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# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

BRIAN C. STEED  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

June 30, 2020

Karin Madsen, Resident Agent  
Genwal Resources, Inc.  
P.O. Box 910  
East Carbon, Utah 84520

Subject: 2019 Annual Report Review Completion, Genwal Resources, Inc., Crandall Canyon Mine, C/015/0032, Task #6090

Dear Ms. Madsen:

The Division has completed the review of the 2019 Annual Report.

The Permittee must provide the Burma Pond survey report or a statement of the surveyed elevation in 2019.

Please provide a response by July 14, 2020,

If you have any questions, please feel free to call me at (801) 538-5350.

Sincerely,

A handwritten signature in black ink, appearing to read "Steve Christensen".

Steve Christensen  
Coal Program Manager

SKC/sqs  
Enclosure  
O:\015032.CRA\WG6090 ANNUAL REPORT\AR Review.doc



# 2019 ANNUAL REPORT

Submit the completed document and any additional information identified to the Division by March 31, 2020.

## GENERAL INFORMATION

Company Name	Genwal Resources Inc.	Mine Name	Crandall Canyon Mine
Permit Number	C/015/0032	Permit Expiration Date	5-13-23
Operator Name	Genwal Resources	Phone Number	+1 (435) 888-4000
Mailing Address	PO Box 910	Email	kmadsen@coalsource.com
City	East Carbon		
State	UT	Zip Code	84520

## DOGM File Location or Annual Report Location

Excess Spoil Piles	<input type="checkbox"/> Required <input checked="" type="checkbox"/> Not Required	
Refuse Piles	<input type="checkbox"/> Required <input type="checkbox"/> Not Required	
Impoundments	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required	Sediment pond annual certifications are included.
Other:		

## OPERATOR COMMENTS

**REVIEWER COMMENTS**     Met Requirements     Did Not Meet Requirements

2019 Impoundment inspection dates are as follows:

Quarter 1

Lower Crandall - 3/20/2019, Sediment level: 7766.3' (60% cleanout = 7769.0')

Burma Pond - 3/20/2019

Quarter 2

Lower Crandall - 6/28/2019, Sediment level: 7766.3'

Burma Pond - 6/28/2019

Quarter 3

Lower Crandall - 9/25/2019, Sediment level: 7766.3'

Burma Pond - 9/25/2019

Quarter 4

Lower Crandall - 12/11/2019, Sediment level: buried by snow

Burma Pond - 12/11/2019

No signs of structural weakness or instability were evident at either impoundment in 2019.

(Jeatchel - 4/2/2020)

# COMMITMENTS AND CONDITIONS

The Permittee is responsible for ensuring annual technical commitments in the Mining and Reclamation Plan and conditions accepted with the permit are completed throughout the year. The Division has identified these commitments below and has provided space for you to report what you have done during the past year for each commitment. If additional written response is required, it should be filed as an attachment to this report.

**Title: MACROINVERTEBRATE SAMPLING**

**Objective:** To monitor macroinvertebrate populations in Crandall Creek

**Frequency:** Spring and Fall beginning in 2009

**Status:** Annually

**Reports:** Submit surveys in annual report

**Citation:** Chapter 3, page 3-17

**OPERATOR COMMENTS**

Macro-invertebrate study completed by EIS for the Spring and Fall of 2019. Reports included.

**REVIEWER COMMENTS**

Met Requirements



Did Not Meet Requirements

Macroinvertebrate studies were completed in the spring and fall of 2019. The studies are done in three reaches of Crandall Creek, one upstream of the mine to act as a control, one just below the discharge point of the mine, and one farther downstream. Surveys are completed to be used as potential indicators of water quality and overall health of the creek.

The results of the survey, similar to previous years, "show variability among all the sampled reaches and generally show reduced habitat quality and less than optimal conditions in all sampled locations." The upper reach, the control, appears to have decreased in quality standards over the last year while the lower reach has improved since 2009. The overall quality of the middle reach is generally lower than the other two reaches. The results of this study fluctuate from season to season and year to year and are likely due to a number factors such as increased beaver dams, variability of substrate and habitat, heavy precipitation events, as well as potential impacts from recent catastrophic fires and flooding. TM

**Title: SUBSIDENCE MONITORING**

**Objective:** To determine subsidence effects from mining. Please provide a map that shows the locations of the monitoring points to compare variations due to mining.

**Frequency:** Annually

**Status:** Ongoing

**Reports:** Submit surveyed monitoring data and map to Division annually

**Citation:** Chapter 5, Section 5.25.14, page 5-25

**OPERATOR COMMENTS**

Subsidence monitoring completed by Ware Surveying. Report included.

**REVIEWER COMMENTS**

Met Requirements



Did Not Meet Requirements

A differential level subsidence survey was completed by Ware Surveying & Engineering on September 19, 2019. The accompanying report documents the vertical displacement for dozens of points located at various locations above the main mine workings as well as the East Mountain Reclaimed Slide Area. Most of the surveyed locations do not display any movement but a few show evidence of having moved very slightly. The maximum subsidence was 2.28 inches above station 10 within the East Mountain slide area. Several

additional points displayed subsidence of 1 - 2 inches. The report states that stations 4 and 5 in the East Mountain Slide Area have been destroyed. (Jeatchel - 4/2/2020)

**Title: BURMA POND INFORMATION/SAMPLING**

**Objective:** Provide report of accumulated depth of sludge in the Burma Evaporation Pond. Grab samples to obtained every five years or when 7.5" of solid waste has been deposited. Grab Samples to be analyzed for all RCRA metals.

**Frequency:** Annually or at five year intervals. (First report was submitted with the 2016 annual report.)

**Status:** Ongoing

**Reports:** Include in Annual Report

**Citation:** Appendix 7-66, page 7

**OPERATOR COMMENTS**

Sampling was completed by Mt Nebo in 2016. Will sample Burma again in 2021.

**REVIEWER COMMENTS**

Met Requirements

Did Not Meet Requirements

4/23/2020, PB. Burma Pond certified inspection completed on 12/25/2019 is included on pdf page 196 of the annual report. This report states that the Burma Pond was recently surveyed, but surveyor's report was not available in December at the time of the report. Since grab samples are to be taken with every 7.5 inch accumulation, or five years, whichever comes first, please comment on the survey elevation change or provide the survey elevation since 2016.

# FUTURE COMMITMENTS AND CONDITIONS

The following commitments are not required for the current annual report year, but will be required by the permittee in the future as indicated by the "status" field. These commitments are included for information only, and do not currently require action. If you feel that the commitment is no longer relevant or needs to be revised, please contact the Division.

## **Title: RECLAMATION OF CULVERT**

**Objective:** To reclaim part of the culvert section of the stream which provided habitat to the cutthroat trout population. And enhancement of the stream below the mine discharge point due to the impact on the stream habitat and aquatic wildlife that occurred because of the iron-laden water discharge.

**Frequency:** Once during reclamation.

**Status:** To be done during reclamation.

**Reports:** Submitted to the Division upon project completion.

**Citation:** Chapter 3, page 3-16

## **Title: RAPTOR SURVEYS**

**Objective:** To monitor raptor activity and nesting within and adjacent to the permit area.

**Frequency:** Every three years, or annually if a.) UDWR recommends it, b.) it will not unduly harass raptors, or c.) it is prudent to insure raptor safety and/or habitat. Raptor surveys are not required if the mine is not active AND no significant activity is taking place.

**Status:** Surveys required prior to installation of any discharge treatment facilities or prior to reclamation work.

**Reports:** Annual Report

**Citation:** Chapter 3, page 3-17

# REPORTING OF OTHER TECHNICAL DATA

Please list other technical data or information that was not included in the form above, but is required under the approved plan, which must be periodically submitted to the Division.

Please list attachments:

**REVIEWER COMMENTS**

Met Requirements

Did Not Meet Requirements

# MAPS

Copies of mine maps, current and up-to-date, are to be provided to the Division as an attachment to this report in accordance with the requirements of R645-301-525.240. The map copies shall be made in accordance with 30 CFR 75.1200 as required by MSHA. Mine maps are not considered confidential.

Map Name	Map Number	Included		Confidential	
		Yes	No	Yes	No
Annual Subsidence Map	Not Required	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mine Map	Included	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>	<input type="checkbox"/>

**REVIEWER COMMENTS**    Met Requirements                       Did Not Meet Requirements

A mine map for the Crandall Canyon Mine has been provided and displays all of the development mining and longwall panels associated with the production of coal during the time the mine was active. The mine did not produce coal in 2019. Overburden isopach contours drawn over the underground workings indicate the depth of cover across the entire permit area. The map has been stamped and signed by J. Thomas Paluso, Professional Engineer in the State of Utah. (Jeatchel - 4/2/2020)