 20.5 million tons recoverable coal
- 2,188 mine acres
- 44 disturbed acres
- Stream Impacts
  - 2,097 ft ephemeral stream impacts
  - 0 ft intermittent stream impacts

Legend
- Original Topography (50 ft Ctrs)
- Generated Streams-Intermittent (1 sq mi drainage requirement)
- Generated Streams-Ephemeral (7 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Longwall Panel
- Minimum Cover Area
- Refuse Impoundment

Colorado Plateau Region
Underground Longwall Mine Alternative 4

Prepared By:
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Alternative 5

- 3.0 million tpy
- 27.9 million tons coal resource
- 20.5 million tons recoverable coal
- 2,188 mine acres
- 44 disturbed acres
- Stream Impacts
  - 2,097 ft ephemeral stream impacts
  - 0 ft intermittent stream impacts

Legend
- Original Topography (10 ft Cont)
- Generated Streams: Intermittent (1.24 ft drainage requirement)
- Generated Streams: Ephemeral (7 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Longwall Panel
- Minimum Cover Area
- Refuse Impoundment

Colorado Plateau Region
Underground Longwall Mine
Alternative 5

Scale 1:1800
0
1000 feet
Legend
- Original Topography (50 ft Ctrs)
- Generated Streams-Intermittent (1 sq mi drainage requirements)
- Generated Streams-Ephemeral (7 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Longwall Panel
- Minimum Cover Area
- Refuse Impoundment

Colorado Plateau Region
Underground Longwall Mine
Alternative 6

- Alternative 6
  - 3.0 million tpy
  - 27.9 million tons coal resource
  - 20.5 million tons recoverable coal
  - 2,188 mine acres
  - 44 disturbed acres
  - Stream Impacts
    - 2,097 ft ephemeral stream impacts
    - 0 ft intermittent stream impacts
Alternative 7
- 3.0 million tpy
- 27.9 million tons coal resource
- 20.5 million tons recoverable coal
- 2,188 mine acres
- 44 disturbed acres
- Stream Impacts
  - 2,097 ft ephemeral stream impacts
  - 0 ft intermittent stream impacts

Legend
- Original Topography (50 ft Cont)
- Generated Streams-Intermittent (1 sq mi drainage requirement)
- Generated Streams-Ephemeral (7 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Longwall Panel
- Minimum Cover Area
- Refuse Impoundment

Colorado Plateau Region
Underground Longwall Mine
Alternative 7
Alternative 8
- 3.0 million tpy
- 27.9 million tons coal resource
- 20.5 million tons recoverable coal
- 2,188 mine acres
- 44 disturbed acres
- Stream Impacts
  - 2,097 ft ephemeral stream impacts
  - 0 ft intermittent stream impacts

Legend
- Original Topography (50 ft Ctrs)
- Generated Streams-Intermittent (1 sq mi drainage requirement)
- Generated Streams-Ephemeral (7 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Longwall Panel
- Minimum Cover Area
- Refuse Impoundment

Colorado Plateau Region
Underground Longwall Mine Alternative 8

Scale 1"=1800' 0 feet
Mineral Removal Area
Generated Streams-Intermittent
Generated Streams-Ephemeral
Longwall Panel
100 ft stream offset

Region
Scale 1"=1800'

Colorado Plateau
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Prepared By:

Legend
- Original Topography (50 ft Ctrs)
- Generated Streams-Intermittent (1 sq mi drainage requirement)
- Generated Streams-Ephemeral (7 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Longwall Panel
- Minimum Cover Area
- Refuse Impoundment

Alternative 9
- 3.0 million tpy
- 27.9 million tons coal resource
- 20.5 million tons recoverable coal
- 2,188 mine acres
- 44 disturbed acres
- Stream Impacts
  - 2,097 ft ephemeral stream impacts
  - 0 ft intermittent stream impacts

Prepared By:
10 ft contours taken from USGS Seamless Server
21.8 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
- 3.3 million tpy mined
- 40.7 million tons coal resource
- 10.3:1 mining ratio
- 1,988 disturbed acres

Stream Impacts:
- 54,904 ft ephemeral stream mined through
- 12,611 ft hydrologically defined intermittent stream mined through

Legend
- Original Topography (10 ft Ctrs)
- Generated Streams-Intermittent (1 sq mi drainage definition)
- Generated Streams-Ephemeral (21.8 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography
Alternative 2
- 3.3 million tpy mined
- 40.7 million tons coal resource
- 10.3:1 mining ratio
- 1,988 disturbed acres
- Stream Impacts:
  - 54,904 ft ephemeral stream mined through
  - 12,611 ft hydrologically defined intermittent stream mined through
Alternative 3
- 3.3 million tpy mined
- 40.7 million tons coal resource
- 10.3:1 mining ratio
- 1,988 disturbed acres
- Stream Impacts:
  - 54,904 ft ephemeral stream mined through
  - 12,611 ft hydrologically defined intermittent stream mined through
Alternative 4
- 3.3 million tpy mined
- 40.7 million tons coal resource
- 10.3:1 mining ratio
- 1,988 disturbed acres
- Stream Impacts:
  - 54,904 ft ephemeral stream mined through
  - 12,611 ft hydrologically defined intermittent stream mined through

Legend
- Original Topography (10 ft Ctrs)
- Generated Streams-Ephemeral (21.8 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography
Alternative 5
- 3.3 million tpy mined
- 40.7 million tons coal resource
- 10.3:1 mining ratio
- 1,988 disturbed acres
- Stream Impacts:
  - 54,904 ft ephemeral stream mined through
  - 12,611 ft hydrologically defined intermittent stream mined through

Legend
- Original Topography (10 ft Ctrs)
- Generated Stream - Intermittent (1 sq mi drainage definition)
- Generated Stream - Ephemeral (21.8 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography
Alternative 6
- 3.3 million tpy mined
- 40.7 million tons coal resource
- 10.3:1 mining ratio
- 1,988 disturbed acres

Stream Impacts:
- 54,904 ft ephemeral stream mined through
- 12,611 ft hydrologically defined intermittent stream mined through

Legend
- Original Topography (10 ft Ctrs)
- Generated Stream-Intermittent (1 sq mi drainage definition)
- Generated Stream-Ephemeral (21.8 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography

Gulf Coast Region
Surface Area Mine
Alternative 6
Alternative 7
- 3.3 million tpy mined
- 40.7 million tons coal resource
- 10.3:1 mining ratio
- 1,988 disturbed acres
- Stream Impacts:
  - 54,904 ft ephemeral stream mined through
  - 12,611 ft hydrologically defined intermittent stream mined through
Alternative 8
- 3.3 million tpy mined
- 40.7 million tons coal resource
- 10.3:1 mining ratio
- 1,988 disturbed acres
- Stream Impacts:
  - 54,904 ft ephemeral stream mined through
  - 12,611 ft hydrologically defined intermittent stream mined through

Legend
- Original Topography (10 ft Ctrs)
- Generated Streams-Ephemeral (21.8 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography

Gulf Coast Region
Surface Area Mine
Alternative 8
Alternative 9
- 3.3 million tpy mined
- 40.7 million tons coal resource
- 10.3:1 mining ratio
- 1,988 disturbed acres
- Stream Impacts:
  - 54,904 ft ephemeral stream mined through
  - 12,611 ft hydrologically defined intermittent stream mined through

Legend
- Original Topography (10 ft Ctrs)
- Generated Streams-Intermittent (1 sq mi drainage definition)
- Generated Streams-Ephemeral (21.8 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography
Pre-Mining
- 10 ft contours taken from USGS Seamless Server
- 7.4 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.

Legend
- Original Topography (10 ft Ctrs)
- Generated Streams-Intermittent (hydraulically defined)
- Generated Streams-Ephemeral (7.4 acre drainage)
- 100 ft stream offset
- Mineral Removal Area

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Illinois Basin Region
Surface Area Mine
Pre-Mining
Alternative 1
- 1 million tpy mined
- 12 million tons coal resource
- 15.5:1 mining ratio
- 1,067 disturbed acres
- Stream Impacts:
  - 48,809 ft ephemeral stream mined through
  - 15,140 ft hydrologically defined intermittent stream mined through

Legend
- Original Topography (10 ft Ctrs)
- Generated Streams-Intermittent (hydraulically defined)
- Generated Streams-Ephemeral (7-4 acre drainages)
- 100 ft stream offset
- Mineral Removal Area
- Pre-Mining Topography

Illinois Basin Region
Surface Area Mine
Alternative 1
Legend

- Original Topography (10 ft Ctrs)
- Generated Streams-Intermittent (hydraulically defined)
- Generated Streams-Ephemeral (7.4 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography

Alternative 2
- 1 million tpy mined
- 12 million tons coal resource
- 15.5:1 mining ratio
- 1,067 disturbed acres
- Stream Impacts:
  - 48,809 ft ephemeral stream mined through
  - 15,140 ft hydrologically defined intermittent stream mined through

Illinois Basin Region
Surface Area Mine
Alternative 2
Alternative 3
- 1 million tpy mined
- 12 million tons coal resource
- 15.5:1 mining ratio
- 1,067 disturbed acres
- Stream Impacts:
  - 48,809 ft ephemeral stream mined through
  - 15,140 ft hydrologically defined intermittent stream mined through

Legend
- Original Topography (10 ft Ctrs)
- Generated Streams-Intermittent (hydraulically defined)
- Generated Streams-Ephemeral (7.4 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography

Illinois Basin Region
Surface Area Mine
Alternative 3
Alternative 4
- 1 million tpy mined
- 12 million tons coal resource
- 15.5:1 mining ratio
- 1,067 disturbed acres
- Stream Impacts:
  - 48,809 ft ephemeral stream mined through
  - 15,140 ft hydrologically defined intermittent stream mined through

Legend
- Original Topography (10 ft Ctrs)
- Generated Streams-Intermittent (hydraulically defined)
- Generated Streams-Ephemeral (7.4 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography

Illinois Basin Region
Surface Area Mine
Alternative 4
Alternative 5
- 1 million tpy mined
- 12 million tons coal resource
- 15.5:1 mining ratio
- 1,067 disturbed acres
- Stream Impacts:
  - 48,809 ft ephemeral stream mined through
  - 15,140 ft hydrologically defined intermittent stream mined through
Alternative 6
- 1 million tpy mined
- 12 million tons coal resource
- 15.5:1 mining ratio
- 1,067 disturbed acres
- Stream Impacts:
  - 48,809 ft ephemeral stream mined through
  - 15,140 ft hydrologically defined intermittent stream mined through

Legend
- Original Topography (10 ft Ctrs)
- Generated Streams-Intermittent (hydraulically defined)
- Generated Streams-Ephemeral (7.4 acre drainages)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography

Illinois Basin Region
Surface Area Mine
Alternative 6
Alternative 7

- 1 million tpy mined
- 12 million tons coal resource
- 15.5:1 mining ratio
- 1,067 disturbed acres
- Stream Impacts:
  - 48,809 ft ephemeral stream mined through
  - 15,140 ft hydrologically defined intermittent stream mined through

Legend

- Original Topography (10 ft Ctrs)
- Generated Streams-Intermittent (hydraulically defined)
- Generated Streams-Ephemeral (7± 4-acre drainages)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography

Illinois Basin Region
Surface Area Mine
Alternative 7
Alternative 8
- 1 million tpy mined
- 12 million tons coal resource
- 15.5:1 mining ratio
- 1,067 disturbed acres
- Stream Impacts:
  - 48,809 ft ephemeral stream mined through
  - 15,140 ft hydrologically defined intermittent stream mined through

Legend
- Original Topography (10 ft Ctrs)
- Generated Streams-Intermittent (hydraulically defined)
- Generated Streams-Ephemeral (7.4 acre drainage)
- 100 ft stream offset
- Mineral Removal Area
- Post-Mining Topography
Alternative 9
- 1 million tpy mined
- 12 million tons coal resource
- 15.5:1 mining ratio
- 1,067 disturbed acres
- Stream Impacts:
  - 48,809 ft ephemeral stream mined through
  - 15,140 ft hydrologically defined intermittent stream mined through