

# DMR Copy of Record

**Permit:** CO0000132  
**Permit #:** No  
**Major:** External Outfall  
**Permitted Feature:** 009 External Outfall  
**Facility:** SANBORN CRK & ELK CRK MINES  
**Facility Location:** 3737 HIGHWAY 133 SOMERSET, CO 81434

**Permittee:** Oxbow Mining LLC  
**Permittee Address:** PO Box 535 Somersett, CO 81434-0535  
**Discharge:** 009-A Surface Runoff to N Fork of Gunnison River  
**DMR Due Date:** 07/28/21  
**Status:** NetDMR Validated

**Monitoring Period:** From 06/01/21 to 06/30/21  
**Quantity or Loading:** 30 day avg is highest monthly avg during period reported.

**Principal Executive Officer:** MIKE LUDLOW  
**Title:** PRESIDENT  
**Telephone:** 970-929-5122

**Form NODI:** No Data Indicator (NODI)

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Sample Permit Rec. Value NODI	Qualifier 1	Value 1	Qualifier 2	Value 2	Quantity or Loading	Qualifier 3	Value 3	Units	# of Ex.	Frequency of Analysis	Sample Type
00400	pH	1 - Effluent Gross	0	--	Sample Permit Rec. Value NODI	>=	6.5 MINIMUM C - No Discharge	<=	9.0 MAXIMUM C - No Discharge	12 - SU				01/30	Monthly	GR - GRAB
00500	Solids, total suspended	1 - Effluent Gross	0	--	Sample Permit Rec. Value NODI	<=	35.0 30DA AVG C - No Discharge	<=	70.0 MX 7D AV C - No Discharge	19 - mg/L				01/30	Monthly	GR - GRAB
00980	Iron, total recoverable	1 - Effluent Gross	0	--	Sample Permit Rec. Value NODI	<=	3000.0 30DA AVG C - No Discharge	<=	6000.0 DAILY MX C - No Discharge	28 - ug/L				01/30	Monthly	GR - GRAB
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample Permit Rec. Value NODI		0.039 30DA AVG C - No Discharge		Req Non-DAILY MX C - No Discharge	03 - MGD				01/30	Monthly	IN - INSTAN

## Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

## Edit Check Errors

No errors.

## Comments

GHGSMITHOXBOW

Douglas Smith

doug.smith@oxbow.com

2021-07-06 11:01 (Time Zone: -06:00)

## Attachments

No attachments.

## Report Last Saved By

Oxbow Mining LLC

## User:

GHGSMITHOXBOW

Douglas Smith

doug.smith@oxbow.com

2021-07-06 11:03 (Time Zone: -06:00)

## Report Last Signed By

User:

Name:

E-Mail:

Date/Time:

User:

Name:

E-Mail:

Date/Time:

**DMR Copy of Record**

Permit #: **CO0000132**  
 Major: **No**  
 Permitted Feature: **009 External Outfall**

Permittee: **Oxbow Mining LLC**  
 Permittee Address: **PO Box 535  
 Somerset, CO 81434-0535**  
 Discharge: **009-Q  
 Quarterly Monitoring for 001A**

Facility: **SANBORN CRK & ELK CRK MINES**  
 Facility Location: **3737 HIGHWAY 133  
 SOMERSET, CO 81434**

Report Dates & Status  
 Monitoring Period: **From 04/01/21 to 06/30/21**  
 Considerations for Form Completion  
 Quarterly monitoring - see Appendix B, #34, pg 17.

Status: **Not DMR Validated**

Principal Executive Officer

Title: **PRESIDENT**

Telephone: **970-929-5122**

First Name: **MIKE**  
 Last Name: **LUDLOW**

Form NODI: **-**

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading			# of Ex. Frequency of Analysis	Sample Type
					Qualifier 1	Qualifier 2	Qualifier 3		
00940	Chloride [as Cl]	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon 30DA AVG	19 - ug/L	01/90 - Quarterly	GR - GRAB
00978	Anaemic, total recoverable	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon 30DA AVG	28 - ug/L	01/90 - Quarterly	GR - GRAB
01056	Manganese, dissolved [as Mn]	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon 30DA AVG	28 - ug/L	01/90 - Quarterly	GR - GRAB
01074	Nickel, total recoverable	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon 30DA AVG	28 - ug/L	01/90 - Quarterly	GR - GRAB
01114	Lead, total recoverable	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon DAILY MX	28 - ug/L	01/90 - Quarterly	GR - GRAB
01118	Chromium, total recoverable	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon DAILY MX	28 - ug/L	01/90 - Quarterly	GR - GRAB
01303	Zinc, potentially dissolved	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon DAILY MX	28 - ug/L	01/90 - Quarterly	GR - GRAB
01306	Copper, potentially dissolved	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon DAILY MX	28 - ug/L	01/90 - Quarterly	GR - GRAB
01314	Chromium, trivalent, potentially dissolved	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon 30DA AVG	28 - ug/L	01/90 - Quarterly	GR - GRAB
01318	Lead, potentially dissolved	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon 30DA AVG	28 - ug/L	01/90 - Quarterly	GR - GRAB
01319	Manganese, potentially dissolved	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon 30DA AVG	28 - ug/L	01/90 - Quarterly	GR - GRAB
01322	Nickel, potentially dissolved	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon 30DA AVG	28 - ug/L	01/90 - Quarterly	GR - GRAB
01323	Selenium, potentially dissolved	1 - Effluent Gross	0	-	Sample Permit Req. Value NODI	Req Mon 30DA AVG	28 - ug/L	01/90 - Quarterly	GR - GRAB

Sample Permit Req. Value NODI	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	28 - ug/L	01/90 - Quarterly	GR - GRAB
04262 Chromium, trivalent total recoverable	1 - Effluent Gross 0	--			
50286 Mercury, total [low level]	1 - Effluent Gross 0	--			
51202 Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross 0	--			
81020 Sulfate	1 - Effluent Gross 0	--			
82057 Boron, total	1 - Effluent Gross 0	--			

Req Mon 30DA AVG C - No Discharge

Req Mon 30DA AVG C - No Discharge

Req Mon 30DA AVG C - No Discharge

Req Mon 30DA AVG C - No Discharge

Req Mon 30DA AVG C - No Discharge

Req Mon 30DA AVG C - No Discharge

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**Submission Note**  
 If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**

**No errors.**

**Comments**

**Attachments**

**No attachments.**

**Report Last Saved By**

Oxbow Mining LLC

**User:**

GHGSMITHOXBOW

**Name:**

Douglas Smith

**E-Mail:**

doug.smith@oxbow.com

**Date/Time:**

2021-07-06 11:00 (Time Zone: -06:00)

**Report Last Signed By**

GHGSMITHOXBOW

**User:**

Douglas Smith

**E-Mail:**

doug.smith@oxbow.com

**Date/Time:**

2021-07-06 11:03 (Time Zone: -06:00)

# DMR Copy of Record

Permit

Permit #: **CO0000132**  
 Major: No  
 Facility Location: **SANBORN CRK & ELK CRK MINES**  
 3737 HIGHWAY 133  
 SOMERSET, CO 81434

Permitted Feature: **012 External Outfall**  
 Discharge: **012-A Sediment Pond to Elk Creek**

Report Dates & Status: **From 06/01/21 to 06/30/21**  
 Monitoring Period: **07/28/21**  
 Status: **NetDMR Validated**

Considerations for Form Completion: **TSS & Total Recoverable Iron limits will be waived, and Settleable Solids Lmt applied for <= 10yr 24hr precip event. 30 day avg is highest monthly avg during period reported. Report calculated SAR at MLOC=EG; adjusted SAR at MLOC=P.**

Principal Executive Officer: **MIKE LUDLOW**  
 Title: **PRESIDENT**  
 Telephone: **970-929-5172**

First Name: **MIKE**  
 Last Name: **LUDLOW**

Form NODI: **No Data Indicator (NODI)**

Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Sample Permit Req. Value NODI	Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 3	Value 3	Units	# of Ex. Frequency of Analysis	Sample Type
00010	Temperature, water deg. centigrade	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI									9999 - Continuous	RC - Recorder (auto)
00094	Conductivity	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI									Req Mon DAILY MX 04 - deg C C - No Discharge	78 - dS/m C - No Discharge
00400	pH	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI									Req Mon 30DA AVG C - No Discharge	9.0 MAXIMUM C - No Discharge
00440	Bicarbonate Ion- [as HCO3]	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI									Req Mon DAILY MX 19 - mg/L C - No Discharge	12 - SU 01/30 - Monthly GR - GRAB
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI									Req Mon 30DA AVG C - No Discharge	45.0 MX 7D AV 19 - mg/L 01/30 - Monthly GR - GRAB
00918	Calcium, total recoverable	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI									Req Mon DAILY MX 19 - mg/L C - No Discharge	6.5 MINIMUM C - No Discharge
00921	Magnesium, total recoverable	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI									Req Mon DAILY MX 19 - mg/L C - No Discharge	30.0 30DA AVG C - No Discharge
00923	Sodium, total recoverable	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI									Req Mon DAILY MX 19 - mg/L C - No Discharge	Req Mon DAILY MX 19 - mg/L C - No Discharge
00931	Sodium adsorption ratio	EG - Effluent Gross	0	--	Sample Permit Req. Value NODI									Req Mon DAILY MX 10 - Ratio C - No Discharge	Req Mon DAILY MX 10 - Ratio C - No Discharge
00940	Chloride [as Cl]	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI									Req Mon DAILY MX 10 - Ratio C - No Discharge	Req Mon DAILY MX 10 - Ratio C - No Discharge
00978	Amesnic, total recoverable	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI									Req Mon DAILY MX 10 - Ratio C - No Discharge	Req Mon DAILY MX 10 - Ratio C - No Discharge
00980	Iron, total recoverable	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI									Req Mon DAILY MX 10 - Ratio C - No Discharge	Req Mon DAILY MX 10 - Ratio C - No Discharge

01046	Iron, dissolved [as Fe]	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon 30DA AVG C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01056	Manganese, dissolved [as Mn]	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon 30DA AVG C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01074	Nickel, total recoverable	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon 30DA AVG C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01118	Chromium, total recoverable	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01303	Zinc, potentially dissolved	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01306	Copper, potentially dissolved	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01313	Cadmium, potentially dissolved	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01314	Chromium, trivalent, potentially dissolved	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon 30DA AVG C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01318	Lead, potentially dissolved	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01319	Manganese, potentially dissolved	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01322	Nickel, potentially dissolved	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
01323	Selenium, potentially dissolved	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
03582	Oil and grease	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	19 - mg/L	02/30 - Twice Per Month GR - GRAB
04262	Chromium, trivalent total recoverable	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	19 - mg/L	02/30 - Twice Per Month GR - GRAB
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon DAILY MX C - No Discharge	03 - MGD	01/30 - Monthly IN - INSTAN
50286	Mercury, total [low level]	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon 30DA AVG C - No Discharge	28 - ug/L	02/30 - Twice Per Month GR - GRAB
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon 30DA AVG C - No Discharge	19 - mg/L	02/30 - Twice Per Month GR - GRAB
81020	Sulfate	1 - Effluent Gross	0	--	Sample Permit Req. Value NODI	Req Mon 30DA AVG C - No Discharge	19 - mg/L	02/30 - Twice Per Month GR - GRAB

82057	Baron, total	1 - Effluent Gross	0	--	Sample Permit Req; Value NODI	Req Mon 30DA AVG C - No Discharge	19 - mg/L	02/30 - Twice Per Month GR - CFA8
84066	Oil and grease visual	1 - Effluent Gross	0	--	Sample Permit Req; Value NODI	Req Mon INST MAX 9P - N=0;Y=1 C - No Discharge	01/30 - Monthly	VI - VISUAL

**Submission Note**

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**

No errors.

**Comments**

**Attachments**

No attachments.

**Report Last Saved By**

Oxbow Mining LLC

**User:**

GHGSMITHOBOW

**Name:**

Douglas Smith

**E-Mail:**

doug.smith@oxbow.com

**Date/Time:**

2021-07-06 11:00 (Time Zone: -06:00)

**Report Last Signed By**

**User:**

GHGSMITHOBOW

**Name:**

Douglas Smith

**E-Mail:**

doug.smith@oxbow.com

**Date/Time:**

2021-07-06 11:03 (Time Zone: -06:00)

# DMR Copy of Record

**Permit #:** CO0000132  
**Major:** No  
**Permitted Feature:** 012 External Outfall  
**Report Dates & Status:** From 04/01/21 to 06/30/21  
**Monitoring Period:** From 04/01/21 to 06/30/21  
**Considerations for Form Completion:** Quarterly monitoring - see Appendix B, #34, pg 17.  
**Principal Executive Officer:** MIKE LUDLOW  
**First Name:** MIKE  
**Last Name:** LUDLOW  
**No Data Indicator (NODI):** -  
**Form NODI:** -

**Permittee:** Oxbow Mining LLC  
**Permittee Address:** PO Box 535 Somersel, CO 81434-0535  
**Discharge:** 012-Q Quarterly Monitoring for 012A  
**DMR Due Date:** 07/28/21  
**Status:** NetDMR Validated  
**Facility:** SANBORN CRK & ELK CRK MINES  
**Facility Location:** 3737 HIGHWAY 133 SOMERSET, CO 81434  
**Title:** PRESIDENT  
**Telephone:** 970-929-5122

Code	Parameter Name	Monitoring Location	Season #	Pavem.	NODI	Quantity or Loading	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units	# of Ex.	Frequency of Analysis	Sample Type
70295	Solids, total dissolved	1 - Effluent	Gross	0	--											GR - GRAB

**Req Mon 30DA AVG** C - No Discharge  
**Req Men DAILY MAX** 19 - mg/L  
**01/99 - Quarterly** C - No Discharge

## Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

## Edit Check Errors

No errors.

## Comments

No comments.

## Attachments

No attachments.

## Report Last Saved By

Oxbow Mining LLC

## User:

GHGSMITHOXBOW

## Name:

Douglas Smith

## E-Mail:

doug.smith@oxbow.com

## Date/Time:

2021-07-06 10:59 (Time Zone: -06:00)

## Report Last Signed By

GHGSMITHOXBOW

## Name:

Douglas Smith

## E-Mail:

doug.smith@oxbow.com

## Date/Time:

2021-07-06 11:03 (Time Zone: -06:00)

**DMR Copy of Record**

**Permit #:** C00000132  
**Major:** No  
**Permitted Feature:** 012 External Outfall  
**Report Dates & Status:**  
**Monitoring Period:** From 04/01/21 to 06/30/21  
**Considerations for Form Completion:**  
 See I.D. 1 for details of test procedure. Rpt NOEC using test code "S", Rpt IC25 using test code "P". Beginning 10-1-21, rpt highest number between "P" and "S" at "T" for each parameter. IWC=100%  
**Principal/ Executive Officer:** MIKE LUDLOW  
**Form NODI:** --

**Permittee:** Oxbow Mining LLC  
 PO Box 535  
 Somerset, CO 81434-0535  
**Discharge:** 012-X  
 Chronic WET Testing for 012A  
**DMR Due Date:** 07/28/21  
**Status:** NetDMR Validated  
**Telephone:** 970-925-5122

**Facility:** SANBORN CRK & ELK CRK MINES  
 3737 HIGHWAY 133  
 SOMERSET, CO 81434  
**Quantity or Loading:**  
 Qualifier 1 Value 1 Qualifier 2 Value 2 Qualifier 3 Value 3 Units # of Ex, Frequency of Analysis Sample Type  
**Req Mon SINGSAMP** 2G - tox chronic 0190 - Quarterly G3 - GRAB-3  
 C - No Discharge  
**Req Mon MN VALUE** 2G - tox chronic 0190 - Quarterly G3 - GRAB-3  
 C - No Discharge  
**Req Mon SINGSAMP** 2G - tox chronic 0190 - Quarterly G3 - GRAB-3  
 C - No Discharge  
**Req Mon MN VALUE** 2G - tox chronic 0190 - Quarterly G3 - GRAB-3  
 C - No Discharge

**Sample Permit Req. Value NODI**  
**Sample Permit Req. Value NODI**  
**Sample Permit Req. Value NODI**  
**Sample Permit Req. Value NODI**

**Monitoring Location:** P - See Comments 0 --  
**Seasons # Param. NODI**  
 S - See Comments 0 --  
 P - See Comments 0 --  
 S - See Comments 0 --

**Submission Note**  
 If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.  
**Edit Check Errors**  
 No errors.  
**Comments**  
 Attachments  
 No attachments.  
**Report Last Saved By**  
 Oxbow Mining LLC  
**User:** GHGSMITHXBOW  
**Name:** Douglas Smith  
**E-Mail:** doug.smith@oxbow.com  
**Date/Time:** 2021-07-06 10:59 (Time Zone: -06:00)  
**Report Last Signed By**  
**User:** GHGSMITHXBOW  
**Name:** Douglas Smith  
**E-Mail:** doug.smith@oxbow.com  
**Date/Time:** 2021-07-06 11:03 (Time Zone: -06:00)