

# CONSOLIDATION COAL COMPANY

## EMERY MINE

### PERMIT ACT/015/015

### ANNUAL REPORT FOR 2006

Classification:

- Confidential
- Shelf
- Expandable

Refer to Record No 0060 Date 3-29-07  
In CI 015/0015, 2007, Incoming  
For additional information

To enter text, click in the box and type your response. If a box already contains an entry select the entry and type the replacement. You can use the **tab** key to move from one field to the next. To select a check box, click in the box or type an x.

## GENERAL INFORMATION

Permitte Name	Consolidation Coal Company
Mine Name	Emery Mine
Operator Name (If other than permittee)	
Permit Expiration Date	January 7, 2011
Permit Number	015/015
Authorized Representative Title	Timothy D. Kirschbaum, Environmental Engineer
Phone Number	618-625-6847
Fax Number	618-625-6844
E-mail Address	timkirschbaum@consolenergy.com
Mailing Address	P.O. Box 566, Sesser, IL 62884
Designated Representative	
Resident Agent	CT Corporation Systems
Resident Agent Mailing Address	50 W. Broadway, 8 <sup>th</sup> Floor, Salt Lake City, UT 84101-2006
Number of Binders Submitted	2

## IDENTIFICATION OF OTHER PERMITS

Identify other permits that are required in conjunction with mining and reclamation activities.

Permit Type	ID Number	Description	Expiration Date
MSHA Mine ID(s)	42-0079	Emery Mine	N/A
MSHA Impoundment(s)			
NPDES/UPDES Permit(s)	UT0022616	Minor Industrial	11/30/2011
PSD Permit(s) (Air)	DAQE-AN00229004-04	Approval Order – Issued 7/30/2004	N/A

### Other


**CERTIFIED REPORTS**

List the certified inspection reports as required by the rules and under the approved plan that must be periodically submitted to the Division. Specify whether the information is included as Appendix A to this report or currently on file with the Division.

Certified Reports:	Required		Included or on file with DOGM		Comments
	Yes	No	Included	On File	
Excess Spoil Piles	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Refuse Piles	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Refuse Pile 1 – Filed Quarterly
Impoundments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Annual Inspections – see Appendix A-1
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**REPORTING OF OTHER TECHNICAL DATA**

List other technical data and information as required under the approved plan, which must be periodically submitted to the Division. Specify whether the information is included as Appendix B to this report or currently on file with the Division.

Technical Data:	Required		Included or on file with DOGM		Comments
	Yes	No	Included	On file	
Climatological	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Subsidence Monitoring	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Appendix B-1
Vegetation Monitoring	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Raptor Survey	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Appendix B-2
Soils Monitoring	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Water Monitoring	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
First quarter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Second quarter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Third quarter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Fourth quarter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Geological / Geophysical	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Engineering	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Non Coal Waste / Abandoned Underground Equipment*	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Other Data</b>					
Macroinvertebrate	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Required for 2006, See Appendix B-3
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Reminder: If equipment has been abandoned during 2006, an amendment must be submitted that includes a map showing its location, a description of what was abandoned, whether there were any hazardous or toxic materials and any revision to the PHC as necessary.



**OTHER INFORMATION**

*Please provide any comments of further information to be included as part of the Annual Report. Any other attachments are to be provided as Appendix E to this report. If information is submitted as a group rather than by individual mine, please identify each of the mine's data in the list below.*

**Additional attachment to this report?**                      Yes                       No

Coal production continued throughout 2006. Mine Production in 2006 was approximately 1,054,000 tons.

JBR conducted MacroInvertebrate Study in September of 2006. Report included part of this annual report.

Permit 015/015 Renewal was approved on January 6, 2006 for a 5-year term till January 7, 2011

UPDES renewal was approved December 1, 2006 for a 5 year term till November 30, 2011

Application of an Incidental Boundary Change filed during 2006 for 160 acres of Federal Lease 50044 is pending Division approval.

**APPENDIX A**

**Certified Reports**

Excess Spoil Piles  
Refuse Piles  
Impoundments

As required under R645-301-514

**CONTENTS**

ANNUAL IMPOUNDMENT CERTIFICATIONS

**APPENDIX B**

**Reporting of Technical Data**

Including monitoring data, reports, maps, and other information  
As required under the approved plan or as required by the Division

In accordance with the requirement of R645-310-130 and R645-301-140

**CONTENTS**

SUBSIDENCE MONITORING

RAPTOR SURVEY

MACROINVERTEBRATE SAMPLING RESULTS

**APPENDIX C**

**Legal Financial, Compliance and Related Information**

Annual Report of Officers  
As submitted to the Utah Department of Commerce

Other change in ownership and control information  
As required under R645-301-110

**CONTENTS**

DEPARTMENT OF COMMERCE ANNUAL REPORT

CURRENT LISTING OF OFFICERS & DIRECTORS

**CONSOLIDATION COAL COMPANY**  
**EMERY MINE**  
**EMERY, UTAH**  
**ANNUAL IMPOUNDMENT CERTIFICATION**

POND #1 PERMIT NO. ACT/015/015  
 INSPECTED BY M. Cody Ware DATE 18-Dec-05

**I. PHYSICAL INSPECTION (Stability & Structural Condition)**

	<u>YES</u>	<u>NO</u>
A. Upstream Cracking or Movement		X
B. Downstream Cracking or Movement		X
C. Erosion		X
D. Proper Operation of Discharge System	X	
E. Significant Seepage or Piping		X
F. Existing and Required Monitoring	X	

**II. FIELD DATA**

A. Pond Volume\* 13.53 Ac-Ft  
 (Measured from 1ft above open channel spillway (invert))  
 B. Pool Elevation 5938.5 Ft  
 C. Top of Dam Elevation 5942 Ft  
 Dewatering Pipe Invert Elevation 5938 Ft

\*Minimum volumes required:

Treatment	<u>3.20</u>	Ac-Ft
40% sed. Vol	<u>4.10</u>	Ac-Ft
TOTAL	<u>7.30</u>	Ac-Ft

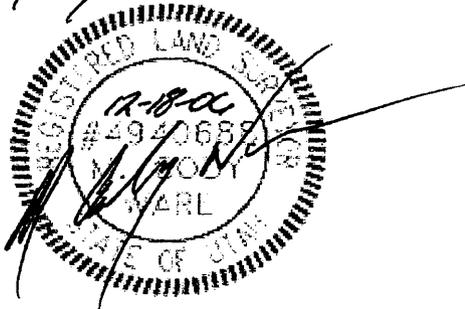
This is an annual report for (year) 2006

Name M. Cody Ware Utah Registration No. (Seal) 4940688

Firm Ware Surveying Phone Number 435-613-1266

Address 1344 North 1000 West - Price, UT 84501

Signature *M. Cody Ware* Date 18, Dec. 2006







**CONSOLIDATION COAL COMPANY**  
**EMERY MINE**  
**EMERY, UTAH**  
**ANNUAL IMPOUNDMENT CERTIFICATION**

POND #5 PERMIT NO. ACT/015/015  
 INSPECTED BY M. Cody Ware DATE 18-Dec-06

**I. PHYSICAL INSPECTION (Stability & Structural Condition)**

	<u>YES</u>	<u>NO</u>
A. Upstream Cracking or Movement		X
B. Downstream Cracking or Movement		X
C. Erosion		X
D. Proper Operation of Discharge System	X	
E. Significant Seepage or Piping		X
F. Existing and Required Monitoring	X	

**II. FIELD DATA**

A. Pond Volume*	<u>0.72</u>	Ac-Ft
(Measured from primary outlet)		
B. Pool Elevation	<u>Dry</u>	Ft
C. Top of Dam Elevation	<u>5948</u>	Ft
Dewatering Pipe Invert Elevation	<u>5945</u>	Ft

*Minimum volumes required:	<u>Treatment</u>	<u>3.70</u>	Ac-Ft
	<u>40% sed. Vol</u>	<u>0.45</u>	Ac-Ft
	<u>TOTAL</u>	<u>4.15</u>	Ac-Ft

This is an annual report for (year) 2006

Name M. Cody Ware Utah Registration No. (Seal) 4940688

Firm Ware Surveying Phone Number 435-613-1266

Address 1344 North 1000 West - Price, UT 84501

Signature *M. Cody Ware* Date *18 Dec 2006*



**CONSOLIDATION COAL COMPANY**  
**EMERY MINE**  
**EMERY, UTAH**  
**ANNUAL IMPOUNDMENT CERTIFICATION**

POND #6 PERMIT NO. ACT/015/015  
 INSPECTED BY M. Cody Ware DATE 18-Dec-06

**I. PHYSICAL INSPECTION (Stability & Structural Condition)**

	<u>YES</u>	<u>NO</u>
A. Upstream Cracking or Movement		X
B. Downstream Cracking or Movement		X
C. Erosion		X
D. Proper Operation of Discharge System	X	
E. Significant Seepage or Piping		X
F. Existing and Required Monitoring	X	

**II. FIELD DATA**

A. Pond Volume*	<u>6.39</u>	Ac-Ft
(Measured from open channel spillway (invert))		
B. Pool Elevation	<u>6015.3</u>	Ft
C. Top of Dam Elevation	<u>6020</u>	Ft
Dewatering Pipe Invert Elevation	<u>6015.1</u>	Ft

*Minimum volumes required:	Treatment	<u>1.70</u>	Ac-Ft
	40% sed. Vol	<u>3.00</u>	Ac-Ft
	TOTAL	<u>4.70</u>	Ac-Ft

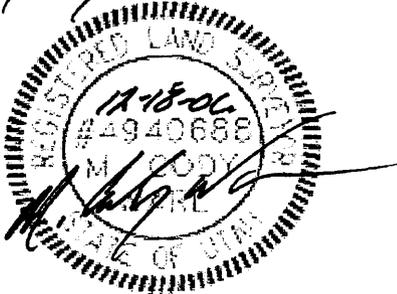
This is an annual report for (year) 2006

Name M. Cody Ware Utah Registration No. (Seal) 4940688

Firm Ware Surveying Phone Number 435-613-1266

Address 1344 North 1000 West - Price, UT 84501

Signature *M. Cody Ware* Date 18, Dec. 2006



**CONSOLIDATION COAL COMPANY**  
**EMERY MINE**  
**EMERY, UTAH**  
**ANNUAL IMPOUNDMENT CERTIFICATION**

POND #8 PERMIT NO. ACT/015/015  
 INSPECTED BY M. Cody Ware DATE 18-Dec-06

**I. PHYSICAL INSPECTION (Stability & Structural Condition)**

	<u>YES</u>	<u>NO</u>
A. Upstream Cracking or Movement		X
B. Downstream Cracking or Movement		X
C. Erosion		X
D. Proper Operation of Discharge System	X	
E. Significant Seepage or Piping		X
F. Existing and Required Monitoring	X	

**II. FIELD DATA**

A. Pond Volume\* 4.12 Ac-Ft  
 (Measured from 1.6 ft above dewatering pipe (invert))  
 B. Pool Elevation Dry Ft  
 C. Top of Dam Elevation 5915 Ft  
 Dewatering Pipe Invert Elevation 5911 Ft

\*Minimum volumes required:

Treatment	<u>1.18</u>	Ac-Ft
40% sed. Vol	<u>0.80</u>	Ac-Ft
<b>TOTAL</b>	<u>1.98</u>	<b>Ac-Ft</b>

This is an annual report for (year) 2006

Name M. Cody Ware Utah Registration No. (Seal) 4940688

Firm Ware Surveying Phone Number 435-613-1266

Address 1344 North 1000 West - Price, UT 84501

Signature *M. Cody Ware* Date 18, DEC. 2006





**APPENDIX D**

**Mine Maps**

As required under R645-302-525-270

**CONTENTS**

MINE MAP

**APPENDIX E**

**Other Information**

In accordance with the requirements of R645-301 and R645-302

**CONTENTS**

**Consolidation Coal Company**  
**Emery Mine**  
P.O. Box 527  
Emery Ut.84522

**5 Year Subsidence Monitoring (2001-2006)**

Description	Original Elev.	Elev. Yr. 2001	Elev. Yr. 2002	Yearly Subsidence	Elev. Yr. 2003	Yearly Subsidence	Elev. Yr. 2004	Yearly Subsidence	Elev. Yr. 2005	Yearly Subsidence	Elev. Yr. 2006	Yearly Subsidence	Total 5 Yr. Subsidence
90-1									6033.57		6033.57	0.00	0.00
90-2									6049.48		6049.49	0.01	0.01
90-03	6032.59								6032.84		6032.83	-0.01	-0.01
90-04	6027.23								6026.80		6026.68	-0.12	-0.12
90-05	6047.13								6043.83		6043.66	-0.17	-0.17
90-4	6039.03								6039.00		6038.95	-0.05	-0.05
90-5	6032.59								6032.49		6032.32	-0.17	-0.17
90-6									6046.47		6046.38	-0.09	-0.09
91-01	6048.11								6047.95		6047.89	-0.06	-0.06
91-02	6051.73								6051.74		6047.12	-4.62	-4.62
91-03	6057.23								6057.26		6051.29	-5.97	-5.97
91-04	6049.86								6049.94		6047.47	-2.47	-2.47
88-1	5999.53	5999.43	5999.45	0.02	5999.50	0.05	5999.09	-0.41	5999.06	-0.03	5999.06	0.00	-0.37
86-2	6036.66	6036.48	6036.51	0.03	6036.49	-0.02	6036.09	-0.40	6036.04	-0.05	6036.14	0.10	-0.34
86-5	6159.24	6160.12	6160.22	0.10	6160.17	-0.05	6159.08	-1.09	6159.05	-0.03	6159.11	0.06	-1.01
86-4	6074.13	6074.80	6074.80	0.00	6074.82	0.02	6074.12	-0.70	6074.08	-0.04	6074.10	0.02	-0.70
86-6	6075.64	6074.69	6074.75	0.06	6074.76	0.01	6074.84	0.08	6074.82	-0.02	see notes		0.13
86-9	6069.17	6068.52	6068.52	0.00	6068.43	-0.09	6068.58	0.15	6068.68	0.10	6068.63	-0.05	0.11
86-13	6032.25	6032.13	6032.10	-0.03	6032.12	0.02	6031.36	-0.76	6031.65	0.29	6031.72	0.07	-0.41
88-1	6039.82	6039.87	6039.77	-0.10	6039.82	0.05	6039.15	-0.67	see notes				-0.72
88-2	6012.88	6012.77	6012.70	-0.07	6012.73	0.03	6012.18	-0.55	6012.21	0.03	6012.23	0.02	-0.54
88-3	6010.55	6010.43	6010.34	-0.09	6010.39	0.05	6009.96	-0.43	6010.01	0.05	6010.00	-0.01	-0.43
88-4	5985.47	5984.28	5984.31	0.03	5984.29	-0.02	5983.89	-0.40	5983.91	0.02	5983.92	0.01	-0.36
88-5	5992.04	5990.63	5990.70	0.07	5990.66	-0.04	5990.26	-0.40	5990.30	0.04	5990.27	-0.03	-0.36
88-6	5970.89	5970.98	5971.14	0.16	5971.01	-0.13	5970.75	-0.26	5970.72	-0.03	5970.71	-0.01	-0.27
88-7	6053.99	6053.29	6053.32	0.03								0.00	0.03
83-1	6062.29	6061.07	6061.12	0.05	6061.04	-0.08	6061.20	0.16	6061.21	0.01	6061.17	-0.04	0.10
E	6079.67	6078.02	6079.45	1.43	6078.25	-1.20	6078.26	0.01	6078.19	-0.07	6078.30	0.11	0.28
87-1	5995.61	5986.51	5986.59	0.08	5986.54	-0.05	5986.14	-0.40	5986.17	0.03	5986.17	0.00	-0.34
N	5948.67	5945.97	5946.07	0.10	5946.00	-0.07	5945.84	-0.16	5945.91	0.07	5945.89	-0.02	-0.08
L	5946.18	5945.72	5945.76	0.04	5945.83	0.07	5945.79	-0.04	5945.84	0.05	5945.85	0.01	0.13
W	5957.05	5954.61	5954.69	0.08	5954.60	-0.09	5954.42	-0.18	5954.48	0.06	5954.47	-0.01	-0.14
SMK-2	6099.91	6098.22	6098.32	0.10	6098.41	0.09	6098.52	0.11	6098.53	0.01	6098.58	0.05	0.36
H-6	6092.21	6091.33	6091.27	-0.06	6091.27	0.00	6091.47	0.20	6091.47	0.00	6091.57	0.10	0.24
SMK-3	6083.56	6077.57	6077.63	0.06	6077.56	-0.07	6077.73	0.17	6077.69	-0.04	6077.81	0.12	0.24
H-1	6078.84	6078.32	6078.33	0.01	6078.31	-0.02	6078.51	0.20	6078.50	-0.01	6078.47	-0.03	0.15
E1/4 28 BC							6054.90		6054.97	0.07	6050.19	-4.78	-4.71
97-1	6113.25						6113.25		6113.20	-0.05	6113.23	0.03	-0.02
97-2	6112.17						6112.17		6112.14	-0.03	6112.19	0.05	0.02
89-1	6197.18	6197.14	6197.18	0.04	6197.13	-0.05	6195.74	-1.39	6195.88	0.14	6195.93	0.05	-1.21
89-2	6196.83	6196.86	6196.93	0.07	6196.96	0.03	6195.63	-1.33	6195.69	0.06	6195.74	0.05	-1.12
89-3	6166.98	6167.10	6167.14	0.04	6167.10	-0.04	6165.93	-1.17	6165.96	0.03	6165.97	0.01	-1.13
89-4	6181.46	6181.67	6181.66	-0.01	6181.65	-0.01	6180.45	-1.20	6180.47	0.02	6180.52	0.05	-1.15
35	6102.06				6102.06		6102.03	-0.03	6102.04	0.01	6102.02	-0.02	-0.04
36	6036.68				6036.68		6036.75	0.07	6036.72	-0.03	6036.71	-0.01	0.03
BM 2ND S									6040.41		6040.41	0.00	0.00
SMH									6053.36		6053.33	-0.03	-0.03

Not Monitored

Notes 88-1 Was Destroyed  
86-6 Was Destroyed

# Consolidation Coal Company

## Emery Mine

P.O. Box 527  
Emery Ut.84522

### 5 Year Subsidence Monitoring (2001-2006)

Description	Original Elev.	Elev. Yr. 2001	Elev. Yr. 2002	Yearly Subsidence	Elev. Yr. 2003	Yearly Subsidence	Elev. Yr. 2004	Yearly Subsidence	Elev. Yr. 2005	Yearly Subsidence	Elev. Yr. 2006	Yearly Subsidence	Total 5 Yr. Subsidence
6-01	6110.04										6110.04		0.00
6-02	6116.61										6116.61		0.00
6-03	6117.32										6117.32		0.00
6-04	6023.68										6023.68		0.00
6-05	6030.59										6030.59		0.00
6-06	6143.18										6143.18		0.00
6-07	6170.20										6170.20		0.00
6-08	6065.73										6065.73		0.00
6-09	6141.75										6141.75		0.00
6-10	6150.80										6150.80		0.00
6-11	6056.86										6056.86		0.00
6-12	6076.19										6076.19		0.00
6-13	6090.16										6090.16		0.00
6-14	6097.29										6097.29		0.00
6-15	6107.03										6107.03		0.00
6-16	6059.39										6059.39		0.00
6-17	6071.56										6071.56		0.00
6-18	6081.27										6081.27		0.00
6-19	6085.90										6085.90		0.00
6-20	6090.48										6090.48		0.00
6-21	6070.28										6070.28		0.00
6-22	6090.69										6090.69		0.00
6-23	6111.33										6111.33		0.00
6-24	6080.76										6080.76		0.00
6-25	6106.02										6106.02		0.00
6-26	6124.49										6124.49		0.00
6-27	6114.65										6114.65		0.00
6-29	6141.81										6141.81		0.00
6-30	6131.17										6131.17		0.00
6-34	6148.20										6148.20		0.00
86-11	6153.72										6153.72		0.00
86-8	6125.27										6125.27		0.00
R BOLT	6151.78										6151.78		0.00

Not Monitored

APPENDIX B-2  
RAPTOR SURVEY

Removed as Confidential Information,  
Please refer to confidential folder "2006 Raptor Survey"

**CONSOL ENERGY - 4<sup>th</sup> EAST PORTAL  
MACROINVERTEBRATE  
SAMPLING RESULTS  
FALL, 2006**

Submitted to:

CONSOL ENERGY  
John Gefferth, Environmental Engineer  
Consolidation Coal Company  
P.O. Box 566  
Sesser, IL 62884

Submitted by:

JBR Environmental Consultants, Inc.  
8160 South Highland Drive  
Sandy, UT 84093

January 2007

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## LIST OF APPENDICES

Appendix A -- Data Tables from Dr. Baumann's Report

# 4<sup>th</sup> EAST PORTAL MACROINVERTEBRATE SAMPLING RESULTS FROM SEPTEMBER, 2006

## 1.0 Introduction

Consolidation Coal Company (Consol) operates an underground coal mine known as the Emery Deep Mine southeast of Emery Town in Emery County, Utah (Figure 1) under Utah Division of Oil, Gas and Mining (UDOGM) Permit No. C/015/0015. Located near the workings of the historic Browning Mine, the Emery Deep Mine discharges intercepted groundwater into Quitchupah Creek as allowed under a Utah Division of Water Quality (UDWQ) Utah Pollutant Discharge Elimination System (UPDES) permit (Permit No. UT0022616).

In the Fall of 2002, as part of permitting efforts for a mine expansion known as the 4<sup>th</sup> East Portal, UDOGM requested that Consol initiate an aquatic macroinvertebrate data collection program that could be used to track temporal and spatial differences in habitat quality in Quitchupah Creek and its tributary, Christiansen Wash. Aquatic macroinvertebrates help maintain the health of the water ecosystem by consuming bacteria and dead, decaying plants and animals. Overall water quality affects which types of macroinvertebrates are present in a given body of water. Surface facilities associated with the 4<sup>th</sup> East Portal are located in the lower Christiansen Wash watershed, mine discharge enters Quitchupah Creek upstream of its confluence with Christiansen Wash, and the main Emery Deep surface facilities are located near the confluence of these two streams.

CONSOL contracted with JBR Environmental Consultants, Inc. (JBR) to collect aquatic macroinvertebrate data from Quitchupah Creek and Christiansen Wash, beginning in September 2002. UDOGM and the Utah Division of Wildlife Resources (UDWR) were initially consulted regarding sampling locations and study design. Three sampling stations were established, as suggested by UDWR. Station CW-1 is located on Christiansen Wash approximately 0.30 miles upstream from the confluence with Quitchupah Creek. Station QC-2 is located on Quitchupah Creek approximately 0.30 miles upstream from the confluence Christiansen Wash (Figure 2). Lastly, Station QC-1 is located 0.15 miles downstream of the confluence of the two drainages. Brief site descriptions are given below.

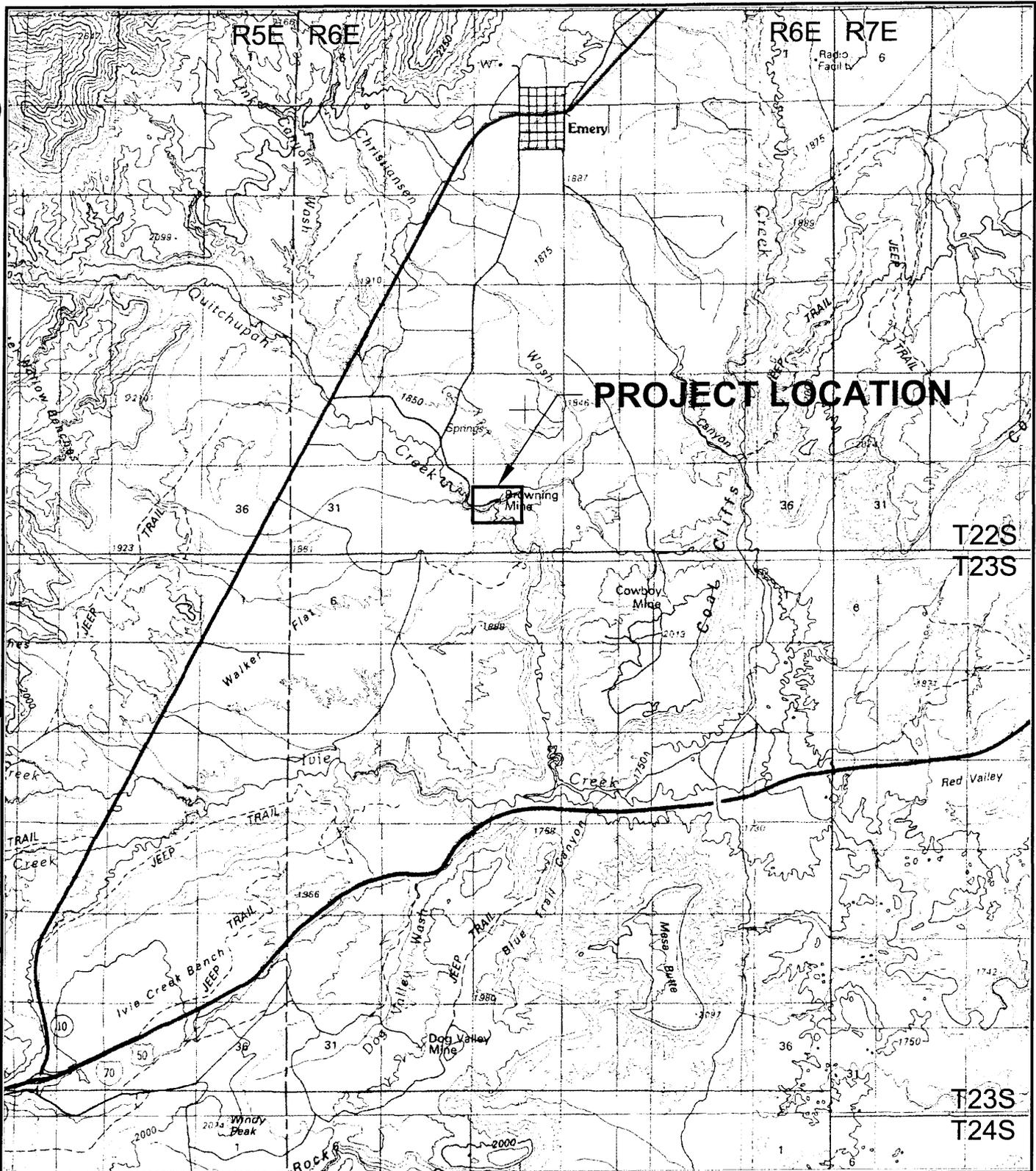
QC-1 Lower Quitchupah Creek. This station is located on Quitchupah Creek downstream of the confluence with Christiansen Wash and downstream of mine surface facilities. In some seasons of some years, the flow at this site is dominated by groundwater that is pumped out of the mine. At other times, irrigation return flows and spring discharges from Christiansen Wash contribute a higher percentage of the streamflow. There are no defined riffle areas within the reach, thus macroinvertebrate sampling conditions are less than ideal. The stream in this section consists of shallow

drops and pools within a long run. The substrate is comprised of cobble-sized particles surrounded by -- and cemented with -- clay particles. There are very few gravel- or sand-sized particles. The vegetation in the area is primarily shrubby riparian species with tamarisk, willow, and rabbitbrush dominant. Some grasses, rushes, greasewood, and russian olive are present.

QC-2 Upper Quitchupah Creek. This station is located on Quitchupah Creek upstream of its confluence with Christiansen Wash, upstream of QC-1, and downstream of the UPDES groundwater discharge from the mine. In some seasons of some years, the flow at this station is almost entirely due to the mine discharge. At other times, irrigation return flow and storm water runoff contribute additional flow. This reach is characterized by long, relatively shallow pools, with infrequent drops; as with QC-1, macroinvertebrate sampling conditions are less than ideal. The substrate is noncohesive, and includes very fine particles of sand and coarse sands mixed with clay. Minimal cobbles and woody debris are present, associated with the few drops. The riparian vegetation includes tall grasses, tamarisk, and abundant willow; the streamside area grades into a terrace of greasewood, rabbitbrush, and clematis.

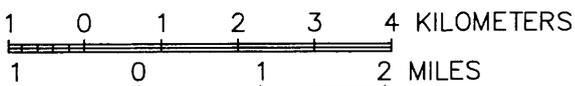
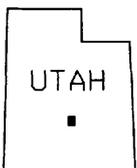
CW-1 Christiansen Wash. This station is located on Christiansen Wash above the confluence with Quitchupah Creek. Christiansen Wash usually maintains perennial flow due to springs, and seasonally includes irrigation return flows; it is not influenced by UPDES mine water discharges. The channel is narrow and rocky in this area, flowing through exposed bedrock with little alluvial material present. The substrate is similar to QC-1, cemented with larger rock. The riparian area is similar to QC-1 with larger banks of rush and grasses. The terrace habitat is narrower; few large trees are present.

JBR collected macroinvertebrate samples from the three selected study sites in September 2002 (JBR 2002) and September 2003 (JBR 2003). Subsequent to the latter sampling event, UDOGM reduced sampling requirements to once every three years. Thus, the most recent sampling event was conducted in September 2006. Sampling methodology, results from the recent sampling, and comparisons with previous sample results are discussed in the following sections of this report.



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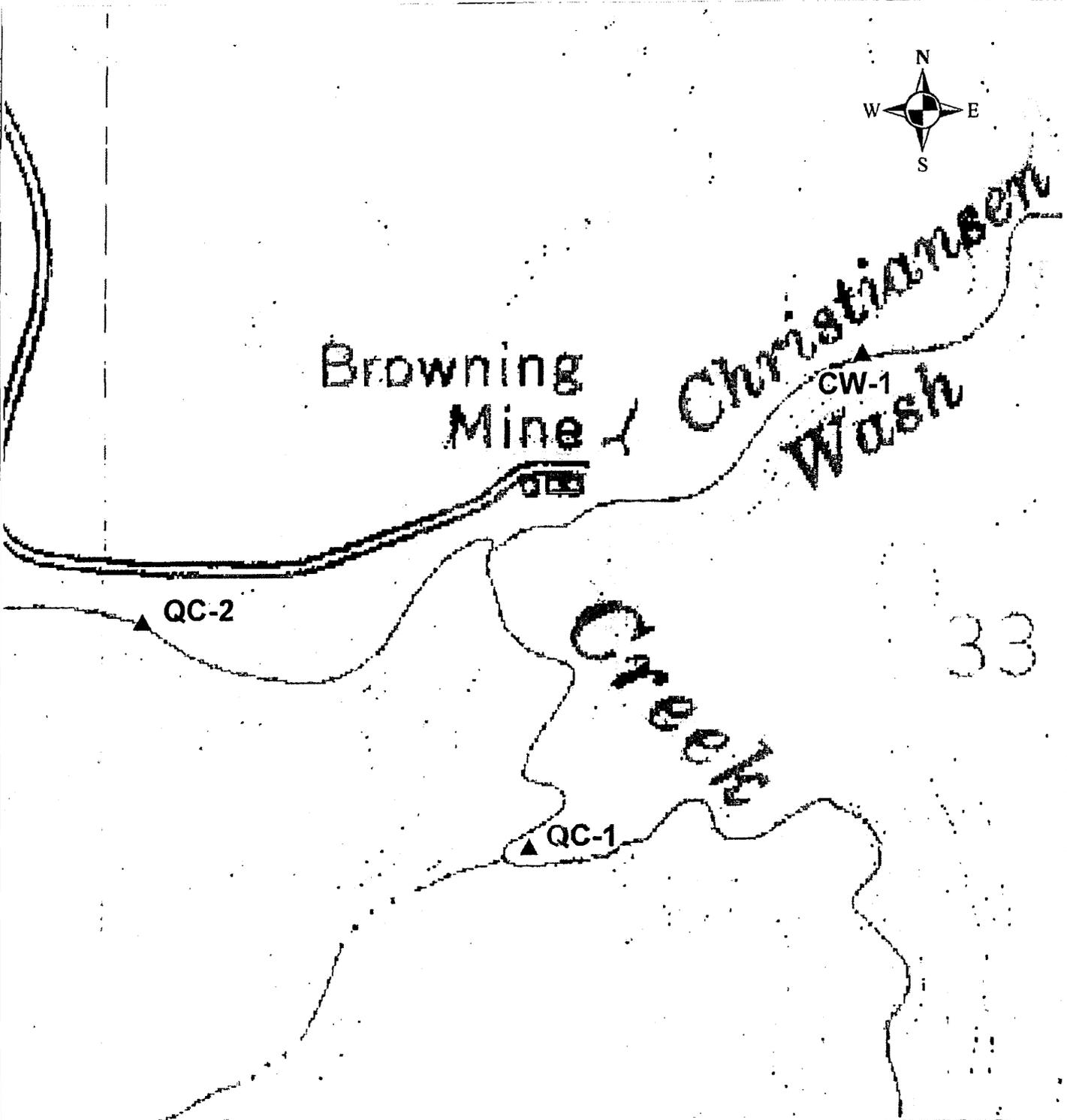
BASE: SALINA UT (1980) - 1:100,000 USGS



## CONSOL ENERGY 4th East Portal

FIGURE 1  
PROJECT LOCATION MAP

<b>jbr</b> environmental consultants, inc.				DATE DRAWN 11/26/02
Salt Lake City, Utah Cedar City, Utah Reno, Nevada Elko, Nevada Boise, Idaho				REVISION
DESIGN BY LM	DRAWN BY CP	CH'D BY	SCALE 1:100,000	



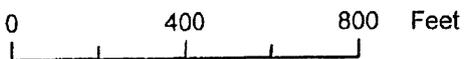
Base: Walker Flat, UT (1968) - 1:24,000 USGS

# CONSOL ENERGY 4th East Portal

▲ Macroinvertebrate Stations

Figure 2. Macroinvertebrate Sampling Stations

1:5,000



**ibor**  
environmental consultants, inc.  
Salt Lake City Cedar City Boise Reno CO

Created: 25 September 2002

Edited: Version 1

Printed: 12 November 2003

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## 2.0 Methods

Macroinvertebrate samples were collected with a Surber sampler, a widely accepted tool for this purpose. The Surber sampling methodology is described on EPA's website, at ([http://www.epa.gov/bioindicators/html/box\\_2.html](http://www.epa.gov/bioindicators/html/box_2.html)) under *Biological Indicators of Watershed Health*. In general, riffle areas or areas that contain gravels, rocks, or debris (areas where macroinvertebrates are generally most abundant) are preferred sample locations, however as noted above, reaches associated with all three station locations lack this type of substrate.

For each sample, a modified Surber sampler is placed on the creek bottom with the opening of the sampler facing upstream so that the creek current fills the collecting bag. Only the substrate that is within the 0.1m<sup>2</sup> frame is sampled. Insects are dislodged and carried into the collecting bag by the current. This process is continued until only small substrate material remains within the sampler frame. The small substrate is gently agitated by hand or with a metal stake to a depth of three to four inches. The sampler is then removed and the contents of the net transferred to a pan. Debris is removed and the sample is washed with a salt solution by decanting and sieving. The washing is repeated until the sample is free of sediment and organic algae. The sample is then rinsed from the sieve and placed in a bottle containing 70 percent isopropyl alcohol.

In 2002, three macroinvertebrate samples were taken at each station. In subsequent years, six macroinvertebrate samples were taken at each station. The labeled bottles were delivered to Dr. Richard Baumann in the entomology laboratory at Brigham Young University where the macroinvertebrates were sorted, identified, counted, and analyzed. Taxonomic decisions were made using the following references: Baumann et al. (1977), Edmunds et al. (1976), Merritt and Cummins (1996), Wiggins (1996).

## 3.0 Results

The entomology lab at Brigham Young University prepared a written report based upon their analyses of the submitted samples (Baumann, 2006). Several types of information were derived from the samples and were reported in tabular form in Baumann's report; these tables are contained in Appendix A. A complete list of taxa found at each station was prepared, including total numbers, biomass, and density (numbers/square meter). Further, species were categorized according to their trophic level (scrapers, shredders, collectors, filter feeders, and predators) and their tolerance quotient. Some macroinvertebrates, such as stoneflies and mayflies require a high level of dissolved oxygen and their abundance is an indication of good water quality. Aquatic worms are indicative of water systems with lower dissolved oxygen. The number of taxa (or richness) also relates to community composition (or diversity), and the Shannon-Weaver Diversity Index was used to indicate diversity.

According to Baumann's data, the site with the greatest number of taxa, as well as the greatest biomass and density, was the Christiansen Wash station. However, it had the lowest diversity value of the three sites.

Various tolerance quotients were also derived from the sample data. A tolerance quotient relates to the ability of a given species to withstand stressors such as poor water quality, high sediment levels, and extremes in water temperature; taxa have differing abilities to respond to various stressors or environmental conditions. Species with low tolerances are considered to be more fragile taxa, and can typically only be found in locations with relatively high quality that do not have environmental stressors present. The Actual Community Tolerance Quotients (CTQa) given in the data are simply arithmetic means of the tolerance quotients of the sampled macroinvertebrates. All three sites were dominated by species that have relatively high degrees of tolerance. The most sensitive types of macroinvertebrates were not found at these sites, which is not surprising given the habitat quality.

Still another measurement, the predicted Community Tolerance Quotient (CTQp) is the mean of the tolerance quotients for a predicted macroinvertebrate community, and represents the ideal tolerance quotient mean for a community in a given area. The ratio of the CTQp to the CTQa is known as the Biotic Condition Index, or BCI. It provides an indication of how close to its potential a particular stream site is, given the existing stream and watershed conditions. All three sites were rated as being in fair condition, based upon their BCI.

Baumann reports that the macroinvertebrate community conditions in Quitchupah Creek and Christiansen Wash during September 2006 were quite similar to what they were in September 2002 and September 2003.

## **4.0 Summary**

In September 2006, macroinvertebrate sampling was conducted near Consol's 4<sup>th</sup> East Portal at three locations, two on Quitchupah Creek, and one on Christiansen Wash. This was the third time these sites had been sampled, with previous sampling occurring in September 2002 and September 2003.

In 2006, little change was noted in the macroinvertebrate community at these sites, when compared to previous sampling. Differences between the sites are minor, with the greatest difference reflected in a higher biomass and density in Christiansen Wash. Habitat conditions are rated fair and most species present are ones that exhibit fairly high tolerance to environmental stressors.

## 5.0 References

- Baumann, Richard W. December 2006. Macroinvertebrate Studies of the Lower Quitchapah Creek Drainage, Below Emery, Utah. Samples Collected September 11, 2006. Prepared for JBR Environmental Consultants.
- Baumann, R. W., A. R. Gaufin, and R. F. Surdick. 1977. The stoneflies (Plecoptera) of the Rocky Mountains. Mem. American Entomology Society, 31:1-208.
- Edmunds, G. F., Jr., S. L. Jensen, and L. Berner. 1976. The mayflies of North and Central America. University of Minnesota Press, 330 pp.
- JBR Environmental Consultants, Inc. December 2002. CONSOL Energy - 4<sup>th</sup> East Portal, Macroinvertebrate and Fish Sampling Results Fall, 2002.
- JBR Environmental Consultants, Inc. November 2003. CONSOL Energy - 4<sup>th</sup> East Portal, Macroinvertebrate and Fish Sampling Results Fall, 2003.
- Merritt, R. W. and K. W. Cummins. 1996. An introduction to the aquatic insects of North America. Kendall/Hunt, 732 p.
- Wiggins, G. B. 1996. Larvae of the North American caddisfly genera. Univ. of Toronto Press, 401 pp.

**Appendix A**  
**Data Tables from Baumann's Report**

**Table 2. Summary of macroinvertebrate data from Quitchupah Creek drainage, samples collected September 11, 2006.**

Parameter	Stations		
	QC1	QC2	CW1
Total number of taxa	7	6	9
Mean number/square meter	108	32	2018
Standard Deviation	40.4	9.2	986
Grams/square meter	>0.1	>0.1	0.9
Dominance Community TQ=CTQd	100	92	104
Shannon Weaver Index = $\tilde{d}$	2	2	1.2
Average Community TQ=CTQa	101	94	103
Predicted Community TQ = CTQp	75	75	75
Percent of Predicted = BCI	74	80	73

BCI  
 Above 90  
 80-90  
 70-80  
 Below 70

SCALE  
 Excellent  
 Good  
 Fair  
 Poor

CTQd  
 Below 60  
 60-70  
 70-80  
 Above 80

SCALE  
 Excellent  
 Good  
 Fair  
 Poor

DATE: 09 11 06

TOTAL SAMPLE STATISTICS

STATION: 1      Quitchupah Creek, Lower Quitchupah, below Christiansen Wash

Repl	Species	Total No.	Mean	Confidence Limits		Standard	Percent SE	Coeff. of	CTQA	CTQA	CTQD
				LL	UL						
6	7	108	64	152	40.40	15.32	37.53	1.9945	101	100	

DATE: 09 11 06

SPECIES ANALYSIS

STATION: 1 Quitchupah Creek, Lower Quitchupah, below Christiansen Wash

TAXONOMIC LIST CLASS	ORDER	FAMILY	GENUS	SPECIES	MEAN N/SQM	LOG10 N/SQM	TQ	LOG10 TQ	XTQ
INSECTA	EPHEMEROPTERA	LEPTOHYPHIDAE	TRICORYTHODES	MINUTUS	2	0.254	108	27	
INSECTA	EPHEMEROPTERA	BAETIDAE	BAETIS		13	1.099	72	79	
INSECTA	TRICHOPTERA	HYDROPSYCHIDAE	HYDROPSYCHE		45	1.652	108	178	
INSECTA	ODONATA	GOMPHIDAE	OPHIOGOMPHUS		4	0.555	108	59	
INSECTA	DIPTERA	SIMULIIDAE			5	0.731	108	78	
INSECTA	DIPTERA	CHIRONOMIDAE			38	1.576	108	170	
ARACHNIDA	HYDRACARINA				2	0.254	98	24	

MEAN BIOMASS GM/SQM: 0.1 TOTALS: 108 2.032

STATION: 2      Quitcupah Creek, Emery County, Utah, Upper Quitcupah, above Christensen Wash      DATE: 09 11 06

TOTAL SAMPLE STATISTICS

Repl Species	Total No.	Confidence Limits (80 Percent)		Standard Deviation	Percent SE of Mean	Coeff. of Variation	DEAR	CTQA	CTQD
		LL	UL						
6	6	32	42	9.27	11.72	28.72	2.1054	94	92

SPECIES ANALYSIS

STATION: 2      Quitchupah Creek, Emery County, Utah, Upper Quitchupah, above Christensen Wash      DATE: 09 11 06

TAXONOMIC LIST	CLASS	ORDER	FAMILY	GENUS	SPECIES	MEAN N/SQM	LOG10 N/SQM	TQ	LOG10 TQ	XTQ
INSECTA		EPHEMEROPTERA	BAETIDAE	BAETIS		11	1.032	72	74	
INSECTA		TRICHOPTERA	HYDROPSYCHIDAE	HYDROPSYCHE		13	1.099	108	118	
INSECTA		COLEOPTERA	DRYOPIDAE			4	0.555	100	55	
INSECTA		COLEOPTERA	DYTISCIDAE	LACCOPHILUS		2	0.254	72	18	
INSECTA		ODONATA	GOMPHIDAE	OPHIOGOMPHUS		2	0.254	108	27	
INSECTA		DIPTERA	SIMULIIDAE			2	0.254	108	27	

MEAN BIOMASS GM/SQM: 0.1      TOTALS:      32      1.509

TOTAL SAMPLE STATISTICS

STATION: 3

Christiansen Wash, above junction Quitcupah Creek, Emery County, Utah

DATE: 09 11 06

Total No. Mean Repl Species /SQM	Confidence Limits (80 Percent)		Standard Deviation	Percent SE of Mean	Coeff. of Variation	DBAR	CTQA	CTQD
	LL	UL						
6 9 2018	944	3092	986.35	19.95	48.87	1.1519	103	104

SPECIES ANALYSIS

STATION: 3      Christiansen Wash, above junction Quitcupah Creek, Emery County, Utah      DATE: 09 11 06

TAXONOMIC LIST	CLASS	ORDER	FAMILY	GENUS	SPECIES	MEAN N/SQM	LOG10 N/SQM	TQ	LOG10 TQ	XTQ
INSECTA		TRICHOPTERA	HYDROPSYCHIDAE	HYDROPSYCHE		1349	3.130	108	338	
INSECTA		TRICHOPTERA	HYDROPTILIDAE	HYDROPTILIA		22	1.333	108	143	
INSECTA		ODONATA	COMPHIDAE	OPHLOGOMPHUS		9	0.953	108	102	
INSECTA		ODONATA	COENAGRIONIDAE	ARGIA		9	0.953	108	102	
INSECTA		DIPTERA	TIPULIDAE	TIPULA		5	0.731	80	58	
INSECTA		DIPTERA	CHIRONOMIDAE			605	2.781	108	300	
INSECTA		DIPTERA	EMERIDAE			9	0.953	95	90	
INSECTA		DIPTERA	CERATOPOGONIDAE			5	0.731	108	78	
ANNELIDA			OLIGOCHAETA			5	0.731	108	78	

MEAN BIOMASS GM/SQM: 0.9      TOTALS:      2018      3.305



Entity Number	Entity Type	Renewal Fee	Delinquent Date	Total Late renewal Fee	Date Entity Can No Longer Renew
599621-0143	Corporation - Foreign - Profit	\$12.00	8/22/2006	\$22.00	10/21/2006

SUBMIT SEPARATE PAYMENTS FOR MULTIPLE RENEWALS  
CHANGES MADE ON THE FORM ON THE REVERSE MUST BE TYPE WRITTEN OR COMPUTER GENERATED

CT CORPORATION SYSTEM  
CONSOLIDATION COAL COMPANY  
50 W BROADWAY 8TH FLOOR  
SALT LAKE CITY UT 84101-2006

000001677683C0R0000599621014300000000000000000000001200

(Detach coupon above even if changes are made on the reverse side of this form)

**INSTRUCTIONS FOR ANNUAL REPORT/RENEWAL - PLEASE READ CAREFULLY**

**TIMELY RENEWAL:** Pursuant to Utah Law, all renewals must be filed within their legally prescribed time. Failure to do so may result in the loss of all protection and privileges in the State of Utah.

**RENEWAL FEES:** Application fees are subject to change by the Legislature each July 1<sup>st</sup>. The fees quoted above are current at the time this renewal form was printed. The "Total Late Renewal Fee" quoted above is the total amount due if renewing after the entity's Delinquent Date.

**RENEWAL:** Please submit original form only. If no changes need to be made to registered information, carefully detach the coupon above and submit with the appropriate fee in the enclosed return envelope. For multiple renewals please submit separate payments. Payments are accepted by check or money order and should be payable to "State of Utah" DO NOT SEND CASH. Please indicate registration number and/or business name on check.

**CHANGES:** At the time of renewal changes can be made to the entity's registered information with no fee by using the form printed on the reverse. If making changes, return the detached coupon, the form with changes and the appropriate fee in the enclosed return envelope. Ensure that the changes made on the reverse side of this form are being made to the entity with which this renewal is associated.

If you have questions concerning this renewal or would like to check the status of your record please contact the Corporations Information Center at: (801) 530-4849 or toll free in-state (877) 526-3994 or go to <http://www.state.ut.us/serv/bes>. Forms may be downloaded from our Web site: <http://www.commerce.state.ut.us>

RENEWAL COUPON

RENEWAL COUPON

**ENTITY SPECIFIC INFORMATION:**

[www.utah.gov/commerce/abr](http://www.utah.gov/commerce/abr)

**Corporation - Domestic - Profit:** ONE (1) corporate officer with address {UCA 16-10A-830} & THREE (3) directors with addresses {UCA 16-10A-803} (exception: 16-10A-803-1b) must be reported by the entity's first anniversary annual report.

**Corporation - Foreign - Profit:** What the home state law requires

**Professional Corporation:** ONE (1) director with address and ONE (1) corporate officer with address, each must be an individual licensed to render the same specific professional services as those for which the corporation is organized or be qualified to be an officer or director under the applicable licensing act for which the corporation is organized {UCA 16-11-8}.

Use the form on the reverse to set forth any change in registered information, there is no additional fee involved when changing registered information for an entity in conjunction with that entity's renewal. When filling out the form, it must be type written or computer generated.

**REGISTERED PRINCIPAL INFORMATION**

To view principal information go to <http://www.utah.gov/commerce/abr>  
You will need to enter the following information on the internet:

ENTITY NUMBER: 599621-0143  
RENEWAL ID: 1677683

- To check current registered information, follow the instructions printed on the bottom portion on the reverse side of this form
- Include the Entity File Number and Registered Name on their respective lines below
- When replacing the Registered Agent the new Agent **MUST** sign
- Place an "x" in the  Add box next to the position when adding a position
- Place an "x" in the  Remove box next to the position when removing a position
- If changing or correcting existing information, enter the position and then the name & address as they should read - **do not** "x" either the Add or Remove box
- Sign and date the bottom of this form (Do not write in space below)

- Submit the detached coupon, form with changes and appropriate fee in the enclosed return envelope
- There is no additional fee for making changes to registered information when the changes are made in conjunction with the entity's renewal
- The form below **must** be type written or computer generated

Please make all corrections or changes to registered information on this form. Please include Entity File Number and Registered Name along with all changes. There is no fee involved with making changes or corrections to registered information when the changes are made in conjunction with the entity renewal.

**WHEN REPLACING THE REGISTERED AGENT THE NEW AGENT MUST SIGN**

Do not use this form if you are resigning as a Officer, Director, or Registered Agent. You must submit a Letter of Resignation. There is no fee associated with a Letter of Resignation.

ENTITY FILE # \_\_\_\_\_ REGISTRATION DATE \_\_\_\_\_

1. REGISTERED NAME \_\_\_\_\_  
(Required Information)

2. REGISTERED AGENT \_\_\_\_\_  
First Middle Last New Agent Must Sign Above

3. REGISTERED ADDRESS \_\_\_\_\_  
Street Address Required

4. CITY & ZIP CODE \_\_\_\_\_  
City UTAH (Registered Agent Must Be in Utah) Zip

5. PURPOSE OF THE BUSINESS \_\_\_\_\_

6. ADDRESS OF THE PRINCIPAL OFFICE IN THE HOME STATE \_\_\_\_\_  
Street Address

City \_\_\_\_\_ State or Country \_\_\_\_\_ Zip \_\_\_\_\_

**SEE ATTACHED LISTING**

POSITION TO CHANGE	NAME	ADDRESS
7. <input type="checkbox"/> Add	_____	ADDRESS _____
<input type="checkbox"/> Remove	_____	CITY _____ STATE _____ ZIP _____
8. <input type="checkbox"/> Add	_____	ADDRESS _____
<input type="checkbox"/> Remove	_____	CITY _____ STATE _____ ZIP _____
9. <input type="checkbox"/> Add	_____	ADDRESS _____
<input type="checkbox"/> Remove	_____	CITY _____ STATE _____ ZIP _____
10. <input type="checkbox"/> Add	_____	ADDRESS _____
<input type="checkbox"/> Remove	_____	CITY _____ STATE _____ ZIP _____
11. <input type="checkbox"/> Add	_____	ADDRESS _____
<input type="checkbox"/> Remove	_____	CITY _____ STATE _____ ZIP _____
12. <input type="checkbox"/> Add	_____	ADDRESS _____
<input type="checkbox"/> Remove	_____	CITY _____ STATE _____ ZIP _____

Under penalties of perjury and as an authorized authority, I declare that this statement of change(s) has been examined by me and is, to the best of my knowledge and belief, true, correct, and complete.

BY: **Lori L. Ritter / Assistant Secretary**  
(Printed Name of Authorized Party & Position Held)

*Lori Ritter*  
(Signature of Authorized Party)

# CONSOLIDATION COAL COMPANY

## List of Officers and Directors

### Officers:

J. Brett Harvey President	102 Trotwood Drive, Venetia, PA 15367 1800 Washington Road, Pittsburgh, PA 15241
P. B. Lilly Chief Operating Officer	9091 Sherwood Court, Nevillewood, PA 15142 1800 Washington Road, Pittsburgh, PA 15241
A. A. Aloia VP/General Mgr.	434 Independence Blvd., Washington, PA 15301 1800 Washington Road, Pittsburgh, PA 15241
B. J. Hyita Vice President	4 Intermediate Drive, Coal Center, PA 15423 1800 Washington Road, Pittsburgh, PA 15241
J. N. Magro Vice President	10 Kilsyth Court, St. Clairsville, OH 43950 1800 Washington Road, Pittsburgh, PA 15241
W. D. Stanhagen Vice President	473 Bassett Drive, Bethel Park, PA 15102 1800 Washington Road, Pittsburgh, PA 15241
R. G. Stovash Vice President	49 Sunset Beach Road, Morgantown, WV, 26508 1800 Washington Road, Pittsburgh, PA 15241
J. M. Reilly Treasurer	819 Hillcrest Circle, Wexford, PA 15090 1800 Washington Road, Pittsburgh, PA 15241
L. L. Ritter Asst. Secretary	655 Old Post Road, Prosperity, PA 15329 1800 Washington Road, Pittsburgh, PA 15241
J. F. Zachwieja Vice President	4 Highland Park, Wheeling, WV 26003 1800 Washington Road, Pittsburgh, PA 15241
P. M. Greene Assistant Secretary	230 Glen Springs Circle, Canonsburg, PA 15317 1800 Washington Road, Pittsburgh, PA 15241

**Directors:**

- J. Brett Harvey                    102 Trotwood Drive, Venetia, PA 15317  
    1800 Washington Road, Pittsburgh, PA 15241
- W. J. Lyons                        3203 Washington Pike, Bridgeville, PA 15017  
    1800 Washington Road, Pittsburgh, PA 15241
- P. B. Lilly                         9091 Sherwood Court, Nevillewood, PA 15142  
    1800 Washington Road, Pittsburgh, PA 15241
- J. M. Reilly                        819 Hillcrest Circle, Wexford, PA 15090  
    1800 Washington Road, Pittsburgh, PA 15241
- R. G. Stovash                      49 Sunset Beach Road, Morgantown, WV, 26508  
    1800 Washington Road, Pittsburgh, PA 15241
- P. J. Richey                        439 Austin Ave, Pittsburgh, PA 15243  
    1800 Washington Road, Pittsburgh, PA 15241
- B. J. Hyita                         4 Intermediate Drive, Coal Center, PA 15423  
    1800 Washington Road, Pittsburgh, PA 15241

CONSOLIDATION COAL COMPANY  
P.O. Box 12603  
Pittsburgh, PA 15241  
Phone: (412) 831-4683

UTAH STATE DEPT OF COMMERCE

Vendor No. 866729  
Check No. 1520196111

Check Number	Invoice Date	Invoice Amount	Payment Amount	Net Amount
UT1520AR	08/08/2006	12.00	0.00	12.00
		Check Total.....		\$ 12.00

THIS CHECK IS TENDERED IN FULL SETTLEMENT OF YOUR INVOICES LISTED HEREON.

PLEASE DETACH REMITTANCE BEFORE CASHING.

**Consolidation Coal Company**

CHECK NUMBER: **1520196111**

TO THE ORDER OF: **UTAH STATE DEPT OF COMMERCE  
PO BOX 25125  
SALT LAKE CITY UT 84125-0125**

DOLLARS TWELVE 00/100

*John W. Kelly*

CITIBANK DELAWARE  
ONE PENNS WAY  
NEW CASTLE, DE 19720

1520196111

031100209

38854464

# CONSOLIDATION COAL COMPANY

## List of Officers and Directors

NAME	ADDRESS	CITY	STATE	ZIP CODE
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### Directors:

J. Brett Harvey Director	102 Trotwood Drive 1800 Washington Road	Venetia Pittsburgh	PA PA	15367 15241
Bart J. Hyita Director	4 Intermediate Drive 1800 Washington Road	Coal Center Pittsburgh	PA PA	15423 15241
Peter B. Lilly Director	9091 Sherwood Court 1800 Washington Road	Nevillewood Pittsburgh	PA PA	15142 15241
William J. Lyons Director	3203 Washington Pike 1800 Washington Road	Bridgeville Pittsburgh	PA PA	15017 15241
John M. Reilly Director	819 Hillcrest Circle 1800 Washington Road	Wexford Pittsburgh	PA PA	15090 15241
P. Jerome Richey Director	439 Austin Avenue 1800 Washington Road	Pittsburgh Pittsburgh	PA PA	15243 15241

### Officers:

Albert A. Aloia Senior Vice President	108 Sherborne Drive 1800 Washington Road	McMurray Pittsburgh	PA PA	15317 15241
Louis Barletta Jr. Vice President	211 Annuity Drive 1800 Washington Road	Washington Pittsburgh	PA PA	15301 15241
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Daniel S. Cangilla Treasurer	167 Kaylor Road 1800 Washington Road	Pittsburgh Pittsburgh	PA PA	15237 15241
Rodney E. Ford Assistant Secretary	1415 Alice Drive 1800 Washington Road	Bridgeville Pittsburgh	PA PA	15017 15241

John N. Gaul Controller	645 Skyline Drive 1800 Washington Road	Belle Vernon Pittsburgh	PA PA	15012 15241
J. Brett Harvey President	102 Trotwood Drive 1800 Washington Road	Venetia Pittsburgh	PA PA	15367 15241
Bart J. Hyita Senior Vice President	4 Intermediate Drive 1800 Washington Road	Coal Center Pittsburgh	PA PA	15423 15241
Robert P. King Vice President	113 Golden Eagle Drive 1800 Washington Road.	Venetia Pittsburgh	PA PA	15367 15241
Peter B. Lilly Chief Operating Officer - Coal	9091 Sherwood Court 1800 Washington Road	Nevillewood Pittsburgh	PA PA	15142 15241
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Robert M. Vukas Secretary	476 Thornycroft Avenue 1800 Washington Road	Pittsburgh Pittsburgh	PA PA	15228 15241
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