Annotated Bibliography of Subsidence Studies over Abandoned Coal Mines in Colorado

Jill Carlson, Brenda Hannu, and TC Wait
2010
Originally compiled by Tom Hatton and JE Turney
ANNOTATED BIBLIOGRAPHY OF SUBSIDENCE STUDIES
OVER ABANDONED COAL MINES IN COLORADO

Jill Carlson, Brenda Hannu, and TC Wait
2010
Originally compiled by Tom Hatton and JE Turney

Colorado Geological Survey
Department of Natural Resources
State of Colorado
1984

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Updated April 1986
Updated June 1989
Updated June 2010

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Introduction

This bibliography is a compilation of data on coal mine subsidence studies in Colorado. The information contained within can be used to facilitate further study of undermined areas subject to increased development pressure from Colorado’s growing population.

Specific mine investigation studies were obtained from private consultants and public sources through individual donations and the Land Use Review program. Many of these reports are available for review in the Mine Subsidence Information Center (MSIC) within the office of the Colorado Geological Survey (CGS). Other organizations referred to in the bibliography should be contacted regarding availability of their reports. Contact information for these organizations appears in Part III.

We are grateful to the many county and local government agencies and private individuals who provided valuable references and studies for use in compiling this report. We hope this bibliography will be an ongoing effort and we would be pleased to hear of any additions, corrections, or omissions.
How to use the Bibliography

This bibliography consists of three parts: Part I, annotated bibliography; Part II, selected references; and Part III, sources of information.

Part I consists of two lists. The first list is a full bibliography sorted by County, then by MSIC Report Number. The second is an index of MSIC references sorted by County, then by Mine Name. Each reference is assigned a MSIC Report Number. The MSIC number correlates to the report within the MSIC file system, GIS database, and other reference material and is unique to each reference. Please note: there are numbering sequence gaps contained within the MSIC file system where report entries have been consolidated or relocated.

Part II is a standard bibliography of selected general references on larger scales, and includes other useful bibliographies and publications dealing with mine subsidence and geology in Colorado.

Part III lists federal, state, and local agencies which provide mine subsidence data. The general types of data available are listed with each agency.
# Table of Contents

## Contents

<table>
<thead>
<tr>
<th>Part I: Annotated Bibliography</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Report Bibliography by County and MSIC Report Number</td>
<td>4</td>
</tr>
<tr>
<td>MSIC Reference Number Listing by County and Mine Name</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>105</td>
</tr>
<tr>
<td>Part II: Selected References</td>
<td>111</td>
</tr>
<tr>
<td>Part III: Sources of Information</td>
<td>115</td>
</tr>
</tbody>
</table>

## List of Figures

- **Figure 1**: Map of areas known to be undermined by historic coal mines in Colorado
- **Figure 2**: Approximate locations of mine subsidence investigation reports in Boulder and Broomfield Counties
- **Figure 3**: Approximate locations of mine subsidence investigation reports in El Paso County
- **Figure 4**: Approximate locations of mine subsidence investigation reports in Fremont County
- **Figure 5**: Approximate locations of mine subsidence investigation reports in Huerfano and Las Animas Counties
- **Figure 6**: Approximate locations of mine subsidence investigation reports in Jefferson County
- **Figure 7**: Approximate locations of mine subsidence investigation reports in Weld County
Part I: Annotated Bibliography
## MSIC Reports by County

<table>
<thead>
<tr>
<th>MSIC Report #</th>
<th>County</th>
<th>Date</th>
<th>Author</th>
<th>Title</th>
<th>Availability</th>
<th>Mine Name(s)</th>
<th>Location</th>
<th>Publisher</th>
<th>Contents</th>
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<tbody>
<tr>
<td>AU1</td>
<td>ARCHULETA</td>
<td>1971</td>
<td>Los Lunas Plant Materials Center, Middle Rio Grande Branch Exp. Station, USDA, NMAG Exp. Station</td>
<td>Evaluation of Plant Material for Critical Area Stabilization of San Juan-Chama Diversion Tunnel Spoils at Little Oso Creek and The Blanco Basin Sites w/o photos</td>
<td>Colorado Geological Survey</td>
<td>San Juan-Chama Diversion Project</td>
<td>Latitude: 37.15695 Longitude: -106.9133</td>
<td>Los Lunas Plant Materials Center</td>
<td>Geophysical Logs:</td>
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MSIC Report #: B3  County: BOULDER  Date: 1979
Author: Charles S. Robinson and Associates (Frederic C. Barbis and Charles S. Robinson)
Title: Subsidence Study for Cedarwood Park, Proposed Development in Section 8, T1S, R69W, Boulder County, Colorado
Availability: Colorado Geological Survey; City of Louisville
Mine Name(s): Acme
Location: 1 S 69 W SE 8  Latitude: 39.97419  Longitude: -105.1351
Publisher: Charles S. Robinson and Associates
Contents: 
- Geophysical Logs: 
- Lithology logs: ✓
- Cross-sections: ✓
- Mine maps: 
- Structure maps: 
- Other: 

MSIC Report #: B4  County: BOULDER  Date: 1980
Author: William S. Calkin
Title: Geological Report on Subsidence Potential at Ridgeview Heights, Broomfield, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Hi-Way
Location: 1 S 69 W 26  Latitude: 39.936  Longitude: -105.0814
Publisher: William S. Calkin
Contents: 
- Geophysical Logs: 
- Lithology logs: 
- Cross-sections: 
- Mine maps: ✓
- Structure maps: 
- Other: ✓

MSIC Report #: B5  County: BOULDER  Date: 1979
Author: Chen and Associates (Ralph G. Mock)
Title: Preliminary Coal Mine Subsidence Evaluation, Three Reservoir Sites, Boulder and Weld Counties, Colorado
Availability: Colorado Geological Survey; City of Louisville
Mine Name(s): Matchless, Eagle
Location: 1 S 69 W 7  Latitude: 39.99981  Longitude: -105.1087
Publisher: Chen and Associates
Contents: 
- Geophysical Logs: 
- Lithology logs: 
- Cross-sections: 
- Mine maps: ✓
- Structure maps: 
- Other: 
MSIC Report #: B6       County: BOULDER       Date: 1997
Author: GTG Geotechnical Services, Ltd. (Hui S. Liang)
Title: Subsidence Evaluation, The Terraces on Coal Creek, Lafayette, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Vulcan
Location: 1S 69 W NW 11       Latitude: 39.98123       Longitude: -105.0859
Publisher: GTG Geotechnical Services, Ltd.
Contents: Geophysical Logs: ✓      Lithology logs: ✓      Cross-sections: □      Mine maps: ✓      Structure maps: □      Other: □

MSIC Report #: B7a       County: BOULDER       Date: 2/1979
Author: Charles S. Robinson and Associates (Dale M. Cochran and Charles S. Robinson)
Title: Engineering Geology, Centennial Valley, Boulder County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Crown, Matchless-Sunland, Fireside, Ajax-Leader
Location: 1S 69 W 7       Latitude: 39.97048       Longitude: -105.1635
Publisher: Charles S. Robinson and Associates
Contents: Geophysical Logs: □      Lithology logs: ✓      Cross-sections: □      Mine maps: □      Structure maps: □      Other: □

MSIC Report #: B7b       County: BOULDER       Date: 1979
Author: Charles S. Robinson and Associates
Title: Engineering Geology, Centennial Valley, Boulder County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Crown, Matchless-Sunland, Fireside, Ajax-Leader
Location: 1S 69 W 7       Latitude: 39.97048       Longitude: -105.1635
Publisher: Charles S. Robinson and Associates
Contents: Geophysical Logs: □      Lithology logs: ✓      Cross-sections: □      Mine maps: □      Structure maps: □      Other: □
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<th>MSIC Report #: B7c</th>
<th>County: BOULDER</th>
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<tr>
<td>Author: Law Engineering (Robert R. Gabriel)</td>
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<tr>
<td>Title: Mine Subsidence Study, Centennial Valley Project, Louisville, Colorado</td>
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<tr>
<td>Availability: Colorado Geological Survey</td>
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<tr>
<td>Mine Name(s): Crown, Matchless</td>
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<tr>
<td>Location: 1 S 69 W 7</td>
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<tr>
<td>Publisher: Law Engineering Testing Company</td>
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<td>Contents: Geophysical Logs:</td>
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<th>County: BOULDER</th>
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<tr>
<td>Author: Converse Consultants (Dale M. Cochran)</td>
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<tr>
<td>Title: Phase I Mine Subsidence Study, Drive-in Theater Property, Lafayette, Colorado</td>
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<tr>
<td>Availability: Colorado Geological Survey</td>
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<tr>
<td>Mine Name(s): Electric</td>
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<tr>
<td>Location: 1 S 69 W 4</td>
<td>Latitude: 39.99358</td>
<td>Longitude: -105.1186</td>
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<td>Publisher: Converse Consultants</td>
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<tr>
<td>Contents: Geophysical Logs:</td>
<td>Lithology logs:</td>
<td>Cross-sections:</td>
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<td>Structure maps:</td>
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<th>County: BOULDER</th>
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<tr>
<td>Author: Converse Consultants (Dale M. Cochran)</td>
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<tr>
<td>Title: Phase II Investigation of Bedrock Overlying Abandoned Coal Mine Workings, Electric Mine, Drive-in Theater Property, Lafayette, Colorado</td>
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<td>Availability: Colorado Geological Survey</td>
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<td>Mine Name(s): Electric</td>
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<td>Location: 1 S 69 W SE 4</td>
<td>Latitude: 39.98877</td>
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<td>Publisher: Converse Consultants</td>
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<td>Structure maps:</td>
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MSIC Report #: B10  County: BOULDER  Date: 1983
Author: Dale M. Cochran, Consulting Engineering Geologists
Title: Investigation of Bedrock Overlying Abandoned Coal Mine Workings, Electric Mine, Drive-In Theater Property, Lafayette, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Electric
Location: 1S 69W SE 4  Latitude: 39.98877  Longitude: -105.1162
Publisher: Dale M. Cochran, Consulting Engineering Geologists
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:

MSIC Report #: B11  County: BOULDER  Date: 1981
Author: Converse Ward Davis Dixon, Inc. (Charles S. Robinson)
Title: Subsidence Study, Dutch Creek Development, Boulder County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Acme
Location: 1S 69W NE 17  Latitude: 39.96873  Longitude: -105.1327
Publisher: Converse Ward Davis Dixon, Inc.
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:

MSIC Report #: B12  County: BOULDER  Date: 1982
Author: CTL/Thompson (Ronald M. McOmber)
Title: Evaluation of Subsidence Potential, Dutch Creek Subdivision, Louisville, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Acme
Location: 1S 69W 17  Latitude: 39.96518  Longitude: -105.1375
Publisher: CTL/Thompson
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:
MSIC Report #: B13  County: BOULDER  Date: 1983
Author: CTL/Thompson (Ronald M. McOmber)
Title: Evaluation of Subsidence Potential, Autumn Ridge Subdivision, Lafayette, Boulder County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Vulcan, New Centennial
Location: 1S 69W 10SE  Latitude: 39.97154  Longitude: -105.094
Publisher: CTL/Thompson
Contents: Geophysical Logs: ✔  Lithology logs: ✔  Cross-sections: □  Mine maps: ✔  Structure maps: □  Other: ✔

MSIC Report #: B14  County: BOULDER  Date: 1983
Author: CTL/Thompson (Ronald M. McOmber)
Title: Evaluation of Subsidence Potential, Warembourg Property, Louisville, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Acme, Leader
Location: 1S 69W 17NW  Latitude: 39.96877  Longitude: -105.1422
Publisher: CTL/Thompson
Contents: Geophysical Logs: ✔  Lithology logs: ✔  Cross-sections: □  Mine maps: ✔  Structure maps: □  Other: ✔

MSIC Report #: B15  County: BOULDER  Date: 1977
Author: Charles S. Robinson and Associates (Judi C. Culver and Charles S. Robinson)
Title: Subsidence Study for Colorado Mortgage Company, Proposed Development in T1S, R69W, Louisville, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Leader-Ajax
Location: 1S 69W 8SW  Latitude: 39.9733  Longitude: -105.141
Publisher: Charles S. Robinson and Associates
Contents: Geophysical Logs: □  Lithology logs: ✔  Cross-sections: ✔  Mine maps: □  Structure maps: □  Other: □
MSIC Report #: B16  County: BOULDER  Date: 1981
Author: Converse Ward Davis Dixon, Inc. (William A. Gallant and Carl Benson)
Title: Subsidence Investigation, Pow Wow Rodeo Park, Boulder County, Colorado
Availability: Colorado Geological Survey; City of Louisville
Mine Name(s): Hecla No. 1, Rex No. 1
Location: 1 S 69 W SW 4  Latitude: 39.99053  Longitude: -105.1232
Publisher: Converse Ward Davis Dixon, Inc.
Contents: Geophysical Logs:  Lithology logs: Cross-sections: Mine maps: Structure maps: Other:

MSIC Report #: B18  County: BOULDER  Date: 1981
Author: Converse Ward Davis Dixon, Inc. (Charles H. Robinson and Peter A. Dea)
Title: Coal Mine Subsidence Study of the Crawford-Reich Property, Boulder County, Colorado
Availability: Colorado Geological Survey; City of Louisville
Mine Name(s): Rex No. 1
Location: 1 S 69 W 5  Latitude: 39.99353  Longitude: -105.1374
Publisher: Converse Ward Davis Dixon, Inc.
Contents: Geophysical Logs: Lithology logs: Cross-sections: Mine maps: Structure maps: Other:

MSIC Report #: B19  County: BOULDER  Date: 1972
Author: Charles S. Robinson and Associates (Charles S. Robinson and Dale M. Cochran)
Title: Preliminary Report on Subsidence at the Crown Mine, Boulder County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Crown
Location: 1 S 70 W 13  Latitude: 39.96506  Longitude: -105.1754
Publisher: Charles S. Robinson and Associates
Contents: Geophysical Logs: Lithology logs: Cross-sections: Mine maps: Structure maps: Other:
MSIC Report #: B20          County: BOULDER          Date: 1972
Author: Charles S. Robinson and Associates (Charles S. Robinson and Clyde R. Boyle)
Title: Report on the Undermining and Subsidence at Lafayette Park Development, Boulder County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Simpson, Mitchell
Location: 1 N 69 W 35  Latitude: 40.00754  Longitude: -105.0838
Publisher: Charles S. Robinson and Associates
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:  

MSIC Report #: B21          County: BOULDER          Date: 1973
Author: Charles S. Robinson and Associates (Charles S. Robinson and Clyde R. Boyle)
Title: Subsidence Study at the Matchless-Sunland and Fireside Coal Mines, Section 7, T1S, R69W, Boulder County, Colorado
Availability: Colorado Geological Survey; City of Louisville
Mine Name(s): Matchless-Sunland, Fireside
Location: 1 S 69 W 7  Latitude: 39.97964  Longitude: -105.1564
Publisher: Charles S. Robinson and Associates
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:  

MSIC Report #: B22          County: BOULDER          Date: 1976
Author: Charles S. Robinson and Associates (Charles S. Robinson and Judi C. Culver)
Title: Engineering Geology, Colorado Technological Center, Louisville, Colorado
Availability: Colorado Geological Survey; City of Louisville
Mine Name(s): Nonpareil, Regal
Location: 1 S 69 W 15  Latitude: 39.9603  Longitude: -105.1062
Publisher: Charles S. Robinson and Associates
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:  

MSIC Report #: B23  County: BOULDER  Date: 1980
Author: Charles S. Robinson and Associates (Robert S. Sennett and Richard D. Olson)
Title: Subsidence Studies, Centaur Village North, Centaur Village South, Boulder County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): New Centennial, Electric, Big Lake, Hecla
Location: 1S 69W 4  Latitude: 39.98314  Longitude: -105.1124
Publisher: Charles S. Robinson and Associates
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

MSIC Report #: B24  County: BOULDER  Date: 1973
Author: Charles S. Robinson and Associates (Dale M. Cochran and Charles S. Robinson)
Title: Subsurface Investigation, Paclamar Farms Project, Boulder County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Crown, Matchless-Sunland, Fireside
Location: 1S 69W 7  Latitude: 39.97048  Longitude: -105.1635
Publisher: Charles S. Robinson and Associates
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

MSIC Report #: B25  County: BOULDER  Date: 1982
Author: Tierra Consultants, Inc.
Title: Mine Subsidence Potential - Drilling Program, Centennial Valley I Subdivision, Louisville, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Leader
Location: 1S 69W 8  Latitude: 39.97242  Longitude: -105.1375
Publisher: Tierra Consultants, Inc.
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

MSIC Report #: B26   County: BOULDER   Date: 1982
Author: Tierra Consultants, Inc.
Title: Report of Results: Drilling Program for Subsidence Potential, Centennial Valley II Subdivision
Availability: Colorado Geological Survey
Mine Name(s): Matchless, Fireside
Location: 1 S 69 W 7 Latitude: 39.97964 Longitude: -105.1564
Publisher: Tierra Consultants, Inc.
Contents: Geophysical Logs: ✓ Lithology logs: ✓ Cross-sections: ✓ Mine maps: ✓ Structure maps:   Other:   

MSIC Report #: B27   County: BOULDER   Date: 1982
Author: Tierra Consultants, Inc.
Title: Subsidence Potential Study: Ten-Acre Site Near Louisville, Colorado
Availability:
Mine Name(s): Ajax
Location: 1 S 69 W 17 Latitude: 39.96518 Longitude: -105.1375
Publisher: Tierra Consultants, Inc.
Contents: Geophysical Logs: ✓ Lithology logs: ✓ Cross-sections:   Mine maps: ✓ Structure maps:   Other:   

MSIC Report #: B28   County: BOULDER   Date: 1982
Author: Tierra Consultants, Inc.
Title: Mine Subsidence Potential - Drilling Program, Sutton Estates Subdivision, Lafayette, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Black Diamond No. 2
Location: 1 S 69 W NE 3 Latitude: 39.99822 Longitude: -105.0987
Publisher: Tierra Consultants, Inc.
Contents: Geophysical Logs: ✓ Lithology logs: ✓ Cross-sections:   Mine maps: ✓ Structure maps:   Other:   

14
MSIC Report #: B29  County: BOULDER  Date: 1982
Author: Tierra Consultants, Inc.
Title: Geologic Study, Harper Lake Expansion
Availability: Colorado Geological Survey
Mine Name(s): Matchless
Location: 1 S 69 W 6  Latitude: 39.99348  Longitude: -105.1564
Publisher: Tierra Consultants, Inc.
Contents: Geophysical Logs: ✔  Lithology logs: ✔  Cross-sections: ✔  Mine maps: ✔
Structure maps:  Other:  

MSIC Report #: B30a  County: BOULDER  Date: 1983
Author: Tierra Consultants, Inc.
Title: Subsidence Potential Study, Black Diamond Industrial Park, Lafayette, Colorado (1 of 3)
Availability: Colorado Geological Survey
Mine Name(s): Black Diamond No. 2
Location: 1 N 69 W SE 34  Latitude: 40.00384  Longitude: -105.0981
Publisher: Tierra Consultants, Inc.
Contents: Geophysical Logs: ✔  Lithology logs: ✔  Cross-sections:  Mine maps: ✔
Structure maps:  Other:  

MSIC Report #: B30b  County: BOULDER  Date: 1984
Author: Tierra Consultants, Inc.
Title: Subsidence Potential Study, Black Diamond Industrial Park, Lafayette, Colorado (2 of 3)
Availability: Colorado Geological Survey
Mine Name(s): Black Diamond No. 2
Location: 1 N 69 W SE 34  Latitude: 40.00384  Longitude: -105.0981
Publisher: Tierra Consultants, Inc.
Contents: Geophysical Logs: ✔  Lithology logs: ✔  Cross-sections:  Mine maps: ✔
Structure maps:  Other: ✔
MSIC Report #: B30c  County: BOULDER  Date: 1985
Author: ATEC Associates, Inc. (Greg D. Sherman)
Title: Geotechnical Engineering Investigation - Black Diamond Industry Park (3 of 3)
Availability: Colorado Geological Survey
Mine Name(s): Black Diamond No. 2
Location: 1 N 69 W SE 34  Latitude: 40.00384  Longitude: -105.0981
Publisher: ATEC Associates, Inc.
Contents: Geophysical Logs: ☑  Lithology logs: ☑  Cross-sections: ☑  Mine maps: ☑
Structure maps: ☑  Other: ☑

MSIC Report #: B31  County: BOULDER  Date: 1983
Author: Tierra Consultants, Inc.
Title: Subsidence Potential Study, Coal Creek Technological Center
Availability: Colorado Geological Survey
Mine Name(s): Vulcan
Location: 1 S 69 W 10  Latitude: 39.97969  Longitude: -105.1
Publisher: Tierra Consultants, Inc.
Contents: Geophysical Logs: ☑  Lithology logs: ☑  Cross-sections: ☑  Mine maps: ☑
Structure maps: ☑  Other: ☑

MSIC Report #: B32  County: BOULDER  Date: 1983
Author: Tierra Consultants, Inc.
Title: Subsidence Potential Study: Lafayette City Center Shopping Complex
Availability:
Mine Name(s): Strathmore
Location: 1 S 69 W 2  Latitude: 39.99355  Longitude: -105.0811
Publisher: Tierra Consultants, Inc.
Contents: Geophysical Logs: ☑  Lithology logs: ☑  Cross-sections: ☑  Mine maps: ☑
Structure maps: ☑  Other: ☑
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<th>Date</th>
<th>Author</th>
<th>Title</th>
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<th>Mine Name(s)</th>
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**MSIC Report #:** B36  
**County:** BOULDER  
**Date:** 1983

**Author:** Tierra Consultants, Inc.

**Title:** Subsidence Potential Study, Centaur Village North Subdivision, Filing #6, Lafayette, Colorado

**Availability:** Colorado Geological Survey

**Mine Name(s):** Electric

**Location:** 1 S 69 W 4  
**Latitude:** 39.99358  
**Longitude:** -105.1186

**Publisher:** Tierra Consultants, Inc.

**Contents:**
- Geophysical Logs: ✓  
- Lithology logs: ✓  
- Cross-sections: ✓  
- Mine maps: ✓  
- Structure maps: ✓  
- Other: ✓

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**MSIC Report #:** B37  
**County:** BOULDER  
**Date:** 1983

**Author:** Tierra Consultants, Inc.

**Title:** Subsidence Potential Study on Eighteen Acres Located in the Centennial Valley I Subdivision, Louisville, Colorado

**Availability:** Colorado Geological Survey

**Mine Name(s):** Leader

**Location:** 1 S 69 W 8  
**Latitude:** 39.97242  
**Longitude:** -105.1375

**Publisher:** Tierra Consultants, Inc.

**Contents:**
- Geophysical Logs: ✓  
- Lithology logs: ✓  
- Cross-sections: ✓  
- Mine maps: ✓  
- Structure maps: ✓  
- Other: ✓

---

**MSIC Report #:** B38  
**County:** BOULDER  
**Date:** 1983

**Author:** Tierra Consultants, Inc.

**Title:** Subsidence Potential Study, Churchill Pointe Subdivision, Lafayette, Colorado

**Availability:** Colorado Geological Survey

**Mine Name(s):** Black Diamond No. 2

**Location:** 1 S 69 W NW 3  
**Latitude:** 39.99722  
**Longitude:** -105.1046

**Publisher:** Tierra Consultants, Inc.

**Contents:**
- Geophysical Logs: ✓  
- Lithology logs: ✓  
- Cross-sections: ✓  
- Mine maps: ✓  
- Structure maps: ✓  
- Other: ✓
MSIC Report #: B39  County: BOULDER  Date: 1992
Author: Chen-Northern, Inc.
Title: Storage Technology Corporation, New Expansion (StorageTek), Louisville, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Monarch No. 2
Location: 1 S 69 W  NE 29  Latitude: 39.93966  Longitude: -105.1329
Publisher: Chen-Northern, Inc.
Contents:
- Geophysical Logs: 
- Lithology logs: 
- Cross-sections: 
- Mine maps: ✔
- Structure maps: 
- Other: 

MSIC Report #: B40  County: BOULDER  Date: 1985
Author: Tierra Consultants, Inc.
Title: Surface and Mine Features Map, Louisville and Lafayette
Availability: Colorado Division of Reclamation Mining & Safety
Mine Name(s): Multiple mines
Location:  
Latitude: 39.997  Longitude: -105.102
Publisher: Colorado Division of Mined Land Reclamation, Inactive Mine Program
Contents:
- Geophysical Logs: 
- Lithology logs: 
- Cross-sections: 
- Mine maps: ✔
- Structure maps: 
- Other: 

MSIC Report #: B41  County: BOULDER  Date: 4/1984
Author: Tierra Consultants, Inc. and Deuel and Associates
Title: Subsidence Potential Study for Centennial IV - Master Plan
Availability: Colorado Geological Survey
Mine Name(s): Matchless, Fireside
Location: 1 S 69 W  7  Latitude: 39.97964  Longitude: -105.1564
Publisher: Tierra, ATEC, and Deuel and Associates (all the same company)
Contents:
- Geophysical Logs: ✔
- Lithology logs: ✔
- Cross-sections: 
- Mine maps: ✔
- Structure maps: 
- Other:
County: BOULDER

Title: Subsidence Potential Study for Marcus Properties Limited, Lafayette Project

Available: Colorado Geological Survey

Mine Name(s): Simpson, Mitchell

Location: 1 N 69 W SE 35 Latitude: 40.00388 Longitude: -105.0792

Publisher: Deuel and Associates

Contents: Geophysical Logs: ✔ Lithology logs: ✔ Cross-sections: ✔ Mine maps: ✔ Structure maps: ✔ Other: ✔

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MSIC Report #: B43

County: BOULDER

Date: 12/1984

Title: Subsidence Potential Study, Proposed Lafayette Elementary School Site

Available: Colorado Geological Survey

Mine Name(s): Cambro

Location: 1 S 69 W SW 2 Latitude: 39.98949 Longitude: -105.0846

Publisher: Deuel and Associates, Inc.

Contents: Geophysical Logs: ✔ Lithology logs: ✔ Cross-sections: ✔ Mine maps: ✔ Structure maps: ✔ Other: ✔

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MSIC Report #: B44

County: BOULDER

Date: 1979

Title: Subsidence Hazard Investigation, Lafayette Park

Available: Colorado Geological Survey

Mine Name(s): Simpson, Mitchell

Location: 1 N 69 W 35 Latitude: 40.00754 Longitude: -105.0838

Publisher: F.M Fox and Associates, Inc.

Contents: Geophysical Logs: ✔ Lithology logs: ✔ Cross-sections: ✔ Mine maps: ✔ Structure maps: ✔ Other: ✔

---
MSIC Report #: B45  County: BOULDER  Date: 6/1978
Author: Amuedo and Ivey (John B. Ivey)
Title: Investigations of Subsidence Potential - Proposed Additions to the City of Lafayette Wastewater Treatment Facilities
Availability: Colorado Geological Survey
Mine Name(s): Haywood (Irvington)
Location: 1 N 69 W SE 36  Latitude: 40.00207  Longitude: -105.058
Publisher: Amuedo and Ivey
Contents: Geophysical Logs: ✓  Lithology logs: ✓  Cross-sections:  Mine maps: ✓  Structure maps: ✓  Other: ✓

MSIC Report #: B46  County: BOULDER  Date: 11/1978
Author: Amuedo and Ivey (John B. Ivey)
Title: Subsidence Evaluation - Lafayette Park Filing #2
Availability: Colorado Geological Survey
Mine Name(s): Simpson, Mitchell
Location: 1 N 35  Latitude: 40.00754  Longitude: -105.0838
Publisher: Amuedo and Ivey
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: ✓

MSIC Report #: B48  County: BOULDER  Date: 7/1975
Author: ATEC Associates, Inc. (Greg D. Sherman)
Title: Geotechnical Engineering Investigation - Centaur Village Filing #7
Availability: Colorado Geological Survey
Mine Name(s): Hecla, Big Lake
Location: 1 S 69 W 4  Latitude: 39.99358  Longitude: -105.1186
Publisher: ATEC Associates, Inc.
Contents: Geophysical Logs: ✓  Lithology logs: ✓  Cross-sections:  Mine maps: ✓  Structure maps:  Other: ✓
MSIC Report #: B49  County: BOULDER  Date: 5/1985
Author: Deuel and Associates
Title: Subsidence Potential Study of 6-Acre Proposed Development Site in Lafayette, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Rex No. 2 (Hecla No. 2 previously)
Location: 1S 69W NE 9  Latitude: 39.98514  Longitude: -105.1162
Publisher: Deuel and Associates
Contents:
- Geophysical Logs: ✔
- Lithology logs: ✔
- Cross-sections: ✔
- Mine maps: ✔
- Structure maps: ❌
- Other: ❌

MSIC Report #: B50  County: BOULDER  Date: 4/1985
Author: Deuel and Associates
Title: Subsidence Potential Study of Proposed Development Site on Property Located in Lafayette, Colorado (Marcus Properties)
Availability: Colorado Geological Survey
Mine Name(s): Mitchell, Simpson
Location: 1N 69W 35  Latitude: 40.00754  Longitude: -105.0838
Publisher: Deuel and Associates
Contents:
- Geophysical Logs: ✔
- Lithology logs: ✔
- Cross-sections: ❌
- Mine maps: ❌
- Structure maps: ✔
- Other: ❌

MSIC Report #: B51  County: BOULDER  Date: 2/1986
Author: ATEC Associates, Inc. (Greg D. Sherman)
Title: Lafayette City Center Geotechnical Investigation
Availability: Colorado Geological Survey
Mine Name(s): Strathmore
Location: 1S 69W SW 2  Latitude: 39.99048  Longitude: -105.0858
Publisher: ATEC Associates, Inc.
Contents:
- Geophysical Logs: ✔
- Lithology logs: ✔
- Cross-sections: ❌
- Mine maps: ✔
- Structure maps: ❌
- Other: ❌
MSIC Report #: B52    County: BOULDER    Date: 6/1986
Author: ATEC Associates, Inc. (Christopher W. Bittner)
Title: Subsidence Investigation, Enclave Subdivision, Louisville, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Matchless (in vicinity)
Location: 1 S 69 W SE 12    Latitude: 39.97396    Longitude: -105.0552
Publisher: ATEC Associates, Inc.
Contents: Geophysical Logs: ☑    Lithology logs: ☑    Cross-sections: ☐    Mine maps: ☐
Structure maps: ☐    Other: ☐

MSIC Report #: B53    County: BOULDER    Date: 11/1996
Author: ATEC Associates, Inc. (Christopher W. Bittner and Barry D. Siel)
Title: Subsidence and Preliminary Geotechnical Engineering Investigation, Lafayette Park Subdivision, Phase II, Lafayette, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Mitchell
Location: 1 N 69 W NW 35    Latitude: 40.0111    Longitude: -105.0886
Publisher: ATEC Associates, Inc.
Contents: Geophysical Logs: ☑    Lithology logs: ☑    Cross-sections: ☐    Mine maps: ☐
Structure maps: ☐    Other: ☐

MSIC Report #: B54    County: BOULDER    Date: 5/1987
Author: ATEC Associates, Inc. (Greg D. Sherman)
Title: The Grove at Harper Lake Subdivision, Louisville, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Matchless
Location: 1 S 69 W NW 7    Latitude: 39.9814    Longitude: -105.1588
Publisher: ATEC Associates, Inc.
Contents: Geophysical Logs: ☑    Lithology logs: ☑    Cross-sections: ☐    Mine maps: ☐
Structure maps: ☐    Other: ☐
MSIC Report #: B55  County: BOULDER  Date: 11/1987
Author: ATEC Associates, Inc. (Greg D. Sherman)
Title: Subsidence Engineering Investigation, Centennial Valley PUD: Centennial Valley Subdivisions 4,6,7,8 and the Grove at Harper Lake
Availability: Colorado Geological Survey
Mine Name(s): Matchless, Fireside
Location: 1S 69W SW 7  Latitude: 39.97593  Longitude: -105.1611
Publisher: ATEC Associates, Inc.
Contents: Geophysical Logs: ☑  Lithology logs: ☑  Cross-sections: ☐  Mine maps: ☑  Structure maps: ☐  Other: ☐

MSIC Report #: B56  County: BOULDER  Date: 11/1987
Author: CTL/Thompson (Mark A. Roenfeldt)
Title: Evaluation of Subsidence Potential, Rock Creek Ranch Development, Superior, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Industrial, Monarch No. 2
Location: 1S 69W 19  Latitude: 39.94085  Longitude: -105.1501
Publisher: CTL/Thompson
Contents: Geophysical Logs: ☑  Lithology logs: ☑  Cross-sections: ☐  Mine maps: ☑  Structure maps: ☐  Other: ☑

MSIC Report #: B57  County: BOULDER  Date: 1/1985
Author: ATEC Associates, Inc. (Greg D. Sherman)
Title: Subsidence Investigation, Countryside Village, Lafayette, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Strathmore
Location: 1S 69W SE 3  Latitude: 39.98782  Longitude: -105.0916
Publisher: ATEC Associates, Inc.
Contents: Geophysical Logs: ☑  Lithology logs: ☑  Cross-sections: ☐  Mine maps: ☐  Structure maps: ☐  Other: ☑
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**Author:** ATEC Associates, Inc. (Greg D. Sherman)

**Title:** Subsidence Investigation, Lafayette Business Park, Lafayette, Colorado

**Availability:** Colorado Geological Survey

**Mine Name(s):** Hi-Way

**Location:** 1 S 69 W 14

**Publisher:** ATEC Associates, Inc.

**Contents:**
- Geophysical Logs: ✓
- Lithology logs: ✓
- Cross-sections: ❌
- Mine maps: ✓
- Structure maps: ❌
- Other: ❌

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**Author:** Dames & Moore

**Title:** Boulder County Subsidence Investigation, Volumes I, II, III, IV, V

**Availability:** Colorado Geological Survey

**Mine Name(s):** Multiple mines

**Location:** 1 S 68 W

**Publisher:** Dames & Moore

**Contents:**
- Geophysical Logs: ✓
- Lithology logs: ✓
- Cross-sections: ✓
- Mine maps: ✓
- Structure maps: ❌
- Other: ✓

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**Author:** ATEC Associates, Inc. (Greg D. Sherman)

**Title:** Subsidence Investigation, Saddleback Subdivision, Louisville, Colorado

**Availability:** Colorado Geological Survey

**Mine Name(s):** Matchless, Fireside

**Location:** 1 S 69 W NE 7

**Publisher:** ATEC Associates, Inc.

**Contents:**
- Geophysical Logs: ✓
- Lithology logs: ✓
- Cross-sections: ❌
- Mine maps: ❌
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- Other: ✓
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<td>B61</td>
<td>BOULDER</td>
<td>2/1984</td>
<td>Tierra Consultants, Inc.</td>
<td>Addendum to Subsidence Potential Study on Eighteen Acres Located in the Centennial Valley I Subdivision, Louisville, Colorado</td>
<td>Colorado Geological Survey</td>
<td>Leader</td>
<td>1 S 69 W NW 17</td>
<td>39.97155</td>
<td>-105.1384</td>
<td>Tierra Consultants</td>
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MSIC Report #: B64  County: BOULDER  Date: 1986
Author: ATEC Associates, Inc. (Christopher W. Bittner)
Title: Louisville Mine Shaft
Availability: Colorado Geological Survey
Mine Name(s): Louisville
Location: 1S 69W 7  Latitude: 39.97964  Longitude: -105.1564
Publisher: ATEC Associates, Inc.
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

MSIC Report #: B66  County: BOULDER  Date: 1987
Author: ATEC Associates, Inc.
Title: Subsidence Investigation, The Grove at Hilltop Subdivision, Louisville, Colorado
Availability:
Mine Name(s): Matchless
Location: 1S 69W 7  Latitude: 39.97964  Longitude: -105.1564
Publisher: ATEC Associates, Inc.
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

MSIC Report #: B67  County: BOULDER  Date: 1988
Author: CTL/Thompson (Mark A. Roenfeldt)
Title: Evaluation of Subsidence Potential, Ostdiek Parcel, Superior, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Crown
Location: 1S 70W SW 13  Latitude: 39.9613  Longitude: -105.18
Publisher: CTL/Thompson
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

MSIC Report #: B68  County: BOULDER  Date: 1997
Author: Western Environment and Ecology, Inc. (Greg D. Sherman)
Title: Mine Subsidence Investigation, Lafayette City Center
Availability: Colorado Geological Survey
Mine Name(s): Strathmore
Location: 1 S 69 W SW 2  Latitude: 39.98871  Longitude: -105.0882
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ✔  Lithology logs: ✔  Cross-sections: ✔  Mine maps: ✔
Structure maps: ❌  Other: ❌

MSIC Report #: B69  County: BOULDER  Date: 1992
Author: Seacor (Greg D. Sherman)
Title: Subsidence Engineering Investigation, Indian Peaks Subdivision Filing 2, Lafayette, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Paramount
Location: 1 N 69 W 3  Latitude: 40.08007  Longitude: -105.1026
Publisher: Seacor
Contents: Geophysical Logs: ✔  Lithology logs: ✔  Cross-sections: ❌  Mine maps: ❌
Structure maps: ❌  Other: ❌

MSIC Report #: B70  County: BOULDER  Date: 2000
Author: Western Environment and Ecology, Inc. (Michael R. Dannecker)
Title: Mine Subsidence Investigation, Schmidt Property, Erie, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Longs Peak
Location: 1 N 69 W NW 13  Latitude: 40.05238  Longitude: -105.0663
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ✔  Lithology logs: ✔  Cross-sections: ✔  Mine maps: ✔
Structure maps: ❌  Other: ❌
MSIC Report #: B71  County: BOULDER  Date: 2000
Author: Western Environment and Ecology, Inc. (Greg D. Sherman)
Title: Mine Subsidence Investigation, Creekside Property, Erie, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Northrup, Chase
Location: 1N 69 W SE 13  Latitude: 40.04768  Longitude: -105.0602
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ✔  Lithology logs: □  Cross-sections: □  Mine maps: ✔
Structure maps: □  Other: ✔

MSIC Report #: B72  County: BOULDER  Date: 1997
Author: GTG Geotechnical Services, Ltd. (Hui S. Liang)
Title: Subsidence Evaluation: The Terraces on Coal Creek, Lafayette, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Vulcan
Location: 1S 69 W NW 11  Latitude: 39.98122  Longitude: -105.0858
Publisher: GTG Geotechnical Services, Ltd.
Contents: Geophysical Logs: ✔  Lithology logs: □  Cross-sections: □  Mine maps: ✔
Structure maps: □  Other: □

MSIC Report #: B73  County: BOULDER  Date: 7/2005
Author: Western Environment and Ecology, Inc. (Brian R. Partington)
Title: Osprey Valley Development, Mine Subsidence Investigation Addendum
Availability: Colorado Geological Survey
Mine Name(s): Longs Peak
Location: 1N 69 W 13  Latitude: 40.05122  Longitude: -105.0649
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ✔  Lithology logs: □  Cross-sections: □  Mine maps: ✔
Structure maps: □  Other: ✔
MSIC Report #: B74  County: BOULDER  Date: 1996
Author: Western Environment and Ecology, Inc. (Greg D. Sherman)
Title: Mine Subsidence Investigation, Baseline Crossing
Availability: Colorado Geological Survey
Mine Name(s): Black Diamond No. 2
Location: 1N 69W SE 34  Latitude: 40.00203  Longitude: -105.1004
Publisher: Western Environment and Ecology
Contents: Geophysical Logs: ✓  Lithology logs: ✓  Cross-sections:  Mine maps: ✓
Structure maps:  Other: ✓

MSIC Report #: B75  County: BOULDER  Date: 4/1997
Author: GTG Geotechnical Services, Ltd. (Hui S. Liang)
Title: Subsidence Evaluation, The Terraces On Coal Creek, Lafayette, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Vulcan
Location: 1S 69W NW 11  Latitude: 39.98146  Longitude: -105.0882
Publisher: GTG Geotechnical Services, Ltd.
Contents: Geophysical Logs: ✓  Lithology logs: ✓  Cross-sections:  Mine maps: ✓
Structure maps:  Other: ✓

MSIC Report #: B76  County: BOULDER  Date: 2000
Author: sent by Elizabeth Sayre
Title: Shaft Closure of Standard Mine
Availability: Colorado Geological Survey
Mine Name(s): Standard
Location: 1N 69W SE 14  Latitude: 40.04941  Longitude: -105.0815
Publisher:
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps: ✓
Structure maps:  Other: √
MSIC Report #: B77  County: BOULDER  Date: 1996
Author: CTL/Thompson (Mark G. Gray)
Title: Letter regarding the sealing of the Tynon Mine air shaft
Availability: Colorado Geological Survey
Mine Name(s): Tynon
Location: 1 N 69 W NE 24  Latitude: 40.04207  Longitude: -105.0578
Publisher: CTL/Thompson
Contents:
Geophysical Logs:  
Lithology logs:  
Cross-sections:  
Mine maps:  
Structure maps:  
Other:  

MSIC Report #: B78  County: BOULDER  Date: 2007
Author: Professional Service Industries, Inc. (PSI) (James W. Niehoff and Ryan Lepro)
Title: Report of Mine Subsidence Study, Proposed Schmidt Property, Erie, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Longs Peak
Location: 1 N 69 W NE 13  Latitude: 40.05496  Longitude: -105.0602
Publisher: Professional Service Industries, Inc. (PSI)
Contents:
Geophysical Logs:  ✔  Lithology logs:  ✔  Cross-sections:  
Mine maps:  
Structure maps:  
Other:  

MSIC Report #: B79  County: BOULDER  Date: 1991
Author: Weston Designers/Consultants (E.P. Carver and Greg D. Sherman)
Title: Subsidence Engineering Investigation, Proposed Single Family Residential Development, Cherrywood II and The Village at Cherrywood II, Louisville, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Matchless
Location: 1 S 69 W SW 7  Latitude: 39.97137  Longitude: -105.1624
Publisher: Weston Designers/Consultants
Contents:
Geophysical Logs:  ✔  Lithology logs:  ✔  Cross-sections:  
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<td>B80</td>
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<td>1997</td>
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<td>Author:</td>
<td>ATEC Associates, Inc. (Christopher W. Bittner, Barry D. Siel, and Steven C. Kuehr)</td>
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<tr>
<td>Title:</td>
<td>Preliminary Subsidence and Preliminary Geotechnical Engineering Investigation (Volume I), Country Meadows PUD, Erie, Colorado</td>
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<td>Availability:</td>
<td>Colorado Geological Survey</td>
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<td>Mine Name(s):</td>
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<td>2008</td>
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<tr>
<td>Author:</td>
<td>Western Environment and Ecology, Inc. (Greg D. Sherman)</td>
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<td>Title:</td>
<td>Mine Subsidence Investigation: Lumry Estate Property - Section 24, Township 1 North, Range 69 West, Erie, Colorado</td>
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<td>Availability:</td>
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<td>Mine Name(s):</td>
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<td>Author:</td>
<td>Professional Service Industries, Inc. (PSI) (James W. Niehoff and Bryan K. Simpson)</td>
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<tr>
<td>Title:</td>
<td>Report of Mine Subsidence Study, Proposed Ranchwood Senior Community, Erie, Colorado</td>
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<td>Availability:</td>
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<td>Mine Name(s):</td>
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MSIC Report #: B83  County: BOULDER  Date: 1984
Author: Tierra Consultants, Inc.
Title: Coal Creek Station, Hole Location Map and Strain Contour Map
Availability: Colorado Geological Survey
Mine Name(s): Hecla No. 1, Hecla No. 2, Rex No. 1, Rex No. 1
Location: 1 S 69 W NW 9  Latitude: 39.98329  Longitude: -105.1233
Publisher: Tierra Consultants
Contents: Geophysical Logs:  Lithology logs: Cross-sections: Mine maps: Structure maps: Other:

MSIC Report #: B84  County: BOULDER  Date: 2008
Author: Professional Service Industries, Inc. (PSI) (James W. Niehoff and Ryan Lepro)
Title: Supplemental Report, Mine Subsidence Evaluation, Proposed Ranchwood Senior Community, Erie, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Lister, Stewart, Garfield
Location: 1 N 69 W NE 24  Latitude: 40.04029  Longitude: -105.0602
Publisher: Professional Service Industries, Inc. (PSI)
Contents: Geophysical Logs:  Lithology logs: Cross-sections: Mine maps: Structure maps: Other:

MSIC Report #: B85  County: BOULDER  Date: 2009
Author: CTL/Thompson (William D. Rethamel)
Title: Supplemental Subsidence Investigation, Proposed St. Luke Orthodox Christian Church, Canyon Creek Subdivision, Filing 6, Parcel D, Erie, Colorado
Availability: Colorado Geological Survey
Mine Name(s): McGregor
Location: 1 N 69 W 24  Latitude: 40.03669  Longitude: -105.065
Publisher: CTL/Thompson
Contents: Geophysical Logs:  Lithology logs: Cross-sections: Mine maps: Structure maps: Other:
MSIC Report #: B86  County: BOULDER  Date: 1982
Author: Fox Consulting Engineers and Geologists (Paul V. Rosasco)
Title: Subsidence Evaluation at Helios Station, a Part of the Southwest 1/4 of Section 35, T1N, R69W, Lafayette, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Simpson
Location: 1 N 69 W SW 35  Latitude: 40.00387  Longitude: -105.0886
Publisher: Fox Consulting Engineers and Geologists
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

MSIC Report #: B87  County: BOULDER  Date: 1983
Author: Stephen B. Roberts, USGS Administrative Report to the Office of Surface Mining
Title: Report of Geophysical Logging in Marshall Coal Area, Boulder County, Colorado During 1982 (preliminary)
Availability: Colorado Geological Survey
Mine Name(s): Marshall
Location: 1 S 70 W 21  Latitude: 39.94993  Longitude: -105.2317
Publisher: U.S. Department of the Interior: Geological Survey (USGS)
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

MSIC Report #: B88  County: BOULDER  Date: 1972
Author: Unknown
Title: Marshall Area Abandoned Underground Coal Mines Project: Davidson Ditch Mine Fire Subsidence
Availability: Colorado Geological Survey
Mine Name(s): Lewis No. 1, Lewis No. 2
Location: 1 S 70 W 21  Latitude: 39.94993  Longitude: -105.2317
Publisher: Unknown
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

34
MSIC Report #: B89  County: BOULDER  Date: 1979
Author: Clint Huntington
Title: Inspection: Marshall Dam C-491, W. Div. 1; W. Dist. 6
Availability: Colorado Geological Survey
Mine Name(s): Gorham
Location: 1 S 70 W NE 22  Latitude: 39.95367  Longitude: -105.2083
Publisher: Unknown
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

MSIC Report #: B90  County: BOULDER  Date: 1977
Author: Boulder Daily Camera
Title: Various newspaper articles: Sherwood II Inspection Records Missing; Lafayette Seeking Grant for Sherwood Repairs; Owners Stuck in Townhouse Calamity; Shoddy Work on Townhouses Could Have Been Prevented
Availability: Colorado Geological Survey, Boulder Camera
Mine Name(s): Vulcan?
Location: 1 S 69 W NW 11  Latitude: 39.98325  Longitude: -105.0858
Publisher: Boulder Daily/Sunday Camera
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

MSIC Report #: B91  County: BOULDER  Date: 2009
Author: Western Environment and Ecology, Inc. (Greg D. Sherman)
Title: Mine Subsidence Investigation: Proposed Elementary School #26, Erie, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Chase, Tynon
Location: 1 N 69 W SW 13  Latitude: 40.04769  Longitude: -105.0698
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

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<td>Author:</td>
<td>Western Environment and Ecology, Inc. (Brian R. Partington)</td>
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<td>Title:</td>
<td>Preliminary Mine Subsidence Investigation, Broomfield, Colorado</td>
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<tr>
<td>Author:</td>
<td>Chris Carroll, Celia Greenman and Nicole Koenig</td>
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<td>Title:</td>
<td>Field Trip Guide - Modern Consequences of Historic Coal Mining</td>
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<td>Availability:</td>
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<td>Mine Name(s):</td>
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<td>Author:</td>
<td>Raymond L. Lowrie</td>
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<td>Title:</td>
<td>Analysis of the Coal Industry in Boulder-Weld Coalfield, Colorado</td>
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<td>Availability:</td>
<td>Colorado Geological Survey</td>
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<td>Mine Name(s):</td>
<td>Boulder Valley No. 3, Eagle, Imperial, Lincoln, Sterling, Washington</td>
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<td>Location:</td>
<td>1 N 68 W Latitude: 40.044 Longitude: -104.9989</td>
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<td>Publisher:</td>
<td>U.S. Department of the Interior: Bureau of Mines</td>
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**MSIC Report #:** BW3  **County:** BOULDER/WELD  **Date:** 1939

**Author:** Colorado State Planning Commission

**Title:** Northern Coal Field, Boulder and Weld Counties

**Availability:** Colorado Geological Survey

**Mine Name(s):** All BO, WE mines

**Location:**
Latitude: 39.9646  Longitude: -105.2131

**Publisher:** Colorado State Planning Commission

**Contents:**
- Geophysical Logs: [ ]
- Lithology logs: [ ]
- Cross-sections: [ ]
- Mine maps: [ ]
- Structure maps: [ ]
- Other: [ ]

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**MSIC Report #:** BW4  **County:** BOULDER/WELD  **Date:** 1975

**Author:** A.R. Myers, J.B. Hansen, R.A. Lindvall, J.B. Ivey, and J.L. Hynes

**Title:** Coal Mine Subsidence and Land Use in the Boulder-Weld Coalfield, Boulder and Weld Counties, Colorado

**Availability:** Colorado Geological Survey, publication EG-9

**Mine Name(s):** All BO, WE mines

**Location:** 1N 67W  
Latitude: 40.05458  Longitude: -105.1173

**Publisher:** Colorado Geological Survey EG-9, Amuedo & Ivey

**Contents:**
- Geophysical Logs: [ ]
- Lithology logs: [ ]
- Cross-sections: [ ]
- Mine maps: [ ]
- Structure maps: [ ]
- Other: [ ]

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**MSIC Report #:** BW5  **County:** BOULDER/WELD  **Date:** 2001

**Author:** S.B. Roberts, J.L. Hynes, and C.L. Woodward

**Title:** Maps Showing the Extent of Mining, Mine Shaft and Adit Locations, Bedrock Faults, and Thickness of Overburden above Abandoned Coal Mines in the Boulder-Weld Coal Fields

**Availability:** Colorado Geological Survey, USGS

**Mine Name(s):** All BO, WE mines

**Location:** 1N 67W  
Latitude: 40  Longitude: -105

**Publisher:** U.S. Department of the Interior: Geological Survey (USGS), Publication I-2735

**Contents:**
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- Structure maps: [ ]
- Other: [ ]
**DOLORES**

**MSIC Report #:** D1  **County:** DOLORES  **Date:** 1995

**Author:** Chris Wilbur and Douglas Bradley

**Title:** Documentation for Hazard and Constraint Maps, Town of Rico, Colorado

**Availability:** Colorado Geological Survey

**Mine Name(s):** Atlantic Cable, Van Winkel, George Hicks

**Location:**  
Latitude: 37.69467  Longitude: -108.0323

**Publisher:** Chris Wilbur, Douglas Bradley

**Contents:**  
Geophysical Logs:  
Lithology logs:  
Cross-sections:  
Mine maps:  
Structure maps:  
Other:  

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**EL PASO**

**MSIC Report #:** E1  **County:** EL PASO  **Date:** 1967

**Author:** Colorado Springs Planning Department

**Title:** Mining Report, Colorado Springs Coal Field, A Guide for Future Land Use

**Availability:** Colorado Geological Survey; Pikes Peak Area Council of Governments

**Mine Name(s):** Multiple mines

**Location:** 13 S 66 W 20  
Latitude: 38.904  Longitude: -104.8038

**Publisher:** City of Colorado Springs

**Contents:**  
Geophysical Logs:  
Lithology logs:  
Cross-sections:  
Mine maps:  
Structure maps:  
Other:  

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**EL PASO**

**MSIC Report #:** E2a  **County:** EL PASO  **Date:** 1982

**Author:** CTL/Thompson

**Title:** Evaluation of Subsidence Potential, Ravencrest Subdivision, Woodmen Road and Rockrimmon Boulevard, Colorado Springs, Colorado

**Availability:** Colorado Geological Survey

**Mine Name(s):** Pikeview, Carlton

**Location:** 13 S 66 W SE 7  
Latitude: 38.92933  Longitude: -104.817

**Publisher:** CTL/Thompson

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<td>E3</td>
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<td>Dames &amp; Moore</td>
<td>Geologic Considerations, Rockrimmon Dam and Reservoir Site, Colorado Springs, Colorado</td>
<td>Colorado Geological Survey</td>
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MSIC Report #: E9  County: EL PASO  Date: 1/1983
Author: Rocky Mountain Geotechnical (Ken Myers)
Title: Subsurface Soils Investigation, First West Group
Availability: Colorado Geological Survey; Colorado Division of Reclamation Mining & Safety
Mine Name(s): Busy Bee, Corley, Patterson
Location: 13 S 66 W NE 32  Latitude: 38.8824  Longitude: -104.7987
Publisher: Rocky Mountain Geotechnical
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:

MSIC Report #: E10  County: EL PASO  Date: 9/1983
Author: Rocky Mountain Geotechnical
Title: Subsidence Investigation, Alex Patterson Mine
Availability: Colorado Geological Survey; Colorado Division of Reclamation Mining & Safety
Mine Name(s): Alex Patterson
Location: 13 S 67 W SW 11  Latitude: 38.92756  Longitude: -104.8613
Publisher: Rocky Mountain Geotechnical
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:

MSIC Report #: E11  County: EL PASO  Date: 11/1983
Author: Rocky Mountain Geotechnical
Title: 2822 Country Club Circle, Abandoned Mine Subsidence Investigation
Availability: Colorado Geological Survey; Colorado Division of Reclamation Mining & Safety
Mine Name(s): Rapson
Location: 13 S 66 W 33  Latitude: 38.87501  Longitude: -104.7848
Publisher: Rocky Mountain Geotechnical
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:
MSIC Report #: E12  County: EL PASO  Date: 7/1983
Author: Rocky Mountain Geotechnical
Title: Mine Subsidence Report, 2858 Country Club Place, Colorado Springs, Colorado
Availability: Colorado Geological Survey; Colorado Division of Reclamation Mining & Safety
Mine Name(s): Rapson
Location: 13 S 66 W SW 33  Latitude: 38.87135  Longitude: -104.7895
Publisher: Rocky Mountain Geotechnical
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  
Structure maps:  Other:  

MSIC Report #: E13  County: EL PASO  Date: 1/1984
Author: Rocky Mountain Geotechnical
Title: Mine Subsidence Analysis, Easternmost Portion of University Commons, Colorado Springs, Colorado
Availability: Colorado Geological Survey, Colorado Division of Reclamation Mining & Safety
Mine Name(s): Corley No. 3
Location: 13 S 66 W SE 29  Latitude: 38.88224  Longitude: -104.7987
Publisher: Rocky Mountain Geotechnical
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  
Structure maps:  Other:  

MSIC Report #: E14  County: EL PASO  Date: 4/1984
Author: Tierra Consultants, Inc.
Title: Subsidence Potential Study, Rockrimmon Property
Availability: Colorado Geological Survey
Mine Name(s): Pikeview
Location: 13 S 67 W 13  Latitude: 38.91819  Longitude: -104.8403
Publisher: Tierra Consultants
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  
Structure maps:  Other:  

42
MSIC Report #: E15  County: EL PASO  Date: 6/1984
Author: Tierra Consultants, Inc.
Title: Subsidence Potential Study, Rockrimmon-Somersset
Availability: Colorado Geological Survey
Mine Name(s): Pikeview
Location: 13 S 67 W 13  Latitude: 38.91819  Longitude: -104.8403
Publisher: Tierra Consultants
Contents: Geophysical Logs: ✔  Lithology logs: ✔  Cross-sections: ✔  Mine maps: ✔  Structure maps:  Other: ✔

MSIC Report #: E16  County: EL PASO  Date: 1984
Author: Lincoln Devore Testing Laboratory, Inc.
Title: Subsidence Evaluation, Proposed North Pointe Center, and Subsidence Evaluation Addendum
Availability: Colorado Geological Survey
Mine Name(s): Pikeview
Location: 13 S 66 W SW 18  Latitude: 38.91666  Longitude: -104.8241
Publisher: Lincoln DeVore
Contents: Geophysical Logs: ✔  Lithology logs: ✔  Cross-sections:  Mine maps: ✔  Structure maps:  Other: ✔

MSIC Report #: E17  County: EL PASO  Date: 1984
Author: Michael Baker, Jr.
Title: Colorado Springs Land Use and Building Code Project
Availability: Colorado Division of Reclamation Mining & Safety; Office of Surface Mining; Colorado Springs Planning Department.
Mine Name(s): Multiple mines
Location: 13 S 66 W  Latitude: 38.86789  Longitude: -104.8307
Publisher: U.S. Department of the Interior: Office of Surface Mining
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps: ✔  Structure maps:  Other: ✔
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<td>Author:</td>
<td>Douglas, Corey &amp; Fisk</td>
<td>Title:</td>
<td>Report on Surface Settlement of the Rangeview Subdivision</td>
<td>Availability:</td>
<td>Colorado Geological Survey</td>
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<td>Mine Name(s):</td>
<td>Curtis, City Coal Mine No. 1, Williams, Williamsville, New Altitude and Danville</td>
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<td>Author:</td>
<td>Dames &amp; Moore</td>
<td>Title:</td>
<td>Colorado Springs Subsidence Investigation - Executive Summary, Volume 1, 2, 3 &amp; 4</td>
<td>Availability:</td>
<td>Colorado Geological Survey; Colorado Division of Reclamation Mining &amp; Safety; City of Colorado Springs Planning Department; Penrose Regional Library, Colorado Springs</td>
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<td>Author:</td>
<td>Goodson &amp; Associates, Inc.</td>
<td>Title:</td>
<td>Mine Subsidence Investigation: Proposed Eaglepoint Condominium Complex, Delmonico Dr. at Saddle Mtn. Road, Colorado Springs, El Paso County, Colorado</td>
<td>Availability:</td>
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<td>Mine Name(s):</td>
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MSIC Report #: E21  County: EL PASO  Date: 2001
Author: Goodson & Associates, Inc.
Title: Mine Subsidence Investigation: Proposed Apartment Complex - Delmonico Drive At Rockrimmon Boulevard, Colorado Springs
Availability: Colorado Geological Survey
Mine Name(s): Pikeview
Location: 13 S 66 W SW 18  Latitude: 38.91486  Longitude: -104.8264
Publisher: Goodson & Associates, Inc.
Contents: Geophysical Logs:  Lithology logs: ✔ Cross-sections:  Mine maps: ✔
Structure maps:  Other: ✔

MSIC Report #: E22  County: EL PASO  Date: 1989
Author: refers to E19 (Dames & Moore report, 1985)
Title: 6040 Ursa Lane - Subsidence Potential Evaluation
Availability: Colorado Geological Survey
Mine Name(s): Pikeview
Location: 13 S 66 W 13  Latitude: 38.91859  Longitude: -104.7289
Publisher: Goodson & Associates, Inc.
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps: ✔
Structure maps:  Other: ✔

MSIC Report #: E25  County: EL PASO  Date: 1985
Author: Goodson & Associates, Inc.
Title: Country Village Place Development: Colorado Springs, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Patterson
Location: 13 S 66 W 32  Latitude: 38.87861  Longitude: -104.8079
Publisher: Goodson & Associates, Inc.
Contents: Geophysical Logs: ✔ Lithology logs: ✔ Cross-sections: ✔ Mine maps: ✔
Structure maps:  Other: ✔
MSIC Report #: E26  County: EL PASO  Date: 2005
Author: CTL/Thompson
Title: Geologic Hazards Evaluation and Preliminary Geotechnical Investigation, Crown Hill at Rockrimmon
Availability: Colorado Geological Survey
Mine Name(s): Pikeview
Location: 13 S 67 W NW 13  Latitude: 38.92206  Longitude: -104.845
Publisher: CTL/Thompson
Contents: Geophysical Logs: ✔  Lithology logs: ✔  Cross-sections: ✔  Mine maps: ✔
Structure maps: ✔  Other: □

MSIC Report #: E27  County: EL PASO  Date: 1984
Author: Vantex Properties
Title: North Creek I, II, III Subsidence
Availability: Pikeview
Location: 13 S 66 W SE 18  Latitude: 38.91485  Longitude: -104.8172
Publisher: Vantex Properties
Contents: Geophysical Logs: □  Lithology logs: □  Cross-sections: □  Mine maps: □
Structure maps: □  Other: □

MSIC Report #: E28  County: EL PASO  Date: 1984
Author: Rocky Mountain Geotechnical
Title: Mine Subsidence Investigation, Cragmoor Property
Availability: Colorado Geological Survey
Mine Name(s): Patterson
Location: 13 S 66 W NW 32  Latitude: 38.8812  Longitude: -104.8034
Publisher: Rocky Mountain Geotechnical
Contents: Geophysical Logs: □  Lithology logs: ✔  Cross-sections: □  Mine maps: □
Structure maps: ✔  Other: □
MSIC Report #: E29  County: EL PASO  Date: 1987
Author: Geotechnical Consultants, Inc.
Title: Mine Subsidence Evaluation, Tamarron at Rockrimmon Subdivision
Availability: Colorado Geological Survey
Mine Name(s): Pikeview
Location: 13 S 67 W 13  Latitude: 38.91819  Longitude: -104.8403
Publisher: Geotechnical Consultants, Inc.
Contents: Geophysical Logs: ✔  Lithology logs: ✔  Cross-sections: ✔  Mine maps: ✔  Structure maps:  Other:  

MSIC Report #: E30a  County: EL PASO  Date: 1992
Author: Huntingdon
Title: Coal Mine Subsidence Hazard Study, Palmer Bluffs Subdivision
Availability: Colorado Geological Survey
Mine Name(s): City No. 3, City No. 2, and Rapson
Location: 13 S 66 W 28  Latitude: 38.88223  Longitude: -104.7848
Publisher: Huntingdon
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps: ✔  Other:  

MSIC Report #: E30b  County: EL PASO  Date: 1993
Author: Huntingdon
Title: Phase II Coal Mine Subsidence Hazard Study, Palmer Bluffs (St. Andrews) Subdivision
Availability: Colorado Geological Survey
Mine Name(s): City No. 2, City No. 4, Rapson, Gray Air
Location: 13 S 66 W 28  Latitude: 38.88223  Longitude: -104.7848
Publisher: Huntingdon
Contents: Geophysical Logs:  Lithology logs: ✔  Cross-sections: ✔  Mine maps: ✔  Structure maps:  Other:  
MSIC Report #: E31  County: EL PASO  Date: 2001
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, Sunset Villas Patio Homes, Rockrimmon Addition
Availability: Colorado Geological Survey
Mine Name(s): Pikeview
Location: 13 S 67 W SW 13  Latitude: 38.91481  Longitude: -104.8449
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ✔  Lithology logs: ✔  Cross-sections: ✔  Mine maps: ✔  Structure maps:  Other:  

MSIC Report #: E32a  County: EL PASO  Date: 1984
Author: CTL/Thompson
Title: Evaluation of Subsidence Potential, Saddle Ridge and Shave/Black Parcels; Soils and Foundation Investigation, Saddle Ridge Subdivision
Availability: Colorado Geological Survey
Mine Name(s): Pikeview
Location: 13 S 67 W E 13  Latitude: 38.91846  Longitude: -104.8358
Publisher: CTL/Thompson
Contents: Geophysical Logs:  Lithology logs: ✔  Cross-sections:  Mine maps:  Structure maps:  Other: ✔  

MSIC Report #: E32b  County: EL PASO  Date: 1994
Author: CTL/Thompson
Title: Soils and Foundation Investigation, Saddle Ridge Subdivision and Tamarron at Rockrimmon Subdivision
Availability: Colorado Geological Survey
Mine Name(s): Pikeview
Location: 13 S 67 W 13  Latitude: 38.91819  Longitude: -104.8403
Publisher: CTL/Thompson
Contents: Geophysical Logs: ✔  Lithology logs: ✔  Cross-sections:  Mine maps: ✔  Structure maps:  Other:  

48
MSIC Report #: E33  County: EL PASO  Date: 1985
Author: Lincoln DeVore
Title: Geotechnical Report, Potential Subsidence, Westmoreland and Hancock Ave., Colorado Springs, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Danville, Climax II, William Suille, Curtis
Location: 13 S 66 W SW 29  Latitude: 38.88581  Longitude: -104.8033
Publisher: Lincoln DeVore, Inc.
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:

MSIC Report #: E34  County: EL PASO  Date: 1999
Author: CTL/Thompson
Title: Geologic Hazards Evaluation, Rockrimmon Vista, Rockrimmon Drive South, East of Fence Post Drive, Colorado Springs, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Pikeview
Location: 13 S 66 W 18  Latitude: 38.91823  Longitude: -104.8311
Publisher: CTL/Thompson
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:

MSIC Report #: E36  County: EL PASO  Date: 1993
Author: Douglas C. Peters
Title: Can Lineaments Be Used to Evaluate AML Subsidence Potential?: Case Study for Colorado Springs, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Rockrimmon, Cragmor-Country Club, Palmer Park, Rustic Hills
Location:  Latitude: 38.81136  Longitude: -104.854
Publisher: Abandoned Mine Land Division, Wyoming Dept. of Environmental Quality & The City of Rock Springs, WY
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:
MSIC Report #: E37  County: EL PASO  Date: 2009
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, Viewpoint Senior Living Community, Colorado Springs, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Pikeview
Location: 13 S  67 W  SW 13  Latitude: 38.91481  Longitude: -104.8449
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ☑  Lithology logs: ☐  Cross-sections: ☐  Mine maps: ☐  Structure maps: ☐  Other: ☐

MSIC Report #: E37b  County: EL PASO  Date: 2009
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, Viewpoint Senior Living Community, Colorado Springs, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Pikeview
Location: 13 S  67 W  13  Latitude: 38.91844  Longitude: -104.8403
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ☑  Lithology logs: ☐  Cross-sections: ☐  Mine maps: ☐  Structure maps: ☐  Other: ☐

MSIC Report #: E38  County: EL PASO  Date: 1980
Author: Lincoln DeVore
Title: Klondike Mine - Hoist Shaft Collapse Repair
Availability: Colorado Geological Survey
Mine Name(s): Klondike
Location: 13 S  66 W  NW 8  Latitude: 39.14  Longitude: -105.71
Publisher: Lincoln DeVore
Contents: Geophysical Logs: ☐  Lithology logs: ☐  Cross-sections: ☐  Mine maps: ☐  Structure maps: ☐  Other: ☐
MSIC Report #: E39  County: EL PASO  Date: 1980
Author: Office of Surface Mining - Abandoned Mine Lands Division
Title: Final Report: Keystone Coal Mine Cave-in No. 2, 2507 Holliday Lane, Colorado Springs, Colorado
Availability: Colorado Geological Survey; Office of Surface Mining - Abandoned Mine Lands Division
Mine Name(s): Keystone
Location: 13 S 66 W NE 4  Latitude: 38.95114  Longitude: -104.7798
Publisher: U.S. Department of the Interior: Office of Surface Mining, Abandoned Mine Lands Division
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps: 
Structure maps:  Other: 

MSIC Report #: E40  County: EL PASO  Date: 1979
Author: Lincoln DeVore
Title: Subsidence Investigation, Portal Park
Availability: Colorado Geological Survey; City of Colorado Springs
Mine Name(s): Busy Bee, Tudor, Curtis
Location: 13 S 66 W SE 29  Latitude: 38.88332  Longitude: -104.8023
Publisher: Lincoln DeVore
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps: 
Structure maps:  Other: 

MSIC Report #: E41  County: EL PASO  Date: 
Author: J.K. Ficklin & Associates
Title: Close-out Report, Digital Project, El Paso County, Grant 2, Project 17
Availability: Colorado Geological Survey
Mine Name(s): Cottonwood, Pitching Vein, Neer, New Cottonwood, Last Chance, unknown 1-4
Location: 13 S 67 W SE 13  Latitude: 38.91484  Longitude: -104.8357
Publisher: J.K. Ficklin & Associates
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps: 
Structure maps:  Other: 

51
County: EL PASO
Author: J.K. Ficklin & Associates
Title: Close-out Report, Digital Project, El Paso County, Grant 2, Project 17
Availability: Colorado Geological Survey
Mine Name(s): Cottonwood, Pitching Vein, Neer, New Cottonwood, Last Chance, unknown 1-3
Location: 13 S 67 W SE 13 Latitude: 38.91484 Longitude: -104.8357
Publisher: J.K. Ficklin & Associates
Contents: Geophysical Logs: Lithology logs: Cross-sections: Mine maps: Structure maps: Other:

County: EL PASO
Author: Zapata Incorporated, Blackhawk Division
Title: Engineering-Geophysical Investigation of Abandoned Underground Mine Workings at the Country Club Circle Site, Colorado Springs, Colorado
Availability: Colorado Geological Survey; Colorado Division of Reclamation Mining & Safety
Mine Name(s): Rapson, New Keystone
Location: 13 S 66 W SW 33 Latitude: 38.87134 Longitude: -104.7895
Publisher: Zapata Incorporated, Blackhawk Division
Contents: Geophysical Logs: Lithology logs: Cross-sections: Mine maps: Structure maps: Other:

County: FREMONT
Author: McDermid Engineering Associates, Inc.
Title: City of Florence, Newlin Creek Waterline Rehabilitation, Feasibility, and Design Report
Availability:
Mine Name(s): Canon City
Location: 20 S 70 W 24 Latitude: 38.28686 Longitude: -105.1716
Publisher: State of Colorado, Mined Land Reclamation Division
Contents: Geophysical Logs: Lithology logs: Cross-sections: Mine maps: Structure maps: Other:
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<td>Zapata Incorporated, Blackhawk Division</td>
<td>Engineering-Geophysical Investigation of the IHI Coal Mine Fire Rifle, Colorado</td>
<td>Zapata Incorporated, Blackhawk Division; Colorado Geological Survey</td>
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<td>Zapata Incorporated, Blackhawk Division</td>
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MSIC Report #: H3  County: HUERFANO  Date: 1984
Author: Robert M. Kirkham and Thomas D. Gillis
Title: Characterization of Selected Coal Waste Piles, Huerfano and Las Animas Counties
Availability: Colorado Geological Survey
Mine Name(s): Multiple mines
Location: Latitude: 37.40591  Longitude: -104.6992
Publisher: State of Colorado, Mined Land Reclamation Division, Inactive Mine Reclamation Program
Contents:

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MSIC Report #: J1  County: JEFFERSON  Date: 1981
Author: Amuedo and Ivey
Title: Phase I Subsidence Investigation, Virginia Mine, South Garrison St. and Ken Caryl Rd., Jefferson County, Colorado
Availability: Jefferson County Planning & Zoning Dept.
Mine Name(s): Virginia
Location: 5 S 69 W 34  Latitude: 39.57338  Longitude: -105.1007
Publisher: Amuedo and Ivey
Contents:

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MSIC Report #: J2  County: JEFFERSON  Date: 1981
Author: Amuedo and Ivey
Title: Phase II Subsidence Investigation, Virginia Mine, South Garrison St. and Ken Caryl Rd., Jefferson County, Colorado
Availability: Colorado Geological Survey; Jefferson County
Mine Name(s): Virginia
Location: 5 S 69 W 34  Latitude: 39.57338  Longitude: -105.1007
Publisher: Amuedo and Ivey
Contents:
MSIC Report #: J3  County: JEFFERSON  Date: 1982
Author: Amuedo and Ivey
Title: Mine Subsidence Investigation, Virginia Mine, Jefferson County, Colorado, Vol. 1&2
Availability: Colorado Geological Survey; Colorado Division of Reclamation Mining & Safety; Jefferson County
Mine Name(s): Virginia
Location: 5S 69 W NE 34  Latitude: 39.57708  Longitude: -105.0961
Publisher: Jefferson County
Contents: Geophysical Logs: ✓  Lithology logs: ✓  Cross-sections: ✓  Mine maps: ✓  Structure maps:  Other: ✓

MSIC Report #: J4  County: JEFFERSON  Date: 1981
Author: Chen and Associates
Title: Foundation Recommendations in Areas of Potential Ground Subsidence, Albertson's Food Center #8-P, Ken Caryl Rd. and Garrison Street, Jefferson County, Colorado
Availability: Jefferson County
Mine Name(s): Virginia
Location: 5S 69 W 34  Latitude: 39.57338  Longitude: -105.1007
Publisher: Chen and Associates
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

MSIC Report #: J5  County: JEFFERSON  Date: 1981
Author: CTL/Thompson
Title: Evaluation of Subsidence Potential, Coal Mine West Project, Coal Mine Rd. and Kipling St., Jefferson County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Economy (Unity)
Location: 5S 69 W SE 21  Latitude: 39.59701  Longitude: -105.1125
Publisher: CTL/Thompson
Contents: Geophysical Logs: ✓  Lithology logs: ✓  Cross-sections: ✓  Mine maps: ✓  Structure maps:  Other: ✓
MSIC Report #: J6  County: JEFFERSON  Date: 1983
Author: CTL/Thompson
Title: Evaluation of Subsidence Potential, Coal Mine Road Alignment, Coal Mine Road and Kipling Street, Jefferson County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Economy (Unity)
Location: 5S 69W SE 21 Latitude: 39.59882 Longitude: -105.1148
Publisher: CTL/Thompson
Contents:
- Geophysical Logs: ✔
- Lithology logs: ✔
- Cross-sections: 
- Mine maps: ✔
- Structure maps: 
- Other: ✔

MSIC Report #: J7  County: JEFFERSON  Date: 1982
Author: CTL/Thompson
Title: Subsidence Potential of the Area Between the Littleton and Economy Mines, Coal Mine Rd. and Kipling Street, Jefferson County, Colorado
Availability: Colorado Geological Survey; Jefferson County
Mine Name(s): Economy (Unity), Littleton (Christenson)
Location: 5S 69W NE 28 Latitude: 39.59156 Longitude: -105.1149
Publisher: CTL/Thompson
Contents:
- Geophysical Logs: 
- Lithology logs: ✔
- Cross-sections: 
- Mine maps: ✔
- Structure maps: 
- Other: ✔

MSIC Report #: J8  County: JEFFERSON  Date: 1983
Author: Dames & Moore
Title: Report, Northern End of the Economy Mine Subsidence Hazard Study, Jefferson County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Economy (Unity)
Location: 5S 69W SE 21 Latitude: 39.59882 Longitude: -105.1148
Publisher: Dames and Moore
Contents:
- Geophysical Logs: ✔
- Lithology logs: ✔
- Cross-sections: ✔
- Mine maps: 
- Structure maps: ✔
- Other: ✔
### Report, Rubey Clay-Mine Subsidence Hazard Study, Golden, Colorado

**MSIC Report #:** J9  
**County:** JEFFERSON  
**Date:** 1983  
**Author:** Dames & Moore  
**Title:** Report, Rubey Clay-Mine Subsidence Hazard Study, Golden, Colorado  
**Availability:** Colorado Geological Survey; City of Golden; Jefferson County  
**Mine Name(s):** Old Loveland, New Loveland, New White Ash, New Mine  
**Location:** 3S 70W 28  
**Publisher:** Dames and Moore  
**Contents:** Geophysical Logs: ✔  
Lithology logs: ✔  
Cross-sections: ✔  
Mine maps: ✔  
Structure maps: ✔  
Other: ✔

### Subsidence Evaluation, SE 1/4 of the NW 1/4, Section 27, Township 5 South, Range 69 West, Jefferson County, Colorado

**MSIC Report #:** J10  
**County:** JEFFERSON  
**Date:** 1972  
**Author:** F.M. Fox and Associates, Inc.  
**Title:** Subsidence Evaluation, SE 1/4 of the NW 1/4, Section 27, Township 5 South, Range 69 West, Jefferson County, Colorado  
**Availability:** Colorado Geological Survey; Jefferson County Planning & Zoning Dept.  
**Mine Name(s):** Littleton (Christenson)  
**Location:** 5S 69W 27 NW  
**Publisher:** F.M Fox and Associates  
**Contents:** Geophysical Logs: ☐  
Lithology logs: ☐  
Cross-sections: ☐  
Mine maps: ☐  
Structure maps: ☐  
Other: ✔

### Capping of Mine Shaft, Littleton Mine Project, Jefferson County, Colorado

**MSIC Report #:** J10a  
**County:** JEFFERSON  
**Date:** 1980  
**Author:** U.S. Dept. of the Interior: Office of Surface Mining and Enforcement  
**Title:** Capping of Mine Shaft, Littleton Mine Project, Jefferson County, Colorado  
**Availability:** Colorado Geological Survey  
**Mine Name(s):** Littleton (Christenson)  
**Location:** 5S 69W 27 SW  
**Publisher:** U.S. Department of the Interior: Office of Surface Mining and Enforcement  
**Contents:** Geophysical Logs: ☐  
Lithology logs: ☐  
Cross-sections: ☐  
Mine maps: ☐  
Structure maps: ☐  
Other: ✔
MSIC Report #: J10b  County: JEFFERSON  Date: 1980
Author: Bennett H. Young
Title: Final Report: Littleton Mine Project, Jefferson County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Littleton (Christenson)
Location: 5 S 69 W NW 27  Latitude: 39.59156  Longitude: -105.1055
Publisher: U.S. Department of the Interior: Office of Surface Mining, Abandoned Mine Lands Division
Contents:
- Geophysical Logs: 
- Lithology logs: 
- Cross-sections: 
- Mine maps: 
- Structure maps: 
- Other: ✔

MSIC Report #: J10c  County: JEFFERSON  Date: 1988
Author: Fox & Associates of Colorado, Inc.
Title: Engineering Geology and Preliminary Geotechnical Engineering Evaluation, Proposed Residential Development, SE 1/4 of the NW 1/4 of Section 27, T5S, R69W, Jefferson County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Littleton (Christenson)
Location: 5 S 69 W NW 27  Latitude: 39.58974  Longitude: -105.1031
Publisher: Fox & Associates of Colorado, Inc.
Contents:
- Geophysical Logs: 
- Lithology logs: ✔
- Cross-sections: 
- Mine maps: 
- Structure maps: 
- Other: ✔

MSIC Report #: J10d  County: JEFFERSON  Date: 1980
Author: Chen and Associates
Title: Subsurface Investigation to Evaluate Mine Subsidence Potential in the Area of the Columbine Jr. High School Football Field and Track
Availability: Colorado Geological Survey
Mine Name(s): Littleton (Christenson)
Location: 5 S 69 W SW 27  Latitude: 39.58612  Longitude: -105.1031
Publisher: Chen and Associates
Contents:
- Geophysical Logs: ✔
- Lithology logs: ✔
- Cross-sections: 
- Mine maps: 
- Structure maps: 
- Other:
MSIC Report #: J10e  County: JEFFERSON  Date: 1973
Author: F.M. Fox and Associates, Inc.
Title: Subsurface Drilling Investigation of an Existing Coal Mine, Section 27, T5S, R69W, Jefferson County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Littleton (Christenson)
Location: 5 S 69 W SW 27  Latitude: 39.58612  Longitude: -105.1031
Publisher: F.M. Fox and Associates, Inc.
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:  

MSIC Report #: J10f  County: JEFFERSON  Date: 1979
Author: Chen and Associates
Title: Coal Mine Subsidence Evaluation, Columbine Junior High School Site, Jefferson County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Littleton (Christenson)
Location: 5 S 69 W NW 27  Latitude: 39.58974  Longitude: -105.1031
Publisher: Chen and Associates
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:  

MSIC Report #: J10g  County: JEFFERSON  Date: 1982
Author: F.M. Fox and Associates, Inc.
Title: Engineering Geologic Report, Stony Creek Filing No. 9, a Portion of the S 1/2 of Section 27, T5S, R69W, Jefferson County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Littleton (Christenson)
Location: 5 S 69 W 27  Latitude: 39.58789  Longitude: -105.1007
Publisher: F.M. Fox and Associates
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:  

59
MSIC Report #: J11  County: JEFFERSON  Date: 1977
Author: F.M. Fox and Associates, Inc.
Title: Abandoned Coal Mine Review for The Meadows Planned Development, Jefferson County, Colorado
Availability: Mine Name(s): Economy (Unity), Littleton (Christenson), Virginia
Location: 5S 69W 21  Latitude: 39.58789  Longitude: -105.107
Publisher: F.M. Fox and Associates, Inc.
Contents:
- Geophysical Logs:  
- Lithology logs:  
- Cross-sections:  
- Mine maps:  
- Structure maps:  
- Other:  

MSIC Report #: J12  County: JEFFERSON  Date: 1983
Author: Goodson & Associates, Inc.
Title: Virginia Mine Subsidence Hazard Evaluation Project
Availability: Colorado Geological Survey; Colorado Division of Reclamation Mining & Safety; Jefferson County
Mine Name(s): Virginia
Location: 5S 69W NE 34  Latitude: 39.57527  Longitude: -105.0985
Publisher: State of Colorado, Mined Land Reclamation Division
Contents:
- Geophysical Logs:  
- Lithology logs:  
- Cross-sections:  
- Mine maps:  
- Structure maps:  
- Other:  

MSIC Report #: J13  County: JEFFERSON  Date: 1984
Author: J.C. Lucas and C. Russell
Title: Investigation of Mine Conditions Beneath a Southwest Metropolitan Water and Sanitation District Sewer Line, Virginia Mine, Jefferson County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Virginia
Location: 5S 69W NE 34  Latitude: 39.57527  Longitude: -105.0985
Publisher: State of Colorado, Mined Land Reclamation Division
Contents:
- Geophysical Logs:  
- Lithology logs:  
- Cross-sections:  
- Mine maps:  
- Structure maps:  
- Other:  

60
**MSIC Report #: J14  County: JEFFERSON  Date: 1978**

**Author:** A.R. Myers, R.A. Lindvall, J.L. Hynes, and J.B. Ivey

**Title:** Coal and Clay Mine Hazard Study and Estimated Unmined Coal Resources, Jefferson County, Colorado

**Availability:** Colorado Geological Survey; Jefferson County

**Mine Name(s):** All Jefferson County mines

**Location:** Latitude: 39.72951  Longitude: -105.1521

**Publisher:** Jefferson County, prepared by Amuedo and Ivey

**Contents:**
- Geophysical Logs: 
- Lithology logs: 
- Cross-sections: 
- Mine maps: 
- Structure maps: 
- Other: 

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**MSIC Report #: J15  County: JEFFERSON  Date: 9/1984**

**Author:** Amuedo and Ivey

**Title:** Subsidence Investigation, Littleton Mine, Jefferson County, Colorado

**Availability:** Jefferson County Planning Department

**Mine Name(s):** Littleton (Christenson)

**Location:** 5 S 69 W NW 27  Latitude: 39.59156  Longitude: -105.1055

**Publisher:** Amuedo and Ivey

**Contents:**
- Geophysical Logs: 
- Lithology logs: 
- Cross-sections: 
- Mine maps: 
- Structure maps: 
- Other: 

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**MSIC Report #: J16  County: JEFFERSON  Date: 1982**

**Author:** Public Service Company of Colorado - Electric Engineering Land Department

**Title:** Chatfield Neighborhood Electric Substation and 23,000 Volt Transmission Line

**Availability:** Colorado Geological Survey

**Mine Name(s):** Economy (Unity), Littleton (Christenson)

**Location:** 5 S 69 W NE 28  Latitude: 39.59156  Longitude: -105.1149

**Publisher:** Public Service Company of Colorado - Electric Engineering Land Department

**Contents:**
- Geophysical Logs: 
- Lithology logs: 
- Cross-sections: 
- Mine maps: 
- Structure maps: 
- Other: 

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<td>Geologic and Preliminary Geotechnical Investigation: Parcel N, South Kipling Parkway and West Coal Mine Avenue, Jefferson County, Colorado</td>
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MSIC Report #: J17c   County: JEFFERSON   Date: 2002
Author: CTL/Thompson
Title: Presentation Summary for Subsidence Mitigation, Parcel N, Coal Mine and Kipling Street, Jefferson County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Economy (Unity)
Location: 5 S 69 W SE 21 Latitude: 39.59882 Longitude: -105.1148
Publisher: CTL/Thompson
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:  
MSIC Report #: J17d   County: JEFFERSON   Date: 1997
Author: NSA Engineering, Inc.
Title: Subsidence Investigation, Mitigation and Estimated Cost/Annual Cost/Risk Evaluation for West Coal Mine Avenue Extension
Availability: Colorado Geological Survey, Jefferson County Public Works
Mine Name(s): Economy (Unity)
Location: 5 S 69 W SE 21 Latitude: 39.59882 Longitude: -105.1148
Publisher: NSA Engineering, Inc.
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:  
MSIC Report #: J19   County: JEFFERSON   Date: 1997
Author: Amuedo and Ivey
Title: Mine Subsidence Potential, Leyden Mine
Availability: Colorado Geological Survey
Mine Name(s): Leyden
Location: 2 S 70 W 26 Latitude: 39.84857 Longitude: -105.2126
Publisher: Amuedo and Ivey
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:  
MSIC Report #: J20  County: JEFFERSON  Date: 1996
Author: CTL/Thompson
Title: Subsidence Evaluation, Coal Mine Ave. and Kipling St.
Availability: Colorado Geological Survey
Mine Name(s): Economy (Unity)
Location: 5S 69W SE 21  Latitude: 39.59701  Longitude: -105.1125
Publisher: CTL/Thompson
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:

MSIC Report #: J21  County: JEFFERSON  Date: 1972
Author: Robert W. Thompson, Inc., Consulting Engineer
Title: Soils and Foundation Investigation, Proposed Subdivision, West Bowles and South Kipling, Jefferson County, Colorado
Availability: Colorado Geological Survey
Mine Name(s):
Location: 5S 69W SE 21  Latitude: 39.60335  Longitude: -105.1136
Publisher: Robert W. Thompson, Inc. Consulting Engineer
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:

MSIC Report #: J22  County: JEFFERSON  Date: 1973
Author: Willard Owens Associates
Title: Preliminary Ground Water and Engineering Geologic Investigation, Columbine Community, Jefferson County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Economy (Unity)
Location: 5S 69W 21  Latitude: 39.58043  Longitude: -105.1106
Publisher: Willard Owens Associates
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:
MSIC Report #: J23  County: JEFFERSON  Date: 2004
Author: Hart Crowser, Inc.
Title: Mitchell/Golden Subsidence Emergency, 1315 Cody Trail, Golden, Colorado
Availability: Colorado Geological Survey
Mine Name(s): New Loveland
Location: 3S 70W SW 28  Latitude: 39.7599  Longitude: -105.2322
Publisher: Hart Crowser, Inc.
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

MSIC Report #: J24  County: JEFFERSON  Date: 1973
Author: F.M. Fox and Associates, Inc.
Title: Soil Investigation, Columbine Airpark, Jefferson County, Colorado (Stony Creek Subdivision)
Mine Name(s): Littleton (Christenson)
Location: 5S 69W 27  Latitude: 39.58789  Longitude: -105.1007
Publisher: F.M. Fox and Associates, Inc.
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

MSIC Report #: J25  County: JEFFERSON  Date: 2004
Author: Kleinfelder, Inc. (David H. Adams)
Title: Sink Hole Evaluation, 1550 West Campus Road, Colorado School of Mines, Golden, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Pittsburg Coal Mine; Parfet Clay Mine
Location: 3S 70W NE 33  Latitude: 39.748  Longitude: -105.2251
Publisher: Kleinfelder, Inc.
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 
MSIC Report #: J26  County: JEFFERSON  Date: 1993
Author: CTL/Thompson
Title: Grading Plan Review for Canyon Point, Filing 1, Golden, Colorado
Availability: Colorado Geological Survey, City of Golden
Mine Name(s): New (Little) White Ash
Location: 3 S 70 W NE 28  Latitude: 39.76  Longitude: -105.235
Publisher: CTL/Thompson
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:

MSIC Report #: J27  County: JEFFERSON  Date: 2004
Author: Rechlitz and Senior, LLC
Title: Map of Abandoned Coal Mine Areas in Southern Jefferson County, Hillside at Stony Creek
Availability: Colorado Geological Survey
Mine Name(s): Economy (Unity)
Location: 5 S 69 W SE 21  Latitude: 39.5983  Longitude: -105.1121
Publisher: Rechlitz and Senior, LLC
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:

MSIC Report #: J28  County: JEFFERSON  Date: 1998
Author: Haley & Aldrich, Inc. (Brad Bauer)
Title: Final Report: Geotechnical Evaluation of Mine Subsidence Hazard and Mitigation Design, West Coal Mine Avenue Extension (Moore to Kipling)
Availability: Colorado Geological Survey, Jefferson County Public Works
Mine Name(s): Economy (Unity)
Location: Latitude: 39.59342  Longitude: -105.1125
Publisher: Haley & Aldrich, Inc.
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:
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<th>MSIC Report #</th>
<th>County</th>
<th>Date</th>
<th>Author</th>
<th>Title</th>
<th>Availability</th>
<th>Mine Name(s)</th>
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MSIC Report #: J35a  County: JEFFERSON  Date: 2009
Author: Zapata Incorporated, Blackhawk Division
Title: DC Resistivity Survey at the Colorado School of Mines, Golden, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Clay mines
Location: 3 S 70 W  NE 33  Latitude: 39.75087  Longitude: -105.2265
Publisher: Zapata Incorporated, Blackhawk Division
Contents: Geophysical Logs: ✓  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

MSIC Report #: J35b  County: JEFFERSON  Date: 2008
Author: Zapata Incorporated, Blackhawk Division (Kanaan Hanna)
Title: Subsidence Abatement Project at Colorado School of Mines (CSM) Campus in Golden, and Country Club Circle in Colorado Springs
Availability: Colorado Geological Survey
Mine Name(s): Clay mines
Location: 3 S 70 W  NE 33  Latitude: 39.75087  Longitude: -105.2265
Publisher: Zapata Incorporated, Blackhawk Division
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

MSIC Report #: J36  County: JEFFERSON  Date: 2004
Author: CTL/Thompson
Title: Subsidence Mitigation Pilot Project Summary Report: Silver Leaf Subdivision, South Kipling Parkway and West Coal Mine Avenue, Jefferson County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Economy (Unity)
Location: 5 S 69 W  SE 21  Latitude: 39.59882  Longitude: -105.1148
Publisher: CTL/Thompson
Contents: Geophysical Logs: ✓  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

68
MSIC Report #: J37  County: JEFFERSON  Date: 1997
Author: Ameudo and Ivey
Title: Subsidence Investigation: El Dorado Hills Subdivision, Jefferson County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Leyden
Location: 2S 70W N 35  Latitude: 39.83424  Longitude: -105.1935
Publisher: Ameudo and Ivey
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:  

MSIC Report #: J38  County: JEFFERSON  Date: 1997
Author: Ameudo and Ivey
Title: Proposed Revision of Geologic Hazards Overlay, Leyden Mine
Availability: Colorado Geological Survey
Mine Name(s): Leyden
Location: 2S 70W 35  Latitude: 39.83424  Longitude: -105.1935
Publisher: Ameudo and Ivey
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:  

MSIC Report #: J39  County: JEFFERSON  Date: 1979
Author: David Jenkins, Denver Post Staff Writer
Title: Children Discover Old Mine Shaft in Stony Creek
Availability: Colorado Geological Survey, Denver Post
Mine Name(s): Littleton (Christenson)
Location: 5S 69W SE 21  Latitude: 39.5983  Longitude: -105.1121
Publisher: The Denver Post
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:  

69
**MSIC Report #: J40  County: JEFFERSON  Date: 1983**

**Author:** Goodson & Associates, Inc. (R.M. Wood, G.J. Colaizzi, M. Schmidt, Ralph H. Whaite)

**Title:** Virginia Mine Subsidence Hazard Evaluation Project

**Availability:** Colorado Geological Survey

**Mine Name(s):** Virginia

**Location:** 5 S 69 W NE 34  

**Publisher:** Goodson & Associates, Inc.

**Contents:**
- Geophysical Logs: ✓
- Lithology logs: ❑
- Cross-sections: ❑
- Mine maps: ❑
- Structure maps: ❑
- Other: ❑

---

**MSIC Report #: LN1  County: LAS ANIMAS  Date: 2001**

**Author:** Pioneer Engineering (Carlton E. Gerity)

**Title:** Report Concerning the Effects of Abandoned Underground Coal Mining on the Reserve at Fisher Peak

**Availability:** Colorado Geological Survey

**Mine Name(s):** Eagle, Wilton, Eli Jeffries, Bloom, Hines

**Location:** 33 S 68 W NW 29  

**Publisher:** Pioneer Engineering

**Contents:**
- Geophysical Logs: ❑
- Lithology logs: ❑
- Cross-sections: ❑
- Mine maps: ❑
- Structure maps: ❑
- Other: ✓

---

**MSIC Report #: P1  County: PITKIN  Date: 1996**

**Author:** Nicholas Lampiris, Consulting Geologist

**Title:** Carbonate Mill Site - debris flow, rockfall and avalanche hazard assessment, no mining at all. Land use review

**Availability:** Colorado Geological Survey

**Mine Name(s):**

**Location:** 10 S 88 W 4  

**Publisher:** Nicholas Lampiris, Consulting Geologist

**Contents:**
- Geophysical Logs: ❑
- Lithology logs: ❑
- Cross-sections: ❑
- Mine maps: ❑
- Structure maps: ❑
- Other: ❑
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<td>W1</td>
<td>WELD</td>
<td>1981</td>
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**Author:**
- SubTerra, Inc.
- Leyden Coal Company
- Judith L. Hamilton, Consulting Geologist and Engineer

**Title:**
- Draft: Milner Landfill Coal Mine Subsidence Evaluation
- HSOCP Project Area
- Geologic and Hydrologic Report, Proposed Landfill, Sections 20 and 21, T1N R68W, Weld County, Colorado

**Availability:**
- Colorado Geological Survey

**Mine Name(s):**
- McGregor
- Ben Male, Big Mack, Blue Spruce, Edna, Frank's, Hayden Nos. 1 - 4, Keystone, Moffat Nos. 1 - 3, Oak Hills No. 1 and 2, Pinnacle No. 4, Pinnacle, Postal, Yampa Valley No. 1-3 & 6, Arrowhead, Electric No. 1-3
- Boulder Valley No. 1 (Andrew), Columbine

**Location:**
- 6 N 83 W SW 16, Latitude: 40.48488, Longitude: -106.7237
- Latitude: 40.48375, Longitude: -106.7129
- 1 N 68 W 20, Latitude: 40.03165, Longitude: -105.0213

**Publisher:**
- SubTerra, Inc.
- Leyden Coal Company
- Judith L. Hamilton, Consulting Geologist and Engineer

**Contents:**
- Geophysical Logs: [ ]
- Lithology logs: [ ]
- Cross-sections: [ ]
- Mine maps: [ ]
- Structure maps: [ ]
- Other: [ ]
MSIC Report #: W2  County: WELD  Date: 1984
Author: Jeffrey L. Hynes
Title: Tri-Towns Subsidence Investigation, Weld County, Colorado
Availability: Colorado Geological Survey; Colorado Division of Reclamation Mining & Safety
Mine Name(s): Baum, Firestone, Evans, Grant, Sterling, Warwick
Location: 1 N 67 W 6  Latitude: 40.09481  Longitude: -104.9331
Publisher: Colorado Division of Mined Land Reclamation, Inactive Mine Program
Contents: Geophysical Logs: ✓  Lithology logs: ✓  Cross-sections: ✓  Mine maps: ✓
Structure maps:  Other: ✓

MSIC Report #: W3  County: WELD  Date: 1983
Author: Tierra Consultants, Inc.
Title: Subsidence Potential Study, Dacono property, Weld County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Puritan
Location: 1 N 68 W 3  Latitude: 40.08033  Longitude: -104.9895
Publisher: Tierra Consultants, Inc.
Contents: Geophysical Logs: ✓  Lithology logs: ✓  Cross-sections: ✓  Mine maps: ✓
Structure maps:  Other: ✓

MSIC Report #: W4  County: WELD  Date: 1980
Author: Chen and Associates
Title: Preliminary Engineering Geology, Soils and Coal Mine Subsidence Evaluation for the Harrington Property, Weld County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Gradon
Location: 1 N 68 W 3  Latitude: 40.08033  Longitude: -104.9895
Publisher: Chen and Assoc.
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  
Structure maps:  Other:  

72
MSIC Report #: W5  County: WELD  Date: 1980
Author: E.O. Church
Title: Geologic Investigation, Proposed Coufal Residence, 40 Acre Tract, Section 15, T1N, R68W
Availability: Colorado Geological Survey
Mine Name(s): Eagle
Location: 1 N 68 W SW 15  Latitude: 40.05034  Longitude: -104.9943
Publisher: E.O. Church
Contents: Geophysical Logs: □  Lithology logs: □  Cross-sections: □  Mine maps: □
Structure maps: □  Other: ✓

MSIC Report #: W6  County: WELD  Date: 1982
Author: Louis A. Gaz
Title: Geologic Hazard, Martin Exploration Co.
Availability: Colorado Geological Survey
Mine Name(s): Sterling
Location: 1 N 67 W NW 5  Latitude: 40.08201  Longitude: -104.9216
Publisher: Louis A. Gaz, Consulting Engineer
Contents: Geophysical Logs: □  Lithology logs: □  Cross-sections: □  Mine maps: □
Structure maps: □  Other: ✓

MSIC Report #: W7  County: WELD  Date: 3/1985
Author: Deuel and Associates
Title: Subsidence Potential, 9 Acres of the Scotts Acres Subdivision
Availability: Colorado Geological Survey
Mine Name(s): Morrison
Location: 1 N 68 W NE 9  Latitude: 40.06937  Longitude: -105.0037
Publisher: Deuel and Associates
Contents: Geophysical Logs: ✓  Lithology logs: ✓  Cross-sections: □  Mine maps: ✓
Structure maps: □  Other: ✓
County: WELD  
Author: Deuel and Associates  
Title: Subsidence Potential Study of 320 Acres Located in Frederick, Colorado for Grant Bros.  
Availability: Colorado Geological Survey  
Mine Name(s): Sterling  
Location: 2 N 67 W 31  
Latitude: 40.09483  
Longitude: -104.9331  
Publisher: Deuel and Associates  
Contents:  
Geophysical Logs: ✓  
Lithology logs: ✓  
Cross-sections:  
Mine maps: ✓  
Structure maps:  
Other: ✓  

County: WELD  
Author: Western Environment and Ecology, Inc.  
Title: Mine Subsidence Investigation, Northwest Quarter Section 2, Township 1 North, Range 68 West, Weld County Colorado  
Availability: Colorado Geological Survey  
Mine Name(s): Puritan  
Location: 1 N 68 W NW 2  
Latitude: 40.08397  
Longitude: -104.9752  
Publisher: Western Environment and Ecology, Inc.  
Contents:  
Geophysical Logs:  
Lithology logs: ✓  
Cross-sections:  
Mine maps: ✓  
Structure maps:  
Other: ✓  

County: WELD  
Author: E.O. Church  
Title: Preliminary Report for Geologic Investigation, Proposed Residential Development, Part of NE 1/4 Section 30, T2N, R67W, Weld County, Colorado  
Availability: Colorado Geological Survey  
Mine Name(s): Grant  
Location: 2 N 67 W NE 30  
Latitude: 40.11304  
Longitude: -104.9285  
Publisher: E.O. Church, Inc.  
Contents:  
Geophysical Logs:  
Lithology logs:  
Cross-sections:  
Mine maps: ✓  
Structure maps:  
Other: ✓
MSIC Report #: W12  County: WELD  Date: 1995
Author: E.O. Church
Title: Geotechnical Investigation and Subsidence Evaluation, Frederick Coal Mine, SE 1/4 Section 25, T2N, R68W, Weld County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Frederick
Location: 2 N  68 W  SE 25  Latitude: 40.10588  Longitude: -104.9469
Publisher: E.O. Church, Inc.
Contents: Geophysical Logs: ☑  Lithology logs: ☑  Cross-sections: ☑  Mine maps: ☐  Structure maps: ☐  Other: ☐

MSIC Report #: W13  County: WELD  Date: 1996
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, Gillespie and Timberland Subdivisions, Firestone, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Grant
Location: 2 N  67 W  NE 30  Latitude: 40.11304  Longitude: -104.9285
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ☑  Lithology logs: ☑  Cross-sections: ☐  Mine maps: ☑  Structure maps: ☐  Other: ☑

MSIC Report #: W14  County: WELD  Date: 1977
Author: Dames & Moore
Title: Preliminary drilling investigation of the coal mines in sections 18 and 19 near Erie, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Boulder Valley, North-Western, Garfield, Mitchell, Lehigh, unknown
Location: 1 N  68 W  E 18  Latitude: 40.04388  Longitude: -104.9898
Publisher: Dames & Moore
Contents: Geophysical Logs: ☐  Lithology logs: ☑  Cross-sections: ☐  Mine maps: ☐  Structure maps: ☐  Other: ☐
MSIC Report #: W15  County: **WELD**  Date: 1999
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, East Winds Village Subdivision, Firestone, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Grant
Location: 2 N 67 W NW 19  latitude: 40.12765  longitude: -104.9377
Publisher: Western Environment and Ecology, Inc.
Contents:
- Geophysical Logs: ✔
- Lithology logs: ✔
- Cross-sections: ☐
- Mine maps: ✔
- Structure maps: ☐
- Other: ☐

MSIC Report #: W16  County: **WELD**  Date: 1999
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, Countryside Subdivision, Section 25, T2N, R68W, Weld County, Colorado.
Availability: Colorado Geological Survey
Mine Name(s): Frederick
Location: 2 N 68 W SE 25  latitude: 40.10588  longitude: -104.9469
Publisher: Western Environment and Ecology, Inc.
Contents:
- Geophysical Logs: ✔
- Lithology logs: ✔
- Cross-sections: ☐
- Mine maps: ✔
- Structure maps: ☐
- Other: ☐

MSIC Report #: W17  County: **WELD**  Date: 7/2001
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, Coal Creek Commons Industrial Park (CCC), Erie, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Mitchell
Location: 1 N 68 W SW 19  latitude: 40.03292  longitude: -105.0508
Publisher: Western Environment and Ecology, Inc.
Contents:
- Geophysical Logs: ✔
- Lithology logs: ✔
- Cross-sections: ✔
- Mine maps: ✔
- Structure maps: ☐
- Other: ☐
MSIC Report #: W21  County: WELD  Date: 2001
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, Sharps Farm, Section 1, T1N, R68W, Dacono, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Boulder Valley No. 3
Location: 1 N 68 W NE 1  Latitude: 40.08399  Longitude: -104.947
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ☑  Lithology logs: ☑  Cross-sections: ☐  Mine maps: ☑
Structure maps: ☐  Other: ☐

MSIC Report #: W22  County: WELD  Date: 2001
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, Saddleback Hill Development, Firestone, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Emerson, Russell
Location: 2 N 67 W NW 29  Latitude: 40.11835  Longitude: -104.9169
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ☑  Lithology logs: ☑  Cross-sections: ☐  Mine maps: ☑
Structure maps: ☐  Other: ☐

MSIC Report #: W23  County: WELD  Date: 2000
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, 497.55 acres in Section 14, T1N, R68W, Dacono, Colorado (Sweetgrass Subdivision)
Availability: Colorado Geological Survey
Mine Name(s): Eagle
Location: 1 N 68 W 14  Latitude: 40.05125  Longitude: -104.9706
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ☑  Lithology logs: ☑  Cross-sections: ☐  Mine maps: ☑
Structure maps: ☐  Other: ☐
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<td>W24</td>
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<td>2002</td>
<td>Western Environment and Ecology, Inc.</td>
<td>Mine Subsidence Investigation, Pinnacle Farms, 305 acres in Section 2, T1N, R68W, Dacono, Colorado</td>
<td>Boulder Valley No. 3</td>
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<td>WELD</td>
<td>2001</td>
<td>CTL/Thompson</td>
<td>Subsidence Investigation, Section 36, T2N, R68W, Weld County, Colorado</td>
<td>Baum</td>
<td>2N 68 W 36</td>
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<td>CTL/Thompson</td>
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<td>W26</td>
<td>WELD</td>
<td>1998</td>
<td>Western Environment and Ecology, Inc.</td>
<td>Mine Subsidence Investigation, Richardson Homes (future Wildflower)</td>
<td>Shamrock, Eureka</td>
<td>2N 68 W 27</td>
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<td>Western Environment and Ecology, Inc.</td>
<td>Geophysical Logs: [✓] Lithology logs: [✓] Cross-sections: [ ] Mine maps: [✓] Structure maps: [ ] Other: [ ]</td>
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**MSIC Report #:** W27  
**County:** WELD  
**Date:** 2001

**Author:** Western Environment and Ecology Inc.

**Title:** Mine Subsidence Investigation: Carlson Annexation; 153 acres in the southwest 1/4 of Section 2, T1N, R68W, Weld County, Colorado

**Availability:** Colorado Geological Survey

**Mine Name(s):** Puritan

**Location:**  
1 N 68 W SW 2  
Latitude: 40.07666  
Longitude: -104.9753

**Publisher:** Western Environment and Ecology Inc.

**Contents:**  
- Geophysical Logs: ✔  
- Lithology logs: ✔  
- Cross-sections:  
- Mine maps:  
- Structure maps:  
- Other:  

---

**MSIC Report #:** W28  
**County:** WELD  
**Date:** 2004

**Author:** NewFields, Inc. (David R Hinrichs)

**Title:** Subsidence Analysis for Autumn Valley Ranch Subdivision, Dacono, Colorado

**Availability:** Colorado Geological Survey

**Mine Name(s):** Sterling

**Location:**  
1 N 67 W SW 6  
Latitude: 40.07485  
Longitude: -104.9357

**Publisher:** Newfields

**Contents:**  
- Geophysical Logs:  
- Lithology logs:  
- Cross-sections:  
- Mine maps:  
- Structure maps:  
- Other:  

---

**MSIC Report #:** W29  
**County:** WELD  
**Date:** 2002

**Author:** Western Environment and Ecology, Inc.

**Title:** Mine Subsidence Investigation: Pacific West Development; 320 acres in the north 1/2 of Section 18, T1N, R67W, Weld County, Colorado

**Availability:** Colorado Geological Survey

**Mine Name(s):** Sterling, Lincoln

**Location:**  
1 N 67 W 18  
Latitude: 40.05112  
Longitude: -104.9332

**Publisher:** Western Environment and Ecology, Inc.

**Contents:**  
- Geophysical Logs: ✔  
- Lithology logs: ✔  
- Cross-sections:  
- Mine maps: ✔  
- Structure maps:  
- Other: ✔
MSIC Report #: W30  County: WELD  Date: 2005
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Evaluation, Lot 8, Scott's Acres, NE 1/4 Section 9, Township 1 North, Range 68 West, Weld County Colorado
Availability: Western Environment and Ecology, Inc.; Colorado Geological Survey
Mine Name(s): Morrison
Location: 1 N 68 W NE 9  Latitude: 40.06936  Longitude: -105.0037
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ☑  Lithology logs: ☑  Cross-sections: ☑  Mine maps: ☑  Structure maps: ☑  Other: ☐

MSIC Report #: W31  County: WELD  Date: 2002
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation: General Land Development Corporation; 82 acres of Section 1, T1N, R68W, Weld County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Baum
Location: 1 N 68 W SE 1  Latitude: 40.07489  Longitude: -104.9494
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ☑  Lithology logs: ☑  Cross-sections: ☑  Mine maps: ☑  Structure maps: ☑  Other: ☑

MSIC Report #: W32  County: WELD  Date: 2003
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation: Proposed Erie High School Site, 60 acres in Section 16, T1N, R68W, Weld County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Clayton
Location: 1 N 68 W 16  Latitude: 40.05107  Longitude: -105.0086
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ☑  Lithology logs: ☑  Cross-sections: ☑  Mine maps: ☑  Structure maps: ☑  Other: ☑
MSIC Report #: W33  County: WELD  Date: 2004
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Summary Report, Erie Commons
Availability: Colorado Geological Survey
Mine Name(s): Lehigh, Garfield
Location: 1N 68W 19  Latitude: 40.03644  Longitude: -105.0462
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ☑  Lithology logs: ☐  Cross-sections: ☐  Mine maps: ✓
Structure maps: ✓  Other: ☐

MSIC Report #: W34  County: WELD  Date: 2003
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Evaluation, Wyndham Hill PUD, Sections 33 and 34, Township 2 North, Range 68 West, Weld County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Puritan, Shamrock
Location: 2N 68W 33  Latitude: 40.09309  Longitude: -104.9965
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ☑  Lithology logs: ☑  Cross-sections: ✓  Mine maps: ✓
Structure maps: ✓  Other: ☐

MSIC Report #: W35  County: WELD  Date: 2003
Author: Western Environment and Ecology, Inc.
Title: Review of Mine Subsidence Related Development Issues, Wildflower Residential Subdivision Filing 1
Availability:
Mine Name(s): Shamrock, Eureka
Location: 2N 68W 27  Latitude: 40.10711  Longitude: -104.9878
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ☑  Lithology logs: ☑  Cross-sections: ✓  Mine maps: ✓
Structure maps: ✓  Other: ☐
**MSIC Report #:** W36  
**County:** WELD  
**Date:** 1998

**Author:** Western Environment and Ecology, Inc.

**Title:** Mine Subsidence Investigation, Richardson Homes (future Wildflower)

**Availability:** Colorado Geological Survey

**Mine Name(s):** Shamrock

**Location:** 2 N 68 W 27  
**Latitude:** 40.10579  
**Longitude:** -104.9894

**Publisher:** Western Environment and Ecology, Inc.

**Contents:**
- Geophysical Logs: 
- Lithology logs: 
- Cross-sections: 
- Mine maps: 
- Structure maps: 
- Other: 

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**MSIC Report #:** W37  
**County:** WELD  
**Date:** 3/2002

**Author:** CTL/Thompson

**Title:** Hidden Creek

**Availability:** Colorado Geological Survey

**Mine Name(s):** Russell

**Location:** 2 N 67 W 29  
**Latitude:** 40.10579  
**Longitude:** -104.9193

**Publisher:** CTL/Thompson

**Contents:**
- Geophysical Logs: 
- Lithology logs: 
- Cross-sections: 
- Mine maps: 
- Structure maps: 
- Other: 

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**MSIC Report #:** W38  
**County:** WELD  
**Date:**

**Author:** CTL/Thompson

**Title:** Subsidence Investigation, Camenish Property

**Availability:** Colorado Geological Survey

**Mine Name(s):** Russell

**Location:** 2 N 67 W 29  
**Latitude:** 40.10575  
**Longitude:** -104.9192

**Publisher:** CTL/Thompson

**Contents:**
- Geophysical Logs: 
- Lithology logs: 
- Cross-sections: 
- Mine maps: 
- Structure maps: 
- Other: 

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MSIC Report #: W39  County: WELD  Date: 1999
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, SW and NW Quarter Section 32, Township 2 N, Range 68 W
Availability: Colorado Geological Survey
Mine Name(s): Sterling
Location: 2 N 68 W NW 32  Latitude: 40.09871  Longitude: -105.0321
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ☑  Lithology logs: ☑  Cross-sections: ☐  Mine maps: ☐  Structure maps: ☐  Other: ☐

MSIC Report #: W40  County: WELD  Date: 1999
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, Hart Property
Availability: Colorado Geological Survey
Mine Name(s): Sterling
Location: 1 N 67 W 7  Latitude: 40.06939  Longitude: -104.9333
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ☑  Lithology logs: ☑  Cross-sections: ☐  Mine maps: ☐  Structure maps: ☐  Other: ☐

MSIC Report #: W41  County: WELD  Date: 3/1985
Author: Deuel and Associates
Title: Subsidence Potential Study of 320 Acres of the Grant Bros. Property in Frederick
Availability: Colorado Geological Survey
Mine Name(s): Sterling
Location: 2 N 67 W 31  Latitude: 40.09127  Longitude: -104.9286
Publisher: Deuel and Associates
Contents: Geophysical Logs: ☐  Lithology logs: ☐  Cross-sections: ☐  Mine maps: ☐  Structure maps: ☐  Other: ☐
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<th>MSIC Report #</th>
<th>County</th>
<th>Date</th>
<th>Author</th>
<th>Title</th>
<th>Availability</th>
<th>Mine Name(s)</th>
<th>Location</th>
<th>Publisher</th>
<th>Contents</th>
</tr>
</thead>
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MSIC Report #: W45  County: WELD  Date: 2005
Author: Western Environment and Ecology, Inc.
Title: SCHOOL - Elementary School - Dacono
Availability: Mine Name(s): Sterling, Baum
Location: 1N 67W 6  Latitude: 40.08023  Longitude: -104.9332
Publisher: Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

MSIC Report #: W46  County: WELD  Date: 2005
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Potential, Furniture Row Site Plan
Availability: Mine Name(s): Eagle
Location: 1N 68W 14  Latitude: 40.05125  Longitude: -104.9706
Publisher: Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

MSIC Report #: W47  County: WELD  Date: 2004
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, Maple Ridge II Subdivision
Availability: Mine Name(s): Warwick
Location: 2N 67W 30  Latitude: 40.10937  Longitude: -104.9331
Publisher: Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

MSIC Report #: W48  County: WELD  Date: 5/2001
Author: E-21 Engineering, Inc.
Title: Report of Coal-Mine Subsidence Investigation for Longs Peak Estates Subdivision, Weld County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Morrison, Clayton
Location: 1 N 68 W 9  Latitude: 40.06973  Longitude: -105.0079
Publisher: E-21 Engineering, Inc.
Contents: Geophysical Logs: ✓  Lithology logs: ✓  Cross-sections:  □  Mine maps: ✓  Structure maps:  □  Other:  □

MSIC Report #: W49  County: WELD  Date: 1999
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, Glacier LLC Property Mine Subsidence, Section 3, T1N, R68W, Weld County
Availability: Colorado Geological Survey
Mine Name(s): Puritan
Location: 1 N 68 W 3  Latitude: 40.08033  Longitude: -104.9895
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs:  □  Lithology logs: ✓  Cross-sections: ✓  Mine maps:  □  Structure maps:  ✓  Other:  □

MSIC Report #: W50  County: WELD  Date: 1999
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, Hemco Property
Availability: Colorado Geological Survey
Mine Name(s): McKissick, Grant
Location: 2 N 67 W 19  Latitude: 40.12391  Longitude: -104.9331
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs:  □  Lithology logs:  □  Cross-sections:  □  Mine maps:  □  Structure maps:  □  Other:  □
MSIC Report #: W51  County: WELD  Date: 1999
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, Section 36, Township 2 North, Range 68 West
Availability: Colorado Geological Survey
Mine Name(s): Baum
Location: 2 N 68 W 36  Latitude: 40.09491  Longitude: -104.9517
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

MSIC Report #: W52  County: WELD  Date: 1999
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, General Land Development Corporation, 80 Acres of Section 1, T1N, R68W
Availability: Colorado Geological Survey
Mine Name(s): Boulder Valley No. 3
Location: 1 N 68 W 1  Latitude: 40.08035  Longitude: -104.9517
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

MSIC Report #: W53  County: WELD  Date: 1999
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, Community Development Group LLC, Northfield Development (Erie Commons)
Availability: Colorado Geological Survey
Mine Name(s): Garfield, Lehigh
Location: 1 N 68 W 19  Latitude: 40.03644  Longitude: -105.0462
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

88
MSIC Report #: W54  County: WELD  Date: 2001
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation: Saddleback Hill Development
Availability: Colorado Geological Survey
Mine Name(s): Russell, Emerson
Location: 2 N 67 W 20  Latitude: 40.11649  Longitude: -104.9146
Publisher: Western Environment and Ecology, Inc.
Contents:  
Geophysical Logs: ✔  Lithology logs: ✔  Cross-sections: ✔  Mine maps: ✔
Structure maps:  Other:  

MSIC Report #: W55  County: WELD  Date: 1999
Author: NewFields, Inc.
Title: Subsidence Analysis, Starlight Commercial Subdivision
Availability: Colorado Geological Survey
Mine Name(s): Baum, Sterling
Location: 1 N 67 W 6 S  Latitude: 40.07666  Longitude: -104.9334
Publisher: NewFields, Inc.
Contents:  
Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps: ✔
Structure maps:  Other:  

MSIC Report #: W57  County: WELD  Date: 1999
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, Lots 4 and 5, Block 4, Glacier Industrial Park, Weld County
Availability: Colorado Geological Survey
Mine Name(s): Puritan
Location: 1 N 68 W 3 NE  Latitude: 40.08396  Longitude: -104.9847
Publisher: Western Environment and Ecology, Inc.
Contents:  
Geophysical Logs: ✔  Lithology logs: ✔  Cross-sections:  Mine maps:  
Structure maps:  Other:  

89
MSIC Report #: W58  County: WELD  Date: 2000
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, Westgate Development
Availability: Colorado Geological Survey
Mine Name(s): Morrison
Location: 1 N 68 W SE 4  Latitude: 40.07667  Longitude: -105.0037
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ✓  Lithology logs: ✓  Cross-sections: ✓  Mine maps: ✓
Structure maps:  Other: 

MSIC Report #: W59  County: WELD  Date: 2000
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, Blackfox Real Estate, Township 2 North, Range 67 West
Availability: Colorado Geological Survey
Mine Name(s): Warwick
Location: 2 N 67 W 30  Latitude: 40.10937  Longitude: -104.9331
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ✓  Lithology logs: ✓  Cross-sections:  Mine maps: ✓
Structure maps:  Other: 

MSIC Report #: W60  County: WELD  Date: 1977
Author: A.G. Wassenaar, F.M. Fox & Associates
Title: Soil and Foundation Investigation for Warehouse & Office Facility, SW 1/4 Section 23, T1N, R68W, Weld County, Colorado (Richard Property)
Availability: Colorado Geological Survey
Mine Name(s): Washington
Location: 1 N 68 W SW 23  Latitude: 40.03305  Longitude: -104.9755
Publisher: A.G. Wassenaar
Contents: Geophysical Logs: ✓  Lithology logs: ✓  Cross-sections:  Mine maps: ✓
Structure maps: ✓  Other: ✓
MSIC Report #: W61  County: WELD  Date: 2001
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, Coal Creek Commons Industrial Park (CCC), Erie, Colorado.
Availability: 
Mine Name(s): Mitchell
Location: 1 N 68 W SW 19 Latitude: 40.03292 Longitude: -105.0508
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ✔️ Lithology logs: ✔️ Cross-sections: □ Mine maps: □
Structure maps: □ Other: □

MSIC Report #: W63  County: WELD  Date: 6/1998
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, Sharps Farm, NE 1/4 Section 1, T1N, R68W, Dacono, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Boulder Valley No. 3
Location: 1 N 68 W NE 1 Latitude: 40.08399 Longitude: -104.947
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ✔️ Lithology logs: ✔️ Cross-sections: □ Mine maps: ✔️
Structure maps: ✔️ Other: □

MSIC Report #: W65  County: WELD  Date: 4/2004
Author: Western Environment and Ecology, Inc.
Title: Addendum to Mine Subsidence Investigation, Wildflower Subdivision, Section 27, Township 2 North, Range 68 West, Frederick, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Shamrock, Eureka
Location: 2 N 68 W 27 Latitude: 40.10961 Longitude: -104.9894
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ✔️ Lithology logs: ✔️ Cross-sections: □ Mine maps: ✔️
Structure maps: □ Other: □
MSIC Report #: W69  County: WELD  Date: 2005
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation: 400 County Road 3, Erie, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Baseline or Monroe
Location: 1 N 68 W SW 32  Latitude: 40.00391  Longitude: -105.0321
Publisher: Western Environment and Ecology, Inc.
Contents:

MSIC Report #: W70  County: WELD  Date: 2007
Author: Western Environment and Ecology, Inc.
Title: Geophysical and Lithological Logs, Erie Recreation Center
Availability: Colorado Geological Survey
Mine Name(s): Garfield
Location: 1 N 68 W 19  Latitude: 40.03644  Longitude: -105.0462
Publisher: Western Environment and Ecology, Inc.
Contents:

MSIC Report #: W71  County: WELD  Date: 1999
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, Lot 6, Block 3, Glacier Industrial Park, Weld County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Puritan
Location: 1 N 68 W NE 3  Latitude: 40.08396  Longitude: -104.9847
Publisher: Western Environment and Ecology, Inc.
Contents:
MSIC Report #: W72  County: WELD  Date: 2001
Author: Robert A. Zielinski, James K. Otton, and Craig A. Johnson
Title: Sources of Salinity Near a Coal Mine Spoil Pile, North-Central Colorado
Availability: Colorado Geological Survey
Mine Name(s): Boulder Valley No. 3
Location: Latitude: 40.08979  Longitude: -105.0057
Publisher: J. Environ. Qual. 30:1237-1248 (2001)
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:  

MSIC Report #: W73  County: WELD  Date: 2007
Author: Western Environment and Ecology, Inc.
Title: Lloyd and Mitchell Mine Shaft Cap Observations
Availability: Colorado Geological Survey
Mine Name(s): Lloyd, Mitchell
Location: 1 N 68 W SW 19  Latitude: 40.03292  Longitude: -105.0508
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:  

MSIC Report #: W74  County: WELD  Date: 1999
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation: SW 1/4 Section 32, Township 2 North, Range 68 West, Weld County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Sterling
Location: 2 N 68 W SW 32  Latitude: 40.0914  Longitude: -105.0321
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:  

94
MSIC Report #: W75  County: WELD  Date: 2000
Author: David R. Hinrichs
Title: Subsidence Analysis - Firestone Villas Subdivision, Firestone, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Firestone
Location: 2 N 67 W NW 30  Latitude: 40.11133  Longitude: -104.941
Publisher: David R. Hinrichs
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

MSIC Report #: W76  County: WELD  Date: 2001
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation - Ridge Lands Subdivision
Availability: Colorado Geological Survey
Mine Name(s): Boulder Valley No. 3
Location: 1 N 68 W NE 1  Latitude: 40.08399  Longitude: -104.9447
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

MSIC Report #: W77  County: WELD  Date: 2007
Author: Professional Service Industries, Inc. (PSI)
Title: Report of Mine Subsidence Study, geotechnical recommendations, proposed Rocky Mountain Christian Church, Frederick, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Frederick
Location: 2 N 68 W SE 25  Latitude: 40.10588  Longitude: -104.9469
Publisher: Professional Service Industries, Inc. (PSI)
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other: 

95
MSIC Report #: W78  County: WELD  Date: 2007
Author: Professional Service Industries, Inc. (PSI)
Title: Report of Mine Subsidence Study, Erie Commercial Center, Erie, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Garfield, Mitchell
Location:  Latitude: 40.03462  Longitude: -105.0531
Publisher: Professional Service Industries, Inc. (PSI)
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:

MSIC Report #: W79  County: WELD  Date: 1993
Author: Huntingdon Consulting Engineers/Environmental Scientists
Title: Preliminary Coal Mine Subsidence Hazard Study, 120-Acre Parcel Near Dacono, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Eagle
Location:  1N 68W 14SW  Latitude: 40.04757  Longitude: -104.9754
Publisher: Huntingdon Consulting Engineers/Environmental Scientists
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:

MSIC Report #: W80  County: WELD  Date: 1999
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Evaluation, 240 Acres, Section 1, T1N, R68W, Dacono, Colorado (Trinity Trust property)
Availability: Colorado Geological Survey
Mine Name(s): Boulder Valley No. 3
Location:  1N 68W 1  Latitude: 40.08  Longitude: -104.952
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs:  Lithology logs:  Cross-sections:  Mine maps:  Structure maps:  Other:
MSIC Report #: W82  County: WELD  Date: 2007
Author: Professional Service Industries, Inc. (PSI)
Title: Report of Mine Subsidence Study - Erie Commercial Center, Erie, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Mitchell, Garfield, Lloyd
Location: 1 N 68 W SW 19  Latitude: 40.03292  Longitude: -105.0508
Publisher: Professional Service Industries, Inc. (PSI)
Contents: Geophysical Logs: ✓  Lithology logs:  Cross-sections:  Mine maps:  
Structure maps:  Other: ✓

MSIC Report #: W83  County: WELD  Date: 2008
Author: Professional Service Industries, Inc. (PSI)
Title: Report of Mine Subsidence Study - Proposed Wyndham Hills Development, Weld County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Puritan, Shamrock
Location: 2 N 68 W 34  Latitude: 40.095  Longitude: -104.989
Publisher: Professional Service Industries, Inc. (PSI)
Contents: Geophysical Logs: ✓  Lithology logs:  Cross-sections:  Mine maps:  
Structure maps:  Other: ✓

MSIC Report #: W84  County: WELD  Date: 2007
Author: Professional Service Industries, Inc. (PSI)
Title: Report of Mine Subsidence Study - Geotechnical Recommendations for Proposed Rocky Mountain Christian Church, Frederick, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Frederick
Location: 2 N 68 W SE 25  Latitude: 40.10588  Longitude: -104.9469
Publisher: Professional Service Industries, Inc. (PSI)
Contents: Geophysical Logs: ✓  Lithology logs:  Cross-sections:  Mine maps: ✓
Structure maps:  Other:  

97
MSIC Report #: W85  County: WELD  Date: 2008
Author: Professional Service Industries, Inc. (PSI)
Title: Report of Mine Subsidence Study - NCMC, Inc./Banner Health Medical Campus, Weld County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Shamrock, Puritan
Location: 2 N 68 W E 34  Latitude: 40.095  Longitude: -104.985
Publisher: Professional Service Industries, Inc. (PSI)
Contents: Geophysical Logs: ☑  Lithology logs: ☐  Cross-sections: ☐  Mine maps: ☐
Structure maps: ☐  Other: ☑

MSIC Report #: W86  County: WELD  Date: 2006
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation - Erie Commercial Development, 36.75 acres in Section 19, Township 1 North, Range 68 West, Erie, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Mitchell, Garfield, Lloyd
Location: 1 N 68 W 19  Latitude: 40.03656  Longitude: -105.0462
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ☑  Lithology logs: ☑  Cross-sections: ☐  Mine maps: ☑
Structure maps: ☐  Other: ☑

MSIC Report #: W87  County: WELD  Date: 1996
Author: E.O. Church, Inc. Engineers & Geologists
Title: Geologic Consultation for Proposed Development in Part of NE1/4, Section 25, T2N, R68W, 6th P.M., Frederick, Weld County, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Frederick
Location: 1 N 68 W NE 25  Latitude: 40.02585  Longitude: -104.9472
Publisher: E.O. Church, Inc. Engineers & Geologists
Contents: Geophysical Logs: ☐  Lithology logs: ☐  Cross-sections: ☐  Mine maps: ☐
Structure maps: ☑  Other: ☐
**MSIC Report #:** W88  
**County:** WELD  
**Date:** 2008  
**Author:** Western Environment and Ecology, Inc.  
**Title:** Excavation Inspection, 1058 Zono Avenue, Erie Commons, Erie Colorado  
**Availability:** Colorado Geological Survey  
**Mine Name(s):** Lehigh  
**Location:** 1 N 68 W 19  
**Latitude:** 40.03656  
**Longitude:** -105.0462  
**Publisher:** Western Environment and Ecology, Inc.  
**Contents:**  
- Geophysical Logs:  
- Lithology logs:  
- Cross-sections:  
- Mine maps:  
- Structure maps:  
- Other:  

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**MSIC Report #:** W89  
**County:** WELD  
**Date:** 2008  
**Author:** Professional Service Industries, Inc. (PSI)  
**Title:** Report of Geotechnical Engineering Evaluation, Proposed Commercial Development, Coal Creek Center - Lot 6, Erie, Colorado  
**Availability:** Colorado Geological Survey  
**Mine Name(s):** Mitchell  
**Location:** 1 N 68 W SW 19  
**Latitude:** 40.03293  
**Longitude:** -105.0508  
**Publisher:** Professional Services Industries, Inc. (PSI)  
**Contents:**  
- Geophysical Logs: ✔  
- Lithology logs: ✔  
- Cross-sections:  
- Mine maps: ✔  
- Structure maps:  
- Other:  

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**MSIC Report #:** W90  
**County:** WELD  
**Date:** 2008  
**Author:** Professional Service Industries, Inc. (PSI)  
**Title:** Report of Geotechnical Engineering Evaluation, Proposed Walgreens Coal Creek Center - Lot 10, Leon Wurl Pkwy & Cty Line Rd, Erie, Colorado  
**Availability:** Colorado Geological Survey  
**Mine Name(s):** Garfield No. 1  
**Location:** 1 N 68 W SW 19  
**Latitude:** 40.03293  
**Longitude:** -105.0508  
**Publisher:** Professional Services Industries, Inc. (PSI)  
**Contents:**  
- Geophysical Logs: ✔  
- Lithology logs: ✔  
- Cross-sections:  
- Mine maps:  
- Structure maps:  
- Other:  

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Mine Subsidence Review, Miners Village PUD, Frederick, Colorado

Date: 2001

MSIC Report #: W91

County: WELD

Author: CTL/Thompson, Western Environment and Ecology, PSI

Title: Mine Subsidence Review, Miners Village PUD, Frederick, Colorado

Availability: Colorado Geological Survey

Mine Name(s): Baum

Location: 2 N 6 W NW 36

Latitude: 40.09858

Longitude: -104.9564

Publisher: CTL/Thompson, Western Environment and Ecology, PSI

Contents:

- Geophysical Logs: ☐
- Lithology logs: ✔
- Cross-sections: ☐
- Mine maps: ✔
- Structure maps: ☐
- Other: ☐

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Subsurface Exploration Program, Coal Mine Confirmation Report, Erie Recreation Center, Town of Erie, Colorado

Date: 2006

MSIC Report #: W92

County: WELD

Author: Ground Engineering Consultants

Title: Subsurface Exploration Program, Coal Mine Confirmation Report, Erie Recreation Center, Town of Erie, Colorado

Availability: Colorado Geological Survey

Mine Name(s): Garfield

Location: 1 N 6 W 19

Latitude: 40.03656

Longitude: -105.0462

Publisher: Ground Engineering Consultants, Inc.

Contents:

- Geophysical Logs: ☐
- Lithology logs: ☐
- Cross-sections: ☐
- Mine maps: ☐
- Structure maps: ☐
- Other: ☐

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Geophysical Investigation to Image Old Mine Works at Erie Recreation Center Site

Date: 2006

MSIC Report #: W93

County: WELD

Author: Zapata Engineering, P.A., Blackhawk Division

Title: Geophysical Investigation to Image Old Mine Works at Erie Recreation Center Site

Availability: Colorado Geological Survey

Mine Name(s): Garfield No. 2

Location: 1 N 6 W 19

Latitude: 40.03656

Longitude: -105.0462

Publisher: Zapata Engineering, P.A., Blackhawk Division

Contents:

- Geophysical Logs: ☐
- Lithology logs: ☐
- Cross-sections: ☐
- Mine maps: ☐
- Structure maps: ☐
- Other: ☐
MSIC Report #: W94   County: WELD   Date: 2002
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation: Johnson Sister's Farm, SW 1/4 of Section 31, Township 2 North, Range 67 West, Frederick, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Evans
Location: 2 N 67 W SW 31  Latitude: 40.09126  Longitude: -104.9379
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ☑  Lithology logs: ☑  Cross-sections: ☐  Mine maps: ☐  Structure maps: ☐  Other: ☐

MSIC Report #: W95   County: WELD   Date: 2009
Author: Professional Service Industries, Inc. (PSI)
Availability: Colorado Geological Survey
Mine Name(s): Baum
Location: 2 N 68 W NE 36  Latitude: 40.09856  Longitude: -104.9469
Publisher: Professional Service Industries, Inc. (PSI)
Contents: Geophysical Logs: ☐  Lithology logs: ☐  Cross-sections: ☐  Mine maps: ☐  Structure maps: ☐  Other: ☐

MSIC Report #: W96a   County: WELD   Date: 2007
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Assessment, Proposed Erie Estates Residential, Southeast 1/4 of Section 20, Township 1 North, Range 68 West, Erie, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Columbine
Location: 1 N 68 W SE 20  Latitude: 40.03293  Longitude: -105.0228
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ☐  Lithology logs: ☐  Cross-sections: ☐  Mine maps: ☐  Structure maps: ☐  Other: ☐
MSIC Report #:  W96b  County:  WELD  Date:  2008
Author:  Western Environment and Ecology, Inc.
Title:  Erie Estates Subdivision, Southeast 1/2 Section 20, Township 1 North, Range 68 West, Weld County, Colorado
Availability:  Colorado Geological Survey
Mine Name(s):  Columbine
Location:  1 N 68 W SE 20  Latitude:  40.03293  Longitude:  -105.0228
Publisher:  Western Environment and Ecology, Inc.
Contents:  Geophysical Logs:  ☑  Lithology logs:  ☐  Cross-sections:  ☐  Mine maps:  ☐
Structure maps:  ☐  Other:  ☐

MSIC Report #:  W97  County:  WELD  Date:  2009
Author:  Western Environment and Ecology, Inc.
Title:  Mine Subsidence Assessment, Lot 1, Block 2, Puritan Town Site, SW 1/4 of Section 34, Township 2 North, Range 68 West, Frederick, Colorado
Availability:  Colorado Geological Survey
Mine Name(s):  Puritan
Location:  2 N 68 W SW 34  Latitude:  40.12048  Longitude:  -104.9562
Publisher:  Western Environment and Ecology, Inc.
Contents:  Geophysical Logs:  ☐  Lithology logs:  ☐  Cross-sections:  ☐  Mine maps:  ☐
Structure maps:  ☐  Other:  ☐

MSIC Report #:  W98  County:  WELD  Date:  1978
Author:  David Shelton
Title:  Deformation of highway surface on I-25 near the Erie interchange in the vicinity of the Eagle mine
Availability:  Colorado Geological Survey
Mine Name(s):  Eagle
Location:  1 N 68 W NW 23  Latitude:  40.04  Longitude:  -104.98
Publisher:  Colorado Geological Survey
Contents:  Geophysical Logs:  ☐  Lithology logs:  ☐  Cross-sections:  ☐  Mine maps:  ☐
Structure maps:  ☐  Other:  ☐
MSIC Report #: W99        County: WELD        Date: 1996

Author: Dames & Moore
Title: Report on Subsidence Potential, Union Pacific Land - Resources Corporation Tracts Near Erie, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Northwestern, Imperial, Clayton, Eagle, Old Boulder Valley, Garfield No. 2, Lehigh, unknown
Location: 1N 68W 8   Latitude: 40.0656   Longitude: -105.0277
Publisher: Dames & Moore
Contents: Geophysical Logs:   Lithology logs: ✓   Cross-sections:   Mine maps: ✓   Structure maps:   Other:   

MSIC Report #: W100        County: WELD        Date: 2008

Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Assessment, Lots 3 and 4, Block 1, Fourth Filing, Glacier Business Park
Availability: Colorado Geological Survey
Mine Name(s): Puritan
Location: 1N 68W 3   Latitude: 40.0803   Longitude: -104.9894
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: ✓   Lithology logs:   Cross-sections:   Mine maps: ✓   Structure maps:   Other:   

MSIC Report #: W101        County: WELD        Date: 2009

Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Assessment 133.7 Acres in the SE 1/4 of Section 26, Township 2 North, Range 68 West, Frederick, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Baum, Boulder Valley No. 3
Location: 2N 68W 26   Latitude: 40.10595   Longitude: -104.9657
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs:   Lithology logs:   Cross-sections:   Mine maps:   Structure maps:   Other:   

103
MSIC Report #: W102 Countly: WELD Date: 1998
Author: Western Environment and Ecology, Inc.
Title: Mine Subsidence Investigation, Mini Storage Facility, Lots 1, 2 and 4, Tops Business Park, Frederick, Colorado
Availability: Colorado Geological Survey
Mine Name(s): Evans, Frederick
Location: 2 N 68 W SE 25 Latitude: 40.10589 Longitude: -104.9469
Publisher: Western Environment and Ecology, Inc.
Contents: Geophysical Logs: □ Lithology logs: □ Cross-sections: □ Mine maps: ☑ Structure maps: □ Other: □

MSIC Report #: MI1 County: Multiple Date: 1987
Author: Gordon M. Matheson
Title: Geologic and Mining Factors that Control Subsidence Above Abandoned Underground Coal Mines Along the Colorado Front Range
Availability: Colorado Geological Survey; Colorado School of Mines
Mine Name(s): Colorado Springs and Boulder/Weld coal fields
Location: Latitude: 40.10339 Longitude: -104.9356
Publisher: Arthur Lakes Library, Colorado School of Mines, Golden Colorado
Contents: Geophysical Logs: □ Lithology logs: □ Cross-sections: □ Mine maps: □ Structure maps: □ Other: □

MSIC Report #: MI2 County: Multiple Date: 1981
Author: Amuedo and Ivey
Title: Inactive Coal Mines of the Front Range Area: a Mine Inventory and an Evaluation of Hazards Arising from Past Mining
Availability: Colorado Geological Survey
Mine Name(s): All BO, WE, JR, EP, FR, HU, LN mines
Location: Latitude: 38.125 Longitude: -105.038
Publisher: Inactive Mine Reclamation Program, Department of Natural Resources, State of Colorado
Contents: Geophysical Logs: □ Lithology logs: □ Cross-sections: □ Mine maps: □ Structure maps: □ Other: □
## MSIC Reports by Mine

The MSIC “Report by Mine” listing is organized by County, Mine Name, and then by MSIC Report Number. The MSIC Reports document provides further details about each subsidence report. Some reports cover several mines, in which case a specific MSIC Report Number may be found in the “Report by Mine” listing under only the first listed mine and not under subsequent mine names. The digital PDF version of this report is searchable, and entering a mine’s name in a search query will find all occurrences of that mine name and associated MSIC Report Numbers.

<table>
<thead>
<tr>
<th>COUNTY</th>
<th>Mine Name</th>
<th>MSIC Report No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCHULETA</td>
<td>San Juan-Chama Diversion Project</td>
<td>AU1</td>
</tr>
<tr>
<td>BOULDER</td>
<td>Gorham</td>
<td>B89</td>
</tr>
<tr>
<td></td>
<td>Haywood (Irvington)</td>
<td>B45</td>
</tr>
<tr>
<td></td>
<td>Hecla No. 1, Hecla No. 2, Rex No. 1</td>
<td>B83</td>
</tr>
<tr>
<td></td>
<td>Hecla No. 1, Rex No. 1</td>
<td>B16</td>
</tr>
<tr>
<td></td>
<td>Hecla, Big Lake</td>
<td>B48</td>
</tr>
<tr>
<td></td>
<td>Hi-Way</td>
<td>B4, B58</td>
</tr>
<tr>
<td></td>
<td>Industrial, Monarch No. 2</td>
<td>B56</td>
</tr>
<tr>
<td></td>
<td>Leader</td>
<td>B25, B37, B61</td>
</tr>
<tr>
<td></td>
<td>Leader-Ajax</td>
<td>B15</td>
</tr>
<tr>
<td></td>
<td>Lewis No. 1, Lewis No. 2</td>
<td>B88</td>
</tr>
<tr>
<td></td>
<td>Lewis, Fox, Eagle</td>
<td>B35</td>
</tr>
<tr>
<td></td>
<td>Lister, Stewart, Garfield</td>
<td>B84</td>
</tr>
<tr>
<td></td>
<td>Longs Peak</td>
<td>B63, B70, B73, B78</td>
</tr>
<tr>
<td></td>
<td>Louisville</td>
<td>B64</td>
</tr>
<tr>
<td></td>
<td>Marshall</td>
<td>B87</td>
</tr>
<tr>
<td></td>
<td>Matchless</td>
<td>B29, B54, B66, B79</td>
</tr>
</tbody>
</table>
COUNTY

Mine Name
MSIC Report No.

BOULDER

Matchless (in vicinity)
  B52
Matchless, Eagle
  B5
Matchless, Fireside
  B26
  B41
  B55
  B60
Matchless-Sunland, Fireside
  B21
McGregor
  B85
Mitchell
  B53
Mitchell, Simpson
  B33
  B50
Monarch No. 2
  B1
  B39
Multiple mines
  B40
  B59
New Centennial, Electric, Big Lake, Hecla
  B23
Nonpareil, Regal
  B22
Northrup, Chase
  B71
Old Centennial
  B62
Paramount
  B69
Rex No. 1
  B18
Rex No. 2 (Hecla No. 2 previously)
  B49
Simpson
  B86
Simpson, Mitchell
  B20
  B42
  B44
  B46
Standard
  B76
Stewart, Lister, Garfield
  B81
  B82

BOULDER

Strathmore
  B32
  B51
  B57
  B68
Tynon
  B77
Vulcan
  B2
  B6
  B31
  B72
  B75
Vulcan, New Centennial
  B13
Vulcan?
  B90

BOULDER/WELD

All BO, WE mines
  BW3
  BW4
  BW5
Boulder Valley No. 3, Eagle, Imperial, Lincoln, Sterling, Washington
  BW2
Leyden, Lewis No. 2, Rex No. 2, Hi-Way
  BW1

BROOMFIELD

Washington
  BR1

DOLORES

Atlantic Cable, Van Winkel, George Hicks
  D1

EL PASO

Alex Patterson
  E10
Busy Bee, Corley, Patterson
  E9
Busy Bee, Tudor, Curtis
  E40
City No. 2, City No. 4, Rapson, Gray Air
  E30b
City No. 3, City No. 2, and Rapson
  E30a
Corley No. 3
  E13
Corley, Busy Bee, Patterson
  E7
## COUNTY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>MSIC Report No.</th>
</tr>
</thead>
</table>

### EL PASO

| Cottonwood, Pitching Vein, Neer, New Cottonwood, Last Chance, unknown 1-3 | E41a, i         |
| Cottonwood, Pitching Vein, Neer, New Cottonwood, Last Chance, unknown 1-4 | E41             |
| Curtis, City Coal Mine No. 1, Williams, Williamsville, New Altitude and Danville | E18             |
| Danville, Climax II, William Suille, Curtis                              | E33             |
| Keystone                                                                 | E39             |
| Klondike                                                                 | E38             |
| Multiple mines                                                           | E1, E17, E19    |
| Patterson                                                                | E25, E28        |
| Pikeview                                                                  | E2b, E3, E4, E5, E8, E14, E15, E16, E20, E21, E22, E26, E27, E29, E31, E32a, E32b, E34, E37, E37b |
| Pikeview, Carlton                                                        | E2a             |
| Rapson                                                                   | E11, E12        |
| Rapson, New Keystone                                                    | E42             |

### EL PASO

| Rockrimmon, Cragmor-Country Club, Palmer Park, Rustic Hills             | E36             |

### FREMONT

| Canon City                                                              | F1              |

### GARFIELD

| IHI                                                                      | G1              |

### HUERFANO

| Multiple mines                                                          | H3              |
| Walsen, Robinson                                                        | H1, H2          |

### JEFFERSON

| All Jefferson County mines                                            | J1, J14         |
| Clay mines                                                              | J17, J17a, J17b, J17c, J17d, J20, J22, J27, J28, J36 |
| Economy (Unity)                                                        | J5, J6, J8, J17, J17a, J17b, J17c, J17d, J20, J22, J27, J28, J36 |
| Economy (Unity), Littleton (Christenson)                               | J7, J16, J30    |
| Economy (Unity), Littleton (Christenson), Virginia                     | J11             |
| Leyden                                                                  | J19, J37, J38   |
COUNTY
Mine Name
MSIC Report No.

JEFFERSON

Littleton (Christenson)
- J10
- J10a
- J10b
- J10c
- J10d
- J10e
- J10f
- J10g
- J15
- J24
- J39

Multiple mines
- J29

New (Little) White Ash
- J26

New Loveland
- J23

New Star, New Castle, Old Star
- J34

Old Loveland, New Loveland, New White Ash, New Mine
- J9

Pittsburg Coal Mine; Parfet Clay Mine
- J25

Virginia
- J1
- J2
- J3
- J4
- J12
- J13
- J40

LAS ANIMAS

Eagle, Wilton, Eli Jeffries, Bloom, Hines
- LN1

Multiple

All BO, WE, JR, EP, FR, HU, LN mines
- MI2

Colorado Springs and Boulder/Weld coal fields
- MI1

PITKIN

P1

ROUJT

Ben Male, Big Mack, Blue Spruce, Edna, Frank's, Hayden Nos. 1 - 4, Keystone, Moffat Nos. 1 - 3, Oak Hills No. 1 and 2, Pinnacle No. 4, Pinnacle, Postal, Yampa Valley No. 1-3 & 6, Arrowhead, Electric No. 1-3
- R2

ROUJT

McGregor
- R1

WELD

Baseline
- W18

Baseline or Monroe
- W69

Baseline, Columbine
- W19

Baum
- W20
- W25
- W31
- W51
- W91
- W95

Baum, Boulder Valley No. 3
- W101

Baum, Firestone, Evans, Grant, Sterling, Warwick
- W2

Baum, Sterling
- W42
- W55

Boulder Valley No. 1 (Andrew), Columbine
- W1

Boulder Valley No. 3
- W21
- W24
- W52
- W63
- W67
- W68
- W72
- W76
- W80

Boulder Valley, North-Western, Garfield, Mitchell, Lehigh, unknown
- W14

Clayton
- W32

Columbine
- W96a
- W96b

Eagle
- W5
- W23
- W46
- W79
- W98
COUNTY
Mine Name
MSIC Report No.

WELD

Emerson, Russell
  W22
Evans
  W44
  W94
Evans, Frederick
  W102
Firestone
  W75
Frederick
  W12
  W16
  W77
  W84
  W87
Garfield
  W70
  W92
Garfield No. 1
  W90
Garfield No. 2
  W93
Garfield, Lehigh
  W53
Garfield, Mitchell
  W78
Gradon
  W4
Grant
  W11
  W13
  W15
Lehigh
  W88
Lehigh, Garfield
  W33
Lloyd, Mitchell
  W73
McKissick, Grant
  W50
Mitchell
  W17
  W61
  W89
Mitchell, Garfield, Lloyd
  W82
  W86

WELD

Morrison
  W7
  W30
  W58
Morrison, Clayton
  W48
Northwestern, Imperial, Clayton, Eagle, Old Boulder Valley, Garfield No. 2, Lehigh, unknown
  W99
Puritan
  W3
  W10
  W27
  W49
  W57
  W71
  W97
  W100
Puritan, Shamrock
  W34
  W83
Russell
  W37
  W38
Russell, Emerson
  W54
Shamrock
  W36
Shamrock, Eureka
  W26
  W35
  W65
Shamrock, Puritan
  W66
  W85
Sterling
  W6
  W8
  W28
  W39
  W40
  W41
  W43
  W74
Sterling, Baum
  W45
Sterling, Lincoln
  W29
COUNTY
Mine Name
MSIC Report No.

WELD
Warwick
W47
W59
Washington
W60


Part III: Sources of Information
US Geological Survey Central Region Library
Denver Federal Center
Building 20 Room C-2002
(303) 236-1000
http://library.usgs.gov/denlib.html
  Air Photos & Photographs
  Publications and Maps

Boulder County Land Use Department
2045 13th Street
Boulder, CO 80302
(303) 441-3930
www.bouldercounty.org/lu/
  Consultant Reports and Investigations
  Maps and Overlays

El Paso County Development Services
2880 International Circle
Colorado Springs, CO 80910
http://adm.elpasoco.com/development_services/
  Consultant Reports and Investigations
  Maps and Overlays

Jefferson County Planning and Zoning Department
100 Jefferson County Parkway, Suite 3550
Golden, CO 80419
(303) 271-8700
www.co.jefferson.co.us/planning
  Consultant Reports and Investigations
  Maps and Overlays

City of Colorado Springs Community Development
30 S. Nevada Ave
Colorado Springs, CO 80903
(719) 385-6905
www.springsgov.com
  Consultant Reports and Investigations
  Maps and Overlays

Town of Dacono Building and Planning Department
512 Cherry Street
Dacono, CO 80514
(303) 833-2317
www.ci.dacono.co.us
Town of Erie Community Development
645 Holbrook Street
Erie, CO  80516
(303) 926-2770
www.erieco.gov
Consultant Reports and Investigations

Town of Frederick Planning Department
401 Locust Street
Frederick, CO  80530
(720) 382-5500
www.frederickco.gov
Consultant Reports and Investigations

Town of Lafayette Community Development
1290 S. Public Road
Lafayette, CO  80026
(303) 665-5588 x 3329
www.cityoflafayette.com
Consultant Reports and Investigations

Town of Louisville Planning and Zoning Department
749 Main Street
Louisville, CO  80027
(303) 666-6565
www.louisvilleco.gov
Consultant Reports and Investigations

Town of Superior Planning Department
124 E. Coal Creek Drive
Superior, CO  80027
(303) 499-3675
www.townofsuperior.com
Figures
Figure 1: Areas known to be undermined by historic coal mines (brown areas) in Colorado. Coal fields are in gray.
Figure 2: Approximate locations of selected mine subsidence investigation reports in Boulder and Broomfield Counties. Numbers correlate with the MSIC Report Number shown in Part I of this bibliography. Brown areas are known to be undermined by historic coal mines.
Figure 3: Approximate locations of selected mine subsidence investigation reports in El Paso County. Numbers correlate with the MSIC Report Number shown in Part I of this bibliography. Brown areas are known to be undermined by historic coal mines.
Figure 4: Approximate locations of mine subsidence investigation reports in Fremont County. Numbers correlate with the MSIC Report Number shown in Part I of this bibliography. Brown areas are known to be undermined by historic coal mines.
Figure 5: Approximate locations of selected mine subsidence investigation reports in Huerfano and Las Animas Counties. Numbers correlate with the MSIC Report Number shown in Part I of this bibliography.
Figure 6: Approximate locations of selected mine subsidence investigation reports in Jefferson County. Numbers correlate with the MSIC Report Number shown in Part I of this bibliography. Brown areas are known to be undermined by historic coal mines.
Figure 7: Approximate locations of selected mine subsidence investigation reports in Weld County. Numbers correlate with the MSIC Report Number shown in Part I of this bibliography. Brown areas are known to be undermined by historic coal mines.