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

The Division of Reclamation, Mining and Safety 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.

MINE/DDOCDECTING ID#.

MINE NAME:	MINE/PROSPECTING ID#:	MINERAL: CC	JUNIY:
Platte Valley Operation	M-1989-120	Sand and gravel We	eld
INSPECTION TYPE:	WEATHER: Clear	INSP. DATE: INS	SP. TIME:
Monitoring		December 20, 2022 10:	00
OPERATOR:	OPERATOR REPRESENTATIVE:	TYPE OF OPERATION	N:
Holcim - WCR, Inc.	Wyatt Webster	112c - Construction Regu	lar Operation
REASON FOR INSPECTION:	BOND CALCULATION TYPE:	BOND AMOUNT:	
Normal I&E Program	Complete Bond	\$754,732.00	
DATE OF COMPLAINT:	POST INSP. CONTACTS:	JOINT INSP. AGENCY	7.
NA	None	None	
INSPECTOR(S):	INSPECTOR'S SIGNATURE:	SIGNATURE DATE:	
Peter Hays	Ω_{1}	February 19, 2023	
Hunter Ridley	[/An/		
,	D/6/22		

The following inspection topics were identified as having Problems or Possible Violations. OPERATORS SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE WITH THE TERMS OF THE PERMIT AND APPLICABLE RULES AND REGULATIONS. If a Possible Violation is indicated, you will be notified under separate cover as to when the Mined Land Reclamation Board will consider possible enforcement action.

INSPECTION TOPIC: Signs & Markers

PROBLEM: The mine identification sign was not posted at the entrance of the mine site. This is a problem for failure to post a mine identification sign as required by Rule 3.1.12(1). The Operator shall, at the entrance of the mine site post a sign, which shall be clearly visible from the access road, with a minimum size equaling one hundred and eighty-seven (187) square inches, such as eleven (11) inches in height and seventeen (17) inches in width, with appropriate font size, with the following: the name of the Operator, a statement that a reclamation permit for the operation has been issued by the Colorado Mined Land Reclamation Board; and the permit number.

CORRECTIVE ACTIONS: The Operator shall, at the entrance of the mine site, post a sign which shall be clearly visible from the access road with the following: the name of the operator, a statement that a reclamation permit for the operation has been issued by the Colorado Mined Land Reclamation Board; and the permit number. The Operator shall submit photo documentation that a proper sign has been posted by the corrective action date.

CORRECTIVE ACTION DUE DATE: 3/31/23

COUNTY

PERMIT #: M-1989-120 INSPECTOR'S INITIALS: PSH INSPECTION DATE: December 20, 2022

OBSERVATIONS

The Platte Valley Operation site was inspected by Peter Hays and Hunter Ridley with the Division of Reclamation, Mining and Safety (Division/DRMS) as required by the Transfer of Permit and Succession of Operators (SO4) process and Rule 1.12. Mr. Wyatt Webster with Holcim – WRC, Inc. (Holcim) was present during the inspection.

On August 15, 2022, Holcim – WRC, Inc. submitted a Transfer of Permit and Succession of Operators (SO4) Application Form. Holcim provided a replacement Financial Warranty for the same dollar amount maintained by the previous operator, Aggregate Industries – WCR, Inc. (AI), in the amount of \$754,732.00.

On August 29, 2022, the SO1 application was approved by the Division. Holcim is the permitted operator of the site and AI was released from reclamation responsibility for the site.

The Platte Valley Operation is an 112c operation permitted for 190 acres with 133 acres of mining disturbance. The site was actively processing material from the nearby Tucson South site, M-2004-044, permitted by Holcim during the inspection. No mining excavation was occurring at the Platte Valley site.

The Platte Valley Operation site is divided into 5 mining phases as indicated on the map below.

Phase 1 is mined out and used as sediment ponds and process water storage. The conveyor system from the Tucson South site runs through Phases 1. Phase 3 is mined out and is used as sediment ponds. The approved final reclamation plan for Phase 3 indicates the area will be backfilled to create upland or wetland areas. Phase 5 is partially mined in the northeast corner of the phase. Phase 5 contains the processing plants, product stockpiles, concrete batch plant and concrete recycling area. The approved Reclamation Plan states this phase will be backfilled for industrial use. Phases 2 and 4 have been mined to create an open-water lake. The eastern portion of Phase 4 is being backfilled by Broda Inert Fill Company to create a future industrial use area. The backfill operation was observed during the inspection. The backfilling is progressing from north to south along the eastern permit boundary.

During the first amendment application (AM1) in 2003, the Operator committed to backfill Phase 2 to at least 200 feet from the Platte River by April 2004 in areas where mining has occurred to within 100 feet of the river as an interim flood control measure. The Operator committed to backfill the Phase 2 areas closest to the Platte River to at least 400 feet from the river as the final flood control measure. These interim and final backfilled areas are required instead of constructing the 1990 approved flood control structures.

The Operator has backfilled the area adjacent to the Platte River in Phase 2 since the last inspection (indicated by the red circle). The minimum 200' offset was observed during the inspection as show on the map below.



View of backfilled section of Phase 2 adjacent to the Platte River

The approved Reclamation Plan includes one (1) open water lake in Phases 1 and 2 surrounded by a mix of industrial use, wetland and upland areas. The Operator stated during the inspection the post-mining use would be revised from open water lake to rangeland with the backfilling of all exposed groundwater at the site with inert structural fill materials.

The Division considers a change in the post-mining land use a significant revision to the approved Reclamation Plan. Pursuant to Rule 1.1(6), an "Amendment" means a change in the permit or an application which increases the acreage of the affected land, or which has a significant effect upon the approved or proposed Mining Plan or Reclamation Plan. The Division will require the Operator to submit an amendment application to revise the post-mining land use.

The Division currently holds a financial warranty in the amount of \$754,732.00. The Division is required to recalculate the reclamation bond amount as part of the SO process. The Division's review of the financial warranty determined the current financial warranty is inadequate to reclaim the site.

The Division calculated the cost to backfill the exposed groundwater at the site at \$8,900,000.00, an increase of \$8,145,268.00. A copy of the bond estimate for SO4 is attached.

PERMIT #: M-1989-120 INSPECTOR'S INITIALS: PSH INSPECTION DATE: December 20, 2022

Due to the amount of the increase, the Division will allow the Operator sufficient time to review and comment on the estimate prior to issuance. The Division will issue a notice of surety increase (SI) letter for the required financial warranty amount after the review period. Holcim will have sixty (60) days from the date of the letter to submit the additional financial warranty pursuant to Rule 4.2(2).

The Applicant is required to update the financial warranty estimate pursuant to Rule 6.4.12 with the pending amendment application to revise the post-mining land use to rangeland.

As cited as a problem on the first page, the required updated mine sign was not observed at the entrance gate. The Division will require the Operator to post a sign per Rule 3.1.12(1) and submit photo documentation by the corrective action date.

Photographs taken during the inspection are attached. If you need additional information or have any questions, please contact me at the Division of Reclamation, Mining and Safety, 1313 Sherman Street, Room 215, Denver, CO 80203, by telephone at 303.866.3567 x 8124, or by email at peter.hays@state.co.us.

Inspection Contact Address

Neil Whitmer Aggregate Industries - WCR, Inc. 1687 Cole Blvd. Golden, CO 80401

Enclosure – SO Financial Warranty Estimate

Ec: Jared Ebert, DRMS

PHOTOGRAPHS



Incorrect Platte Valley Operator mine sign



View of the processing plant from the west side of the site looking east



View of the Broda backfill operation from the southeast corner of the site looking north



View of the South Platte River from the southwest corner of the site looking north



View of the backfilled area in the southwest corner of the site (Phase 2) along the Platte River looking south



View of the backfilled area in the southwest corner of the site (Phase 2) along the Platte River looking north



View of the Broda operation from the southwest corner of the site looking east



View of the Broda operation and processing plant from the southwest corner of the site looking northeast

PERMIT #: M-1989-120 INSPECTOR'S INITIALS: PSH INSPECTION DATE: December 20, 2022

GENERAL INSPECTION TOPICS

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each

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

COST SUMMARY WORK

e: Platte V	alley Operatio	n Pe	rmit Action:	SO4 Bond Estimate	Permit/Job	#: <u>M1989120</u>
PROJECT	IDENTIFIC	<u>CATION</u>				
Task #:	401	State:	Colorado		Abbreviation:	None
Date:	2/19/2023	County:	Weld		Filename:	M120-401
User:	PSH				_	

TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
402	Phases 2 and 4, 39.2 Ac, 30' Depth	SITEMAINT	1	0.00	\$5,982,240
		ENANCE			
403	Phases 1,3,5, 20.8 Ac, 10' Depth	SITEMAINT	1	0.00	\$1,342,292
	-	ENANCE			
404	Topsoil 190 Ac @ 6" Depth	SCRAPER1	1	62.61	\$194,163
405	Vegetate 190 Ac	REVEGE	1	120.00	\$343,854
406	Mob / Demob	MOBILIZE	1	4.66	\$12,379
	SUBTOTALS: 187				\$7,874,928

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$159,074
Performance bond:	1.05	Total =	\$82,687
Job superintendent:	93.63	Total =	\$7,034
Profit:	10.00	Total =	\$787,493
		$T \cap T \wedge I \cap \mathcal{E}_{P} =$	\$1,036,288

TOTAL O & P = \$1,036,288 CONTRACT AMOUNT (direct + O & P) = \$8,911,216

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	0.00	Total =	\$0
Reclamation management and/or administration:	0.00	_	\$0

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$1,036,788

TOTAL BOND AMOUNT (direct + indirect) = \$8,91

\$8,911,716 (\$8,900,000.00 Rounded)

SITE MAINTENANCE

	Task description:	Phases 2 and	d 4, 39.2 Ac, 30	' Depth		
Site:	Platte Valley Operation		Permit Action:	SO4 Bond Estimate	Permit	/Job#: <u>M1989120</u>
PROJE	CT IDENTIFICATION	<u>1</u>				
Task	#: 402	State:	Colorado		Abbreviation:	None
Dat	e: 2/19/2023	County:	Weld		Filename:	M120-402
Use	r: PSH	_				
	Agency or organizat	tion name:	DRMS			

UNIT COSTS

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Import Backfill Material	3000.00	USER PROVIDED ITEM	1,495,560.00	1	\$4.00	\$5,982,240.00

Job Hours: 0.00 Total Cost: \$5,982,240.00

SITE MAINTENANCE

,	Task description:	Phases 1,3,5	, 20.8 Ac, 10' D	epth		
Site:	Platte Valley Operation		Permit Action:	SO4 Bond Estimate	Permit	/Job#: <u>M1989120</u>
PROJE	CT IDENTIFICATION	<u>1</u>				
Task #	#: 403	State:	Colorado		Abbreviation:	None
Date	e: 2/19/2023	County:	Weld		Filename:	M120-403
Use	r: PSH	-				
	Agency or organizat	tion name:	DRMS			

UNIT COSTS

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Import Backfill	1500.00	USER PROVIDED	335,573.00	1	\$4.00	\$1,342,292.00
Material		ITEM				

Job Hours: 0.00 Total Cost: \$1,342,292.00

SCRAPER TEAM WORK

Task description:	Topsoil 19	00 Ac @ 6" Depth	1			
Site: Platte Valley Ope	eration	Permit Action	: SO4 Bond Es	timate P	ermit/Job#: M1	989120
PROJECT IDENT	TFICATION					
	<u> </u>					
Task #: 404		State: Colorado			viation: None	
Date: 2/19/20 User: PSH	<u>023</u> Co	unty: Weld		Fil	ename: M120-	404
	rganization name	DRMS				
		Didvis				
HOURLY EQUIP	MENT_		COSTS	Shift basis: 1 per	<u>day</u>	
			ent Description			
		Scraper: Cat 63' -Dozer: NA	70			
Suppor	t Equipment -Loa		T - 8SU			
		p Area: NA				
Road Mai	ntenance –Motor					
	-Water	Truck: Water	Γanker, 3,500 Ga	ւ1.		
C (D 11	C W	1 75	G		3.6 1	.
Cost Breakdown:	Scraper Wor	Dozer	Support Equal Load Area	ipment Dump Area	Maintenance Motor Grader	e Equipment Water Truck
	Scraper	Dozei	Loau Area	Dunip Area	Wiotor Grader	water Truck
%Utilization-machine:	100	NA	100	NA	100	100
Ownership cost/hour:	\$264.49	NA	\$124.85	NA	\$163.86	\$14.98
Operating cost/hour:	\$296.10	NA	\$97.63	NA	\$109.86	\$33.32
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	\$0.00	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	NA	\$0.00	NA	\$0.00	\$0.00
Operator cost/hour:	\$47.07	NA	\$40.04	NA	\$46.87	\$38.91
Unit Subtotals:	\$607.66	NA	\$262.52	NA	\$320.59	\$87.21
Number of Units:	4	0	1	0	1	1
Group Subtotals:	Work:	\$2,430.64	Support:	\$262.52	Maint:	\$407.80
Total work team cost/	hour: \$3,100.96					
MATERIAL QUA	<u>NTITIES</u>					
Initial volume:	153,266	CCY	Swell fact	tor: 1.000		
Loose volume:	153,266	LCY				
Sour	ce of estimated vo	olume Division	of Reclamation	Mining & Safety	7	
	f estimated swell			Triming & Bulety		 ,
						
HOURLY PRODU	<u>ICTION</u>					
			Scraper F	Bowl (volume) Ba	sis:	
Matarial maiakt	1 600 lbg/I CV		•			CV
Material weight: Material description:	1,600 lbs/LCY Top Soil			Volume: 24.00 Volume: 34.00		.CY .CY
Rated Payload:	81,600 pounds		Average			CY.
Payload Capacity:	51.00 LCY		Adjusted (CY

Site Altitude: 4950 feet

Cy	cle	Time	2

Scraper Loading Time: $\underline{0.80}$ Minutes Maneuver and Spread Time: $\underline{0.60}$ Minutes

Job Condition Correction:

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: Very hard, smooth, asphalt or concrete, no tire penetration 1.2

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	0.00	1.20	1.20	2952	0.51

Haul Time: **0.51** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	0.00	1.20	1.20	2963	0.45

Return Time: 0.45 minutes

Total Scraper team cycle time: 2.36 minutes

Adjusted for job conditions: 611.95 LCY/Hour Selected Number of Scrapers: 4 Scraper(s)

team (unit) hourly production: 2 447.80 LCY/Hour

Adjusted single scraper team (unit) hourly production: 2,447.80 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: 2,447.80 LCY/Hour

Unadjusted unit production/hour: 737.29 LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

 Fleet size:
 1
 Team(s)
 Total job time:
 62.61
 Hours

 Unit cost:
 \$1.267
 /LCY
 Total job cost:
 \$194,163

REVEGETATION WORK

	Pe	rmit Action: SC	4 Bond Estin	mate	Permit/Job#	: <u>M1989120</u>
ROJECT IDENTIFICA	TION					
						None M120-405
Agency or organizat	tion name: DF	RMS				
ERTILIZING						
aterials		Units /				
Description		Acre	Unit	Cos	st / Unit	Cost /Acre
				\$		\$
				То	tal Fertilizer Materials Cost/Acre	\$0.00
		Tot	al Fertilizer	Annlication	on Cost/Acre	\$0.00
				PP		\$0.00
<u>LLING</u>						
LLING Description						Cost /Acre
	MEANS 32 91 1	3.23 6100)				Cost /Acre \$117.18
Description	MEANS 32 91 1	3.23 6100)	ŗ	Fotal Tillir	ng Cost/Acre	
Description Disc harrowing, 6" deep (1)	MEANS 32 91 1	3.23 6100)		Fotal Tillir	ng Cost/Acre	\$117.18
Description Disc harrowing, 6" deep (N	MEANS 32 91 1	3.23 6100)		Rate – PLS LBS /	Seeds per SQ. FT	\$117.18
Description Disc harrowing, 6" deep (N	MEANS 32 91 1	3.23 6100)	·	Rate – PLS	Seeds per SQ.	\$117.18 \$117.18
Description Disc harrowing, 6" deep (Note: 10 to	MEANS 32 91 1	3.23 6100)		Rate – PLS LBS / Acre 0.50 0.30	Seeds per SQ. FT 4.47 4.90	\$117.18 \$117.18 Cost /Acre \$5.75 \$4.79
Description Disc harrowing, 6" deep (Note: Disc harrowing) Disc harrowin		3.23 6100)	,	Rate – PLS LBS / Acre 0.50 0.30 1.35	Seeds per SQ. FT 4.47 4.90 4.43	\$117.18 \$117.18 Cost /Acre \$5.75 \$4.79 \$11.31
Disc harrowing, 6" deep (Note 1) EEDING Seed Mix Switchgrass - Blackwell Blue Grama - Lovington		3.23 6100)		Rate – PLS LBS / Acre 0.50 0.30	Seeds per SQ. FT 4.47 4.90	\$117.18 \$117.18 Cost /Acre \$5.75 \$4.79

Description

Cost /Acre

Drill Seeding (DRMS Survey Cost)		\$232.00
	Total Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$3.04	\$3.04
Total Mulch Materials Cost/Acre				\$845.76

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
Weed spray, truck, aquatic area, annuals [DMG]		\$22.81
Weed spray, truck, aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$158.53

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals	Nursery Stoc	ek Cost / Acre	\$0.00

JOB TIME AND COST

 No. of Acres:
 190
 Cost /Acre:
 \$1,392.12

 Estimated Failure Rate:
 30%
 Cost /Acre*:
 \$1,392.12

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$264,502.80

Reseeding Job Cost: \$79,350.84

Total Job Cost: \$343,854

120.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Platte Valley Operation	1	Permit Action:	SO4 Bond Estimate	Permit/Jol	b#: <u>M1989120</u>
PROJECT IDENTIFIC	<u>ATION</u>				
Task #: 406 Date: 2/19/2023 User: PSH	Sta Count			Abbreviation: Filename:	None M120-406
Agency or organiz	ation name:	DRMS			
Agency or organiz	_			Shift basis:	1 per day
	_				1 per day CRG Data
	ORT RIG C	COST		RACTOR, 6X4,	CRG Data

\$23.06

\$30.83

\$27.71

\$20.22

\$101.82

\$37.58

\$51.41

\$27.71

\$20.22

\$136.92

Total Unit Cost/Hour: \$68.22

NON ROADABLE EQUIPMENT:

Ownership Cost/Hour:

Operating Cost/Hour:

Operator Cost/Hour:

Helper Cost/Hour:

\$15.25

\$25.26

\$27.71

\$0.00

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni t	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D8T - 8SU	47.71	\$124.85	\$101.82	1	\$226.67	\$101.82	\$250.00
Cat 637G	57.28	\$264.49	\$136.92	4	\$1,605.64	\$547.68	\$1,000.00
CAT 16M	28.73	\$163.86	\$101.82	1	\$265.68	\$101.82	\$250.00

Subtotals: \$2,097.99 \$751.32 \$1,500.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 3,500 Gal.	\$87.21	1	\$87.21	\$87.21
Light Duty Pickup, 4x4, 1 T. Crew	\$24.30	1	\$24.30	\$24.30

Subtotals: \$111.51 \$111.51

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:
Total one-way travel distance:
Average Travel Speed:

BRIGHTON, CO
miles
30.00
mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.17	0.17
Return Time (Hours):	0.17	0.17
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	2.33	0.33

JOB TIME AND COST

Total job cost: 4.67 Hours

Total job cost: \$12,379