

OXBOW MINING, LLC



3737 Hwy 133 P.O. Box 535 Somerset, Colorado 81434 USA Tel (970)929-5122 Fax (970)929-5177

January 6, 2020

Mr. Leigh Simmons
Environmental Protection Specialist
Colorado Division of Reclamation, Mining and Safety
1313 Sherman Street, Room 215
Denver, Colorado 80203

**Re: Oxbow Mining, LLC., CDRMS Permit C-1981-022,
4th Quarter 2019 Pond Inspection Report and 4th Quarter 2019 Coal Mine Refuse
Pile Inspection Report.**

Dear Mr. Simmons:

Enclosed are copies of the 4th Quarter 2019 Pond Inspection Report, and the 4th Quarter 2019 Coal Mine Refuse Report for the Division's records. Note that the reports indicate no issues or major concerns with these regulated facilities.

Please also note that the West Valley and II West Refuse piles were both completed in connection with our continuing reclamation activities. The refuse piles were capped with topsoil, drainages were completed and the disturbed areas were seeded during third quarter of 2018.

Please call me at 970-929-6034 if you have any comments or questions.

Sincerely,

Doug A. Smith
Chief Engineer

Attachments

Xc: Mike Ludlow (OMLLC)
Files



FOURTH QUARTER 2019 POND INSPECTION REPORT

Pond Inspection Date: December 11, 2019

OPERATOR:	Oxbow Mining, LLC.		
MINE:	Elk Creek Mine and Surface Facilities		
POND IDENTIFICATION:	<u>Hubbard</u>	<u>Substation #3</u>	<u>Pond D</u>
CDPS NUMBER:	007	013	016
TYPE OF POND:	Sediment	Sediment	Sediment
APPROXIMATE WATER LEVEL:	0.0'	0.1'	Pond Removed
SEDIMENT (% total storage):	<5%	<5%	<5%
OUTFLOW:	None	None	None
FEATURES	PROBLEM	PROBLEM	PROBLEM
EROSIONAL			
Rills & Gullies	No	No	No
Inadequate Vegetation	No	No	No
Outlet Channel Erosion	No	No	No
Burrows	No	No	No
Other	No	No	No
STRUCTURAL			
Differential Settling	No	No	No
Cracks or Slides	No	No	No
Seepage	No	No	No
Other	No	No	No
APPURTENANT STRUCTURES			
Defective Spillways	No	No	No
Dewatering Devices Clogged	No	No	No
Faulty Gates, Etc.	No	No	No
Other	No	No	No
MAINTENANCE REQUIRED	No	No	No
REFERENCE DRAWINGS:	2.05-M5E	2.05-M5F	2.05-M5D 2.05-M6

Inspected By: _____

Doug A. Smith
Doug A. Smith



FOURTH QUARTER 2019 POND INSPECTION REPORT

Pond Inspection Date: December 11, 2019

OPERATOR: Oxbow Mining, LLC.
MINE: Elk Creek Mine and Surface Facilities

POND IDENTIFICATION:	<u>Pond A1</u>	<u>Pond B</u>	<u>Pond C</u>	<u>East Yard</u>
CDPS NUMBER	009	012	014	010
TYPE OF POND:	Sediment	Sediment	Sediment	Sediment
APPROXIMATE WATER LEVEL:	0.1'	1.0'(6061')	0.0'	0.1'
SEDIMENT (% total storage):	<5%	<5%	<5%	<5%
OUTFLOW:	None	None	None	None

FEATURES	PROBLEM	PROBLEM	PROBLEM	PROBLEM
EROSIONAL				
Rills & Gullies	No	No	No	No
Inadequate Vegetation	No	No	No	No
Outlet Channel Erosion	No	No	No	No
Burrows	No	No	No	No
Other	No	No	No	No
STRUCTURAL				
Differential Settling	No	No	No	No
Cracks or Slides	No	No	No	No
Seepage	No	No	No	No
Other	No	No	No	No
APPURTENANT STRUCTURES				
Defective Spillways	No	No	No	No
Dewatering Devices Clogged	No	No	No	No
Faulty Gates, Etc.	No	No	No	No
Other	No	No	No	No
MAINTENANCE REQUIRED	No	No	No	No
REFERENCE DRAWINGS:	2.05-M5A	2.05-M5B	2.05-M5C	2.05-M5E

Inspected By: _____

Doug A. Smith
Doug A. Smith



FOURTH QUARTER 2019 POND INSPECTION REPORT

Pond Inspection Date: December 11, 2019

OPERATOR: Oxbow Mining, LLC.
MINE: Elk Creek Mine and Surface Facilities


POND IDENTIFICATION:	<u>Pond E</u>	<u>Pond F</u>
CDPS NUMBER	017	019
TYPE OF POND:	Sediment	Sediment
APPROXIMATE WATER LEVEL:	0.0'	0.0'
SEDIMENT (% total storage):	<5%	<5%
OUTFLOW:	None	None

FEATURES	PROBLEM	PROBLEM
EROSIONAL		
Rills & Gullies	No	No
Inadequate Vegetation	No	No
Outlet Channel Erosion	No	No
Burrows	No	No
Other	No	No
STRUCTURAL		
Differential Settling	No	No
Cracks or Slides	No	No
Seepage	No	No
Other	No	No
APPURTENANT STRUCTURES		
Defective Spillways	No	No
Dewatering Devices Clogged	No	No
Faulty Gates, Etc.	No	No
Other	No	No

MAINTENANCE REQUIRED No No

REFERENCE DRAWINGS: 2.05-M5I 2.05-M5J

Inspected By: _____


Doug A. Smith



FOURTH QUARTER 2019 POND INSPECTION REPORT

Pond Inspection Date: December 11, 2019

Miscellaneous Comments:

1. The SWMP control devices were inspected and all SWMP control devices were found to be in fair condition. Routine quarterly maintenance to sumps was conducted.
2. Sediment and Water Level Determination – When sediment enters a pond, it is deposited unevenly, usually collecting at the inlets rather than evenly across the bottom of the pond. Reported sediment levels are based upon the inspector's observations made throughout the quarter during routine inspections in combination with knowledge of the pond structure. The reported pond water level is also determined by observations relative to the various landmarks in the pond (depth to bottom, primary riser, etc.)
3. Pond D was necessarily removed due to ongoing reclamation activities per the permit. Best Management Practices have been installed to protect stream flows.

Notwithstanding comments above, ponds have been maintained as designed and in accordance with the approved plan.

Inspected By: _____


Doug A. Smith

Under Direction of: _____


Michael W. Ludlow

Colorado Registered Professional Engineer No. 24046