



Abandoned Coal Mine Methane Opportunities Database

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Introduction

Background

Every year, the U.S. EPA publishes and makes available an inventory to identify and quantify the country's anthropogenic sources and sinks of greenhouse gas emissions to fulfill its commitment under the United Nations Framework Convention on Climate Change (UNFCCC). The resulting *U.S. Greenhouse Gas Inventory Report* systematically and consistently estimates national emissions and serves as a critical prerequisite for accounting reductions and evaluating mitigation strategies. According to the inventory, coal mines are a major source of anthropogenic methane emissions in the U.S. Methane emitted from active underground and surface coal mines as well as during post-mining activities accounts for approximately 10% of all U.S. methane emissions.

Beginning in 2004, the *U.S. Greenhouse Gas Inventory Report* has also estimated abandoned mine methane (AMM) emissions. As mines mature and coal seams are mined out, mines are closed and eventually abandoned. Shafts or portals are often filled with gravel and capped with a concrete seal. Vent pipes and boreholes are often plugged in a similar manner to oil and gas wells. When active mining stops, the mine's gas production decreases but does not stop completely. Following an initial decline, abandoned mines can liberate methane at a near-steady rate over an extended period of time. The gas can migrate up through conduits, particularly if they have not been sealed adequately. In addition, diffuse emissions can occur when methane migrates to the surface through cracks and fissures in the strata overlying the coal mine. One factor affecting this process is flooding; some abandoned coal mines may flood as a result of intrusion of groundwater or surface water into the void. Flooded mines typically produce gas for only a few years. According to the inventory, AMM emissions accounted for approximately 5.4 Bcf in 2006, roughly 1% of U.S. anthropogenic methane emissions in that year.

The methodology that has been used since 2004 to estimate AMM emissions resulted from a Coalbed Methane Outreach Program (CMOP) study entitled, "*Methane Emissions from Abandoned Coal Mines in the United States: Emission Inventory Methodology and 1990-2002 Estimates.*" CMOP conducted this study to determine the magnitude of AMM emissions in the U.S. and to assess the technical feasibility of including this source in the *U.S. Greenhouse Gas Inventory Report*. The methodology that was developed incorporates quantitative models with coal basin-specific parameters, calibrated with field measurements at several mines. The study furthermore uses the methodology in conjunction with a comprehensive database of U.S. mines abandoned since 1972 to generate an aggregate estimate of AMM emissions for each year from 1990 to 2002. This database of U.S. mines abandoned since 1972 – a list of approximately four hundred (400) mines that were considered "gassy" at the time of closure – is provided in the study appendix. In 2005, in an effort to increase the accuracy of the AMM section of the *U.S. Greenhouse Gas Inventory Report*, a follow-up study was conducted surveying companies that had been involved in mining as well as current surface owners; and anecdotal information was gathered to better categorize the abandoned mines used in the

inventory calculations. For example, a number of mines which were previously classified as unknown with regard to their venting, flooding, or sealing were properly categorized. In addition to developing the 2004 study, CMOP also developed a generalized, universal AMM emissions estimation methodology that has been incorporated as part of the 2006 Emissions Inventory Guidelines for the International Panel on Climate Change (IPCC).

More than just sources of emissions, abandoned mines can also be optimal opportunities for methane utilization projects. In 2008, the International Coal Mine Methane (CMM) Projects Database, developed and maintained by the Methane to Markets Partnership, lists 26 projects that recover and productively use methane from abandoned mines in the U.S. Many other mines exist that can host additional, future projects. To encourage project development in this area, CMOP has focused efforts to make available helpful publications and resources. For example, CMOP developed a report entitled "*U.S. Abandoned Coal Mine Methane Recovery Project Opportunities*," a selection of case studies of current and potential methane recovery projects at abandoned coal mine sites.

Updated Abandoned Coal Mines Database

In this report, the aforementioned database of 400 mines has been updated to include the results of the 2008 *U.S. Greenhouse Gas Inventory Report* (1990 – 2006) as well as any additional mines that have been abandoned since the 2004 "*Methane Emissions from Abandoned Coal Mines in the United States: Emission Inventory Methodology and 1990-2002 Estimates*" study. The database now includes 443 mines. CMOP hopes that this resource will help interested project developers identify potential project sites.

The updated abandoned mine database includes geographic information about the mines such as state, county, and the coal basin in which it is located. The current status of the mine is provided in the database (sealed, venting, flooded, recovering methane, or unknown if no status is listed) as well as the date the mine was abandoned and the estimated methane emissions in million cubic feet per day (mmcf/d) at the time of abandonment. This data is obtained primarily from the US Mine Safety and Health Administration (MSHA) which provides data online at www.msha.gov and in reports provided to EPA. The database of mines has been maintained through the annual completion of the *U.S. Greenhouse Gas Inventory Report*. Mines are added to the database as annual emissions data from MSHA indicate they are no longer active.

Note mines colored blue in the database, such as the "*Darby Fork No 1*" mine. These mines have been added to the database since the original database was published in "*Methane Emissions from Abandoned Coal Mines in the United States: Emission Inventory Methodology and 1990-2002 Estimates*." Additional study has revealed mines for which earlier information was not available, as well as mines abandoned since the time of that report in 2004.

Following the database of mines, a list of state agencies and organizations for relevant states is included. These can be a source of more detailed information on the mines such as ownership information, regulatory considerations, and other conditions within the respective states.

Additional Resources

To access the publications and resources references in this Introduction, visit the EPA web pages below.

2006 IPCC White Paper: Proposed Methodology for Estimating Emission Inventories from Abandoned Coal Mines

http://www.epa.gov/cmop/docs/abandoned_mines_white_paper.pdf

Methane to Markets International Coal Mine Methane Projects Database

<http://www2.ergweb.com/cmm/index.aspx>

Methane Emissions from Abandoned Coal Mines in the United States: Emission Inventory Methodology and 1990-2002 Estimates

http://www.epa.gov/cmop/docs/amm_final_report.pdf

U.S. Abandoned Coal Mine Methane Recovery Project Opportunities

http://www.epa.gov/cmop/docs/cmm_recovery_opps.pdf

U.S. Greenhouse Gas Inventory Report

<http://www.epa.gov/climatechange/emissions/usinventoryreport.html>

U.S. Abandoned Coal Mine Database

State	County	Coal Basin	Mine Name	Current Emissions Status	Date Abandoned	Active Mine Emissions (mmcf/d)
OK	Haskell	Arkoma	Choctaw Coal		10/29/90	0.35
OK	Le Flore	Arkoma	Howe No 1		06/10/72	1.60
OK	Okmulgee	Arkoma	Pollyanna No 4		10/11/96	0.35
KY	Harlan	Central Appl.	No. 10 Wisconsin Steel Mine		10/10/74	0.10
KY	Harlan	Central Appl.	Creech No 1		06/15/95	0.20
KY	Harlan	Central Appl.	Harlan No.1		07/10/95	0.20
KY	Harlan	Central Appl.	Darby Fork No 1		01/27/97	0.10
KY	Harlan	Central Appl.	Arch No. 37		01/21/99	1.00
KY	Henderson	Central Appl.	Retiki	Sealed	02/03/95	0.35
KY	Johnson	Central Appl.	White Ash No 1		08/15/78	0.20
KY	Leslie	Central Appl.	No. 1 Mine		06/10/89	0.20
KY	Leslie	Central Appl.	No 2		08/29/96	0.35
KY	Leslie	Central Appl.	Unicorn No.2		08/29/96	0.20
KY	Leslie	Central Appl.	No. 60		05/07/01	0.30
KY	Letcher	Central Appl.	Scotia Mine		06/10/82	0.40
KY	Letcher	Central Appl.	Upper Taggart Mine		06/10/89	0.10
KY	Letcher	Central Appl.	Premium Mine		04/04/03	0.10
KY	Martin	Central Appl.	No 3		06/10/72	0.30
KY	Martin	Central Appl.	Wolf Creek No.3	Sealed	06/10/77	0.75
KY	Martin	Central Appl.	Wolf Creek No 1		04/23/86	0.50
KY	Martin	Central Appl.	Peter Cave No 1		01/09/89	0.15
KY	Martin	Central Appl.	Wolf Creek No 4	Flooded	10/02/95	1.00
KY	Martin	Central Appl.	Pontiki No. 1 Mine		05/30/01	0.60
KY	McCreary	Central Appl.	Justus		06/15/94	0.35
KY	Pike	Central Appl.	Leslie	Sealed	06/10/81	0.75
KY	Pike	Central Appl.	Scotts Branch		06/10/81	0.20
KY	Pike	Central Appl.	Big Creek No 1		06/10/81	0.15
KY	Pike	Central Appl.	No. 1 Mine (D)		10/20/82	0.35
KY	Pike	Central Appl.	No. 2 Mine (D)		12/16/82	0.35
KY	Pike	Central Appl.	No. 6 Mine (D)		03/04/83	0.35
KY	Pike	Central Appl.	No. 1 Mine (D)		06/14/83	0.20
KY	Pike	Central Appl.	No.26-L		06/19/86	0.10
KY	Pike	Central Appl.	Road Fork No 1		06/10/87	0.30
KY	Pike	Central Appl.	Big Creek No 2		03/28/88	0.10
KY	Pike	Central Appl.	No. 1 Mine		11/14/88	0.20

State	County	Coal Basin	Mine Name	Current Emissions Status	Date Abandoned	Active Mine Emissions (mmcf/d)
KY	Pike	Central Appl.	New ERA No 1		03/08/89	0.20
KY	Pike	Central Appl.	No. 4 Mine		06/10/89	0.10
KY	Pike	Central Appl.	Unit Mine		09/05/89	0.10
KY	Pike	Central Appl.	Ovenfork Mine		01/15/92	2.40
KY	Pike	Central Appl.	Mate Creek No 2		06/10/94	0.75
KY	Pike	Central Appl.	No.9		08/25/95	0.10
KY	Pike	Central Appl.	No 3		04/04/97	0.35
KY	Pike	Central Appl.	Smith Fork		07/23/01	0.10
KY	Whitley	Central Appl.	No. 1		08/15/86	0.35
KY	Whitley	Central Appl.	Blue Gem No 1		02/27/97	0.35
MD	Garrett	Central Appl.	Mettiki		06/10/89	0.20
TN	Campbell	Central Appl.	Rex No 1		06/10/89	0.10
TN	Clearborne	Central Appl.	Matthews Mine		12/29/90	0.20
TN	Rosedale	Central Appl.	Volunteer No 1		06/10/74	2.50
TN	Sequatchie	Central Appl.	Kelly's Creek No. 1		02/18/94	0.10
VA	Buchanan	Central Appl.	LAMBERT FORK	Flooded	06/18/85	0.60
VA	Buchanan	Central Appl.	WINSTON MINE NO 10	Sealed	02/25/92	0.35
VA	Buchanan	Central Appl.	No 1	Flooded	04/23/93	0.35
VA	Buchanan	Central Appl.	VIRGINIA POCAHONTAS 4	Sealed/Recovering Methane	08/09/93	1.60
VA	Buchanan	Central Appl.	Jewell No 18		11/17/93	0.15
VA	Buchanan	Central Appl.	VP 1	Sealed/Recovering Methane	03/10/94	9.80
VA	Buchanan	Central Appl.	VP No 6	Sealed/Recovering Methane	06/27/94	9.40
VA	Buchanan	Central Appl.	Big Creek Seaboard No. 1	Venting	08/18/95	0.70
VA	Buchanan	Central Appl.	No 4	Flooded	10/21/95	0.35
VA	Buchanan	Central Appl.	Beatrice Mine	Sealed	12/05/95	6.80
VA	Buchanan	Central Appl.	Virginia Pocahontas No 2	Sealed/Recovering Methane	12/11/96	5.60
VA	Buchanan	Central Appl.	Big Creek Seaboard No. 2		01/27/98	0.30
VA	Buchanan	Central Appl.	VP No 3	Sealed/Recovering Methane	03/10/98	9.20
VA	Buchanan	Central Appl.	Raven No. 1	Flooded	05/06/98	0.10
VA	Buchanan	Central Appl.	1-A Mine		03/12/01	0.25
VA	Dickenson	Central Appl.	Splashdam	Venting/Partially Flooded	09/27/95	0.35
VA	Dickenson	Central Appl.	McClure No 1	Flooded	08/20/96	1.40
VA	Dickerson	Central Appl.	Moss No 3	Flooded	06/10/76	1.40
VA	Lee	Central Appl.	No. 1 Mine		04/28/92	0.35
VA	Lee	Central Appl.	#1		03/24/94	0.75
VA	Lee	Central Appl.	Holton	Flooded	01/23/97	0.35

State	County	Coal Basin	Mine Name	Current Emissions Status	Date Abandoned	Active Mine Emissions (mmcf/d)
VA	Russell	Central Appl.	Chaney Creek No 2	Flooded	06/10/74	0.35
VA	Russell	Central Appl.	MOSS NO. 2	Flooded	07/15/83	1.30
VA	Russell	Central Appl.	HURRICANE CREEK	Flooded	06/29/87	0.35
VA	Russell	Central Appl.	Moss No 3A2	Flooded	03/18/88	0.75
VA	Russell	Central Appl.	Moss No 4	Adjacent to strip mine	01/11/89	0.75
VA	Tazewell	Central Appl.	Amonate No 31		09/26/94	3.70
VA	Tazewell	Central Appl.	No 1	Flooded	06/10/95	0.35
VA	Tazewell	Central Appl.	#1 Mine		05/14/03	0.30
VA	Tazewell	Central Appl.	Mine #2		09/25/03	0.15
VA	Wise	Central Appl.	Virginia No 1		06/10/80	0.15
VA	Wise	Central Appl.	PRESCOTT NO 1	Flooded	02/20/81	0.35
VA	Wise	Central Appl.	Wentz B Portal	Flooded	06/10/82	0.35
VA	Wise	Central Appl.	No 7		06/10/82	0.15
VA	Wise	Central Appl.	Osaka No 2		06/16/89	0.20
VA	Wise	Central Appl.	Prescott No 2 Mine	Sealed	01/11/94	0.35
VA	Wise	Central Appl.	No 1	Flooded	04/08/94	0.35
VA	Wise	Central Appl.	Wentz No 1	Flooded	02/25/95	0.35
VA	Wise	Central Appl.	No. 2	Flooded	05/24/95	0.10
VA	Wise	Central Appl.	Bullitt Mine	Venting	08/01/95	0.75
VA	Wise	Central Appl.	Pierre	Venting	01/31/96	0.35
VA	Wise	Central Appl.	Har-Lee No 3	Sealed	04/29/96	0.35
VA	Wise	Central Appl.	No 1	Flooded	05/08/96	0.35
VA	Wise	Central Appl.	Deep No 20	Venting	01/08/97	0.35
VA	Wise	Central Appl.	#12		05/21/99	0.10
VA	Wise	Central Appl.	Sargent Hollow		07/12/01	0.20
VA	Wise	Central Appl.	Mine # 3		09/07/01	0.35
VA	Wise	Central Appl.	#1		12/29/03	0.10
WV	Barbour	Central Appl.	Kitt No. 1		06/10/82	1.50
WV	Boone	Central Appl.	Ferrell No 17	Flooded	06/10/82	0.40
WV	Boone	Central Appl.	HAMPTON NO 3 MINE	Flooded	02/02/87	0.40
WV	Boone	Central Appl.	Wharton No. 4		03/23/87	0.20
WV	Boone	Central Appl.	Quinland No 1		09/01/87	0.30
WV	Boone	Central Appl.	HAMPTON NO 4	Flooded	01/23/91	0.35
WV	Boone	Central Appl.	Birchfield No 1	Venting	06/10/92	1.50
WV	Boone	Central Appl.	Oasis No. 1		06/10/96	1.10
WV	Boone	Central Appl.	Alma Mine		10/05/01	0.50

State	County	Coal Basin	Mine Name	Current Emissions Status	Date Abandoned	Active Mine Emissions (mmcf/d)
WV	Boone	Central Appl.	WHITE KNIGHT		10/22/02	0.10
WV	Boone	Central Appl.	No. 68		06/20/05	0.81
WV	Brooke	Central Appl.	Beech Bottom		06/10/74	0.20
WV	Brooke	Central Appl.	Valley Camp No 1		09/15/85	0.25
WV	Fayette	Central Appl.	Royal No 5	Sealed	06/10/77	0.20
WV	Fayette	Central Appl.	Siltix	Flooded	10/23/87	0.30
WV	Fayette	Central Appl.	New River		08/31/96	0.35
WV	Kanawha	Central Appl.	No 34		06/10/72	0.40
WV	Kanawha	Central Appl.	Morton Mine		06/10/82	1.50
WV	Kanawha	Central Appl.	Cannelton No 8	Venting	04/05/83	0.35
WV	Kanawha	Central Appl.	MADISON NO 1 MINE		06/14/84	0.20
WV	Kanawha	Central Appl.	Lady Dunn No 105	Venting/Partially Flooded	11/12/87	0.75
WV	Kanawha	Central Appl.	Lightfoot No. 1		02/09/00	0.20
WV	Lewis	Central Appl.	Mine No 1		12/13/82	2.40
WV	Lincoln	Central Appl.	Five Block No 4 Mine		09/26/80	0.75
WV	Logan	Central Appl.	Guyan No 5	Flooded	06/10/74	0.25
WV	Logan	Central Appl.	No 4-H	Sealed	06/10/74	0.25
WV	Logan	Central Appl.	Paragon	Flooded	06/10/74	0.15
WV	Logan	Central Appl.	NO 1 CEDAR GROVE	Flooded	09/26/80	1.00
WV	Logan	Central Appl.	Dehue	Sealed	11/14/85	0.30
WV	Logan	Central Appl.	Guyan No 1	Flooded	07/03/90	0.35
WV	McDowell	Central Appl.	Pocahontas No 7		06/10/74	0.15
WV	McDowell	Central Appl.	U.S. Steel No 14-4	Venting/Partially Flooded	06/10/77	1.40
WV	McDowell	Central Appl.	Maitland	Venting/Partially Flooded	06/10/77	1.00
WV	McDowell	Central Appl.	NEWHALL NO 6 MINE	Venting/Partially Flooded	10/01/79	0.75
WV	McDowell	Central Appl.	BISHOP #34 MINE		01/10/82	1.00
WV	McDowell	Central Appl.	SHANNON BRANCH MINE	Flooded	11/05/82	1.30
WV	McDowell	Central Appl.	GARY NO 10	Sealed	02/28/84	0.75
WV	McDowell	Central Appl.	Bishop No 36		09/07/85	0.35
WV	McDowell	Central Appl.	Little B Mine No 2	Sealed	12/19/85	2.40
WV	McDowell	Central Appl.	BISHOP #33-37 MINE		01/22/86	0.75
WV	McDowell	Central Appl.	Cannelton No 3 & 4	Venting/Partially Flooded	09/01/86	0.20
WV	McDowell	Central Appl.	Seneca Mine		03/05/87	0.60
WV	McDowell	Central Appl.	Keystone No 1 Mine		04/01/87	0.20
WV	McDowell	Central Appl.	Ogla	Flooded	06/17/88	2.80
WV	McDowell	Central Appl.	No 4 Mine	Sealed	06/27/88	2.40

State	County	Coal Basin	Mine Name	Current Emissions Status	Date Abandoned	Active Mine Emissions (mmcf/d)
WV	McDowell	Central Appl.	U.S. Steel No 2	Venting/Partially Flooded	06/10/91	0.90
WV	McDowell	Central Appl.	ANGUS	Venting	10/24/95	0.35
WV	Mingo	Central Appl.	National No 25		06/10/74	0.25
WV	Mingo	Central Appl.	Gary No 20-B		04/16/80	0.15
WV	Mingo	Central Appl.	No 19		07/02/90	0.20
WV	Mingo	Central Appl.	Rocky Hollow		11/19/94	0.35
WV	Mingo	Central Appl.	Mine #1		11/20/01	0.10
WV	Nicholas	Central Appl.	Sewell No 4	Venting/Partially Flooded	06/10/72	0.75
WV	Nicholas	Central Appl.	Coalbank Fork No 9		02/27/82	2.40
WV	Nicholas	Central Appl.	Mine #3		04/26/82	2.40
WV	Nicholas	Central Appl.	Mine No 4		07/27/82	2.40
WV	Nicholas	Central Appl.	No 24 Mine		09/15/82	2.40
WV	Nicholas	Central Appl.	Mine No 4		09/20/82	2.40
WV	Nicholas	Central Appl.	Hewett Fork No 1A		01/05/83	2.40
WV	Nicholas	Central Appl.	Big Foot Coal 4-B Mine		03/21/83	2.40
WV	Nicholas	Central Appl.	Stone Run 6A		06/14/83	2.40
WV	Nicholas	Central Appl.	Birch No 1		02/20/86	0.35
WV	Nicholas	Central Appl.	SEWELL #1A	Venting/Partially Flooded	04/22/86	0.20
WV	Nicholas	Central Appl.	SEWELL NO 1	Venting/Partially Flooded	09/06/88	0.40
WV	Nicholas	Central Appl.	Donegan No 10	Venting/Partially Flooded	06/14/90	0.30
WV	Nicholas	Central Appl.	Long Run Deep Mine No 1		08/01/91	2.40
WV	Nicholas	Central Appl.	Mine No 1		06/24/93	2.40
WV	Nicholas	Central Appl.	Bald Eagle No 1		10/13/94	0.10
WV	Nicholas	Central Appl.	Bells Creek Mine No. 1	Venting	06/10/98	0.50
WV	Nicholas	Central Appl.	Hutchinsons Branch Mine No. 1		06/26/00	0.25
WV	Raleigh	Central Appl.	East Gulf	Flooded	06/10/74	1.00
WV	Raleigh	Central Appl.	Bethlehem No 46	Flooded	07/01/76	0.15
WV	Raleigh	Central Appl.	Macalpin #3	Flooded	10/19/79	0.30
WV	Raleigh	Central Appl.	ECCLES NO 5	Flooded	10/01/81	0.75
WV	Raleigh	Central Appl.	KEYSTONE NO 4-A MINE	Flooded	07/21/82	0.20
WV	Raleigh	Central Appl.	SLAB FORK NO 8	Flooded	02/06/84	0.75
WV	Raleigh	Central Appl.	SLAB FORK NO. 10 MINE	Flooded	02/06/84	0.75
WV	Raleigh	Central Appl.	WINDING GULF # 4	Flooded	02/06/84	0.20
WV	Raleigh	Central Appl.	ECCLES NO 6	Flooded	06/28/85	0.35
WV	Raleigh	Central Appl.	KEYSTONE NO 4 MINE	Flooded	10/01/85	0.20
WV	Raleigh	Central Appl.	KEYSTONE NO 5 MINE	Flooded	12/31/85	0.20

State	County	Coal Basin	Mine Name	Current Emissions Status	Date Abandoned	Active Mine Emissions (mmcf/d)
WV	Raleigh	Central Appl.	SKELTON MINE	Flooded	12/08/86	0.35
WV	Raleigh	Central Appl.	Macalpin	Flooded	07/06/89	0.40
WV	Raleigh	Central Appl.	Bonny	Sealed/Recovery Pending	06/10/90	3.40
WV	Raleigh	Central Appl.	No. 4 Mine	Venting/Partially Flooded	01/29/91	2.90
WV	Raleigh	Central Appl.	Beckley	Flooded	07/01/92	3.70
WV	Raleigh	Central Appl.	KEYSTONE NO 2 MINE	Flooded	05/07/93	0.60
WV	Raleigh	Central Appl.	Maple Meadow Mine	Sealed/Recovery Pending	07/10/98	3.00
WV	Raleigh	Central Appl.	Tommy Creek #1	Flooded	11/03/00	0.35
WV	Raleigh	Central Appl.	Mine No. 1		12/05/02	0.60
WV	Upshur	Central Appl.	Adrian Mine		06/10/77	0.20
WV	Upshur	Central Appl.	Queen # 14 Mine		11/05/82	2.40
WV	Upshur	Central Appl.	Grand Badger No 1A Mine		08/08/83	2.40
WV	Upshur	Central Appl.	Spruce No. 2 Mine		05/29/02	0.20
WV	Wayne	Central Appl.	Deep Mine No. 3		01/25/02	0.10
WV	Webster	Central Appl.	Smoot		01/22/97	0.35
WV	West	Central Appl.	Dixianna		06/10/72	0.30
WV	Wyoming	Central Appl.	Kepler	Venting/Partially Flooded	06/10/74	0.75
WV	Wyoming	Central Appl.	Buckeye Coll.	Sealed	06/10/74	0.15
WV	Wyoming	Central Appl.	Otsego		06/10/74	0.15
WV	Wyoming	Central Appl.	Itmann No 4	Flooded	06/10/76	1.00
WV	Wyoming	Central Appl.	GASTON NO 2 MINE		01/15/82	0.20
WV	Wyoming	Central Appl.	Beckley No 1	Venting/Partially Flooded	02/09/82	0.70
WV	Wyoming	Central Appl.	National Pocahontas	Venting/Partially Flooded	01/31/84	0.75
WV	Wyoming	Central Appl.	ITMANN #3	Sealed	05/20/87	1.40
WV	Wyoming	Central Appl.	Beckley No 2	Venting/Partially Flooded	06/21/88	1.00
WV	Wyoming	Central Appl.	ITMANN # 1 AND SHOP	Sealed	06/12/92	0.35
WV	Wyoming	Central Appl.	Shawnee Mine	Venting/Partially Flooded	11/07/94	2.20
WV	Wyoming	Central Appl.	KOPPERSTON NO. 1	Sealed	01/10/96	0.35
WV	Wyoming	Central Appl.	No. 1 Mine		09/10/02	0.20
IL	Christian	Illinois	Peabody No. 10	Venting	07/10/94	0.75
IL	Clinton	Illinois	Monterey No 2		07/25/96	0.75
IL	Douglas	Illinois	Zeigler #5	Sealed	05/27/87	0.35
IL	Douglas	Illinois	Murdock		11/01/96	0.60
IL	Franklin	Illinois	Old Ben No 27	Sealed	02/05/87	0.75
IL	Franklin	Illinois	Old Ben No 21	Sealed/Recovering Methane	11/13/95	1.40

State	County	Coal Basin	Mine Name	Current Emissions Status	Date Abandoned	Active Mine Emissions (mmcf/d)
IL	Franklin	Illinois	Old Ben No 25	Sealed	09/10/96	1.00
IL	Franklin	Illinois	Old Ben No 26	Sealed/Recovering Methane	07/10/98	1.60
IL	Franklin	Illinois	Old Ben No 24	Sealed/Recovering Methane	07/10/98	1.20
IL	Gallatin	Illinois	Eagle No 1		01/31/91	0.35
IL	Gallatin	Illinois	Eagle No. 2	Sealed	06/10/94	0.75
IL	Gallatin	Illinois	Eagle Valley Mine	Sealed	08/12/02	0.25
IL	Hamilton	Illinois	Inland No 2		06/10/82	0.20
IL	Jefferson	Illinois	Orient #3	Sealed	02/01/84	1.50
IL	Jefferson	Illinois	Orient #5	Sealed	02/01/84	1.50
IL	Jefferson	Illinois	Wheeler Creek		04/04/88	0.75
IL	Jefferson	Illinois	Orient No 6	Sealed	03/13/97	1.00
IL	Montgomery	Illinois	Crown	Sealed	06/10/72	1.00
IL	Montgomery	Illinois	HILLSBORO MINE		12/02/83	0.35
IL	Perry	Illinois	Kathleen		08/23/95	0.35
IL	Randolph	Illinois	Baldwin No 1		06/10/93	0.20
IL	Randolph	Illinois	Spartan	Sealed	12/10/97	0.35
IL	Saline	Illinois	No 5	Flooded	01/26/73	0.15
IL	Saline	Illinois	No 16	Flooded	10/10/73	0.15
IL	Saline	Illinois	Sahara No 20	Flooded	10/11/83	0.35
IL	Saline	Illinois	Sahara No 21		09/15/93	0.30
IL	Saline	Illinois	Big Ridge Mine	Venting	03/15/97	0.60
IL	Saline	Illinois	Big Ridge Portal No. 2	Venting	10/09/02	1.00
IL	St. Clair	Illinois	RIVER KING UNDERGROUND		05/11/90	0.20
IL	Wabash	Illinois	Wabash		1/14/2008	2.06
IL	Washington	Illinois	Marissa Mine	Sealed	12/18/00	0.20
IL	White	Illinois	Pattiki Mine	Sealed	09/01/03	1.90
IL	Williamson	Illinois	ZEIGLER #4 UG	Sealed	11/14/80	0.75
IL	Williamson	Illinois	ORIENT NO. 4	Sealed	09/01/87	0.75
IN	Gibson	Illinois	Kings	Sealed/Recovering Methane	10/29/73	0.35
IN	Sullivan	Illinois	Thunderbird	Sealed	06/10/72	0.75
IN	Sullivan	Illinois	Buck Creek	Sealed	02/02/98	0.35
KY	Davies	Illinois	Pride Mine		11/08/90	0.10
KY	Hopkins	Illinois	East Diamond	Venting/Flooded	06/10/72	0.35
KY	Hopkins	Illinois	Island Creek No 9	Venting/Flooded	06/10/74	0.35
KY	Hopkins	Illinois	FIES MINE	Venting/Flooded	01/11/80	1.10
KY	Hopkins	Illinois	ZEIGLER NO 9 MINE		01/11/80	0.75

State	County	Coal Basin	Mine Name	Current Emissions Status	Date Abandoned	Active Mine Emissions (mmcf/d)
KY	Hopkins	Illinois	Drake No 4	Flooded	04/27/82	0.35
KY	Hopkins	Illinois	Providence No 1	Venting/Flooded	09/29/82	0.35
KY	Hopkins	Illinois	Busick Mine		06/29/83	0.35
KY	Hopkins	Illinois	Green River No.9		05/01/92	1.20
KY	Hopkins	Illinois	South Hopkins		05/13/94	0.20
KY	Hopkins	Illinois	West Hopkins	Sealed/Filled	09/05/94	0.35
KY	Muhlenberg	Illinois	Drake No 1	Sealed/Filled	06/10/72	0.35
KY	Muhlenberg	Illinois	Crescent	Flooded	06/10/77	0.75
KY	Muhlenberg	Illinois	River Queen Underground No 1	Flooded	02/02/81	0.35
KY	Muhlenberg	Illinois	Star Underground	Flooded	07/31/89	0.35
KY	Muhlenberg	Illinois	Graham No 3		04/27/90	0.10
KY	Muhlenberg	Illinois	Sinclair Slope No 2 Mine		07/23/92	0.10
KY	Muhlenberg	Illinois	Martwick Mine	Sealed	02/08/01	0.25
KY	Ohio	Illinois	ALSTON NO 3 MINE		02/06/81	0.35
KY	Ohio	Illinois	Peacock Coal Mine No.		02/01/83	0.75
KY	Ohio	Illinois	KEN NO 4 MINE		09/01/84	0.35
KY	Union	Illinois	Pyro No 2	Sealed	06/10/74	0.35
KY	Union	Illinois	Peabody Camp No 1	Sealed	06/10/83	0.35
KY	Union	Illinois	Palco Mine		06/10/89	0.15
KY	Union	Illinois	Ohio No 11		06/10/89	0.10
KY	Union	Illinois	Pyro No. 9 Slope William Station		11/15/91	1.20
KY	Union	Illinois	Pyro No. 11 Highway		11/15/91	0.20
KY	Union	Illinois	Camp No.2	Sealed	08/20/93	0.40
KY	Union	Illinois	Hamilton No 2	Flooded	03/18/94	0.35
KY	Union	Illinois	Hamilton No 1	Venting/Flooded	05/14/96	0.35
KY	Webster	Illinois	Dorea	Sealed/Filled	01/29/93	0.35
KY	Webster	Illinois	Smith U/G mine		09/21/00	0.35
KY	Webster	Illinois	Baker Mine		04/04/05	1.51
OH	Belmont	Northern Appl.	Powhatan No 4	Venting	06/10/78	0.75
OH	Belmont	Northern Appl.	POWHATAN NO 5 MINE	Venting	03/31/81	0.35
OH	Belmont	Northern Appl.	POWHATAN NO 1	Sealed	02/16/82	0.60
OH	Belmont	Northern Appl.	Powhatan No 3	Venting	03/18/83	0.35
OH	Belmont	Northern Appl.	ALLISON MINE	Venting	01/11/84	0.35
OH	Belmont	Northern Appl.	Saginaw no 1	Venting	06/17/93	0.35
OH	Harrison	Northern Appl.	Mars No 2	Flooded	06/10/74	0.50
OH	Harrison	Northern Appl.	Nelms #1	Venting/Recovering Methane	06/10/77	1.90

State	County	Coal Basin	Mine Name	Current Emissions Status	Date Abandoned	Active Mine Emissions (mmcf/d)
OH	Harrison	Northern Appl.	Rose Valley No. 6	Sealed	08/28/80	0.50
OH	Harrison	Northern Appl.	VAIL	Venting	01/04/84	0.35
OH	Harrison	Northern Appl.	Oak Park No 7	Sealed	05/13/88	0.75
OH	Harrison	Northern Appl.	NELMS NO 2	Venting	06/09/93	1.50
OH	Jefferson	Northern Appl.	Jensie	Venting	06/10/74	0.35
OH	Meigs	Northern Appl.	Meigs No 1		06/10/89	0.40
OH	Monroe	Northern Appl.	POWHATAN 7 MINE	Temporary Seal	08/03/92	0.35
OH	Perry	Northern Appl.	Sunnyhill No. 9 South		07/10/91	0.10
OH	Vinton	Northern Appl.	Raccoon #3		09/25/89	0.35
PA	Allegheny	Northern Appl.	Oakmont		05/01/80	0.20
PA	Allegheny	Northern Appl.	HARMAR MINE	Sealed	01/13/89	0.35
PA	Allegheny	Northern Appl.	Renton Mine	Sealed/Pumping Water	10/23/92	0.70
PA	Allegheny	Northern Appl.	Allegheny No. 2 & Portal No. 3		10/25/93	0.10
PA	Allegheny	Northern Appl.	OCEAN #5 MINE	Sealed	03/18/94	0.35
PA	Allegheny	Northern Appl.	Newfield	Sealed	06/26/95	0.75
PA	Armstrong	Northern Appl.	Harold No 1		06/10/74	0.15
PA	Armstrong	Northern Appl.	DAVID MINE	Sealed	02/27/96	0.35
PA	Armstrong	Northern Appl.	Jane	Sealed	08/22/96	0.75
PA	Armstrong	Northern Appl.	Emilie No 1		01/21/00	0.10
PA	Armstrong	Northern Appl.	TJS #1		04/09/02	0.20
PA	Cambria	Northern Appl.	Bethlehem No 31	Sealed	01/11/82	0.35
PA	Cambria	Northern Appl.	Bethlehem No 77	Flooded/Pumping Water	01/11/82	0.30
PA	Cambria	Northern Appl.	Nanty Glo No 31	Sealed	06/10/84	0.35
PA	Cambria	Northern Appl.	Bethlehem No 32	Sealed	09/17/85	4.50
PA	Cambria	Northern Appl.	Lancashire No 25	Sealed	03/05/86	0.35
PA	Cambria	Northern Appl.	Lancashire No 24		03/05/86	0.20
PA	Cambria	Northern Appl.	Lancashire No 20	Sealed	09/09/88	0.90
PA	Cambria	Northern Appl.	Cambria Slope No 33	Sealed/Recovering Methane	07/15/94	14.00
PA	Centre	Northern Appl.	Rushton		12/31/92	0.40
PA	Fayette	Northern Appl.	Isabella	Sealed	09/25/84	0.20
PA	Greene	Northern Appl.	WARWICK MINE NO. 2	Sealed	05/01/80	0.30
PA	Greene	Northern Appl.	ROBENA MINE	Flooded	02/12/84	2.10
PA	Greene	Northern Appl.	GATEWAY MINE	Recovering Methane/Partially Flooded	12/09/92	2.60
PA	Greene	Northern Appl.	Shannopin Mine	Sealed	03/25/96	1.00
PA	Greene	Northern Appl.	Nemacolin Mine	Flooded	03/25/96	0.60

State	County	Coal Basin	Mine Name	Current Emissions Status	Date Abandoned	Active Mine Emissions (mmcf/d)
PA	Greene	Northern Appl.	Lazarus		06/13/96	0.60
PA	Greene	Northern Appl.	Monongahela Resource	Venting	06/13/96	0.35
PA	Greene	Northern Appl.	Warwick Mine No 3	Flooded/Pumping Water	03/10/97	1.10
PA	Indiana	Northern Appl.	CONEMAUGH NO. 1		09/23/82	0.35
PA	Indiana	Northern Appl.	Greenwich Collieries No 1		08/01/88	0.30
PA	Indiana	Northern Appl.	Urling No. 1	Venting	12/18/89	0.70
PA	Indiana	Northern Appl.	Florence No. 1		03/07/90	0.20
PA	Indiana	Northern Appl.	Urling No. 3	Venting	01/03/91	0.70
PA	Indiana	Northern Appl.	Greenwich Collieries No 2		03/13/93	1.20
PA	Indiana	Northern Appl.	Homer City		06/30/93	1.70
PA	Indiana	Northern Appl.	Florence No. 2		10/04/94	0.30
PA	Indiana	Northern Appl.	Lucerne No 8		03/31/95	0.35
PA	Indiana	Northern Appl.	Lucerne No. 9	Sealed/Partially Flooded	08/23/95	0.35
PA	Indiana	Northern Appl.	Marion	Sealed	01/23/97	0.75
PA	Indiana	Northern Appl.	Lucerne No. 6 Extension		05/24/00	0.30
PA	Indiana	Northern Appl.	Urling No. 2 Mine	Venting	08/20/01	0.20
PA	Indiana	Northern Appl.	Tanoma Mine		09/29/01	0.75
PA	Luzerne	Northern Appl.	No. 19 Wanamie Colliery		01/10/72	0.20
PA	Luzerne	Northern Appl.	Forge Slope		06/10/72	1.50
PA	Somerset	Northern Appl.	BIRD #2	Flooded	10/30/91	0.75
PA	Somerset	Northern Appl.	BIRD #3	Flooded	10/30/91	0.40
PA	Somerset	Northern Appl.	Grove No. 1		12/21/94	0.35
PA	Washington	Northern Appl.	VESTA #4 MINE	Sealed	04/14/80	0.20
PA	Washington	Northern Appl.	Beth Ellsworth No 51	Flooded	06/10/83	0.75
PA	Washington	Northern Appl.	MONTOUR #4	Flooded	08/01/83	3.00
PA	Washington	Northern Appl.	WESTLAND #2	Sealed	09/27/83	0.40
PA	Washington	Northern Appl.	Maple Creek No. 2		01/01/86	1.00
PA	Washington	Northern Appl.	Marianna No 58	Sealed/Partially Flooded	08/31/88	2.20
PA	Washington	Northern Appl.	Somerset No. 60		07/11/90	1.50
PA	Washington	Northern Appl.	Clyde		12/09/94	0.10
PA	Washington	Northern Appl.	VESTA #5 MINE	Flooded	04/17/96	1.60
PA	Washington	Northern Appl.	Westland	Sealed/Pumping Water	05/22/96	0.75
PA	Westmoreland	Northern Appl.	Hutchinson	Flooded	05/23/73	0.35
PA	Westmoreland	Northern Appl.	Banning No 4	Flooded	02/02/83	0.75
PA	Westmoreland	Northern Appl.	DELMONT	Flooded	03/04/88	0.35
WV	Barbour	Northern Appl.	Boulder Mine	Sealed	03/17/83	2.20

State	County	Coal Basin	Mine Name	Current Emissions Status	Date Abandoned	Active Mine Emissions (mmcf/d)
WV	Barbour	Northern Appl.	BADGER NO. 15 MINE	Sealed	02/26/84	0.20
WV	Barbour	Northern Appl.	BADGER NO 14 MINE	Sealed	08/28/85	0.30
WV	Barbour	Northern Appl.	Diamond No 1		06/10/89	1.40
WV	Gilmer	Northern Appl.	Kanawha #1	Sealed	09/15/82	2.20
WV	Gilmer	Northern Appl.	Kanawha #2	Sealed	11/02/82	2.20
WV	Grant	Northern Appl.	Potomac	Sealed	04/07/80	0.35
WV	Harrison	Northern Appl.	Compass No 2	Sealed	06/10/74	0.75
WV	Harrison	Northern Appl.	Williams	Venting/Partially Flooded	06/10/78	1.00
WV	Harrison	Northern Appl.	Pioneer Mine	Venting/Partially Flooded	11/12/82	2.20
WV	Marion	Northern Appl.	No 93	Venting	06/10/78	1.00
WV	Marion	Northern Appl.	Consol No 9	Venting/Recovering Gas	09/10/78	4.70
WV	Marion	Northern Appl.	Bethlehem No 44	Venting	10/01/79	0.30
WV	Marion	Northern Appl.	Consol No. 20	Venting/Recovering Gas	10/01/82	1.10
WV	Marion	Northern Appl.	Bethlehem No 41	Venting/Partially Flooded	02/15/83	0.75
WV	Marion	Northern Appl.	JOANNE MINE	Venting	03/10/83	1.30
WV	Marion	Northern Appl.	Phillip Sporn No 1		12/18/85	0.30
WV	Marion	Northern Appl.	Federal No 1	Flooded	03/24/87	3.80
WV	Marion	Northern Appl.	Martinka No 1		06/10/92	0.20
WV	Marion	Northern Appl.	Tygart River	Flooded/Pumping Water	08/26/93	0.35
WV	Marshall	Northern Appl.	Alexander	Venting/Partially Flooded	07/10/81	1.00
WV	Marshall	Northern Appl.	Ireland	Sealed/Recovering Methane	06/10/94	1.50
WV	Mason	Northern Appl.	Putnam		12/10/73	0.20
WV	Monongalia	Northern Appl.	Pursglove No. 15		09/14/89	2.10
WV	Monongalia	Northern Appl.	Blacksville No 1	Sealed/Recovering Methane	06/10/93	4.80
WV	Monongalia	Northern Appl.	Arkwright No 1	Sealed/Recovering Methane	05/24/96	7.00
WV	Monongalia	Northern Appl.	Osage No. 3	Sealed/Recovering Methane	05/25/96	6.30
WV	Ohio	Northern Appl.	Valley Camp No 3		01/10/83	1.00
WV	Preston	Northern Appl.	#1	Sealed	09/14/82	2.20
WV	Preston	Northern Appl.	H & H Mine No 2	Sealed	03/22/83	2.20
WV	Preston	Northern Appl.	#3 Mine	Sealed	07/19/83	2.20
WV	Preston	Northern Appl.	Whitetail Mine	Sealed	01/25/02	0.60
WV	Taylor	Northern Appl.	Keg No 1		11/15/82	1.70
CO	Delta	Piceance	Hawks Nest West	Sealed	10/01/81	0.20
CO	Delta	Piceance	Hawks Nest East	Venting	01/03/86	0.90
CO	Delta	Piceance	Somerset Mine	Sealed	02/16/89	0.70

State	County	Coal Basin	Mine Name	Current Emissions Status	Date Abandoned	Active Mine Emissions (mmcf/d)
CO	Delta	Piceance	Bowie No 1	Venting	12/10/98	1.20
CO	Delta	Piceance	Sanborn Creek	Sealed	10/01/03	5.40
CO	Delta	Piceance	Bowie #3	Sealed	9/30/05	0.38
CO	Gunnison	Piceance	Bear Creek Mine	Sealed	10/12/79	0.70
CO	Gunnison	Piceance	BEAR MINE	Sealed	05/27/82	0.75
CO	Gunnison	Piceance	Bear No 3	Flooded	04/01/97	0.35
CO	Mesa	Piceance	Roadside North Portal	Sealed	02/25/00	0.70
CO	Mesa	Piceance	Roadside South Portal	Venting/Partially Flooded	04/25/00	0.40
CO	Moffat	Piceance	Eagle No 5		03/04/96	0.35
CO	Pitkin	Piceance	COAL BASIN	Sealed	02/27/81	1.60
CO	Pitkin	Piceance	L.S.Wood	Sealed	12/02/85	2.40
CO	Pitkin	Piceance	Thompson Creek No. 1	Sealed	09/01/86	0.35
CO	Pitkin	Piceance	Dutch Creek No. 2	Sealed	07/01/88	4.20
CO	Pitkin	Piceance	Dutch Creek No 1	Sealed	10/04/92	4.80
CO	Rio Blanco	Piceance	Rienau No 2		08/15/86	0.10
CO	Fremont	Raton	Southfield Mine	Sealed	05/10/01	0.35
CO	Las Animas	Raton	Allen East & West		06/10/82	0.75
CO	Las Animas	Raton	New Elk Mine		12/09/89	0.25
CO	Las Animas	Raton	Golden Eagle	Sealed/Recovering Methane	05/30/96	7.50
NM	Colfax	Raton	York Canyon Mine		03/03/86	0.30
NM	Colfax	Raton	Cimarron	Sealed	10/10/98	0.75
UT	Carbon	Uinta	Carbon No 2		10/04/72	0.35
UT	Carbon	Uinta	Kennilworth	Sealed	06/10/74	0.75
UT	Carbon	Uinta	Braztah No 3		06/10/79	0.35
UT	Carbon	Uinta	Price River No. 3		06/10/82	0.90
UT	Carbon	Uinta	Price River No. 5		06/10/82	0.30
UT	Carbon	Uinta	Beehive	Sealed	03/27/87	1.70
UT	Carbon	Uinta	Castle Gaste Portal #5	Sealed	03/31/88	1.70
UT	Carbon	Uinta	Sunnyside Mine No. 3	Sealed	09/20/90	1.60
UT	Carbon	Uinta	Castle Gate Mine	Sealed	10/23/91	0.75
UT	Carbon	Uinta	Sunnyside Mine No. 1	Sealed	06/27/94	1.70
UT	Carbon	Uinta	Soldier Canyon	Venting	10/10/99	3.40
UT	Carbon	Uinta	Willow Creek	Venting	08/06/03	2.00
UT	Emery	Uinta	Trail Mountain Mine	Venting	06/29/01	0.85
UT	Grand	Uinta	Wilberg	Sealed	02/05/90	1.70
UT	Sevier	Uinta	Emery	Sealed	08/01/95	0.35

State	County	Coal Basin	Mine Name	Current Emissions Status	Date Abandoned	Active Mine Emissions (mmcf/d)
AL	Jefferson	Warrior	Flat Top	Flooded	06/10/79	1.00
AL	Jefferson	Warrior	Mulga	Flooded	06/10/83	1.20
AL	Jefferson	Warrior	Concord No 1	Flooded	06/10/84	4.50
AL	Jefferson	Warrior	Bessie Mine	Flooded	06/10/89	1.00
AL	Jefferson	Warrior	MAXINE MINE	Flooded	10/02/89	0.35
AL	Jefferson	Warrior	NEBO MINE	Flooded	10/02/89	0.35
AL	Jefferson	Warrior	Chetopa	Flooded	06/10/97	0.75
AL	Jefferson	Warrior	Blue Creek No. 3	Flooded/Recovering Methane	10/01/99	12.70
AL	Shelby	Warrior	Segco No 2	Flooded	11/20/73	0.35
AL	Shelby	Warrior	BOONE NO. 1	Flooding	12/10/98	1.30
AL	Walker	Warrior	Segco No 1	Flooded	06/10/82	0.75
AL	Walker	Warrior	Gorges No 7	Flooded	10/24/86	0.35
AL	Walker	Warrior	Mary Lee No 1	Flooded	05/10/87	1.50
AL	Walker	Warrior	Mary Lee No 2	Flooded	06/10/94	0.35

Agencies and Organizations with Information on Abandoned Coal Mines and Regulations

Geological Survey of Alabama
420 Hackberry Lane (W.B. Jones Hall)
The University of Alabama
Tuscaloosa, Alabama 35486-6999
(205) 349-2852
www.gsa.state.al.us

Geological Survey
Indiana University
Coal and Industrial Minerals
611 North Walnut Grove
Bloomington, IN 47405-2208
(812) 855-2687
www.igs.indiana.edu

Colorado Division of Reclamation Mining
and Safety
1313 Sherman St., Rm. 215
Denver, CO 80203
(303) 866-3567
www.mining.state.co.us

Kentucky Division of Abandoned Mine Lands
2521 Lawrenceburg Road
Frankfort, KY 40601
(502) 564-2141 x157
www.aml.ky.gov

Illinois Department of Natural Resources
Illinois Office of Mines and Minerals
300 W. Jefferson, Suite 300
Springfield, IL 62701-1787
(217) 782-6791
www.dnr.state.il.us/mines

Ohio Department of Natural Resources
Mineral Resources Management
2045 Morse Road
Columbus, Ohio 43229-6693
(614) 265-6633
www.dnr.state.ohio.us/mining

Illinois State Geological Survey
615 E. Peabody
Champaign, IL 61820
(217) 333-4747
www.isgs.uiuc.edu

Pennsylvania Dept. of Environmental
Protection
Bureau of Abandoned Mine Reclamation
Rachel Carson State Office Building
P.O. Box 8476
Harrisburg, PA 17105-8476
(717) 783-2267
www.depweb.state.pa.us/abandonedminerec

Indiana Department of Natural Resources
Division of Reclamation
402 W. Washington St., Rm. W295
Indianapolis, IN 46204
(317) 232-1547
www.in.gov/dnr/reclamation/index.htm

Utah Department of Natural Resources
Division of Oil, Gas, and Mining
Abandoned Mine Reclamation
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801
(801) 538-5323
www.ogm.utah.gov/amr

Virginia Dept. of Mines, Minerals, and Energy
Ninth Street Office Building, 8th Floor
202 Ninth Street
Richmond, VA 23291-3402
(804) 692-3200
www.dmme.virginia.gov

West Virginia Dept. of Environmental
Protection
Office of Abandoned Mine Lands & Reclamation
601 57th Street, SE
Charleston, WV 25304
(304) 926-0485
<http://www.wvdep.org/item.cfm?ssid=12>

U.S. Mine Safety and Health Administration
(MSHA)
1100 Wilson Boulevard, 21st Floor
Arlington, VA 22209-3939
(202) 693-9400
www.msha.gov