

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	Lodestar Energy, Inc.
Mine Name	Horizon Mine
Operator Name (If other then permittee)	
Permit Expiration Date	October 11, 2006
Permit Number	C/007/020
Authorized Representative Title	David B. Miller, Business Manager
Phone Number	(435) 448-9455
Fax Number	(435) 448-9456
E-mail Address	dave.miller@lodestareng.com or millerdbnrj1@msn.com
Mailing Address	HCR 35 Box 370, Helper, UT 84526
Resident Agent	David B. Miller
Resident Agent Mailing Address	HCR 35 Box 370, Helper, UT 84526
Number of Binders Submitted	2 copies (1 binder each)

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)	42-02074	Horizon No. 1 Mine	N/A
	42-02075	Horizon No. 2 Mine (not started)	N/A
MSHA Impoundment(s)		None	
NPDES/UPDES Permit(s)	UTG040000-001	Sediment Pond 001	4/2003
	UTG040000-002	Pipe Discharge	4/2003
PSD Permit(s) (Air)	DAQE-700-00	Modification of Approval Order	N/A
		BAQE-336-91	

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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Impoundments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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"/>	
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 type="checkbox"/>	<input checked="" type="checkbox"/>	Last survey on file. No new areas of subsidence or planned surface disturbance
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Second quarter	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Third quarter	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Fourth quarter	<input checked="" 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"/>	
Other Data					
Underground discharge pumping data	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Deer/Elk Fatality Data	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Macroinvertebrate	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Baseline Study	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

APPENDIX A

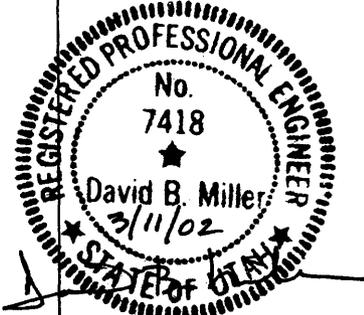
Certified Reports

Excess Spoil Piles
Refuse Piles
Impoundments

As required under R645-301-514

CONTENTS

Quarterly Pond Inspections and Annual Inspection for Pond 001

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of 1
Permit Number	C/007/020	Report Date: 03-07-02
Mine Name	Horizon	
Company Name	Lodestar Energy, Inc	
Impoundment Identification	Impoundment Number	001
	UPDES Permit Number	UTG040019
IMPOUNDMENT INSPECTION		
Inspection Date	03-07-02	
Inspected By	Kit Pappas	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Quarterly Inspection	
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>No signs of instability noted at this incised pond. There is no evidence of slumping in the pond or on the embankment. No hazardous conditions were noted. Snow covered.</p>		
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <p>60% Sediment Storage - 7566.9 100 % Sediment Storage - 7569.8 The water level was 7 feet below the 60% clean out marker. (7559.9)</p>	
	<p>3. Principle and emergency spillway elevations.</p> <p>Spillway Elevation - 7573.9 Feet</p>	
	<p>4. Field Information</p> <p>The water level in the pond has dropped since last inspection. The pond was not discharging at the time of inspection. No flow into the pond during the inspection. The inlets and outlet were stable. No instability was noted on the downstream embankment. The pond has small deltas of sediment near the inlets. Snow covered.</p>	
		

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of 1
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Permit Number	C/007/020	Report Date: 05-14-02	
Mine Name	Horizon		
Company Name	Lodestar Energy, Inc		
Impoundment Identification	Impoundment Number	001	
	UPDES Permit Number	UTG040019	

IMPOUNDMENT INSPECTION	
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Inspection Date	05-14-02
Inspected By	Kit Pappas

Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Quarterly Inspection
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1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.
 No signs of instability noted at this incised pond. There is no evidence of slumping in the pond or on the embankment. No hazardous conditions were noted.

Required for an impoundment which functions as a SEDIMENTATION POND.	2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment. 60% Sediment Storage - 7566.9 100 % Sediment Storage - 7569.8 The water level was 7 feet below the 60% clean out marker. (7559.9)
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	3. Principle and emergency spillway elevations. Spillway Elevation - 7573.9 Feet
--	---

	4. Field Information The water level in the pond has dropped since last inspection. The pond was not discharging at the time of inspection. No flow into the pond during the inspection. The inlets and outlet were stable. No instability was noted on the downstream embankment. The pond has small deltas of sediment near the inlets
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IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		Page 1 of 1
Permit Number	C/007/020	Report Date: 08-13-02
Mine Name	Horizon	
Company Name	Lodestar Energy, Inc	
Impoundment Identification	Impoundment Number	001
	UPDES Permit Number	UTG040019
IMPOUNDMENT INSPECTION		
Inspection Date	08-12-02	
Inspected By	Kit Pappas	
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Quarterly Inspection	
<p>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</p> <p>No signs of instability noted at this incised pond. There is no evidence of slumping in the pond or on the embankment. No hazardous conditions were noted.</p>		
Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <p>60% Sediment Storage - 7566.9 100 % Sediment Storage - 7569.8</p>	
	<p>3. Principle and emergency spillway elevations.</p> <p>Spillway Elevation - 7573.9 Feet</p>	
	<p>4. Field Information</p> <p>The pond is completely dry. No flow into the pond during the inspection. The inlets and outlet were stable. No instability was noted on the downstream embankment. The pond has small deltas of sediment near the inlets</p>	
		

Permit Number	C/007/020	Report Date: 10-11-02	
Mine Name	Horizon		
Company Name	Lodestar Energy, Inc		
Impoundment Identification	Impoundment Number	001	
	UPDES Permit Number	UTG040019	

IMPOUNDMENT INSPECTION

Inspection Date	10-11-02
Inspected By	Kit Pappas

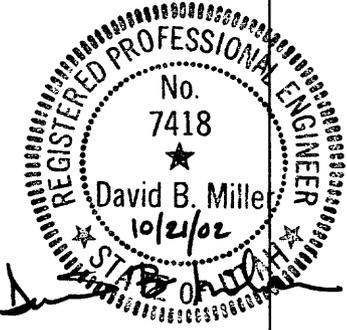
Reason for Inspection <small>(Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)</small>	Quarterly Inspection/ <i>Annual Inspection</i>
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1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.
 No signs of instability noted at this incised pond. There is no evidence of slumping in the pond or on the embankment. No hazardous conditions were noted.

Required for an impoundment which functions as a SEDIMENTATION POND.	2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment. 60% Sediment Storage - 7566.9 100 % Sediment Storage - 7569.8
--	--

	3. Principle and emergency spillway elevations. Spillway Elevation - 7573.9 Feet
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	4. Field Information The water level in the pond was approximately two feet in depth. The pond was not discharging at the time of inspection. No flow into the pond during the inspection. The inlets and outlet were stable. No instability was noted on the downstream embankment.
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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 Survey
Subsidence Monitoring Map
Underground Discharge Pumping Data
Big Game Road Kill Fatality Report
Macroinvertebrate Baseline Sampling

HORIZON MINE DISCHARGE

<u>DATE</u>	<u>GALLONS PUMPED</u>	<u>MINUTES</u>	<u>AVERAGE G.P.M.</u>			
02-Jan-02	1760400	7290	241.48			
03-Jan-02	342000	1380	247.83			
04-Jan-02	383000	1445	265.05			
07-Jan-02	1107000	4420	250.45			
08-Jan-02	335500	1380	243.12			
09-Jan-02	394600	1455	271.20			
11-Jan-02	682800	2880	237.08			
14-Jan-02	1261200	4320	291.94			
16-Jan-02	757900	4290	176.67			
17-Jan-02	393800	1470	267.89			
21-Jan-02	1641100	5715	287.16			
23-Jan-02	671200	2490	269.56			
25-Jan-02	890700	2565	347.25			
29-Jan-02	1735400	3105	558.90			
30-Jan-02	406700	2820	144.22			
31-Jan-02	364200	1320	275.91	6266500	24570	255.0468
01-Feb-02	347700	1110	313.24			
04-Feb-02	1302300	1830	711.64			
05-Feb-02	412300	1395	295.56			
06-Feb-02	423400	1505	281.33			
08-Feb-02	835000	2940	284.01			
11-Feb-02	1150800	3970	289.87			
12-Feb-02	317100	1410	224.89			
13-Feb-02	518100	1570	330.00			
14-Feb-02	500500	1820	275.00			
15-Feb-02	408100	1440	283.40			
19-Feb-02	1664200	5700	291.96			
25-Feb-02	2490000	8730	285.22			
27-Feb-02	867300	2880	301.15			
28-Feb-02	489000	1405	348.04	11725800	37705	310.9879
01-Mar-02	386200	1560	247.56			
04-Mar-02	1810700	4200	431.12			
05-Mar-02	672300	1440	466.88			
07-Mar-02	1198300	2880	416.08			
08-Mar-02	564900	1410	400.64			
11-Mar-02	2118800	4350	487.08			
12-Mar-02	428400	1410	303.83			
03-Mar-02	527200	1485	355.02			
14-Mar-02	619700	1440	430.35			
15-Mar-02	403700	1335	302.40			
18-Mar-02	2185500	2880	758.85			
20-Mar-02	1484700	2910	510.21			
21-Mar-02	487300	1470	331.50			
22-Mar-02	365000	1440	253.47			
25-Mar-02	1723800	2895	595.44			
27-Mar-02	1888200	2850	662.53			
28-Mar-02	820600	1425	575.86	17685300	37380	473.122
01-Apr-02	3162900	4410	717.21			
04-Apr-02	2124500	4320	491.78			
05-Apr-02	726600	1410	515.32			
06-Apr-02	553400	1290	428.99			
09-Apr-02	2073100	4440	466.91			
10-Apr-02	789300	1725	457.57			
11-Apr-02	544600	1185	459.58			
15-Apr-02	2312100	5790	399.33			
18-Apr-02	1735500	4320	401.74			
19-Apr-02	540000	1440	375.00			
23-Apr-02	2375000	5490	432.60			
29-Apr-02	2773000	8910	311.22	19710000	44730	440.6439

HORIZON MINE DISCHARGE

<u>DATE</u>	<u>GALLONS PUMPED</u>	<u>MINUTES</u>	<u>AVERAGE G.P.M.</u>			
01-May-02	1298300	1290	1006.43			
02-May-02	426300	1665	256.04			
03-May-02	537400	1665	322.76			
07-May-02	1938600	5430	357.02			
09-May-02	1024400	2880	359.644			
10-May-02	557700	1655	336.98			
13-May-02	42090.6875	4335	9.71			
14-May-02	169800	1395	121.72			
15-May-02	615100	1828	336.49			
16-May-02	313600	1128	278.01			
17-May-02	653200	1955	334.12			
18-May-02	300600	850	353.65			
20-May-02	1106900	3090	358.22			
21-May-02	468900	1410	332.55			
22-May-02	513100	1560	328.91			
23-May-02	412400	2700	152.74			
24-May-02	492700	1530	322.03			
28-May-02	1820800	5565	327.19			
29-May-02	456800	1455	313.95			
30-May-02	482100	1530	315.10			
31-May-02	378900	1410	268.72	14009691	46326	302.4153
01-Jun-02	503100	1440	349.38			
03-Jun-02	882700	2865	308.10			
04-Jun-02	486200	1520	319.87			
05-Jun-02	420600	1420	296.20			
06-Jun-02	374200	1461	256.13			
07-Jun-02	443500	1414	313.65			
08-Jun-02	437700	1110	394.32			
10-Jun-02	943000	3150	299.37			
11-Jun-02	428600	1430	299.72			
12-Jun-02	415100	2395	173.32			
13-Jun-02	488100	1515	322.18			
14-Jun-02	418400	1410	296.74			
19-Jun-02	2481400	7110	349.00			
20-Jun-02	409100	1170	349.66			
21-Jun-02	358000	1700	210.59			
26-Jun-02	2235400	7070	316.18			
28-Jun-02	5037300	2925	1722.15	17141300	42515	403.1824
03-Jul-02	-1399600	8273	-169.18			
08-Jul-02	838200	7293	114.93			
09-Jul-02	964000	1820	529.67			
11-Jul-02	256800	1700	151.06			
15-Jul-02	1687700	6050	278.96			
16-Jul-02	344900	1220	282.70			
17-Jul-02	261100	1435	181.95			
18-Jul-02	255900	1415	180.85			
19-Jul-02	265200	1465	181.02			
22-Jul-02	987200	4310	229.05			
23-Jul-02	457700	1585	288.77			
24-Jul-02	399200	1440	277.22			
29-Jul-02	2086600	7190	290.21			
30-Jul-02	456600	1530	298.43			
31-Jul-02	379800	1370	277.23	8241300	48096	171.351
01-Aug-02	269300	1640	164.21			
02-Aug-02	600900	1500	400.60			
05-Aug-02	1257500	3035	414.33			
08-Aug-02	1338100	4475	299.02			
14-Aug-02	2500000	8490	294.46			
15-Aug-02	2180100	1450	1503.52			
21-Aug-02	810000	8490	95.41			

HORIZON MINE DISCHARGE

<u>DATE</u>	<u>GALLONS PUMPED</u>	<u>MINUTES</u>	<u>AVERAGE G.P.M.</u>			
30-Aug-02	3743600	13200	283.61	12699500	42280	300.3666
04-Sep-02	2047000	7005	292.22			
05-Sep-02	479700	1395	343.87			
10-Sep-02	2088900	7260	287.73			
11-Sep-02	392100	1310	299.31			
16-Sep-02	2048300	7275	281.55			
17-Sep-02	421400	1465	287.65			
26-Sep-02	3534200	13025	271.34			
27-Sep-02	360000	1200	300.00			
30-Sep-02	1250800	4290	291.56	12622400	44225	285.4132
01-Oct-02	456600	1580	288.99			
02-Oct-02	375000	1270	295.28			
03-Oct-02	441200	1550	284.65			
04-Oct-02	133200	1430	93.15			
07-Oct-02	1418300	4310	329.07			
10-Oct-02	1197900	4380	273.49			
11-Oct-02	1306600	1420	920.14			
14-Oct-02	555900	1410	394.26			
15-Oct-02	303700	1430	212.38			
16-Oct-02	598700	1465	408.67			
17-Oct-02	1096000	1515	723.43			
18-Oct-02	827000	1350	612.59			
24-Oct-02	1030500	8970	114.88			
25-Oct-02	306000	1140	268.42			
28-Oct-02	1228200	4620	265.84			
31-Oct-02	1224700	4260	287.49	12499500	42100	296.9002
01-Nov-02	346800	1260	275.24			
04-Nov-02	116300	4350	26.74			
06-Nov-02	1926800	2790	690.61			
07-Nov-02	529100	1740	304.08			
08-Nov-02	517200	1410	366.81			
12-Nov-02	1780100	5640	315.62			
19-Nov-02	3161700	10140	311.80			
20-Nov-02	333600	1350	247.11			
21-Nov-02	353500	1425	248.07			
25-Nov-02	1571300	5985	262.54			
02-Dec-02	2924600	9870	296.31	13561000	45960	295.0609
03-Dec-02	510800	1440	354.72			
06-Dec-02	1520000	4410	344.67			
11-Dec-02	2198100	7110	309.16			
16-Dec-02	1995800	7440	268.25			
19-Dec-02	1165200	4320	269.72			
02-Jan-03	5688400	20100	283.00	13078300	44820	291.7961

Big Game Road Kill Fatality Report

Year	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter		Total	
	Employee Killed	Other Killed								
1997										
Deer	0	0	0	0	0	0	0	0	0	*
Elk	0	0	0	0	0	0	0	0	0	*
1998										
Deer	0	0	0	0	0	0	0	0	0	*
Elk	0	0	0	0	0	0	0	0	0	*
1999										
Deer	0	0	0	0	0	0	0	0	0	*
Elk	0	0	0	0	0	0	0	0	0	*
2000										
Deer	0	0	0	0	0	0	0	2	2	
Elk	0	0	0	0	0	0	0	0	0	
2001										
Deer	1	0	0	0	0	0	0	0	1	
Elk	0	0	0	0	0	0	0	0	0	
2002										
Deer	0	0	0	0	0	0	0	0	0	
Elk	0	0	0	0	0	0	0	0	0	

* - Totals verified by Derris Jones - DWR (Habitat Manager) 11/08/00

**NORTH FORK GORDON CREEK
MACROINVERTEBRATE
SAMPLING RESULTS
SPRING, 2002**

Submitted to:

Lodestar Energy Horizon Coal Mine
HC 35 Box 37
Helper, UT 84526

Submitted by:

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

September, 2002

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LIST OF APPENDICES

Appendix A	Data Tables From Baumann's Report
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NORTH FORK GORDON CREEK MACROINVERTEBRATE SAMPLING RESULTS FROM SPRING, 2002

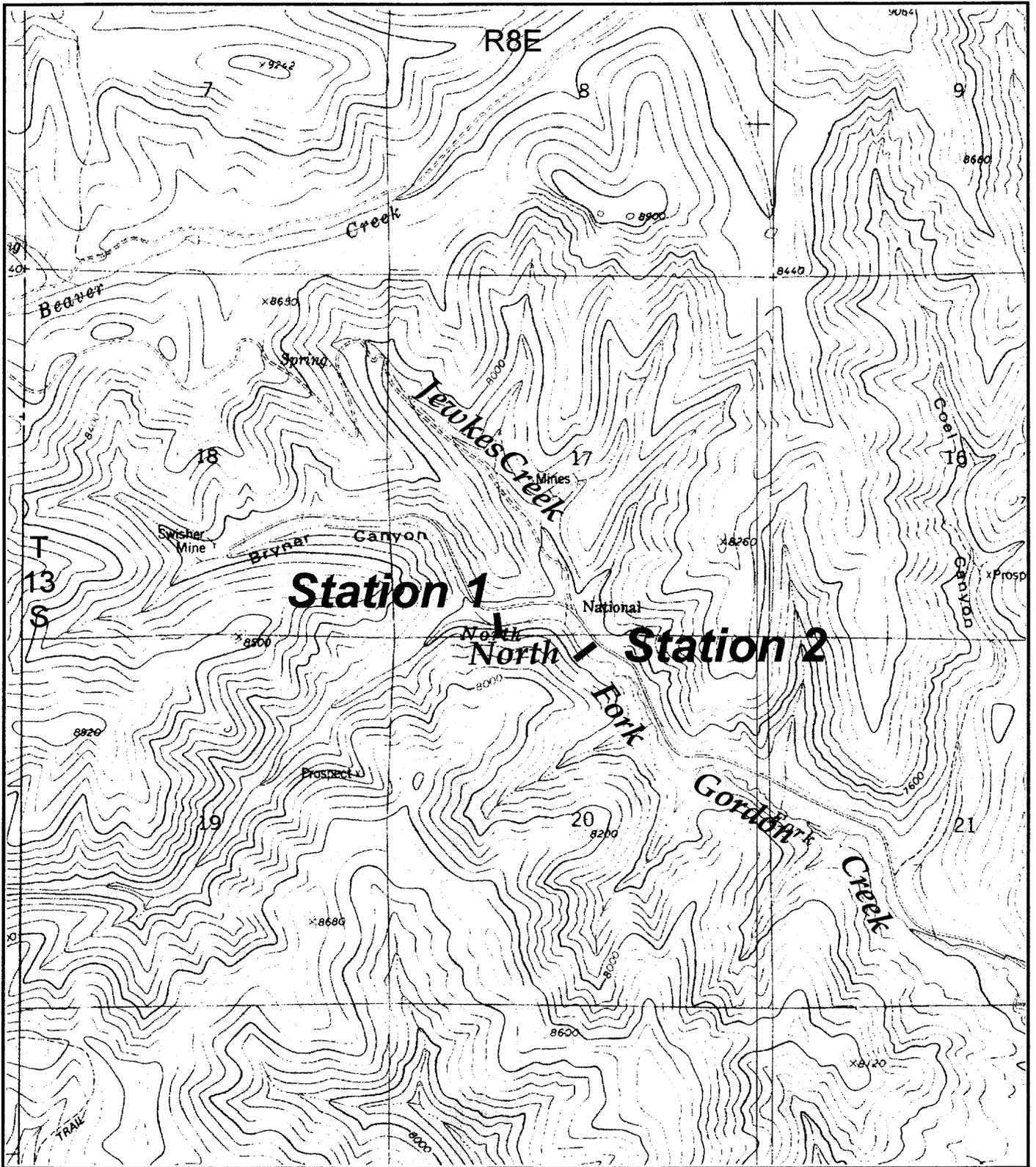
1.0 Introduction

Lodestar Energy's Horizon Coal Mine is located south of Scofield, Utah (Figure 1), and its surface facilities are in the Jewkes Creek watershed. Jewkes Creek is tributary to North Fork Gordon Creek. As described in more detail in a previous report (JBR, 2001), the Jewkes Creek watershed is subject to non-mining land uses including grazing and logging. The Horizon Coal Mine discharges underground water into Jewkes Creek, approximately 0.5 road miles upstream of Jewkes Creek's confluence with North Fork Gordon Creek.

In the spring of 2001, Utah Division of Oil, Gas, and Mining (UDOGM) requested that Lodestar Energy initiate a macroinvertebrate data collection program that could be used to track temporal and spatial differences in habitat quality in North Fork Gordon Creek above and below its confluence with Jewkes Creek. Lodestar Energy contracted with JBR Environmental Consultants (JBR) to conduct the study, and UDOGM provided input on sampling locations and study design. Station 1 was located on North Fork Gordon Creek approximately 0.2 road miles upstream from the confluence of Jewkes Creek and Gordon Creek. Station 2 was located on North Fork Gordon Creek approximately 0.1 road miles downstream from the confluence of Jewkes Creek and Gordon Creek (Figure 2). Since that time, repeat sampling has occurred biannually at these two sites.

JBR first sampled the two chosen study sites on May 31, 2001, and prepared a report for Lodestar (JBR, 2001). That sampling showed slightly better habitat conditions at the upstream site than the downstream site (JBR, 2001). Sampling at the two sites was repeated on October 24, 2001. Due to apparent misunderstandings and misinterpretations between JBR and the BYU lab responsible for sample analysis, the reports for this sampling event (JBR, 2002; Baumann, 2001) erroneously indicated slightly better habitat conditions at the downstream site in comparison to the upstream site. After further examination, however, it was determined that the upstream site was in slightly better condition than the downstream site after all.

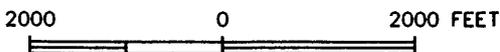
The two sites were again sampled on June 18, 2002; results are discussed in this report.



BASE: JUMP CREEK, UTAH, USGS 7.5' TOPO, 1979

HORIZON COAL

FIGURE 2
SITE MAP - MACRO INVERTEBRATE
SAMPLING LOCATIONS

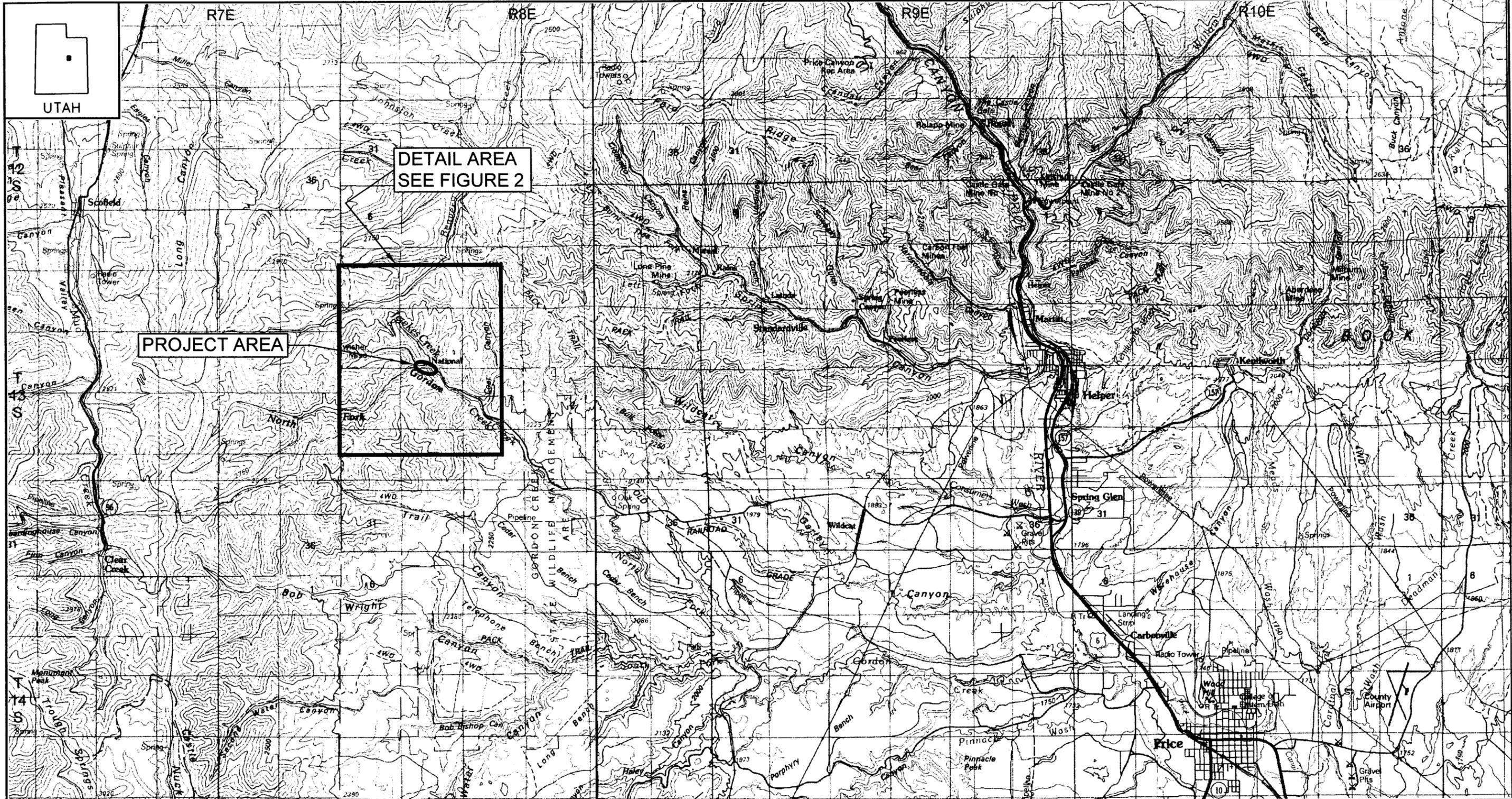


Jbr
Environmental consultants, inc.

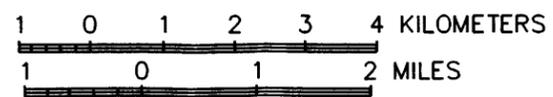
Salt Lake City, Utah Cedar City, Utah Reno, Nevada Elko, Nevada Boise, Idaho
 DESIGN BY MJ DRAWN BY CP CH'D BY SCALE 1" = 2000'

DATE DRAWN	8/23/01
REVISION	

LODESTAR\loadstar1-1.dwg



BASE: NEPHI AND PRICE, 1:100,000 USGS MAPS



HORIZON COAL

FIGURE 1
PROJECT LOCATION MAP

Jbr
environmental consultants, inc.
Salt Lake City, Utah Cedar City, Utah Reno, Nevada Elko, Nevada Boise, Idaho

DESIGN BY MJ	DRAWN BY CP	CH'D BY	SCALE 1:100,000
--------------	-------------	---------	-----------------

DATE DRAWN 10/4/01

REVISION	

LODESTAR\Loadstar1-2.dwg

2.0 Methods

The June 2002 macroinvertebrate sampling was conducted using the same methods as were used previously (JBR, 2001; JBR, 2002). Three separate sub-samples, or replicates, were collected at each station. A modified Surber sampler was placed in riffle areas in midstream flow at each site. After processing the substrate within the confines of the sampler, the contents of the net were transferred to a pan, debris was removed, a salt solution was used to wash the sample. The sample was then placed in a preserved bottle and transported to the entomology laboratory at Brigham Young University, where the macroinvertebrates were sorted, identified, counted and analyzed under the supervision of Dr. Richard W. Baumann.

3.0 Results

The entomology lab at Brigham Young University prepared a written report based upon their analyses of the submitted samples (Baumann, 2002). 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. The number of taxa (or richness) also relates to community composition (or diversity), and the Shannon-Weaver Diversity Index was used to indicate diversity. Data from Baumann's report are summarized below, and discussions of these data follow.

SUMMARY INFORMATION OF DATA FROM BAUMANN'S REPORT

Parameter	Stations	
	1	2
Total number of taxa	16	13
Density (mean number/square meter)	890	1607
Biomass (grams/square meter)	0.9	2.4
(Diversity) Shannon Weaver Index = d	2.1	1.3
Average Community Tolerance Quotient=CTQa	69	84
Predicted Community Tolerance Quotient = CTQp	60	60
Percent of Predicted = BCI	87	71

As shown in the above summary table, 16 separate taxa were collected at the upstream station and 13 were collected at the downstream station. Although greater numbers were found at the downstream station, diversity was higher at the upstream site (Station 1), as reflected by the Shannon Weaver Index.

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 above are simply arithmetic means of the tolerance quotients of the sampled macroinvertebrates. The upstream site had a CTQa of 69, and the downstream site had a value of 84.

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. BCIs of 87 and 71 for the upstream and downstream sites, respectively, indicate good and fair habitat conditions. This is down from the excellent conditions reported at both sites in fall 2001.

Overall, the data described above for the spring 2002 sampling indicates somewhat better habitat quality at the upstream site in comparison to the downstream site. However, the data set to date is still quite small, and any real site differences or time trends cannot yet be detected. The proximity of the two sites also hinders identification of site differences because of the potential for drift from the upstream site to the downstream site. Further, as indicated by Baumann, more than three replicate samples per monitoring event may be necessary to statistically detect and verify differences between the two sites.

4.0 Summary

The June 2002 macroinvertebrate sampling at two sites on North Fork Gordon Creek appears to show somewhat better habitat quality at the upstream site in comparison to the downstream site. Future sampling will provide additional data to further characterize the macroinvertebrate communities at these two locations.

5.0 References

Baumann, Richard W., July 2002. *Macroinvertebrate Studies on Gordan Creek, West of Helper, Carbon County, Utah - Samples Collected June 18, 2002*. Department of Zoology, Brigham Young University, Provo, Utah. Prepared for, and submitted to, JBR Environmental Consultants.

Baumann, Richard W., December 2001. *Macroinvertebrate Studies on Gordan Creek, West of Helper, Carbon County, Utah - Samples Collected October 25, 2001*. Department of Zoology, Brigham Young University, Provo, Utah. Prepared for, and submitted to, JBR Environmental Consultants.

JBR Environmental Consultants, January 2, 2002. *North Fork Gordon Creek Macroinvertebrate Sampling Results From Fall, 2001*.

JBR Environmental Consultants, October 8, 2001. *North Fork Gordon Creek Macroinvertebrate Sampling Results From Spring, 2001*.

Appendix A

Data Tables From Baumann's Report

Table 1. Macroinvertebrates obtained from North Fork, Gordon Creek, Carbon County, Utah, samples collected June 18, 2002

Organism	Trophic Level*	Tolerance Quotient	Stations	
			1	2
Ephemeroptera (Mayflies)				
Baetis	C-G	72	5	
Cinygmula	Shr	30	1	
Drunella grandis	Shr	32	9	1
Plecoptera (Stoneflies)				
Isoperla quinquepunctata	Pred	48	1	8
Amphinemura	C-G	6	44	
Pteronarcella badia	Shr	30	1	
Trichoptera (Caddisflies)				
Brachycentrus	Scr	54		26
Hydropsyche	C-F	108	2	27
Hydroptila	Scr	108		5
Hesperophylax	Scr	108	1	1
Rhyacophila	Pred	30	2	
Coleoptera (Beetles)				
Elmidae	C-G	104	2	2
Diptera (Flies)				
Chironomidae	C-G	108	135	354
Dicranota	Pred	36	1	
Empididae	Pred	95	2	
Hexatoma	Pred	36	1	13

Table 1. Continued				
Organism	Trophic Level*	Tolerance Quotient	Stations	
			1	2
Diptera (Flies) Continued				
Limnophora	Pred	66		1
Tipula	Shr	80	2	7
Gastropoda (Snails)				
Physa	Scr	108		2
Hirudinea (Leeches)	Pred	108	1	
Crustacea (Scuds)				
Gammarus	C-G	98	3	1

*C-F = collectors-filterers
 C-G = collectors-gatherers
 Pred = predators

Scr = scrapers
 Shr = shredders

Table 2. Summary of macroinvertebrate data from North Fork, Gordon Creek, Carbon County, Utah, samples collected June 18, 2002.		
Parameter	Stations	
	1	2
Total number of taxa	16	13
Mean number/square meter	890	1607
Standard Deviation	522	429
Grams/square meter	0.9	2.4
Dominance Community TQ=CTQd	72	82
Shannon Weaver Index = d	2.1	1.3
Average Community TQ=CTQa	69	84
Predicted Community TQ = CTQp	60	60
Percent of Predicted = BCI	87	71

<u>BCI</u>	<u>SCALE</u>	<u>CTQd</u>	<u>SCALE</u>
Above 90	Excellent	Below 60	Excellent
80-90	Good	60-70	Good
70-80	Fair	70-80	Fair
Below 70	Poor	Above 80	Poor

NOTE: Due to apparent misunderstandings and misinterpretations between JBR and the BYU lab responsible for sample analysis, Baumann (2001) erroneously refers to the above data as Site 1 representing the downstream site and Site 2 representing the upstream site. A similar reversal occurred in JBR's last report (JBR, 2002). The issue has now been resolved and future reports will accurately reflect site nomenclature.



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June 27, 2002

LODESTAR ENERGY INC.
333 WEST VINE STREET
SUITE 1700
LEXINGTON KENTUCKY 40507

Sample identification by
LODESTAR ENERGY INC.

ID:HORIZON MV-1

Kind of sample Water
reported to us

RECEIVED 1230
SAMPLED 0900

FIELD MEASUREMENTS

Sample taken at Horizon

FLOW 15 TEMP 11.8
COND 580 pH 8.3

Sample taken by K.P.

NOTES:
DIS.METALS
FILTERED @ LAB

Date sampled June 18, 2002

Date received June 18, 2002

Page 1 of 1

Analysis report no. 59-24136

Parameter	Result	MRL	Units	Method	Analyzed	
					Date/Time	Analyst
Alkalinity, Bicarbonate	264	5	mg/l as HCO ₃	EPA 310.1	06-20-2002	1245 DI
Alkalinity, Carbonate	<5	5	mg/l as CO ₃	EPA 310.1	06-21-2002	0720 DI
Alkalinity, Total	219	5	mg/l as CaCO ₃	EPA 310.1	06-21-2002	0720 DI
Anions	5.9	----	meq/l	-----	06-27-2002	0900 MK
Calcium, Total	62	1	mg/l	EPA 215.1	06-24-2002	0811 MK
Cations	6.0	----	meq/l	-----	06-27-2002	0900 MK
Chloride	8	0.5	mg/l	EPA 300.0	06-19-2002	1128 SC
Hardness, Total	282	----	mg/l as CaCO ₃	SM2340-B	06-27-2002	0900 MK
Iron, Total	0.1	0.1	mg/l	EPA 236.1	06-24-2002	1055 MK
Iron, Dissolved	<0.1	0.1	mg/l	EPA 236.1	06-24-2002	1131 MK
Magnesium, Total	31	1	mg/l	EPA 242.1	06-24-2002	0912 MK
Manganese, Total	<0.05	0.05	mg/l	EPA 243.1	06-24-2002	1208 MK
Manganese, Dissolved	<0.05	0.05	mg/l	EPA 243.1	06-24-2002	1242 MK
Oil & Grease	<2	2	mg/l	EPA 413.1	06-26-2002	0720 DI
Potassium, Total	2	1	mg/l	EPA 258.1	06-24-2002	1321 MK
Sodium, Total	6	1	mg/l	EPA 273.1	06-24-2002	1414 MK
Solids, Settleable	<0.1	0.1	ml/l	EPA 160.5	06-18-2002	1245 MK
Solids, Total Dissolved	323	10	mg/l	EPA 160.1	06-20-2002	0830 DI
Solids, Total Suspended	36	5	mg/l	EPA 160.2	06-20-2002	0830 DI
Sulfate	65	0.5	mg/l	EPA 300.0	06-19-2002	0840 SC
Cation/Anion Balance	0.4	----	%		06-27-2002	0900 MK

FAXED
6-27-02

Respectfully submitted,
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June 27, 2002

LODESTAR ENERGY INC.
333 WEST VINE STREET
SUITE 1700
LEXINGTON KENTUCKY 40507

Sample identification by
LODESTAR ENERGY INC.

ID:HORIZON MV-2

Kind of sample Water
reported to us

RECEIVED 1230
SAMPLED 0950

Sample taken at Horizon

FIELD MEASUREMENTS
FLOW 300 TEMP 13.0
COND 780 pH 8.5

Sample taken by K.P.

NOTES:
DIS.METALS
FILTERED @ LAB

Date sampled June 18, 2002

Date received June 18, 2002

Page 1 of 1

Analysis report no. 59-24137

Parameter	Result	MRL	Units	Method	Analyzed	
					Date/Time/Analyst	
Alkalinity, Bicarbonate	317	5	mg/l as HCO ₃	EPA 310.1	06-20-2002	1245 DI
Alkalinity, Carbonate	<5	5	mg/l as CO ₃	EPA 310.1	06-21-2002	0720 DI
Alkalinity, Total	26	5	mg/l as CaCO ₃	EPA 310.1	06-21-2002	0720 DI
Anions	8.0	----	meq/l	-----	06-27-2002	0900 MK
Calcium, Total	86	1	mg/l	EPA 215.1	06-24-2002	0811 MK
Cations	8.1	----	meq/l	-----	06-27-2002	0900 MK
Chloride	10	0.5	mg/l	EPA 300.0	06-19-2002	1128 SC
Hardness, Total	371	----	mg/l as CaCO ₃	SM2340-B	06-27-2002	0900 MK
Iron, Total	0.2	0.1	mg/l	EPA 236.1	06-24-2002	1055 MK
Iron, Dissolved	<0.1	0.1	mg/l	EPA 236.1	06-24-2002	1131 MK
Magnesium, Total	38	1	mg/l	EPA 242.1	06-24-2002	0912 MK
Manganese, Total	<0.05	0.05	mg/l	EPA 243.1	06-24-2002	1208 MK
Manganese, Dissolved	<0.05	0.05	mg/l	EPA 243.1	06-24-2002	1242 MK
Oil & Grease	2	2	mg/l	EPA 413.1	06-26-2002	0720 DI
Potassium, Total	5	1	mg/l	EPA 258.1	06-24-2002	1321 MK
Sodium, Total	12	1	mg/l	EPA 273.1	06-24-2002	1414 MK
Solids, Settleable	<0.1	0.1	ml/l	EPA 160.5	06-18-2002	1245 MK
Solids, Total Dissolved	462	10	mg/l	EPA 160.1	06-20-2002	0830 DI
Solids, Total Suspended	21	5	mg/l	EPA 160.2	06-20-2002	0830 DI
Sulfate	121	0.5	mg/l	EPA 300.0	06-19-2002	0840 SC
Cation/Anion Balance	0.4	----	%		06-27-2002	0900 MK

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6-27-02

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**NORTH FORK GORDON CREEK
MACROINVERTEBRATE
SAMPLING RESULTS
FALL, 2002**

**NOT YET AVAILABLE FROM
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November 4, 2002

LODESTAR ENERGY INC.
333 WEST VINE STREET
SUITE 1700
LEXINGTON KENTUCKY 40507

Sample identification by
LODESTAR ENERGY INC.

ID: MV-1

Kind of sample Water
reported to us

RECEIVED 1330
SAMPLED 1230

Sample taken at Horizon

FIELD MEASUREMENTS

FLOW 20 TEMP 5.7
COND 770 pH 8.30

Sample taken by KP

D.O. 3

Date sampled October 18, 2002

NOTES:

DIS.METALS

FILTERED @ LAB

Date received October 18, 2002

Page 1 of 1

Analysis report no. 59-24672

Parameter	Result	MRL	Units	Method	Analyzed	
					Date/Time/Analyst	
Alkalinity, Bicarbonate	317	5	mg/l as HCO ₃	EPA 310.1	10-25-2002 0750	BLP
Alkalinity, Carbonate	<5	5	mg/l as CO ₃	EPA 310.1	10-25-2002 0750	BLP
Alkalinity, Total	263	5	mg/l as CaCO ₃	EPA 310.1	10-25-2002 0750	BLP
Anions	7.3	----	meq/l	-----	11-04-2002 0915	SJ
Calcium, Total	80	1	mg/l	EPA 215.1	10-31-2002 1330	MK
Cations	7.4	----	meq/l	-----	11-04-2002 0915	SJ
Chloride	9	0.5	mg/l	EPA 300.0	10-22-2002 1052	BLP
Hardness, Total	356	----	mg/l as CaCO ₃	SM2340-B	11-04-2002 0915	SJ
Iron, Total	0.1	0.1	mg/l	EPA 236.1	10-31-2002 0752	MK
Iron, Dissolved	<0.1	0.1	mg/l	EPA 236.1	10-31-2002 0831	MK
Magnesium, Total	38	1	mg/l	EPA 242.1	10-31-2002 1412	MK
Manganese, Total	<0.05	0.05	mg/l	EPA 243.1	10-31-2002 0915	MK
Manganese, Dissolved	<0.05	0.05	mg/l	EPA 243.1	10-31-2002 1134	MK
Oil & Grease	<2	2	mg/l	EPA 413.1	10-29-2002 0900	DI
Potassium, Total	2	1	mg/l	EPA 258.1	10-30-2002 1426	MK
Sodium, Total	6	1	mg/l	EPA 273.1	10-30-2002 1534	MK
Solids, Settleable	<0.1	0.1	ml/l	EPA 160.5	10-18-2002 1530	BLP
Solids, Total Dissolved	416	10	mg/l	EPA 160.1	10-23-2002 1015	BLP
Solids, Total Suspended	8	5	mg/l	EPA 160.2	10-23-2002 1015	BLP
Sulfate	90	0.5	mg/l	EPA 300.0	10-22-2002 1052	BLP
Cation/Anion Balance	0.7	----	%		11-04-2002 0915	SJ

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November 4, 2002

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333 WEST VINE STREET
SUITE 1700
LEXINGTON KENTUCKY 40507

Sample identification by
LODESTAR ENERGY INC.

ID: MV-2

Kind of sample Water
reported to us

RECEIVED 1330
SAMPLED 1245

Sample taken at Horizon

FIELD MEASUREMENTS
FLOW 300 TEMP 11.8
COND 950 pH 8.20
D.O. 6

Sample taken by KP

NOTES:
DIS.METALS
FILTERED @ LAB

Date sampled October 18, 2002

Date received October 18, 2002

Page 1 of 1

Analysis report no. 59-24673

Parameter	Result	MRL	Units	Method	Analyzed		
					Date/Time	Analyst	
Alkalinity, Bicarbonate	338	5	mg/l as HCO ₃	EPA 310.1	10-25-2002 0750	BLP	
Alkalinity, Carbonate	<5	5	mg/l as CO ₃	EPA 310.1	10-25-2002 0750	BLP	
Alkalinity, Total	277	5	mg/l as CaCO ₃	EPA 310.1	10-25-2002 0750	BLP	
Anions	8.5	----	meq/l	-----	11-04-2002 0915	SJ	
Calcium, Total	92	1	mg/l	EPA 215.1	10-31-2002 1330	MK	
Cations	8.7	----	meq/l	-----	11-04-2002 0915	SJ	
Chloride	11	0.5	mg/l	EPA 300.0	10-22-2002 1052	BLP	
Hardness, Total	403	----	mg/l as CaCO ₃	SM2340-B	11-04-2002 0915	SJ	
Iron, Total	0.5	0.1	mg/l	EPA 236.1	10-31-2002 0752	MK	
Iron, Dissolved	<0.1	0.1	mg/l	EPA 236.1	10-31-2002 0831	MK	
Magnesium, Total	42	1	mg/l	EPA 242.1	10-31-2002 1412	MK	
Manganese, Total	0.07	0.05	mg/l	EPA 243.1	10-31-2002 0915	MK	
Manganese, Dissolved	<0.05	0.05	mg/l	EPA 243.1	10-31-2002 1134	MK	
Oil & Grease	<2	2	mg/l	EPA 413.1	10-29-2002 0900	DI	
Potassium, Total	6	1	mg/l	EPA 258.1	10-30-2002 1426	MK	
Sodium, Total	12	1	mg/l	EPA 273.1	10-30-2002 1534	MK	
Solids, Settleable	<0.1	0.1	ml/l	EPA 160.5	10-18-2002 1530	BLP	
Solids, Total Dissolved	499	10	mg/l	EPA 160.1	10-23-2002 1015	BLP	
Solids, Total Suspended	13	5	mg/l	EPA 160.2	10-23-2002 1015	BLP	
Sulfate	129	0.5	mg/l	EPA 300.0	10-22-2002 1052	BLP	
Cation/Anion Balance	1.1	----	%		11-04-2002 0915	SJ	

Respectfully submitted,
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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

APPENDIX D

Mine Maps

As required under R645-302-525-270

CONTENTS

Horizon Mine Escapeway & Mine Map (Year End 2002)

APPENDIX E

Other Information

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

CONTENTS

TABLE 7-1 (Continued)

WATER-LEVEL DATA OBTAINED FROM
LOCAL MONITORING WELLS

Date	HZ-95-1		HZ-95-1S		HZ-95-2		HZ-95-3		HZ-01-06-1	
	Depth (ft)*	Elevation (ft)								
12/5/95	--	--	135.0	8221.5	828.0	7519.6	--	--		
12/13/95	786.0	7570.7	--	--	--	--	--	--		
12/21/95	--	--	--	--	--	--	378.8	7522.7		
7/9-10/96	711.3	7585.4	133.8	8222.7	830.0	7517.6	380.8	7520.7		
8/5/96	770.8	7585.9	133.5	8223.0	829.4	7518.2	387.8	7513.7		
9/11/96	769.4	7587.3	132.5	8224.0	829.4	7518.2	387.7	7513.8		
10/23/96	776.4	7580.3	132.5	8224.0	829.2	7518.4	380.7	7520.8		
11/1/96	776.4	7580.3	132.5	8224.0	829.2	7518.4	380.8	7520.7		
12/13/96	#		#		829.5	7518.1	379.5	7522.0		
1/6/97	771.05	7584.75	133.0	8223.5						
2/10/97	+		+		+		+			
3/25/97	+		+		+		+			
4/1/97	+		+		+		+			
5/28/97	770.95	7584.9	131.5	8225.1	828.05	7519.55	379.9	7522.4		
6/30/97	770.2	7585.6	132.14	8224.36	827.72	7519.88	379.9	7522.4		
9/16/97	773.5	7583.9	132.5	8224.0	827.2	7520.4	379.9	7522.4		
10/17/97	773.7	7583.7	132.5	8224.0	827.2	7520.4	379.9	7522.4		
6/30/98	817.8	7538.9	133.1	8223.4	836.6	7511.0	395.1	7506.4		
9/1/98	745.0	7611.7	134.5	8222.0	840.9	7506.7	398.0	7503.5		
6/1/99	758.8	7597.9	133.7	8222.8	847.8	7499.8	399.5	7502.0		
7/1/99	758.1	7598.6	134.4	8222.1	845.9	7501.7				
11/1/99	+		+		+		397.0	7504.5		
5/20/00	862.7	7494.0	132.8	8223.7	849.8	7497.8	401.5	7500.0		
9/8/00							402.1	7499.4		
9/26/00	875	7481.7	134.4	8222.1	863.8	7483.8				
10-12/31/00	\$		\$		\$		\$			
12/12/00	+		+		+		+			
3/23/01	+		+		+		+			
5/31-6/1/01	870.55	7486.15	133.75	8222.75	856.75	7490.85	414.17	7487.33		
9/20/01	876.85	7479.85	134.5	8222	862.4	7485.2	416.1	7485.4		
10/19/01	873.36	7483.34	134.65	8221.85	858.71	7488.89	415.7	7485.8		
11/17/01									944.2	7817.2
2/18/02	@		@		@		@		@	
3/25/02	@		@		@		@		@	
6/12/02	876.68	7480.02	135.08	8221.42	867.38	7480.22	458.12	7443.38	1029.6	7731.82
9/4/02	876.85	7479.85	136.37	8220.13	869.28	7478.32	%465.1	%7436.4	1036.9	7724.55
10/8/02	876.55	7480.15	136	8220.5	869.65	7477.95	%465.1	%7436.4	1037.5	7723.95

* Depth measured from top of 2" tubing
 # Well site inaccessible 12/16/96, access attempted with Bill Malencik, UDOGM
 + Mine site declared inaccessible by Bill Malencik
 \$ Landowner refused access until pending agreement was completed.
 @ Inaccessible due to snow cover
 % Dry

	Surface Elevations		
	Top of 6 Casing	Top of 2" Tubing	Ground Elevation
HZ-95-1	8357.1	8356.7	8352.6
HZ-95-1S	8357.6	8356.5	8352.6
HZ-95-2	8348.1	8347.6	8346.3
HZ-95-3	7902.2	7901.5	7897.6
HZ-01-06-1		8761.4	8759.4



**Department of Environmental Quality
Division of Water Quality**

Michael O. Leavitt
Governor

Dianne R. Nielson, Ph.D.
Executive Director

Don A. Ostler, P.E.
Director

288 North 1460 West
P.O. Box 144870
Salt Lake City, Utah 84114-4870
(801) 538-6146
(801) 538-6016 Fax
(801) 536-4414 T.D.D.
www.deq.utah.gov

Vickie Miller
18 Maple Street
Helper UT 84526

RE: Compliance Monitoring
UTG040019

The Utah Division of Water Quality grab sampled your wastewater discharge, Storet No. 493152 (LOADSTAR HORIZON COAL 002 MINE WATER) on 8/20/2002 and obtained the following results.

	<u>Value</u>	<u>UOM</u>	<u>Fraction</u>	<u>Limit</u>	<u>UOM</u>
Field Tests					
Dissolved oxygen (DO)	7.31	mg/l	Total		()
Dissolved oxygen saturation	85.6	%	Total		()
Flow	1	cfs			()
Salinity	0.4	ppt	Total		()
Specific conductance	735	umho/cm			()
Temperature, water	15.39	deg C			()
pH	8.28	None	Total		()
Labratory Analysis					
Dissolved Solids	442.	mg/l			()
Iron	.0681	mg/l	Total		()
Total Suspended Solids (TSS)	*Non-detect			4.	mg/l ()

For your information the values for those parameters checked (X) appear to exceed your permit limits.

Sincerely,

Chris Imbrogno
Environmental Scientist
Permits and Compliance Section
Division of Water Quality