

Table C.1
Underground Mines Active during the Study Period

County	Mine Name	Coal Seam	Mining Method
Allegheny	Newfield	U. Freeport	Room-and-pillar
Armstrong	Rosebud No. 2	L. Kittanning	Room-and-pillar
	Rosebud No. 3	Clarion	Room-and-pillar
	Darmac No. 2	U. Freeport	Room-and-pillar
	Margaret No. 11 (Portal No. 2)	U. Freeport	Room-and-pillar
	Loyal Creek No. 4	U. Freeport	Room-and-pillar
	Emilie No. 4	U. Freeport	Room-and-pillar
	Jane	L. Freeport	Room-and-pillar w/ retreat
	Spaces Corner	U. Freeport	Room-and-pillar
	David/Dianne	L. Kittanning	Room-and-pillar w/ retreat
	TJS No. 1	U. Freeport	Room-and-pillar
	Darmac No. 3	U. Freeport	Room-and-pillar w/ retreat
	Roaring Run	U. Freeport	Room-and-pillar
	Tracy Lynne	L. Kittanning	Room-and-pillar
	TJS No. 4	U. Freeport	Room-and-pillar
	Triple "K" No. 1	U. Freeport	Room-and-pillar
	Margaret No. 11 (Portal No. 3)	U. Freeport	Room-and-pillar
Emilie No. 1/2	U. Freeport	Room-and-pillar w/ retreat	
Butler	Carol	U. Freeport	Room-and-pillar
Cambria	Rice No. 2	U. Kittanning	Room-and-pillar
	Meadows/Leonard	U. Kittanning	Room-and-pillar
	Rampside No. 1	U. Kittanning	Room-and-pillar
	Red Oak, South Mine	U. Kittanning	Room-and-pillar
Clearfield	Manor No. 44	L. Kittanning	Room-and-pillar
	Laurel Ridge	L. Kittanning	Room-and-pillar
Greene	Cumberland	Pittsburgh	Longwall
	Emerald No. 1	Pittsburgh	Longwall
	Bailey	Pittsburgh	Longwall
	Enlow Fork	Pittsburgh	Longwall
	Titus	Sewickley	Room-and-pillar w/ retreat
	Warwick	Sewickley	Longwall
	Target No. 1	Sewickley	Room-and-pillar w/ retreat
	Dilworth	Pittsburgh	Longwall
	Petitte No. 1	Sewickley	Room-and-pillar w/ retreat
	Meadow Run	Sewickley	Room-and-pillar w/ retreat
	Blacksville No. 2	Pittsburgh	Longwall
	Humphrey No. 7	Pittsburgh	Longwall
	Dunkard No. 2	Sewickley	Room-and-pillar w/ retreat
	B&M No. 2	Sewickley	Room-and-pillar w/ retreat
	Monongahela Resources	Pittsburgh	Room-and-pillar
	Mathews	Sewickley	Room-and-pillar w/ retreat

Table C.1 (continued)
Underground Mines Active during the Study Period

County	Mine Name	Coal Seam	Mining Method
Indiana	Plumcreek No. 1	U. Freeport	Room-and-pillar
	Urling No. 1/3	L. Freeport	Room-and-pillar w/ retreat
	Penn Run	U. Freeport	Room-and-pillar
	Tanoma	L. Kittanning	Room-and-pillar w/ retreat
	Lucerne No. 6E	U. Freeport	Room-and-pillar w/ retreat
	Marshall Run	U. Kittanning	Room-and-pillar
	Leonard Run	L. Kittanning	Room-and-pillar w/ retreat
	Lucerne No. 8	U. Freeport	Room-and-pillar w/ retreat
	Marion	U. Freeport	Room-and-pillar w/ retreat
	Lucerne No. 9	L. Freeport	Room-and-pillar w/ retreat
	Burrell	U. Freeport	Room-and-pillar w/ retreat
	Dutch Run	U. Freeport	Room-and-pillar
	Rayne No. 1	L. Freeport	Room-and-pillar
	Bear Run No. 2	Clarion	Room-and-pillar
Ondo	L. Kittanning	Room-and-pillar	
Indiana/Armstrong	Parker	U. Freeport	Room-and-pillar
Jefferson	Dora No. 6	L. Kittanning	Room-and-pillar
	Ramseytown	L. Kittanning	Room-and-pillar
	Clutch Run	L. Kittanning	Room-and-pillar
	Kennedy No. 4	L. Freeport	Room-and-pillar
	Sandy Lands	M. Kittanning	Room-and-pillar
	Dora No. 8	L. Kittanning	Room-and-pillar
	Dora No. 7	L. Kittanning	Room-and-pillar
	Sugarcamp No. 2	L. Kittanning	Room-and-pillar w/ retreat
Somerset	Solar No. 7	U. Kittanning	Room-and-pillar w/ retreat
	Grove No. 1	U. Freeport, U. Kittanning	Room-and-pillar
	Solar No. 10	U. Kittanning	Room-and-pillar w/ retreat
	Black Mountain	Brookville	Room-and-pillar
	Diamond T	M. Kittanning, L. Kittanning	Room-and-pillar w/ retreat
	Quemahon. Coll. No. 1	U. Kittanning	Room-and-pillar
	Miller	U. Freeport	Room-and-pillar w/ retreat
	Barbara No. 1&2	U. Kittanning	Room-and-pillar w/ retreat
	Longview	L. Kittanning	Room-and-pillar w/ retreat
	PBS - Job No. 37	L. Freeport	Room-and-pillar
	Sarah	U. Kittanning	Room-and-pillar w/ retreat
	Geronimo	L. Kittanning	Room-and-pillar
Trent No. 1	U. Kittanning	Room-and-pillar	
Washington	Maple Creek	Pittsburgh	Longwall
	Mathies	Pittsburgh	Room-and-pillar w/ retreat
	84 Mine	Pittsburgh	Longwall
	Clyde	Pittsburgh	Room-and-pillar w/ retreat
	Avella	Pittsburgh	Room-and-pillar
	Penn Balt No. 1	Pittsburgh	Room-and-pillar

Figure C.1
Description of Six-month Mine Map Database

Property Owner. This field contains the name of the property owner at the time mining occurred. The information is derived from the six-month map and associated property list or structure inventory.

Address. The field contains the address of the property owner based on the address shown on the notification letter.

Mine Name, Permittee and Permit Number. These fields contain the name of the mine, the name of the person or company that holds the permit and the permit number. This information is derived from six-month maps or permit application files.

Six Month Mine Map Sheet Number. This field identifies the number of the map sheet on which a particular property is located.

Notification or Waiver Dates. These fields contain information relating to the dates on which property owners and residents were notified of proposed mining. Waivers pertain to situations where property owners or residents waived their right to six months advance notification. This information was derived from the copies of the correspondence.

Structure Identification Number. This field contains the identification number assigned to the structure by the mine operator. The information is derived from the six-month mine map and structure inventory.

Structure Type. This field describes the type of structures included on a surface property. Structure types are determined from information on six-month maps and structure inventories. Structures are classified as falling in one of eight classes by McMurray staff. Structure classifications include:

- Dwellings (houses and mobile homes)
- Barns
- Garages
- Churches
- Schools
- Public Buildings
- Commercial Buildings
- Others (sheds, corn cribs, silos, camps, pavilions, etc.)

Water Supply Type and Use. These fields contain information about the water supply or supplies that exist on an individual property. The “type” field identifies the supply as a well, spring, public water system or unknown source and is based on six-month map information. Water use is identified as “residential,” “business,” “agricultural,” “other” or “unknown.”

Figure C.1 (continued)
Description of Six-month Mine Map Database

Date Last Mined. This field is used to indicate if mining occurred near enough to a structure, property or water supply to potentially cause an impact. This determination was made by mining engineers in the McMurray Office based on whether mine workings were developed within 200 feet of the structure, property or water supply. For those structures, properties and water supplies that had workings within 200 feet, the date of the nearest mining appears as the “Date Last Mined.”

Longwall within 200 Feet. This field is used to identify structures, properties and water supplies with longwall mining within 200 feet. The information is derived from mining shown on the six-month maps.

Likely to be Subsidied. This field is used to indicate whether or not a structure is likely to subside. It is based on a McMurray mining engineer’s assessment of the type and depth of mining and its proximity to the structure.

Public Water Available. This field is used to indicate if public water service is available to a particular property. It is based on information in permit applications and the observations of McMurray staff.

Act 54 Fact Sheet. This field is used to indicate whether or not the McMurray Office has sent an Act 54 Fact Sheet to the owner of a property.

Act 54 Notification Letter. This field is used to indicate whether or not the notification sent by the mine operator to the property owner or resident complies with the requirements of Act 54. It is based on determinations by McMurray staff.

Figure C.2
Description of Claims Database

Date Inquiry Received. This is the date that the DEP or the coal operator has been notified that mine subsidence from active mining operations has impacted one or more of the above listed features.

Inquiry Name, Address and Phone Number. Landowner information. Not the location where a structure, water supply or a land feature has been impacted.

Date Problem First Noticed. This date is important in establishing whether Act 54, the Fed. Energy Act or the former BMSLC Act applies.

Mine Operator, Permit Number and Mine Name. These fields contain the name of the company that holds the permit, the permit number and the mine name.

Township and County. The township and county where the problem is located.

Date the Operator Was Notified. This date establishes a time frame for water supply replacement (temporary and permanent) and settlement on damaged structures.

Person Contacted. This field is the name of the coal operator's representative that was contacted.

Results of Communication. A narrative description of the results of the communications between the landowner and the coal operator.

Remarks. This field is for any additional comments or information.

Feature Type.

- House
- Barn
- Garage
- Spring
- Stream
- Well

Feature Use.

- Residential
- Commercial

Address. The address for this field is the location where the feature damage has occurred.

Accessible to the Public (yes/no). The information provided here helps to determine if a commercial building is protected by the act.

Figure C.2 (continued)
Description of Claims Database

Year Built and Date Purchased. The information in this field determines if the structure is covered by Act 54, Fed. Energy Act or former BMSCL Act.

Contamination, diminution or Other Water Damage. The information provided here may help to determine the cause of water problem.

Public water supply (yes/no).

Voluntary agreement in effect (yes/no). A pre-mining or post-mining agreement between the landowner and the coal operator may waive an individual's rights covered by the act.

Pre-Mining or Post-Mining Survey Conducted (yes/no). Surveys are conducted on water supplies for quantity and quality while structures are surveyed on condition.

Refused Survey (yes/no). Refusal of a pre or post-mining survey (by the landowner) may waive an individual's rights covered by the act.

Own/Rent. The first contact about damages may come from an individual that is renting the property.

Nature of Damages. This field is a narrative description of the damages.

Land Damage (yes/no).

Irreparably Damaged (yes/no). This information may help determine if an operator, in the future with a similar situation, may be required to take measures to prevent or minimize irreparable damage.

Water Source Depth. This field contains all water source depth. Wells are measured in feet from the surface to the bottom of the well. Springs and streams are zero feet.

Latitude/ longitude.

UTM Zone

Northing/Easting

Quad Name. All refer to map locations.

Cover at Site. This field contains the measurement in feet from the surface to the coal seam

Distance to Nearest Mining. This is the distance measured horizontally from the feature to nearest mining.

Angle at Nearest Mining to Site. This is the angle that is formed by a straight line from the feature to the nearest mining and a straight line from the mining to the surface.

Mining Within 35 Degrees. The information here determines if the water supply is in the rebuttable presumption zone.

Figure C.2 (continued)
Description of Claims Database

Distance to Origin of Problem. The origin of the problem may not be the nearest mining. A feature may be situated over main entries but was damaged by an adjacent longwall panel. This is measured horizontally in feet.

Cover at origin of problem. This is measured from the surface to the origin of the problem.

Mining Height at Origin. This is the extraction height at the origin.

Angle From Origin. The angle that is formed by a straight line from the feature to the origin of the problem and then vertically from the origin to the surface.

Last Mining Date. The date that mining occurred nearest to the damaged feature.

Coal Seam. This field contains the name of the coal seam being mined.

Multiple Coal Seams (yes/no). Subsidence damage may be caused by an abandoned mine in a different coal seam.

Mining Method. This field contains the mining method that caused the damage to the feature.

Was Permittee Relieved of Liability (yes/no)? The coal operator may be relieved of liability for various reasons. One example would be if a landowner refused a pre-mining structure survey.

Resolution/Date of Resolution. This field is a narrative description of the Resolution.

Figure C.3
Claim Report Forms

D.E.P. INITIAL FAX REPORT FORM

DATE: _____ **TIME:** _____

TO: AMY STANLEY FROM: _____
D.E.P. _____
3913 WASHINGTON RD. _____
MCMURRAY, PA 15913 _____

FAX: 724-942-7258 **PHONE:** _____

DATE: _____

LAST NAME: _____ **FIRST NAME:** _____

ADDRESS: _____

CITY: _____ **STATE:** ____ **ZIP:** _____

PHONE: _____

WATER PROBLEM: ____ **STRUCTURE/LAND DAMAGE:** ____

FEATURE TYPE: HOUSE GARAGE BARN SPRING STREAM WELL
OTHER: _____

OPERATOR: _____ **PERMIT #:** _____

TOWNSHIP: _____ **COUNTY:** _____

COMMENTS:

INQUIRY INPUT FORM

INITIAL INFORMATION:

DATE INQUIRY RECEIVED: ____/____/____

INQUIRY:

LAST NAME: _____ **FIRST NAME:** _____

ADDRESS: _____

CITY: _____ **ST:** ____ **ZIP:** _____

PHONE: ____ - ____ - ____ **H** ____ - ____ - ____ **W**

WATER PROBLEM: ____ **STRUCTURE/LAND DAMAGE:** ____ **OTHER:** ____

DATE PROBLEM FIRST NOTICED: ____/____/____

OPERATOR: _____ **PERMIT #:** _____

MINE NAME: _____

TOWNSHIP: _____ **COUNTY:** _____

OPERATOR NOTIFIED BY INQUIRER: Y N **DATE:** ____/____/____

PERSON CONTACTED: _____

(IF YES, RESULTS OF COMMUNICATION):

REMARKS:

INQUIRY INPUT FORM

FEATURE TYPE (CIRCLE ONE): HOUSE GARAGE BARN
SPRING STREAM WELL

FEATURE USE (CIRCLE ONE): RESIDENTIAL COMMERCIAL

ADDRESS: _____

CITY: _____ **ST:** _____ **ZIP:** _____

ACCESSIBLE TO THE PUBLIC: Y N

YEAR BUILT: _____ **DATE PURCHASED:** ____/____/____

____ **CONTAMINATION** ____ **DIMINUTION**
____ **OTHER WATER DAMAGE:** _____

PUBLIC WATER SUPPLY: Y N

VOLUNTARY AGREEMENT IN EFFECT: Y N

PRE-MINING SURVEY CONDUCTED: Y N

POST-MINING SURVEY CONDUCTED: Y N

REFUSED SURVEY: Y N **OWN/RENT:** _____

DATE OF DAMAGE: ____/____/____

NATURE OF DAMAGE:

(Page 2)

STRUCTURE/LAND FEATURE INPUT FORM

INQUIRY:

LAST NAME: _____ FIRST NAME: _____

ACT 54: _____ ENERGY ACT: _____ FORMER BMSLCA: _____

STRUCTURE DAMAGE: _____ HOUSE _____ BARN _____ GARAGE _____ OTHER _____

LAND DAMAGE: Y N IRREPARABLY DAMAGED: Y N

LOCATION:

LAT: _____ LONG: _____ QUAD NAME: _____

IV. OR UTM ZONE: _____ NORTHING: _____ EASTING: _____

OR MINE MAP REFERENCE & LOCATION: _____

COVER AT SITE: _____ DISTANCE TO NEAREST MINING: _____

ANGLE AT NEAREST MINING TO SITE: _____ °

MINING WITHIN 35° ANGLE: Y N

DISTANCE TO ORIGIN OF PROBLEM: _____ ANGLE FROM ORIGIN: _____

COVER AT ORIGIN OF PROBLEM: _____ MINING HEIGHT AT ORIGIN: _____

LAST MINING DATE: ____/____/____

COAL SEAM: _____ MULTIPLE COAL SEAMS: Y N

MINING METHOD: _____

WAS PERMITTEE RELIEVED OF LIABILITY: Y N

RESOLUTION DATE OF RESOLUTION: ____/____/____

WATER FEATURE INPUT FORM

INQUIRY:

LAST NAME: _____ FIRST NAME: _____

ACT 54: _____ ENERGY ACT: _____

WATER SOURCE DEPTH: _____

WATER TYPE (CIRCLE ONE): SPRING STREAM WELL

LOCATION:

LAT: _____ LONG: _____ QUAD NAME: _____

III. OR UTM ZONE: _____ NORTHING: _____ EASTING: _____

OR MINE MAP REFERENCE & LOCATION: _____

COVER AT SITE: _____ DISTANCE TO NEAREST MINING: _____

ANGLE AT NEAREST MINING TO SITE: _____°

MINING WITHIN 35° ANGLE: Y N

DISTANCE TO ORIGIN OF PROBLEM: _____ ANGLE FROM ORIGIN: _____

COVER AT ORIGIN OF PROBLEM: _____ MINING HEIGHT AT ORIGIN: _____

LAST MINING DATE: ____/____/____

COAL SEAM: _____ MULTIPLE COAL SEAMS: Y N

MINING METHOD: _____

REBUTTABLE PRESUMPTION: Y N

WAS PERMITTEE RELIEVED OF LIABILITY: Y N

RESOLUTION DATE OF RESOLUTION: ____/____/____

Figure C.4
Survey Letters to Mine Operators



Pennsylvania Department of Environmental Protection

3913 Washington Road
McMurray, PA 15317
June 16, 1997

McMurray District Office

(412)-941-7100

Re: Act 54
Database Information

Dear Operator:

Section 18.1 of the Act 54 Amendments to the Bituminous Mine Subsidence and Land Conservation Act requires the Department collect data to determine the effects of deep mining on subsidence of surface structures and on water resources. This data is to be presented in a report which is to be generated every five (5) years. In preparation of this report, we herein request that you submit any data you may have including any correspondence and/or agreements made between you and a citizen concerning a water supply and/or structure damage inquiry or complaint. We ask that you submit this type of information for the period of August 1994 to present and continue to send any future information as may be applicable to this request. This information is necessary to ensure that we have an accurate account of actions taken between your company and the inquirer/complainant. Once the report is generated, a copy will be forwarded to your company.

I have attached copies of blank input forms for the database to illustrate the type of data we are looking for. All of the blanks may not be needed or available, i.e. if the property is directly undermined, the angle to nearest mining would be 0 and the origin of the problem would be directly below. These are Department forms and may not be applicable to all of the cases associated with your company. Please submit the data as best you can using these forms as a guideline. Our database is in the computer program "Access"; we can accept data on disk in "Access or Excel".

Should you have any questions, please contact me at the above number.

Sincerely,

William S. Plassio
District Mining Manager



Figure C.4 (continued)
Survey Letters to Mine Operators



Pennsylvania Department of Environmental Protection

3913 Washington Road
McMurray, PA 15317
November 20, 1997

McMurray District Office

(412)-941-7100

Re: Act 54
Database Information

Dear Operator:

This is a follow up to my letter dated June 16, 1997, concerning the collection of data to determine the effects of deep mining on subsidence of surface structures and on water resources in accordance with Section 18.1 of Act 54, the Bituminous Mine Subsidence and Land Conservation Act.

In the June 16th letter, the Department requested that you submit any data you may have including any correspondence and/or agreements made between you and a citizen concerning a water supply and/or structure damage inquiry or complaint.

If you have not already submitted this information, please do so on the enclosed blank input forms. These forms illustrate the type of data the Department is looking for and will be placing into our database. All the blanks may not be needed or available, i.e., if the property is directly undermined, the angle to nearest mining would be 0 and the origin of the problem would be directly below. These are Department forms and may not be applicable to all of the cases associated with your company. The Department asks that you submit this type of information for the period of August 1994 to present and continue to send any future information as may be applicable to this request. Our database is in the computer program "Access"; we can accept data on disk in "Access" or "Excel".

Should you have any questions, please contact Amy Stanley, Legal Assistant at the above number.

Sincerely,

William S. Plassio
District Mining Manager



Figure C.4 (continued)
Survey Letters to Mine Operators



Pennsylvania Department of Environmental Protection

3913 Washington Road
McMurray, PA 15317
February 4, 1998

McMurray District Office

(724)-941-7100
(Please note new area code)

CERTIFIED MAIL #Z 303 223 542

Re: Act 54
Database Information

Dear Operator:

On November 20, 1997, a letter was sent to your company requesting information required by Section 18.1(d) of the Bituminous Mine Subsidence and Land Conservation Act on water loss and structure damage due to mine subsidence. According to our records, you have either not submitted any information or indicated that none exists.

In order for the Department to begin properly evaluating the effectiveness of the 1994 amendments to BMSLCA, we must have the information requested by February 20, 1998. I have again enclosed blank input forms to illustrate the type of information we need. Please complete these forms and return them, or indicate that your company has no reported cases of water loss or structure damage to my office by February 20, 1998. Information is to be submitted for the period of August 1994 to present and on a continual basis in the future.

We wish to obtain this information on a voluntary basis. However, Section 5.2(a)(3) of BMSLCA requires mine operators to report all claims of water supply contamination, diminution, or interruption. Since this is the third letter requesting this information, failure to report claims by February 20, 1998, may be treated as a violation of the act.

Should you have any questions, please contact me at the above address.

Sincerely,

William S. Plassio
District Mining Manager



Figure C.4 (continued)
Survey Letters to Mine Operators



Pennsylvania Department of Environmental Protection

3913 Washington Road
McMurray, PA 15317
May 11, 1998

McMurray District Office

(724)-941-7100

Dear Operator:

Enclosed you will find a completed set of input forms to be used as a guide when reporting damage claims or water supply damage. A fictitious scenario of a longwall panel is depicted as an example on how the forms are to be filled out.

Any forms that are submitted in the future are to be filled out as described in the instructions. Please continue to report any future damage claims or water supply damage within 10 days of their resolution.

Thank you,

William S. Plassio
District Mining Manager



Figure C.4 (continued)
Survey Letters to Mine Operators



Pennsylvania Department of Environmental Protection

3913 Washington Road
McMurray, PA 15317
May 11, 1998

McMurray District Office

(724)-941-7100

Dear Operator:

Enclosed you will find a completed set of input forms to be used as a guide when reporting damage claims or water supply damage. A fictitious scenario of a longwall panel is depicted as an example on how the forms are to be filled out.

Any forms that are submitted in the future are to be filled out as described in the instructions. Please continue to report any future damage claims or water supply damage within 10 days of their resolution.

We are also returning forms that you have previously submitted that are incomplete in some areas. Please complete these forms as per the instructions and return them to my office by June 1, 1998.

Thank you,

William S. Plassio
District Mining Manager



**Figure C.5
Property Owners' Questionnaire**

5600-FM-MR0091 Rev. 9/98

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF MINING AND RECLAMATION**

Dear HOMEOWNER or CURRENT RESIDENT,

The Department of Environmental Protection (DEP) is required by state law to collect information about the effects of underground mining on local water supplies, property and buildings. As a resident who lives above or near an area that was mined within the last five years, you can offer important facts to verify information provided by mine operators. Please take a few minutes and complete the following survey. If you wish to add additional comments, you may do so on a separate piece of paper. All pages should be returned in the enclosed self-addressed, postage-paid envelope by OCTOBER 5, 1998. If you have any questions about this survey, please call DEP at 1-888-357-2674. Thank you for your time.

Address of Undermined Property: _____

If you believe that you cannot complete this questionnaire because of an agreement you signed with the mine operator, please check this box Y and return the survey in the enclosed envelope.

Section A: Water Supply

1. Did the mine operator test your water supply before mining under your property? YYes YNo
 a. **If yes**, did you receive a copy of the test results? YYes YNo
 b. **If yes**, did you receive the results *before* your water supply was undermined? YYes Y No YUnsure
2. Did mining affect your water supply? YYes YNo

If your water supply WAS NOT AFFECTED by mining, please skip to Section B, Question 10.

3. How was your water supply affected? (Check all that apply.)
 Y Contaminated water Y Lost some or all of water flow
 Y Damaged pump or pipes Y Other (Please specify.) _____
4. Approximate date when your water supply was affected: (month/year) _____
5. Whom did you contact about your water supply problem?
 Y DEP Y Mine operator Y Other (Please specify.) _____
 a. Which of these did you contact *first*? _____
6. Did the mine operator provide temporary water? YYes YNo
 a. **If yes**, for how long:
 Y Less than 6 months Y 6 months to 1 year Y More than 1 year to 2 years
 Y More than 2 years to 3 years Y More than 3 years
7. Did the mine operator settle your water supply problem? YYes YNo
 a. **If yes**, how did the mine operator settle your problem? (Check all that apply.)
 Y Drilled new well Y Well or spring recovered
 Y Deepened existing well Y Connected my property to a public water system
 Y Developed new spring Y Paid me for my loss
 Y Added treatment equipment Y Bought my property
 Y Installed storage tank or cistern Y Other: (Please specify.) _____
 b. **If yes**, how long did it take to settle your problem after you contacted the mine operator?
 Y Less than 6 months Y 6 months to 1 year Y More than 1 year to 2 years
 Y More than 2 years to 3 years Y More than 3 years
8. Did you sign an agreement as part of your settlement? Y Yes Y No
 a. **If yes**, how long were you given to consider the agreement?
 Y Less than 1 week Y 1 week to 1 month Y More than 1 month to 6 months Y Longer than 6 months
9. Are you satisfied with your current water supply? Y Yes Y No
 a. **If no**, explain why you are dissatisfied: _____

Figure C.5 (continued)
Property Owners' Questionnaire

Section B: Structures and Land

10. Did the mine operator inspect your building(s) before mining under your property? YYes YNo
a. **If yes**, did you receive a copy of the inspection report? YYes YNo
b. **If yes**, did you receive the report *before* your building(s) was undermined? YYes YNo YUnsure

11. Did mine subsidence damage your building(s) or land? YYes YNo

If your property WAS NOT affected by mining, please skip to Section C, Question 22.

12. Approximate date when damage occurred:(month/year)_____

13. Whom did you contact about the subsidence damage to your building(s) or land?
YDEP YMine operator YOther (Please specify.)_____
- a. Which of these did you contact *first*?_____

14. List all buildings and how they were damaged._____

15. List any other property (for example, septic systems, fences, swimming pools, driveways, sidewalks, patios, outside piping) and how it was damaged._____

16. Was any building(s) damaged to the point that it had to be completely replaced or demolished? YYes YNo
a. **If yes**, which building(s):_____

17. Did you have any ground cracks or sinkholes caused by mine subsidence? YYes YNo

18. Did any part of your property flood because of mine subsidence? YYes YNo

19. Did you leave your home or close your business because of subsidence damage or repair work? YYes YNo
a. **If yes**, did the mine operator pay you for temporary lodging or business loss? YYes YNo

20. Did the mine operator settle your subsidence damage problem? YYes YNo
a. **If yes**, how did the mine operator settle your problem? (Check all that apply.)
Y Repaired damaged building, property or land
Y Replaced damaged building or property
Y Paid me for the damage
Y Signed an agreement with me before any damage occurred
Y Signed an agreement with me after damage occurred
b. **If yes**, how long did it take to settle your problem after you contacted the mine operator?
Y Less than 6 months Y 6 months to 1 year Y More than 1 year to 2 years
Y More than 2 years to 3 years Y More than 3 years

21. Are you satisfied with the repairs or compensation provided by the mine operator? YYes YNo
a. **If no**, explain why you are dissatisfied:_____

Thank you. Your responses are greatly appreciated.

Figure C.5 (continued)
Property Owners' Questionnaire

OPTIONAL
Section C: Your Experiences

These questions are designed to help us further understand your experiences. Your answers will not be included in the final report results. However, they will be used to help DEP serve you better.

22. Describe your overall experience with the mine operator. _____

23. Describe your overall experience with DEP. _____

24. Which DEP staff people handled your claim? _____

25. Are you aware of DEP's toll free telephone number for reporting subsidence damage claims? YYes

26. Are you aware that DEP has a mine subsidence insurance program that covers subsidence damage to insured structures?

27. Additional comments you wish to share. _____

Thank you for your cooperation.

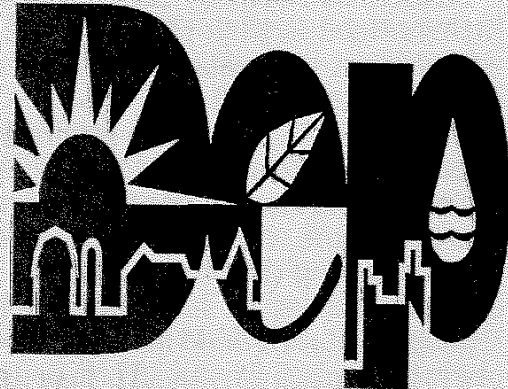
Figure C.6
Example of Advertisement for Property Owners

WAS YOUR PROPERTY UNDERMINED?

If coal was mined under your land or home in the *last five years*, DEP wants to hear from you.

Please fill out and return the survey you recently received in the mail. If you were undermined in the last five years and did not receive a survey or would like more information, please call 1-888-357-2674.

Surveys should be mailed by July 31. Thank you.



Pennsylvania Department of
Environmental Protection

The Indiana Gazette / Monday, July 20, 1998—Page 3

Thousands evacuated from slopes of volcano

JAKARTA, Indonesia (AP) — Rohadih, a local government official helping to coordinate the evacua-

NEWS RELEASE

COMMONWEALTH OF PENNSYLVANIA
Dept. of Environmental Protection
Commonwealth News Bureau
Room 308, Main Capitol
Harrisburg, Pa. 17120

FOR IMMEDIATE RELEASE

CONTACT: Michelle Miller
(717) 783-0908

**I. DEP SURVEYS OWNERS OF UNDERMINED PROPERTIES IN
SOUTHWESTERN PA**

II. Responses to be used for report on mining law's effectiveness

HARRISBURG (July 16) -- Questionnaires were recently mailed to over 1,000 property owners who reside above or near active underground bituminous coal mines in southwestern Pennsylvania to learn more about their experiences, according to Pennsylvania Department of Environmental Protection (DEP) Director of the Bureau of Mining and Reclamation Roderick A. Fletcher.

“DEP wants to know if Pennsylvania’s subsidence damage and water supply replacement provisions are working,” Fletcher said. “The information from the questionnaires, together with DEP’s and mine operators’ records, will help determine if mine operators are abiding by the law. If not, DEP will take steps to make sure they comply.”

The mailing list included properties in Allegheny, Armstrong, Cambria, Greene, Indiana Jefferson, Somerset and Washington counties. More than half of the surveys went to Greene and Washington counties.

Figure C.7 (continued)
News Release on Survey

Property owners who were undermined in the last five years are asked to describe any subsidence damage to their land or structures and any effects on their water supplies. The questionnaire also asks about how mine operators repaired subsidence damage, replaced water supplies or settled claims through compensation.

DEP will use the responses to prepare its five-year report on the effects of underground mining as required by the Bituminous Mine Subsidence and Land Conservation Act. Mine operators also have been asked to submit information about water supply and subsidence damage claims. The report will be given to the Governor, the General Assembly and the Citizens Advisory Council by the end of the year.

“The questionnaire provides property owners with a way to tell their stories and voice their concerns,” Fletcher said.

DEP encourages all property owners to complete and return the questionnaires even if their water supply and subsidence problems have been corrected or they experienced no adverse effects due to mining.

Questionnaires should be mailed back in the self-addressed envelope provided by July 31, 1998. If you were undermined *in the last five years* and did not receive a survey or would like more information, please call Harold Miller toll free at 1 (888) 357-2674.

For more information about mining related issues, please visit DEP through Pennsylvania’s homepage at www.state.pa.us, or visit DEP directly at www.dep.state.pa.us (choose Information by Subject/Mineral Resources).

#

1998

Figure C.8
Questionnaire on Impacts to Infrastructure

5600-FM-MR0128
7/98



Commonwealth of Pennsylvania
Department of Environmental Protection
Bureau of Mining and Reclamation

QUESTIONNAIRE ON DAMAGE

Provide the name, address, and phone number of the state agency, municipal authority, local government, or water supply company completing this questionnaire. Please also include the name and phone number (FAX number or e-mail address if preferable) of a contact person.

Name: _____	Type of Agency:	
Address: _____	<input type="checkbox"/> State	<input type="checkbox"/> Municipal Authority
_____	<input type="checkbox"/> local government	<input type="checkbox"/> Water Supply Co.
Phone: _____	Contact Person: _____	
	Phone: _____	
	FAX: _____	
	e-mail address: _____	


1. Provide a brief description, including the location, of any structure or facility affected by underground mining. (examples: State Route 286, 300-foot section 1 mile west of Indiana, PA or municipal water company distribution main, Washington Twp., Armstrong, Co.)

2. Describe the nature of the damage to each structure or facility listed in item 1. (Where multiple structures or facilities were damaged, identify and describe each separately both here and in items 3, 4 and 5 below.)

3. Were damage minimization measures taken? Yes No
If yes, briefly describe the measures that were taken and who took them.

Figure C.9
Questionnaire on Mining-Related Impacts to Natural Gas Pipelines

5600-FM-MR0127 9/98



Commonwealth of Pennsylvania
Department of Environmental Protection
Bureau of Mining and Reclamation

QUESTIONNAIRE ON MINING-RELATED IMPACTS TO GAS PIPELINES

Please provide the contact information below:

Name: _____	Contact Person: _____
Address: _____	Phone: _____
_____	FAX: _____
Phone: _____	e-mail address: _____

1. Provide a brief description, including length and location, of any gas pipelines that have sustained damage or disruption of services due to mining-induced land settlement.

2. Describe the nature of the damage or disruption to each pipeline. Where multiple pipelines were affected, identify and describe each separately.

3. Were damage minimization measures taken? Yes No
If yes, briefly describe who took the measures (you or mine operator), what measures were taken (e.g., providing support, excavating the pipeline, providing alternate service), and if you were compensated by the mining company.

4. If damage occurred, please indicate what measures were taken to repair the damage?

Appendix C

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