

 Ninety-Eighth (98th) Annual Report of the

Maryland Bureau of Mines

 -2019-

Prepared by:

Land and Materials Administration

Mining Program

Prepared for:

Larry Hogan, Governor

State of Maryland

Boyd K. Rutherford, Lt. Governor

State of Maryland

Bill Ferguson., Senate President

Maryland General Assembly

Adrienne A. Jones, House Speaker

Maryland General Assembly

 Senate Education, Health, and Environmental Affairs Committee

House Environment and Transportation Matters Committee

MARYLAND DEPARTMENT OF THE ENVIRONMENT

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**EXECUTIVE SUMMARY**

This report is published by the Maryland Department of Environment (MDE), in accordance with the Environment Article, Annotated Code of Maryland, §15-203(g) and §15-827, covering coal mine operations.

During CY19, Maryland operators produced 1.68 million tons of coal. Surface coal mining production totaled 0.57 million tons in Allegany County and 0.24 million tons in Garrett County. Deep coal mining production totaled 0.86 million tons, all in Garrett County.

The Maryland Department of Environment’s Bureau of Mines received 43 coal mine permit applications and approved 45 permitting actions, including one original permit and one significant amendment. Included in the permitting actions were 21 operator’s license renewals. Other permit actions included modifications, transfers, and prospecting permits.

Seventy-three acres were affected, 81 acres rough backfilled, and 81 acres planted.

Seven hundred forty-three inspections were conducted on coal mining operations. Eight notices of violation were issued. Seven citizen Complaints were received and investigated and one cessation order was issued. There were no Permit Revocations or bond forfeitures during this calendar year.

The Land Reclamation Committee (Committee) met two times and approved three reclamation plans. The Committee also evaluated the revegetation on 303 acres eligible for Phase II bond release and approved 230 acres as meeting the standards for release. There was one reclamation plan change during the year.

**SUMMARY OF STATISTICS FOR THE CY 2019**

**REPORT OF THE MARYLAND BUREAU OF MINES**

Coal production in Maryland during 2019 totaled 1,680,143.89 tons. Production in 2019 represents a decrease of 62,472.58 tons from the 2018 production of 1,472,616.47 tons.

 **SUMMARY OF 2019** **STATISTICS1**

**COAL PRODUCTION (TONS)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Mining****Method** | **Allegany****County** | **Garrett****County** | **Total** |
| **Strip** | 572,048.44 |     243,895.56 | 815,944.00 |
| **Deep** |                    .00 |     864,199.89 | 864,199.89 |
| **Auger** |                    .00 |                         .00 |                    .00 |
| **TOTALS** | 572,048.44 | 1,108,095.45 |              1,680,143.89 |

 **EMPLOYEES2**

|  |  |  |  |
| --- | --- | --- | --- |
| **Type of****Mine** | **Allegany****County** | **Garrett****County** | **Total** |
| **Deep****Strip** | 080 | 10063 | 100143 |
| **TOTALS** | 80 | 163 | 243 |

1Obtained from reports submitted by Maryland mining operators.

2These figures do not include office, supervisors, or independent truck haulers.

 **TONNAGE BY COAL SEAMS, COUNTY, AND BASIN**

 **ALLEGANY COUNTY**

Waynesburg . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 3,075.49

Sewickley . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 12,313.64

Redstone . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 203,478.94

Pittsburgh . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 233,384.65

Morantown . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 21,278.27

L. Pittsburgh . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 58,668.79

Franklin . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

Harlem . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

Bakerstown . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

Freeport . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2,168.45

Tyson . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 37,680.21

Borden . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

Barton . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

 **TOTAL . . . . . . . . . .. . . . . . . . . . . 572,048.44**

**GARRETT COUNTY**

Sewickley . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ... 35,877.68

Pittsburgh . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 34,125.08

Morantown . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 25,490.83

L. Pittsburgh . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 33,122.23

Franklin . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 25,216.43

Barton . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 62,737.07

Harlem . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

Bakerstown . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 20,493.38

Freeport . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 61,873.00

Upper Kittanning . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

Middle Kittanning . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

Redstone . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 9,159.75

Tyson . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

Waynesburg . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

 **TOTAL . . . . . . . . . . . . . . . . . . . . 1,108,095.45**

**TONNAGE BY BASIN**

Lower Youghiogheny . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

Upper Youghiogheny . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

Casselman . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 861,873.00

Casselman-Cherry Creek . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 0.00

Potomac . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 12,109.19

George's Creek . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 806,161.70

 **TOTAL . . . . . . . . . . . . . . . . . . . 1,680,143.89**

|  |
| --- |
| **2019 COAL PRODUCTION, MINING, AND RECLAMATION STATISTICS BY PERMIT****FOR ALLEGANY & GARRETT COUNTIES\*** |
|  |  |  |  |  |  |  |  |  |  |
|  | \*This table includes all permits on which there was production, mining, backfilling, or planting activity. This table does not include permits on which all bonds have been released or forfeited; or permits on which bonds are still held but no production or mining or reclamation activity occurred. |  |
|  |
|  |  |  |  |  |  |  |  |  |  |
|  |  **ALLEGANY COUNTY** |  |
|  |  |  |  |  |  |  |   |   |   |
|  |  |  PRODUCTION (TONS) |  |  |  |
| Operator | Permit Number | Total Tonnage Mined by Permit | Coal Seam | Deep | Strip | Auger |  |  |  |
| ARJ Construction | 464 | 2,168.45 | Freeport |  | 2,168.45 |  |  |  |  |
| Beechwood Coal, LLC | 359 | 0.00 | Pittsburgh |  | 0.00 |  |  |  |  |
|  |  |  | Morantown |  | 0.00 |  |  |  |  |
|  |  |  | Redstone |  | 0.00 |  |  |  |  |
|  | 393 | 143,120.54 | Pittsburgh |  | 55,540.67 |  |  |  |  |
|  |  |  | Redstone |  | 73,400.03 |  |  |  |  |
|  |  |  | Morantown |  | 10,829.12 |  |  |  |  |
|  |  |  | Tyson |  | 3,350.72 |  |  |  |  |
|  | 439 | 219,340.60 | Bakerstown |  | 0.00 |  |  |  |  |
|  |  |  | Tyson |  | 34,122.01 |  |  |  |  |
|  |  |  | Sewickley |  | 12,313.64 |  |  |  |  |
|  |  |  | Pittsburgh |  | 101,312.13 |  |  |  |  |
|  |  |  | Waynesburg |  | 0.00 |  |  |  |  |
|  |  |  | Redstone |  | 71,592.82 |  |  |  |  |
|  |  |  | Morantown |  | 0.00 |  |  |  |  |
|  | 442 | 3,075.49 | Waynesburg |  | 3,075.49 |  |  |  |  |
|  | 451 | 35,762.62 | Redstone |  | 35,762.62 |  |  |  |  |
|  | 457 | 0.00 | Pittsburgh |  | 0.00 |  |  |  |  |
|  |  |  | Redstone |  | 0.00 |  |  |  |  |
|  |  |  |  Morantown | 0.00 |  |  |  |  |
|  |  |  |  Tyson | 0.00 |  |  |  |  |
|  | 462 | 0.00 |  Redstone | 0.00 |  |  |  |  |
|  |  |  | Pittsburgh |  | 0.00 |  |  |  |  |
|  |  |  | Tyson |  | 0.00 |  |  |  |  |
| C & S Coal | 456 | 2,721.90 | Pittsburgh |  | 2,721.90 |  |  |  |  |
|  |  |  | Redstone |  | 0.00 |  |  |  |  |
| Cobra Mining | 437 | 28,698.03 | Pittsburgh |  | 27,357.06 |  |  |  |  |
|  |  |  | Morantown |  | 397.47 |  |  |  |  |
|  |  |  | Redstone |  | 943.50 |  |  |  |  |
| G & S Coal | 440 | 0.00 | Little Pittsburgh |  | 0.00 |  |  |  |  |
|  |  |  | Pittsburgh |  | 0.00 |  |  |  |  |
|  |  |  | Morantown |  | 0.00 |  |  |  |  |
|  |  |  | Franklin |  | 0.00 |  |  |  |  |
| Tri-Star Mining | 419 | 0.00 | Pittsburgh |  | 0.00 |  |  |  |  |
|  |  |  | Little Pittsburgh |  | 0.00 |  |  |  |  |
|  |  |  | Morantown |  | 0.00 |  |  |  |  |
|  |  |  | Redstone |  | 0.00 |  |  |  |  |
|  |  |  |  Sewickley | 0.00 |  |  |  |  |
|  |  |  | Waynesburg |  | 0.00 |  |  |  |  |
|  | 436 | 111,410.30 | Franklin |  | 0.00 |  |  |  |  |
|  |  |  | Little Pittsburgh |  | 58,668.79 |  |  |  |  |
|  |  |  | Pittsburgh |  | 36,677.62 |  |  |  |  |
|  |  |  | Morantown |  | 10,005.72 |  |  |  |  |
|  |  |  | Redstone |  | 6,058.17 |  |  |  |  |
|  |  |  | Sewickley |  | 0.00 |  |  |  |  |
| Walker Bros. Mining, Inc. | 453 | 25,750.51 | Pittsburgh |  | 9775.27 |  |  |  |  |
|  |  |  | Morantown |  | 45.96 |  |  |  |  |
|  |  |  | Redstone |  | 15,721.80 |  |  |  |  |
|  |  |  | Tyson |  | 207.48 |  |  |  |  |
| **TOTAL ALLEGANY COUNTY** |  **572,048.44** | **572,048.44** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | **GARRETT COUNTY** |  |
| Operator | Permit Number |  PRODUCTION (TONS) |  |  |  |
| Total Tonnage Mined by Permit | Coal Seam | Deep | Strip | Auger |  |  |  |
| ARJ Construction | DM111 | 2.326.89 | Barton | 2,326.89 |  |  |  |  |  |
|  | DM114 | 0.00 | Lower Bakerstown | 0.00 |  |  |  |  |  |
|  | 463 | 19,756.08 | Lower Bakerstown |  | 19,756.08 |  |  |  |  |
| G & S Coal Company, Inc. | 421 | 11,371.89 | Franklin |  | 11,371.89 |  |  |  |  |
|  | 435 | 0.00 | Bakerstown |  | 0.00 |  |  |  |  |
|  |  |  | Barton |  | 0.00 |  |  |  |  |  |
|  |  |  | Harlem |  | 0.00 |  |  |  |  |  |
|  | 454 | 737.30 | Barton |  | 0.00 |  |  |  |  |  |
|  |  |  | Harlem |  | 0.00 |  |  |  |  |  |
|  |  |  | Bakerstown |  | 737.30 |  |  |  |  |  |
|  | 455 | 0.00 | Harlem |  | 0.00 |  |  |  |  |  |
| MER, LLC | DM113 | 861,873.00 | Upper Freeport | 861,873.00 |  |  |  |  |  |  |
| Pine Mountain Coal Company | 424 | 3,562.48 | Pittsburgh |  | 760.96 |  |  |  |  |  |
|  |  |  | Morantown |  | 0.00 |  |  |  |  |  |
|  |  |  | Redstone |  | 0.00 |  |  |  |  |  |
|  |  |  | Franklin |  | 2,801.52 |  |  |  |  |  |
| Savage Mountain Minerals, Inc. | 445 | 0.00 | Little Pittsburgh |  | 0.00 |  |  |  |  |  |
|  | 446 | 18,792.47 | Sewickley |  | 18,792.47 |  |  |  |  |  |
|  |  |  | Morantown |  | 0.00 |  |  |  |  |  |
|  |  |  | Pittsburgh |  | 0.00 |  |  |  |  |  |
|  | 448 | 11.043.02 | Barton |  | 0.00 |  |  |  |  |  |
|  |  |  | Pittsburgh |  | 0.00 |  |  |  |  |  |
|  |  |  | Franklin |  | 11,043.02 |  |  |  |  |  |
|  | 461 | 7,007.40 | Barton |  | 7,007.40 |  |  |  |  |  |
| Tri-Star Mining, Inc. | 419 | 171,624.92 | Pittsburgh |  | 33,364.12 |  |  |  |  |  |
|  |  |  | Little Pittsburgh |  | 33,122.23 |  |  |  |  |  |
|  |  |  | Redstone |  | 9,159.75 |  |  |  |  |  |
|  |  |  | Morantown |  | 25,490.83 |  |  |  |  |  |
|  |  |  | Barton |  | 53,402.78 |  |  |  |  |  |
|  |  |  | Sewickley |  | 17,085.21 |  |  |  |  |  |
| **TOTAL GARRETT COUNTY** |  | **1,108,095.45** |  | **864,199.89** | **243,895.56** |  |  |  |  |  |
| **TOTAL BOTH COUNTIES** |  | **1,680,143.89** |  | **864,199.89** | **815,944.00** |  |  |  |  |  |

|  |
| --- |
| **2019 SUMMARY OF ACRES PERMITTED, MINED, BACKFILLED, PLANTED, AND RELEASED** |
| **Allegany County** |  |  |  |  |  |  |  |
| **Georges Creek Basin** |  |  |  |  |  |  |  |
| **Mining Company** | **Permit** | **Acres Permitted** | **Affected Acres** | **Backfilled Acres** | **Planted Acres** | **Released Acres** |  |
| **Ritchie Trucking & Excavating** | 40 | 0 | 0 | 0 | 0 | 0 |  |
| **Beechwood Coal, LLC** | 359 | 0 | 0 | 0 | 0 | 0 |  |
| **Beechwood Coal, LLC** | 393 | 0 | 19 | 19 | 19 | 0 |  |
| **Beechwood Coal, LLC** | 403 | 0 | 0 | 0 | 0 | 72 |  |
| **Tri-Star Mining, Inc.** | 419 | 0 | 12 | 18 | 18 | 6 |  |
| **Vindex Energy, LLC** | 432 | 0 | 0 | 14 | 14 | 35 |  |
| **Tri-Star Mining, Inc.** | 436 | 0 | 5 | 20 | 20 | 6 |  |
| **Cobra Mining** | 437 | 0 | 5 | 5 | 5 | 0 |  |
| **Beechwood Coal, LLC** | 439 | 0 | 4 | 4 | 4 | 0 |  |
| **G&S Coal Company, Inc.** | 440 | 0 | 0 | 0 | 0 | 0 |  |
| **Beechwood Coal, LLC** | 442 | 0 | 4 | 0 | 0 | 0 |  |
| **Beechwood Coal, LLC** | 447 | 0 | 0 | 0 | 0 | 0 |  |
| **Beechwood Coal, LLC** | 451 | 0 | 13 | 0 | 0 | 0 |  |
| **Walker Brothers Mining** | 453 | 0 | 0 | 0 | 0 | 0 |  |
| **C & S Coal Company** | 456 | 0 | 3 | 1 | 1 | 0 |  |
| **Beechwood Coal, LLC** | 457 | 0 | 0 | 0 | 0 | 0 |  |
| **Beechwood Coal, LLC** | 462 | 0 | 0 | 0 | 0 | 0 |  |
| **ARJ Construction Company** | 464 | 5 | 8 | 0 | 0 | 0 |  |
| **Allegany County****Georges Creek Basin Total** |  | **5** | **73** | **81** | **81** | **119** |  |
|  |  |  |  |  |  |  |  |
| **Garrett County** |  |  |  |  |  |  |  |
| **Georges Creek Basin** |  |  |  |  |  |  |  |
| **Mining Company** | **Permit** | **Acres Permitted** | **Affected Acres** | **Backfilled Acres** | **Planted Acres** | **Released Acres** |  |
| **ARJ Construction Company** | DM-111 | 0 | 0 | 0 | 0 | 0 |  |
| **Pine Mountain Coal Company** | 424 | 0 | 1 | 1 | 1 | 0 |  |
| **Savage Mountain Minerals** | 445 | 0 | 0 | 0 | 0 | 0 |  |
| **Savage Mountain Minerals** | 446 | 31 | 0 | 28 | 28 | 0 |  |
| **Savage Mountain Minerals** | 448 | 0 | 0 | 0 | 0 | 0 |  |
| **Savage Mountain Minerals** | 461 | 0 | 0 | 0 | 0 | 0 |  |
| **ARJ Construction Company** | 463 | 0 | 4 | 33 | 33 | 0 |  |
| **Garrett County****Georges Creek Basin Total** |  | **31** | **5** | **62** | **62** | **0** |  |
| **Garrett + Allegany County   Georges Creek Basin Total** |  | **36** | **78** | **143** | **143** | **119** |  |
|  |  |  |  |  |  |  |  |
| **Potomac River Basin** |  |  |  |  |  |  |  |
| **Mining Company** | **Permit** | **Acres Permitted** | **Affected Acres** | **Backfilled Acres** | **Planted Acres** | **Released Acres** |  |
| **Mettiki Coal, LLC** | 101 | 0 | 0 | 0 | 0 | 0 |  |
| **Backbone Mountain, LLC** | 112 | 0 | 0 | 0 | 0 | 0 |  |
| **G&S Coal Company, Inc.** | 421 | 0 | 10 | 16 | 16 | 0 |  |
| **G&S Coal Company, Inc.** | 435 | 0 | 0 | 19 | 19 | 0 |  |
| **G&S Coal Company, Inc.** | 441 | 0 | 0 | 3 | 3 | 0 |  |
| **Vindex Energy, LLC** | 443 | 0 | 0 | 0 | 0 | 146 |  |
| **G&S Coal Company, Inc.** | 454 | 0 | 0 | 0 | 0 | 0 |  |
| **G&S Coal Company, Inc.** | 455 | 0 | 0 | 8 | 8 | 0 |  |
| **Vindex Energy, LLC** | 459 | 0 | 15 | 0 | 0 | 0 |  |
| **Potomac Basin Total** |  |  **0** | **25** | **46** | **46** | **146** |  |
|  |  |  |  |  |  |  |  |
| **Casselman Basin** |  |  |  |  |  |  |  |
| **Mining Company** | **Permit** | **Acres Permitted** | **Affected Acres** | **Backfilled Acres** | **Planted Acres** | **Released Acres** |  |
| **Maryland Energy Resources** | DM-113 | 0 | 0 | 0 | 0 | 0 |  |
| **Casselman Basin Total** |  | **0** | **0** | **0** | **0** | **0** |  |
|  |  |  |  |  |  |  |  |
| **Youghiogheny River Basin** |  |  |  |  |  |  |  |
| **Mining Company** | **Permit** | **Acres Permitted** | **Affected Acres** | **Backfilled Acres** | **Planted Acres** | **Released Acres** |  |
| **LAOC Corporation** | 460 | 0 | 0 | 0 | 0 | 0 |  |
| **Youghiogheny Basin Total** |  | **0** | **0** | **0** | **0** | **0** |  |
|  |  |  |  |  |  |  |  |
| **All Garrett County Basins Total** |  | **31** | **30** | **108** | **108** | **146** |  |
|  |  |  |  |  |  |  |  |
| **All Allegany and Garrett County Basins Total** |  | **36** | **103** | **189** | **189** | **265** |  |
|  |  |  |  |  |  |  |  |

 **Acres Mined, Backfilled, Planted, and Released**

 **By Geological Basin**

****

**Acres Reported in 2019 Annual Mining and Progress Reports**

**Cumulative Acres from January 1, 1975 – December 31, 2019**



|  |
| --- |
| **2019 PERMITTING ACTIVITY** |
| **Type of****Application** | **Surface****Mines** | **Underground****Mines** | **Other****Facilities** | **Totals** |
| App.Rec. | Issued | Acres | App.Rec. | Issued | Acres | App.Rec. | Issued | Acres | App.Rec. | Issued | Acres |  |
| **Original Permits****Permit Increments****Incidental Boundary Revisions****Significant Amendments****Insignificant Amendments****Transfers****Renewals****Prospecting Permits****Prospecting****Letter of Intent****Operator License****Original****Operator License****Renewals** | 0211161702018 | 1111171603018 | 531022 | 00218010003 | 01208020003 | 0000 | 00001000000 | 00001000000 | 0000 | 0232251802021 | 1231261803021 | 531022 |  |
|  |  |  |  |  |
| **Totals** | **48** | **49** | **58** | **15** | **16** | **0** | **1** | **1** | **0** | **64** | **66** | **58** |  |

 **MINE FOREMAN AND FIRE BOSS**

 **EXAMINATIONS AND CERTIFICATIONS**

Mine Foreman and Fire Boss applicants examined and certified from 2015 through 2019

|  |  |  |
| --- | --- | --- |
| **YEAR** | **APPLICANTS EXAMINED** **Mine Foreman                             Fire Boss** | **APPLICANTS CERTIFIED** **Mine Foreman                           Fire Boss** |
| 2019 | 0                                                       0 |  0                                            0 |
| 2018 |  0                                                       0 |  0                                                  0 |
| 2017 |  19                                                      1 | 19                                                 1 |
| 2016 | 0                                                       0 |  0                                              0 |
| 2015 |  15                                                     0 | 15                                                 0 |

 **INSPECTION AND ENFORCEMENT ACTIVITIES**

 **2015-2019**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **TYPE OF ACTION** | **2015** | **2016** | **2017** | **2018** | **2019** |
| Inspections | 865 | 768 | 770 | 808 | 743 |
| Notices of Violations | 19 | 15 | 7 | 4 | 8 |
| Cessation Orders | 5 | 6 | 0 | 0 | 1 |
| Citizen Complaints | 26 | 18 | 15 | 11 | 7 |
| Bond Forfeitures | 0 | 1 | 0 | 0 | 0 |

**LAND RECLAMATION COMMITTEE**

                 The following members served on the Land Reclamation Committee during 2019:

DEPARTMENT OF THE ENVIRONMENT REPRESENTATIVES:

Ed Larrimore, Chairman, MDE Land and Materials Administration

John E. Carey, MDE Bureau of Mines

DEPARTMENT OF NATURAL RESOURCES REPRESENTATIVES:

George Eberling, Forestry Division

Alan Klotz, Freshwater Fisheries

Rande Brown, Wildlife Division

CITIZEN REPRESENTATIVES:

Michael Beard, Garrett County

Bill Pegg, Allegany County

COUNTY REPRESENTATIVES:

Jeff Barclay, Allegany County

Gary Aronhalt, Garrett County

SOIL CONSERVATION DISTRICT REPRESENTATIVES:

Adam Heavner, Allegany Soil Conservation District

Roger Kitzmiller Garrett Soil Conservation District

COAL INDUSTRY REPRESENTATIVES:

Tim Schwinabart

Raymond Tighe

**LAND RECLAMATION COMMITTEE FUNCTIONS AND DUTIES**

The Land Reclamation Committee (Committee) is responsible for the approval of all reclamation plans submitted, as part of an application for a coal mining permit. The committee also oversees land reclamation activities on surface coal mining operations in Maryland.

The Land Reclamation Committee visits proposed and active mining sites to:

(1) Determine the suitability of proposed reclamation plans;

(2) Review mining and reclamation progress; and

(3) Evaluate the success of revegetation practices.

During 2019, the Land Reclamation Committee conducted site visits on four days. These visits included field reviews of three proposed mining sites and 13 revegetation sites to evaluate the success of the revegetation.

 The Land Reclamation Committee conducts meetings to:

 1. Review and approve reclamation plans;

 2. Review reclamation progress on active mining permits;

 3. Evaluate the revegetation on areas eligible for Phase II bond release;

 4. Review the surface coal mining laws, regulations and policies and recommend

 changes to improve effectiveness of the Maryland Regulatory program; and

 5.  Recommend research and cost-sharing projects to promote optimum

 revegetation of mine lands.

During 2019, the Land Reclamation Committee met two times. During these meetings, the Land Reclamation Committee approved three reclamation plans for new mining areas. They also evaluated 303 acres of revegetation eligible for Phase II bond release and approved 230 acres as meeting the standards for release. There was one reclamation plan change during the year.

|  |
| --- |
| **Reclamation Results of Surface Mined Lands 2019** |
| **Bond Release Phase** | **Applicable Performance Standard** | **Acreage Released** |
| **Phase I** | * Area restored to Approximate Original Contour
* Topsoil replaced
* Area seeded and mulched
* Completion of all reclamation work on the permit or the open acre limit is reduced
 | 74 |
| **Phase II** | * Revegetation established in accordance with approved reclamation plan and standards for success of revegetation met
* The lands are not contributing suspended solids to stream flow or runoff outside the permit area
* Temporary drainage control structures are removed or all permanent structures are inspected and approved
* Land Reclamation Committee has inspected and approved the revegetation on the area
 | 211 |
| **Phase III** | * Post-mining land use/productivity restored
* Successful permanent vegetation established
* Groundwater recharge, quality and quantity restored
* Surface water quality and quantity restored
* Applicable bond liability period has expired
 | 331 |

  **2019 RECLAMATION AWARD**

**Permit SM-04-445 Savage Mountain Minerals**

**Permit SM-12-460 LAOC Corporation**

The CommitteeLRC in conjunction with the Bureau of Mines awarded two reclamation awards for 2019. Awards are presented annually for reclaimed coal mines that show excellence in reclamation. Both award sites had been previously disturbed by mining operations leaving little topsoil available to restore the sites following mining. Careful salvage and redistribution of the limited topsoil along with sound revegetation practices have produced quality reclamation sites. These now blend well with their surroundings and can be productive to serve as pasture or other land uses.

**Past Reclamation Award Winners\***

**Year** **Name of Company**             **Permit**

1984 Bridgeview Coal Company 356

1985 Brashear Coal Company 264

1986 Buffalo Coal Company 366

1987 Delta Mining, Inc. 345

1988 Beener Coal Company 143

1989 Brashear Coal Company 264

1990 Action Mining Company 394

1991 Patriot Mining Company 406

1992 S & G Coal Company 348

1993 Buffalo Coal Company 215

1994 G & S Coal Company 365

1995 John Duckworth Coal    372

1996 Buffalo Coal Company 409

1997 Tri Star Mining Inc. 418

1998 G & S Coal Company 325

1999 Buffalo Coal Company 409

2000 Winner Bros. Coal Company 286

2001 Clise Coal Company 315

2002 Win-More Mining 273

2003 Pine Mountain Coal Company 420

2004 G & S Coal Company 365

2005 Mountaineer Mining Corp. 438

2006 Winner Brothers Coal Company 385

2007 Tri Star Mining Inc 429

2008 Cobra Mining, Inc. 184

2009 Vindex Energy Corporation 338

2010      Clise Coal Company Inc. 213

2011      Mettiki Coal, LLC 428

2012      Tri-Star Mining, Inc. 434

2013 Vindex Energy Corporation 431

2014 Tri-Star Mining, Inc. 419

2015 Beechwood Coal, LLC 403

2016 Ritchie Trucking and Excavating, Inc. 040

2017 Vindex Energy, LLC 427

2018 Beechwood Coal, LLC 451

\*Each year the Land Reclamation Committee selects a coal mining operation that has achieved outstanding reclamation on a permit site. The award is presented by the Committee.

 **MINING PERMITS ISSUED BY YEAR AND PERMITTEE**

Permit Year

No. Issued Permittee

1 1955 The George's Creek Lumber Company\*

2 1955 Allegany Engineering Company\*

3 1955 B.M.W. Coal Company\*

4 1955 Old Hampshire Coal Company, Inc.\*

5 1955 Car and Glotfelty Construction Co.\*

6 1955 M.H. Bigan Coal Company\*

7 1955 Moran Coal Company\*

8 1955 Allegany Engineering Company\*

9 1955 Schell Mining Company, Inc.\*

10 1955 B & U Coal Company\*

11 1955 Morgan Contracting Company\*\*

12 1955 Romadale Coal Corporation\*

13 1955 Cross Fuel Company\*

14 1955 Highland Construction Company\*

15 1955 Phoenix Big Vein Coal Company (Repermitted 338) \*

16 1955 Moran Coal Company\*

17 1955 T.J. Cramblett\*\*

18 1955 Moscow-Georges Creek Coal Company\*

19 1955 J.R. Thrasher Contracting & Stripping Co.\*

20 1956 Moran Coal Company (Repermitted 333) \*

21 1956 Schell Mining Company, Inc.\*\*

22 1956 Savage Coal Company\*

23 1956 Moran Coal Company\*

24 1956 The Georges Creek Coal & Land Co.\*

25 1957 Charles T. Clise\*

26 1957 Allegany Engineering Company\*

27 1957 Goodwill Fuel Company\*

28 1957 D.B.&B. Coal Company\*

29 1957 Queen George's Creek Coal Company\*\*

30 1957 Mack Coal Company\*\*

31 1957 White Crest Coal Company, Inc.\*\*

32 1957 D.B.&B. Coal Company\*

33 1957 Moran Coal Company\*

34 1957 Chelsie A. Liller\*

35 1957 J.E. George Trucking Company\*\*

36 1957 D.B.&B. Coal Company\*

37 1957 J&M. Coal Company\*\*

38 1957 Casey Construction Company\*\*

39 1958 Moran Coal Company\*

40 1958 United Energy Coal, Inc. \*\*

41 1958 Buffalo Coal Company, Inc.\*

42 1958 Casey Construction Company\*\*

43 1958 Sara-Ki Coal Company, Inc.\*

 44 1958 Yantus & Zubek Coal Company\*

 45 1958 Moran Coal Company\*

 46 1958 Casey Construction Company\*\*

 47 1958 Moran Coal Company\*

 48 1958 Moran Coal Company\*

 49 1958 Sara-Ki Coal Company, Inc.\*

 50 1958 Laurel Creek Company, Inc.\*\*

 51 1958 D.B.&B. Coal Company\*\*

 52 1958 Moon and Sons\*

 53 1959 George L. Smith Contracting Company\*

 54 1959 The Georges Creek Lumber Company\*

 55 1959 Moran Coal Company\*

 56 1959 North Branch Coal Corporation\*

 57 1959 George Coal Company\*\*

 58 1959 Samuel Compton & Company\*\*

 59 1959 Hoover & White\*

 60 1959 Laurel Creek Company, Inc.\*\*

 61 1959 The Eddy Fuel Company\*\*

 62 1959 J.R. Thrasher Contracting & Stripping Co.\*

 63 1959 Pittsburgh Coal Company\*

 64 1959 Mineral Coal Company, Inc., of West Virginia\*

 65 1959 Laurel Creek Company, Inc.\*

 66 1959 The Georges Creek Lumber Company\*

 67 1959 Chelsie A. Liller\*

 68 1959 Casey Contracting Company\*\*

 69 1959 Pine Mountain Coal Company\*

 70 1959 Opel and Brenneman\*

 71 1959 The Georges Creek Lumber Company\*

 72 1959 P.&J. Coal Company\*

 73 1959 Casey Contracting Company\*\*

 74 1959 Goodwill Fuel Company\*

 75 1959 D.B.&B. Coal Company\*

 76 1960 Baughman Contracting Company, Inc.\*

 77 1960 P&K Coal Company\*

 78 1960 Morgan Contracting Company\*

 79 1960 Buffalo Coal Company, Inc.\*

 80 1960 Buffalo Coal Company, Inc.\*

 81 1960 Randall Robertson\*

 82 1960 Hoover & White\*\*

 83 1960 James E. George\*

 84 1960 B.M.W. Coal Company, Inc.\*

 85 1960 Casey Contracting Company\*\*

 86 1960 Beener Coal Company\*

 87 1960 Moran Coal Company, Inc.\*

 88 1960 D&K Coal Company\*

 89 1960 Brenneman Brothers\*

 90 1960 Mack Coal Company\*

 91 1960 Clarence Rodamar\*

 92 1960 James E. George\*

 93 1961 Casey Contracting Company\*\*

 94 1961 Winner Brothers\*

 95 1961 Moran Coal Company, Inc.\*

 96 1961 Big Vein Coal Company\*

 97 1961 Maryland Fuel Company, Inc.\*

 98 1961 Yantus-Zubek Coal Company\*

 99 1961 J.R. Thrasher Contracting & Stripping Co.\*

100 1961 Trefall Bros., Inc.\*

101 1961 Mack Coal Company\*

102 1961 C.A. Liller Company\*

103 1961 Cross & Brumage Coal Company\*

104 1961 Beener Coal Company\*

105 1961 D&K Coal Company\*

106 1961 Mack Coal Company\*

107 1961 Yantus and Zubek\*

108 1961 Potomac Mining Company\*

109 1962 Casey Contracting Company\*

110 1962 Wilhelm Coal Company\*

111 1962 The Georges Creek Lumber Company\*

112 1962 Clark Coal Company\*

113 1962 Casey Contracting Company\*

114 1962 Casey Contracting Company\*

115 1962 Douglas Coal Company\*

116 1962 Red Lion Mining Corporation\*\*

117 1962 Ebensburg Coal and Clay Company\*

118 1963 James E. George\*

119 1963 Ebensburg Coal and Clay Company\*

120 1963 J.R. Thrasher Contracting & Stripping Co.\*

121 1963 Moran Coal Company, Inc.\*

122 1963 Buffalo Coal Company, Inc.\*

123 1963 J.R. Thrasher Contracting & Stripping Co.\*

124 1963 Win-More Mining & Construction Co., Inc.\*

125 1963 Beener Coal Company\*

126 1964 W.R. Nethken and Company, Inc.\*

127 1964 Mack Coal Company\*

128 1964 J.R. Thrasher Contracting & Stripping Co.\*

129 1964 J. Russell Cravener\*

130 1964 Chelsie A. Liller\*

131 1964 The Georges Creek Lumber Company\*

132 1964 Brenneman Brothers\*

133 1965 W.R. Nethken and Company, Inc.\*

134 1965 Richards and Parnell Coal Company\*

135 1965 William Brashear\*

136 1965 W.R. Nethken and Company, Inc.\*

137 1965 G&S Coal Company, Inc.\*

138 1966 J.R. Thrasher Contracting & Stripping Co.\*

139 1966 J.R. Thrasher Contracting & Stripping Co.\*

140 1966 Shallmar Coal Company, Inc.\*

141 1966 Randall Robertson\*\*

142 1966 Ace Drilling Coal Company, Inc.\*

143 1966 Beener Coal Company\*

144 1966 Clarence Rodamer\*

145 1967 Ginniman Coal Company\*

146 1967 Raymond A. Wolf Mining Company\*

147 1967 Menallen Coke Company\*

148 1967 Russel Shafer\*

149 1967 Homage Coal Co. (Emmett Duppstadt)\*

150 1967 Twin States Coal Company\*\*

151 1967 M.F. Fetterolf Coal Company, Inc.\*

152 1967 Ebensburg Coal and Clay Company\*

153 1968 Raymond A. Wolf Mining Co. (UPRC)\*

154 1968 Michael Rostosky\*

155 1968 Ginniman & Ware Coal Company\*

156 1968 Harold H. Upole Coal Company\*

157 1968 T.G.&C. Coal Company, Inc.\*

158 1969 Clarence Rodamer Coal Company\*

159 1969 Michael Rostosky Coal Company\*

160 1969 Russel Shafer Coal Company\*

161 1969 Buffalo Coal Company, Inc.\*

162 1969 J.R. Thrasher Contracting & Stripping Co.\*\*\*

163 1969 Buffalo Coal Company, Inc.\*

164 1969 Union Coal Company\*

165 1970 Win-More Mining & Construction Co., Inc.\*

166 1970 Ginniman Coal Company\*

167 1970 Upperman Coal Company\*

168 1970 Frank Pulford\*\*

169 1970 Winner Bros. Coal Company, Inc.\*

170 1970 Russel Shafer\*

171 1970 The Chief Coal Company\*

172 1970 Mary Ruth Corporation\*

173 1970 Oakland Coal Company\*

174 1971 Bernard C. Drees\*

175 1971 Delta Mining, Inc.\*

176 1971 D&K Coal Company, Inc.\*

177 1971 T.G.&C. Coal Company, Inc.\*

178 1971 Emmett Duppstadt\*

179 1971 Somerset Excavating, Inc.\*

180 1971 Ayers Coal Company\*

181 1971 Delta Mining, Inc.\*

182 1971 Patriot Mining Company, Inc.\*

183 1971 Chief Coal Company\*

184 1971 Cobra Mining, Inc.\*

185 1971 Bessemer Iron & Coal Company\*

186 1971 Coal Lick Coal Company\*

187 1971 Phillips Big Vein Coal Company\*

188 1971 Ace Drilling Coal Company, Inc.\*

189 1971 Buffalo Coal Company, Inc.\*

190 1971 Buffalo Coal Company, Inc.\*

191 1971 Keystone Coal and Development Co.

192 1971 Ace Drilling Company, Inc.\*

193 1972 Wilhelm Coal, Inc.\*

194 1972 M.F. Fetterolf Coal Company, Inc.\*\*\*

195 1972 Buffalo Coal Company, Inc.\*

196 1972 Bessemer Iron & Coal Company\*

197 1972 Grafton Coal Company\*

198 1972 Jet Fuel Coal Company\*

199 1972 Bessemer Iron & Coal Company\*

200 1972 Chief Coal Company\*

201 1972 Brashear Coal Company\*

202 1972 Winner Bros. Coal Company, Inc.\*

203 1972 Mary Ruth Corporation\*

204 1972 Grafton Coal Company\*

205 1972 Chief Coal Company\*

206 1972 Upperman Coal Company\*

207 1972 United Energy Coal, Inc. \*\*

208 1973 Sanner Bros. Coal Company\*

209 1973 Delta Mining, Inc.\*

210 1973 Markat, Inc.\*

211 1973 Oakland Coal Company\*

212 1973 Bessemer Iron & Coal Company\*

213 1973 Clise Coal Company\*

214 1973 Inter-State Lumber Company\*

215 1973 Buffalo Coal Company, Inc.\*

216 1973 Brashear Coal Company\*\*\*

217 1973 Bernard Drees Coal Company\*

218 1973 Buffalo Coal Company, Inc.\*

219 1973 G&S Coal Company, Inc.\*

220 1974 Evans Coal Company\*

221 1974 Bridgeview Coal Company\*

222 1974 John Duckworth Coal Company\*

223 1974 Edward Mikel\*

224 1974 Delta Mining, Inc.\*

225 1974 Northwest Coal Company, Inc.\*

226 1974 Thrasher Coal Company\*\*

227 1974 Winner Bros. Coal Company, Inc.\*

228 1974 Bittinger Coal Company\*

229 1974 Charles M. Filsinger\*

230 1974 G&H Coal Company, Inc.\*

231 1974 Hi-Note, Inc.\*

232 1974 Buffalo Coal Company, Inc.\*

233 1974 Oliver Mining Company\*\*

234 1974 Clise Coal Company\*

235 1974 Markat, Inc.\*

236 1974 Delta Mining, Inc.\*

237 1974 Bridgeview Coal Company\*

238 1974 Burnham Coal Company, Inc.\*

239 1974 Highland Mining\*

240 1974 Buffalo Coal Company, Inc.\*

241 1975 Buffalo Coal Company, Inc.\*

242 1975 Hopwood Strip Mine, Inc.\*\*

243 1975 Ponderosa Coal Company, Inc.\*

244 1975 Markat, Inc.\*

245 1975 Phillips Coal, Inc.\*

246 1975 Lambert Coal Company\*

247 1975 United Energy Coal, Inc. \*\*

248 1975 Buffalo Coal Company, Inc.\*

249 1975 Cobra Fuels\*

250 1975 Laoc Coal Company\*

251 1975 Tower Resources, Inc.\*

252 1975 Phillips Coal, Inc.\*

253 1975 Pine Mt. Coal Company\*

254 1975 T.G.&C. Coal Company\*

255 1975 Allegheny Mining Company\*

256 1975 Bridgeview Coal Company\*

257 1975 A&R Coal Company\*

258 1975 Clinton Coal Company\*\*

259 1975 Tower Resources, Inc.\*

260 1975 Yough Tree Farm\*

261 1975 Russel Shafer\*\*\*

262 1975 Northwest Coal Company\*\*

263 1975 Allegheny Mining Corporation\*

264 1975 Tri-Star Mining, Inc.\*

265 1975 Bittinger Coal Company\*

266 1975 Delta Mining, Inc.\*

267 1975 Bittinger Coal Company\*

268 1975 Clyde Marsh Coal Company\*

269 1975 Hungry Hollow Coal Company\*

270 1975 Clise Coal Company\*

271 1975 A&R Coal Company\*

272 1975 Action Mining, Inc.\*

273 1975 Win-More Mining & Construction \*

274 1975 Evans Coal Company\*

275 1975 Buffalo Coal Company, Inc.\*

276 1975 Buffalo Coal Company, Inc.\*

277 1975 Allegheny Mining Corporation \*

278 1976 Inter-State Lumber Company\*

279 1976 Buffalo Coal Company, Inc.\*

280 1976 Delta Mining, Inc.\*

281 1976 Rondell Company\*

282 1976 Phillips Coal, Inc.\*

283 1976 G&H Coal Company, Inc.\*

284 1976 Tower Resources, Inc.\*

285 1976 Clinton Coal Company\*\*

286 1976 Winner Bros. Coal Company, Inc.\*

287 1976 T.L. Moran, Inc.\*

288 1976 Delta Mining, Inc.\*

289 1976 Pine Mt. Coal Company\*

290 1976 Delta Mining, Inc.\*

291 1976 George Nolan\*\*

292 1976 Alexander Coal Co.\*

293 1976 Pine Mt. Coal Company\*

294 1976 Arlen Miller\*\*\*

295 1976 Action Mining, Inc.\*

296 1976 Bessemer Iron & Coal Company\*\*

297 1977 Oakland Coal Company \*

298 1977 Bittinger Coal Company\*

299 1977 Inter-State Lumber, Inc.\*

300 1977 Garbart Coal Company\*

301 1977 Pine Mt. Coal Company\*

302 1977 L.C. Coal Company, Inc.\*

303 1977 Ginniman Brothers Coal Company\*\*

304 1977 Buffalo Coal Company, Inc.\*

305 1977 Wood Products, Inc.\*

306 1977 Bridgeview Coal Company\*

307 1977 T.L. Moran, Inc.\*

308 1977 Best Coal Stripping, Inc.\*\*

309 1977 Delta Mining, Inc.\*

310 1977 Oakland Coal Company\*

311 1977 Primrose Coal Company\*

312 1977 R.A.K. Coal Company, Inc.\*\*

313 1977 G&S Coal Company\*

314 1977 Wilhelm Coal, Inc.\*\*

315 1977 Clise Coal Company\*

316 1977 Brawal Mining, Inc.\*

317 1977 John R. Livingston\*\*

318 1977 Winner Bros. Coal Company, Inc. \*

319 1977 John Duckworth Coal Company\*

320 1977 Kelley Enterprises\*

321 1978 Delta Mining, Inc.\*

322 1978 Bridgeview Coal Company\*

323 1978 Ayers Coal Company\*

324 1978 John Duckworth Coal Company\*

325 1978 G&S Coal Company, Inc.\*

326 1978 Buffalo Coal Company, Inc.\*\*

327 1978 Buffalo Coal Company, Inc.\*

328 1978 Buffalo Coal Company, Inc. \*

329 1978 Winner Bros. Coal Company, Inc.\*

330 1978 Inter-State Lumber Company\*

331 1978 R.A.K. Coal Company\*\*\*

332 1978 Seneca Mining Company\*

333 1978 Westvaco Corporation\*

334 1978 Buffalo Coal Company, Inc.\*

335 1978 Inter-State Lumber Company\*\*

336 1978 Inter-State Lumber Company\*

337 1978 Kirby Energy, Inc.\*

338 1978 Vindex Energy Corporation\*

339 1978 Wilhelm Coal, Inc.\*

340 1978 Fetterolf Mining, Inc.\*

341 1979 Eastern Mining Systems, Inc.\*\*

342 1979 Primrose Coal Company\*

343 1979 L.C. Coal Company\*

344 1979 Bridgeview Coal Company\*

345 1979 Delta Mining, Inc.\*\*

346 1979 Inter-State Lumber Company\*

347 1979 Kelley Enterprises\*

348 1979 Schwinabart & Green, Joint Venture\*

349 1979 Wilhelm Coal, Inc.\*\*

350 1980 Bridgeview Coal Company\*

351 1980 Winner Bros. Coal Company, Inc.\*

352 1980 John Duckworth Coal Company\*

353 1980 Winner Bros. Coal Company, Inc.\*

354 1980 Brawal Mining, Inc.\*

355 1980 Hi-Note, Inc.\*

356 1980 G&S Coal Company, Inc.\*\*\*

357 1980 Richard Duckworth Coal Company\*

358 1980 Bridgeview Coal Company\*

359 1980 Buffalo Coal Company, Inc.\*\*

360 1980 Buffalo Coal Company, Inc.\*

361 1980 Pamela Mines, Inc.\*\*

362 1980 Alpha Mining, Inc.\*

363 1980 Pamela Mines, Inc.\*\*

364 1980 John Duckworth Coal Company\*

365 1980 G&S Coal Company, Inc.\*

366 1980 Buffalo Coal Company, Inc.\*

367 1980 Buffalo Coal Company, Inc.\*\*

368 1980 United Energy Coal, Inc.\*\*

369 1980 Bittinger Coal Company\*

370 1982 Keystone Mt. Development Company\*

371 1982 Eagle Mining, Inc.\*

372 1982 John Duckworth Coal Company\*

373 1982 Kirby Energy, Inc. \*\*

374 1982 Winner Bros. Coal Company, Inc. \*

375 1982 Win-More Mining & Construction Company \*

376 1982 Jones Coal, Inc.\*\*

377 1982 Allegheny Mining Corporation\*

378 1982 Delta Mining, Inc.\*\*

379 1982 Masteller Coal Company\*

380 1982 Fairview Coal Company (Repermitted 399)\*

381 1982 Richard Duckworth Coal Company\*

382 1983 Pine Mt. Coal Company\*

383 1983 Allegheny Mining Corporation\*

384 1983 Evans Coal Company\*

385 1983 Winner Bros. Coal Company, Inc.\*

386 1983 Jones Mining, Inc.\*

387 1983 Hilltop Construction Company\*\*

388 1983 Fetterolf Mining, Inc.\*

389 1983 Winner Bros. Coal Company, Inc.\*

390 1983 C.J. Merlo, Inc.\*

391 1983 Oak Springs Coal Company\*

392 1984 Westvaco Resources, Inc.\*

393 1984 Patriot Mining Company, Inc.

394 1984 Action Mining, Inc.\*

395 1984 Stan-Jan Excavating, Inc.\*

396 1984 Allegheny Mining Corporation\*

397 1985 Michael R. McGowan\*

398 1985 Brashear Coal Company\*

399 1985 Fairview Coal Company

400 1985 Delta Mining, Inc.\*

401 1985 Buffalo Coal Company, Inc.\*\*\*

402 1985 Pine Mt. Coal Company\*

403 1985 T.D. Mining Company\*\*

404 1986 Clise Coal Company

405 1986 Jones Coal, Inc.\*\*

406 1986 Patriot Mining Company, Inc.\*

407 1986 Ritchie Trucking & Excavating

408 1986 Tri Star Mining, Inc.\*

409 1986 Buffalo Coal Company, Inc.\*

410 1987 J. Walter Wassell\*

411 1987 Jenkins Development Company

412 1987 John Duckworth Coal Company\*\*\*

413 1988 Buffalo Coal Company, Inc.\*

414 1989 United Energy Coal, Inc.\*\*

415 1989 Pine Mt. Coal Company\*

416 1989 Action Mining, Inc.\*

417 1989 Tri Star Mining, Inc.\*

418 1991 Tri Star Mining, Inc.\*

419 1991 Tri Star Mining, Inc.

420 1991 Pine Mt. Coal Company \*

421 1992 G&S Coal Company, Inc.

422 1992 Buffalo Coal Company, Inc. \*\*

423 1992 United Energy Coal, Inc. \*\*

424 1995 Pine Mt. Coal Company

425 1995 Tri Star Mining, Inc.\*

426 1996 Tri Star Mining, Inc.\*

427 1996 Vindex Energy Corp.

428 1997 Mettiki Coal, LLC

429 1997 Tri Star Mining, Inc.\*

430 1998 G&S Coal Company, Inc.

431 1998 Vindex Energy Corp.\*

432 1999 Vindex Energy Corp.

433 1999 Win-More Mining & Construction\*

434 1999 Tri Star Mining, Inc\*.

435 2000 G&S Coal Company, Inc.

436 2000 Tri-Star Mining

437 2001 Cobra Mining, Inc.

438 2001 Mountaineer Mining Corp.\*

439 2001 Vindex Energy Corp.

440 2001 G&S Coal Company, Inc.

441 2002 G&S Coal Company, Inc.

442 2002 Vindex Energy Corp.

443 2002 Vindex Energy Corporation

444 2003 Tri Star Mining, Inc.

445 2003 United Energy, Inc.\*\*

446 2004 Moran Coal Company

447 2004 Moran Coal Company

448 2005 Jenkins Development Company

449 2005 Savage Mountain Minerals, Inc.

450 2005 Clise Coal Company

451 2006 LAOC Corporation

452 2006 Mountaineer Mining Corporation

453 2006 WPO, Inc.\*\*

454 2007 Walker Brothers Mining, Inc.

455 2007 G&S Coal Company, Inc.

455 2008 G&S Coal Company, Inc.

456 2008 Ritchie Trucking & Excavating, Inc. (Reinstated)

457 2008 Beechwood Coal, LLC. (Reinstated)

458 2009 C&S Coal Company

459 2011 Beechwood Coal, LLC

460 2011 LAOC Corporation

461 2011 Vindex Energy Corporation

462 2012 LAOC Corporation

463 2013 Savage Mountain Minerals

464 2013 Beechwood Coal, LLC

465 2013 ARJ Construction Company, Inc.

DEEP MINES

DM 101 1977 Mettiki Coal, LLC

DM 102 1977 Masteller Coal Company\*

DM 103 1977 Mt. Top Coal Company\*

DM 104 1977 Mettiki Coal Corporation\*

DM 105 1977 Mettiki Coal Corporation\*

DM 106 1978 A&J Coal Corporation\*\*

DM 107 1982 Masteller Coal Company\*

DM 108 1989 Wolf Run Mining\*

DM 109 1991 Wolf Run Mining

DM 110 1992 Masteller Coal Company \*\*

DM 111 2000 ARJ Construction

DM 112 2003 Backbone Mountain, LLC

DM 113 2009 Maryland Energy Resources, LLC

DM 114 2017 ARJ Construction Company, Inc.

TIPPLES AND GOB PILES

SC-83-101 1983 Buffalo Coal Company\*

SC-83-102 1983 Buffalo Coal Company\*

SC-83-103 1983 Buffalo Coal Company\*

SC-83-104 1983 Buffalo Coal Company \*\*

SC-83-105 1983 Buffalo Coal Company\*

SC-83-106 Permit Not Issued

SC-83-107 1983 Delta Coal Sales, Inc\*\*

SC-83-108 1984 Delta Coal Sales, Inc\*

SC-83-109 Permit Not Issued

SC-83-110 1983 United Energy Coal, Inc. \*\*

SC-83-111 1983 Westvaco Corporation\*

SC-83-112 1983 United Energy Coal, Inc.\*

SC-83-113 Permit Not Issued

SC-83-114 1984 Ever, Inc.\*

SC-83-115 Permit Not Issued

SC-87-116 1987 Franklin Coal Yard, LLC

SC-87-117 1987 Tri Star Mining, Inc.

SC-87-118 1987 Vindex Energy Corp.

SC-06-119 2006 Clise Coal Company, Inc.\*

SC-07-120 2007 G&S Coal Company, Inc.

SC-08-121 2008 Beechwood Coal, LLC (Reinstated)

SC-17-122 2017 Deerhaven Farms, LLC

\* Operation Completed and Bond Released \*\*Forfeiture of Bond \*\*\* Not Activate