




**MINERALS PROGRAM INSPECTION REPORT**  
**PHONE: (303) 866-3567**

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

<b>MINE NAME:</b> Cresson Project	<b>MINE/PROSPECTING ID#:</b> M-1980-244	<b>MINERAL:</b> Gold	<b>COUNTY:</b> Teller
<b>INSPECTION TYPE:</b> Monitoring	<b>INSPECTOR(S):</b> Patrick Lennberg	<b>INSP. DATE:</b> March 30, 2022	<b>INSP. TIME:</b> 08:00
<b>OPERATOR:</b> Cripple Creek & Victor Gold Mining Co.	<b>OPERATOR REPRESENTATIVE:</b> Maria Bujenovic	<b>TYPE OF OPERATION:</b> 112d-3 - Designated Mining Operation	
<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b> None	<b>BOND AMOUNT:</b> \$209,491,188.00	
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None	
<b>WEATHER:</b> Snowing	<b>INSPECTOR'S SIGNATURE:</b> 	<b>SIGNATURE DATE:</b> April 6, 2022	

**GENERAL INSPECTION TOPICS**

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

(AR) RECORDS----- <u>N</u>	(FN) FINANCIAL WARRANTY----- <u>N</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>N</u>	(TS) TOPSOIL----- <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>N</u>	(RV) REVEGETATION---- <u>N</u>
(SM) SIGNS AND MARKERS----- <u>N</u>	(SP) STORM WATER MGT PLAN---- <u>N</u>	(RS) RECL PLAN/COMP-- <u>N</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>N</u>	(ST) STIPULATIONS----- <u>N</u>
(AT) ACID OR TOXIC MATERIALS----- <u>N</u>	(OD) OFF-SITE DAMAGE----- <u>N</u>	

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

## **OBSERVATIONS**

This was a routine monitoring inspection of the Cresson Project (Permit No. M-1980-244) conducted by Patrick Lennberg of the Division of Reclamation, Mining and Safety (Division). The Division was accompanied by Maria Bujenovic and others during the inspection. This is a 112d-3 Designated Mining Operation (DMO) permitted for 6,007 acres to mine and process gold ore. The site is located between the towns of Cripple Creek and Victor in Teller County. The approved post-mining land use is a combination of rangeland and wildlife habitat. Photos 1-5 taken during the inspection are included with this report.

This inspection was to include the following:

- Topsoil Stockpile #32,
- South Cresson Pit,
- Schist Island Backfill
- Remote viewing of PSA levels, and
- Leak Detection Sumps

The weather at the site consisted of snow flurries and fog. Due to these weather conditions inspection of the topsoil stockpile, South Cresson Pit, and Schist Island did not occur.

### **Topsoil Stockpile #32**

Although the Division was unable to visit topsoil stockpile #32 a conversation about the pile was had with the Mine Operations staff. The staff did state there had been a haul road cut in in the area between topsoil stockpiles #32 and #33. The haul road was constructed to allow for benching and continued mining in the West Cresson Layback area. Reviewing photos from the March 1, 2022 aerial inspection report, issued March 24, 2022, mine staff indicated the slope failure pictured was stable and verified as stable through GPS surveys. The failure was stabilized through over-excavation. While the slope is stable it appears topsoil stockpile #32 is located immediately uphill from the failure and may be subject to material loss in the future. Staff was able to provide documentation of topsoil stockpile #33 being used last year for reclamation of the ECOSA and staging for future reclamation activities. Staff was not familiar with location of stockpile #32. Topsoil stockpile #32 is indicated on AM-13 map C-4b revision 2 and consists of 22,000 c.y (see Map 1). The stockpile will be the subject of a future inspection.

### **South Cresson Pit**

Similar to the topsoil stockpile mentioned above, photographs from the March aerial inspection were discussed with the Mine Operation staff. Staff indicated the failure shown in photo #14 of the report was an expected failure that occurred along an identified slip plane. The tires, tire berm, at the toe of the failure are being used to ensure there is enough space behind the tires to adequately catch any falling material. The tire berm is constructed by stacking used haul truck tires on top of one another, this allows for a high enough berm to catch material while allowing for a safety buffer on the opposite side for the passage of vehicles. The berm is approximately 15-20 feet in height. If the berm were constructed of overburden or similar material the berm would consume too much area to allow for a safety buffer and passage of vehicles. The bench failure will be the subject of a future inspection.

### **Schist Island Backfill**

Due to inclement weather and low visibility, the Division was unable to observe and inspect the Schist Island area from the planned overlook location.

### **Remote Viewing of VLF Solution Levels**

The High Volume Solution Collection System (HVSCS) and Low Volume Solution Collection System (LVSCS) levels of the four VLF1 phases (Phase I, Phase II/III, Phase IV, and Phase V) and the HVSCS and LVSCS levels of VLF2 were remotely checked near the process administration offices at ADR2. All of the HVSCS and LVSCS levels of both VLF1 and VLF2 were within normal operating levels and no issues were noted (see Attachment). During the January 2022 inspection the readouts associated with the External Storage Pond (ESP) levels had recently been upgraded but were still being calibrated. During this inspection the calibration had been completed and the readings recorded.

### **Leak Detection Sumps**

Due to site weather conditions the Division was only able to observe two Leak Detection Sumps (LDS), VLF2-LDS1 and VLF2-LDS2. The sumps were inspected to verify depth indicators had been installed per TR-127. The Division did note there was a strip of red and white reflective tape approximately 12 inches from the bottom of each sump and both sumps were dry. If water were to collect in a sump to the level of the tape the Operator would be required to pump out and collect a sample of the water for analysis of WAD Cyanide and pH. The Operator is to remove as much water as possible to determine if new liquid is present during the next inspection. The sumps are inspected on a weekly basis and an annual summary of the inspections is to be submitted by the end of the first quarter for the following year. The summary table for 2021 was submitted in accordance with TR-127.

Please contact Patrick Lennberg (303)866-3567 ext. 8114 or email at [patrick.lennberg@state.co.us](mailto:patrick.lennberg@state.co.us) if you have any questions regarding this report.

### **Inspection Contact Address**

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Attachment A: CC&V VLF Water Level Inspection Readings

ec: Michael Cunningham, DRMS  
Amy Eschberger, DRMS  
Justin Bills, CC&V  
Katie Blake, CC&V  
Maria Bujenovic, CC&V

**PHOTOGRAPHS**



**Photo 1:** Typical site conditions during inspection, Ironclad parking lot



**Photo 2:** Leak Detection Sump 2 (VLF2-LDS2)





**Photo 3:** Inside view of VLF2-LDS2, reflective tape circled in yellow marks the one foot depth



**Photo 4:** Leak Detection Sump 1 (VLF2-LDS1)





**Photo 5:** Inside view of VLF2-LDS1, reflective tape circled in yellow marks the one foot depth



**Map 1:** Excerpt from Map C-4b provided during AM-13 showing the locations of topsoil stockpiles #32 and #33

## **Attachment A**

## CC&amp;V VLF Water Level Inspection Readings

## Previous Results

Date:		5/27/21	9/28/21	1/27/22	3/2/22	3/30/22	Notes
VLF1:	EPS:	ERR	TC1	ERR	BFB	JPL	
<b>Phase I HVSC &amp; Pond Piezometers</b>	TIME:	11:04	13:01	13:09	13:10	9:45	
Max. of Pump #299, #300, #301, #302, or #303	(ft)	52.4	54.1	49.3	44.5	56.7	
<a href="#">Note: 80% cap. @ 63.75 ft</a> <b>Pond Lvl / XDCR #1</b>	(ft)	53.5	50.4	47.9	43.9	57.2	
System Press / XDCR #2	(ft)	45.0	n/a	n/a	n/a	n/a	
<b>Phase I Low Volume Solution Collection</b>	TIME:	11:18	13:33	13:09	13:10	9:45	
<a href="#">Note: Req'd &lt; 2 ft</a> Piezo #1 (HAND)	(ft)	0.46	0.53	0.47	0.73	0.64	
Piezo #2 (AUTO)	(ft)	0.48	0.51	0.66	--	0.79	
<b>Phase II &amp; III HVSC &amp; Pond Piezometer</b>	TIME:	11:33	13:03	13:10	13:10	9:45	
<a href="#">Note: 80% @ 49.4 ft</a> Max. of XDCR #4, #5, or #6	(ft)	32.0	30.6	22.0	29.6	28.6	
<b>Piezo (Pipe)</b>	(ft)	35.0	39.8	31.6	--	31	
<b>Phase II &amp; III Low Volume Solution Collection</b>	TIME:	11:46	13:31	13:10	13:10	9:45	
<a href="#">Note: Req'd &lt; 2 ft</a> Pump / XDCR #1 (AUTO)	(in)	0.53	0.56	3.68"	3.65	3.67	
Pump / XDCR #2 (AUTO)	(in)	0.48	0.47	3.68"	--	3.71	
<b>Phase IV High Volume Solution Collection</b>	TIME:	12:39	13:07	13:11	13:10	9:45	
<a href="#">Note: 80% cap. @ 56.5 ft</a> Max. of Pump #307, #308, or #309	(ft)	18.5	23.9	35.8	44.9	38.1	
<b>XDCR pipe (#310 Resv'd)</b>	(ft)	37.9	38.5	38.2	--	38.4	
<b>Phase IV Low Volume Solution Collection</b>	TIME:	12:39	13:02	13:11	13:10	9:45	
<a href="#">Note: Req'd &lt; 24"</a> Pump / XDCR #1	(in)	13.1	14.2	10.9	10.8	13.1	
Pump / XDCR #2	(in)	10.7	11.1	11.8	10.7	11.4	
<b>Phase V High Volume Solution Collection</b>	TIME:	10:41	13:06	13:11	13:10	9:45	
<a href="#">Note: 80% cap. @ 36.5 ft</a> Max. of XDCR #311, #312, #313, or #314 (Circle XDCR #)	(ft)	24.0	28.7	27.0	28.8	28.8	
<b>Phase V Low Volume Solution Collection</b>	TIME:	10:37	13:05	13:12	13:10	9:45	
<a href="#">Note: Req'd &lt; 24"</a> XDCR #001	(in)	8	14.5	11.7	11.7	11.8	
XDCR #002	(in)	16.1	n/a	n/a	n/a	n/a	
<b>External Pond Low Volume Solution Collection</b>	TIME:	11:10	13:36			9:45	
<a href="#">Note: Req'd &lt; 24"</a> Pump / XDCR #1-EXT (AUTO)	(in)	12.3	9.5	--	--	15.2	
Pump / XDCR #2-EXT (AUTO)	(in)	17.5	16.3	--	--	17.1	
<b>Underdrain Discharge Area</b>	TIME:						
South Underdrain (S U/D)	(gpm)		--	--	--	--	
4" Pipe Discharge AG 01 Spring Pipe	(gpm)		--	--	--	--	
<a href="#">Note: 1 l/sec = 15.85 gpm</a> NPDES Discharge AG 1.5 -001A	(gpm)		--	--	--	--	
North Underdrain (N U/D)	(gpm)		--	--	--	--	
24-inch Solid Pipe	(gpm)		--	--	--	--	
<b>Arequa Gulch Monitor Well Pumpback System</b>	TIME:						
63B	(ft)		--	--	--	--	
<a href="#">Data first collected by DRMS 3/8/12</a> 123C	(ft)		--	--	--	--	
B63	(gpm)		--	--	--	--	
123C	(gpm)		--	--	--	--	
<b>VLF2 High Vol. SC:</b>	TIME:	12:18	13:08	13:13		9:45	
LIT #88301 (north end)	(ft)	54.7	62.1	58.9	--	58.6	
<a href="#">Note: 80% cap. @ 94 ft</a> LIT #88303	(ft)	53.0	60.8	55.0	--	57.7	
LIT #88305	(ft)	54.2	62.1	59.7	--	58.9	
LIT #88307 (south end)	(ft)	54.0	62.2	60.7	--	59.1	
<b>Piezometer-LIT #88314</b>	(ft)	67.2	73.9	68.8	--	71	
<b>VLF2 Low Vol. SC:</b>	TIME:	12:18	13:09	13:13		9:45	
<a href="#">Note: Req'd &lt; 24"</a> Leachate Pump 1	(in)	10.9	9.9	12.2	--	11.2	
Leachate Pump 2	(in)	9.3	8.1	10.3	--	9.5	