



October 20, 2019

Robin Reilley Colorado Division of Reclamation, Mining and Safety 1313 Sherman St., Room 215 Denver, CO 80203

RE: 3rd Quarter and Annual Pond Inspections – Williams Fork Mine (C 1981-044)

Ms. Reilley:

Enclosed are the 3<sup>rd</sup> quarter 2019 and Annual pond inspection reports for the Williams Fork Mine. Nicholas Aromando (P.E.) accompanied on the inspection and has provided a Professional Engineer's Statement on the following page of this letter to accompany the inspection reports. Please contact me if there are any questions or if you need any additional information.

Best Regards,

Miranda Kawcak

**Environmental Manager** 

Peabody, Colorado Operations

Minda Lawcale

## Attachments:

Professional Engineer Certification (Nicholas Aromando, P.E.) Inspection Reports

## **CERTIFICATION**

I, Nicholas V. Aromando, a registered engineer in the State of Colorado do hereby certify that I have reviewed the attached Williams Fork Mine Sediment Pond Reports covering the third quarter of 2019 and that they are true and correct to the best of my knowledge and belief.

Nicholas Vincent Aromando

CO P.E. No. 48238

Date

OPERATOR: EMPIRE CORPORATION				
MINE: EMPIRE NOS. 5 & 6 MINES				
DATE OF INSPECTION: 9/26/19				
	1	2	3	4
POND INSPECTION	Spoil Spring	ıs 	1	
CDFS OUTFALL #	022 Site 1S	j P	<u></u>	
OPERATIONAL STATUS AT TIME OF INSI	DECTION			
OF ERATIONAL OTATOO AT TIME OF ING	LCTION			
Approximate water level:		below i	dischar	al
Sediment level (% total storage):		-5º/a		
Outflow (cfs):		2		
FEATURES	PROI	BLEM	COMN	MENTS
	YES	NO		
EROSIONAL				
Rills & Gullies on Embankment		اسسا		
Inadequate Vegetation		سسا		
Outlet Channel Erosion		1		
Burrows				
Other		2		
STRUCTURAL				
Differential Setting	Ì	1		
Cracks or slides	***************************************	Parties .		
Seepage		lorent,		
Other		. production of the contract o		
APPURTENANT STRUCTURES			Wier	اد
Defective Spillways			ruste	\ <u>\</u>
Dewatering Device Clogged			]	
Faulty Gates, Baffles, Pump		Land State of the	>W	all hole
Other				
ADDITIONAL COMMENTS:				
MAINTENANCE REQUIRED: Wier 4	aha	L	. 1	
IMAINTENANCE REGUIRED. W121 4	700E	DGV+OV	inted or	e de la companya de l
replaced fall	2019			
,				
nia 1.				
NAME OF INSPECTOR: 111, Kaw	rcak			

OPERATOR: EMPIRE CORPORATION				
MINE: <u>EMPIRE NOS. 5 &amp; 6 MINES</u>				
DATE OF INSPECTION: 9/26/19				
	1	2	3	4
POND INSPECTION	5-P1	5-P2	5-P3	
	SED. POND	SED. TRAP	SED. TRAP	
		1	i managan	
CDFS OUTFALL #	007			
OPERATIONAL STATUS AT TIME OF INSI	PECTION			
Approximate water level:	All	Dru		
Sediment level (% total storage):	410%	5		
Outflow (cfs):	210 /	CFS		
Cameri (ole),		<u> </u>		
FEATURES	PROI	BLEM	COMM	IENTS
	YES	NO		
EROSIONAL				
Rills & Gullies on Embankment		1	]	
Inadequate Vegetation		la l		
Outlet Channel Erosion		Lamana	]	
Burrows		1		
Other		Comment of the Commen		
STRUCTURAL				
Differential Setting		1		
Cracks or slides		Later Course		
Seepage		Barra Age		
Other				
Otriei		<i>S</i>		
APPURTENANT STRUCTURES				
Defective Spillways		lane,		
Dewatering Device Clogged		l.		
Faulty Gates, Baffles, Pump		b difference		
Other		por-		
ADDITIONAL COMMENTS:	<u></u>			
MAINTENANCE REQUIRED: None				
NAME OF INSPECTOR: M. Kawa	cak			

MINE: <u>EMPIRE NOS. 5 &amp; 6 MINES</u>				
0/21/10				
DATE OF INSPECTION: 4176119		•	•	
POND INSPECTION	1 5-P5	2 5-P6	3 5-P7	4
. Old mer zemen	0,0			
	SED. POND	SED. POND	SED. POND	
CDFS OUTFALL #	003	003	003	
OPERATIONAL STATUS AT TIME OF INSP	ECTION			
		laine	d Oc	4 201
Approximate water level: Sediment level (% total storage):	1760	10011116		7 201
Outflow (cfs):				
FEATURES	PROBLEM		COMN	IENTS
	YES	NO		
EROSIONAL		1.1A		
Rills & Gullies on Embankment		NA		
Inadequate Vegetation		1		
Outlet Channel Erosion				
Burrows				
Other				
STRUCTURAL			***************************************	
Differential Setting				
Cracks or slides				
Seepage		***		
Other		- Addition	•	
54.6		- American		
APPURTENANT STRUCTURES		2	,	
Defective Spillways		Weiterstein		
Dewatering Device Clogged	······································			
Faulty Gates, Baffles, Pump		and the same of th		
Other		V		
ADDITIONAL COMMENTS:				

OPERATOR: EMPIRE CORPORATION				
MINE: <u>EMPIRE NOS. 5 &amp; 6 MINES</u>				
DATE OF INSPECTION: 9 26/19				
DATE OF INSPECTION: 1/26/19	- 1	2	3	4
POND INSPECTION	9A-P1	9A-P2	9A-P3	9A-P4
	SED. POND	SED. POND	SED. POND	SED. POND
CDFS OUTFALL#	018	019	020	021
OPERATIONAL STATUS AT TIME OF INSPECT	ION			
Approximate water level:	All D	~. <i>J</i>		
Sediment level (% total storage):	45°/0	#		
Outflow (cfs):	octs			
	1	D/ E14		
FEATURES	YES	BLEM NO	COMIN	MENTS
EROSIONAL	120	100		
Rills & Gullies on Embankment		1		
Inadequate Vegetation		Emme		
Outlet Channel Erosion		المسمرا		
Burrows		l.		
Other		L		
STRUCTURAL				
Differential Setting		1,,,,,,,		
Cracks or slides		1,		
Seepage		1		
Other		L		
APPURTENANT STRUCTURES				
Defective Spillways		E production of		
Dewatering Device Clogged		1		
Faulty Gates, Baffles, Pump		Lorent		
Other				
ADDITIONAL COMMENTS:				
P2, P3, P4 to be	transfered	to stock	DONC! FOR	Perminen
retertion				4
MAINTENANCE REQUIRED:				
MAINTENANCE REQUIRED.				
1111.				
NAME OF INSPECTOR: M. Kawcali	<del></del>			

OPERATOR: EMPIRE CORPORATION				
MINE: <u>EMPIRE NOS. 5 &amp; 6 MINES</u>				
DATE OF INSPECTION: 9/26/10				
DATE OF INSPECTION:	1	2	3	4
POND INSPECTION	9-P1	9-P2	9-P3	9-P4
	SED. POND	SED. POND	SED. POND	SED. POND
CDES OUTEAU #			004	04.4
CDFS OUTFALL #			024	014
OPERATIONAL STATUS AT TIME OF INSI	PECTION			
		6		
Approximate water level:	<u> </u>	Dry		
Sediment level (% total storage):		5 /2		
Outflow (cfs):		CB		
FEATURES	PRO	BLEM	COM	MENTS
	YES	NO		
EROSIONAL				
Rills & Gullies on Embankment				
Inadequate Vegetation		Lucian	Mino	ral lurrows
Outlet Channel Erosion		1	100.	m c (
Burrows		1	7.7.1	
Other		Later	V.	SWCJW?
STRUCTURAL				
1		1		
Differential Setting		Laurence .		
Cracks or slides		E comment		
Seepage		landa.		
Other		La Carte		
APPURTENANT STRUCTURES				
Defective Spillways				
Dewatering Device Clogged		Institute,		
Faulty Gates, Baffles, Pump		l'americani		
Other				
ADDITIONAL COMMENTS:				
MAINTENANCE REQUIRED: NONE				
NAME OF INSPECTOR: W. Man	i call			

OPERATOR: EMPIRE CORPORATION				
MINE: <u>EMPIRE NOS. 5 &amp; 6 MINES</u>				
DATE OF INSPECTION: 9/26/19				
DATE OF INOT LOTTON	1	2	3	4
POND INSPECTION	9-P5	9-P6	9-P7	9-P8
	SED. POND	SED. POND	SED. POND	SED. POND
CDFS OUTFALL #	017	015	013	016
OPERATIONAL STATUS AT TIME OF INSI	PECTION			
Approximate water level:	All	DM		
Sediment level (% total storage):	45	7/ <sub>0</sub>		
Outflow (cfs):		CRS		
FEATURES		BLEM	COM	MENTS
EDOCIONAL	YES	NO		
EROSIONAL  Rills & Gullies on Embankment		1/		
Inadequate Vegetation				
Outlet Channel Erosion		1,000		
Burrows		1,000		
Other				
STRUCTURAL				
Differential Setting		المستسمال		
Cracks or slides		3/7		
Seepage		l.		
Other				
APPURTENANT STRUCTURES		_		
Defective Spillways		Lanna de la constante de la co		
Dewatering Device Clogged		L/mg		
Faulty Gates, Baffles, Pump		lore		
Other ADDITIONAL COMMENTS:	J			
Other ADDITIONAL COMMENTS:  MAINTENANCE REQUIRED: NOCE				

OPERATOR: EMPIRE CORPORATION				
MINE: <u>EMPIRE NOS. 5 &amp; 6 MINES</u>				
DATE OF INSPECTION: 9/26/19				
DATE OF INSPECTION: 9/26/19	1	•	•	4
POND INSPECTION	HR-P1A	2 HR-P1B	3	4
TOND MOI ESTION	TIK-F IA	INTERIO		
	SED. POND	SED. POND		
	1	<u> </u>		
CDFS OUTFALL #		004		
OPERATIONAL STATUS AT TIME OF INSI	PECTION PECTION			
American de contra level.	۸۱۱	n		
Approximate water level:	All	214		
Sediment level (% total storage):		<u> </u>	.,	<u>.</u>
Outflow (cfs):		17		
FEATURES	PROI	BLEM	COMM	IENTS
, =,	YES	NO	• • • • • • • • • • • • • • • • • • • •	
EROSIONAL				
Rills & Gullies on Embankment				
Inadequate Vegetation		100000003		
Outlet Channel Erosion				
Burrows		1		
Other		1		
		, , , , , , , , , , , , , , , , , , ,		
STRUCTURAL				
Differential Setting		L		
Cracks or slides		Lang.		
Seepage		1		
Other		1		
APPURTENANT STRUCTURES				
Defective Spillways				
Dewatering Device Clogged		1		
Faulty Gates, Baffles, Pump		L		
Other				
ADDITIONAL COMMENTS:				
ADDITIONAL COMMENTS:  MAINTENANCE REQUIRED: MOMENTS:				
NAME OF INSPECTOR: M. Kaw	ak			

OPERATOR: EMPIRE CORPORATION				
MINE: <u>EMPIRE NOS. 5 &amp; 6 MINES</u>				
DATE OF INSPECTION: 9/26/19				
DATE OF INSPECTION.	 1	2	3	4
POND INSPECTION	SH-P1	SH-P2	<u>~</u>	
	SED. POND	SED. POND		
CDFS OUTFALL #	011	012		
OPERATIONAL STATUS AT TIME OF INSI	PECTION			
	· ·	6		
Approximate water level:	<u> </u>	DM		
Sediment level (% total storage):	< 5	0/0		
Outflow (cfs):		<u> </u>		
FEATURES	PROI	BLEM	COMM	IENTS
LATORES	YES	NO	COM	ILIVIO
EROSIONAL				
Rills & Gullies on Embankment		W		
Inadequate Vegetation		1	Mac	1
Outlet Channel Erosion		1	VVIIIC	`` ()
Burrows			VAN	mar
Other			Bu	mal irrows
OTRIOTURAL				
STRUCTURAL				
Differential Setting		1		
Cracks or slides		1,5		
Seepage		- income		
Other				
APPURTENANT STRUCTURES	-			
Defective Spillways				
Dewatering Device Clogged		B and the same		
Faulty Gates, Baffles, Pump				
Other		•		
ADDITIONAL COMMENTS:				
MAINTENANCE REQUIRED: VONL				
NAME OF INSPECTOR: M. Waw	calc			

OPERATOR: EMPIRE CORPORATION				
MINE: <u>EMPIRE NOS. 5 &amp; 6 MINES</u>				
DATE OF INSPECTION: 9/26/19				
•	1	2	3	4
POND INSPECTION	5A-P1			
	SED. POND			
ODES OUTEN L #				<u> </u>
CDFS OUTFALL #	009			
OPERATIONAL STATUS AT TIME OF INS	<u>PECTION</u>			
	<i>N</i>	m. 1		
Approximate water level:	<u> </u>	<u> </u>		
Sediment level (% total storage):		50/0		
Outflow (cfs):		CTS		
FEATURES	PROF	BLEM	COMMENTS	
LATORES	YES	NO	0011111	
EROSIONAL				
Rills & Gullies on Embankment		1		
Inadequate Vegetation		1		
Outlet Channel Erosion				
Burrows		1		
Other				
- 1 2.		\\\		
STRUCTURAL				
Differential Setting		1		
Cracks or slides		L.		
Seepage		l l		
Other		l.		
		-		
APPURTENANT STRUCTURES				
Defective Spillways		1 marine		
Dewatering Device Clogged		i		
Faulty Gates, Baffles, Pump		l.		
Other				
ADDITIONAL COMMENTS:	<i></i> 4 ~	1.	10	01-1
Suroma	ng rec	Iaman	on to	SHOUT
ADDITIONAL COMMENTS: Surround:	SOLIL	9 20	20	
		J		
MAINTENANCE REQUIRED:				

MINE: <u>EMPIRE NOS. 5 &amp; 6 MINES</u>				
DATE OF INSPECTION: 9/26/19				
DATE OF INCIDENTIAL TOTAL TOTA	1	2	3	4
POND INSPECTION	WASTEWAT			
	TREATMENT	l		
CDFS OUTFALL#	023	<u> </u>	<u> </u>	
OPERATIONAL STATUS AT TIME OF INSI	PECTION			
		0010100	nd	oring 2010
Approximate water level:		K CHANNA	MA ST	ATTIGEDA
Sediment level (% total storage): Outflow (cfs):				~
Outilow (cis).		······································		
FEATURES	PROF	3LEM	COMM	TENTS
I LA : OILLO	YES	NO	OCIVIII	
EROSIONAL	1	110		
Rills & Gullies on Embankment		NA		
Inadequate Vegetation		1		
Outlet Channel Erosion				
Burrows		i		
Other				
3.13.				
STRUCTURAL	1	i		
Differential Setting		1		
Cracks or slides				
Seepage				
Other				
- 11.1		1		
APPURTENANT STRUCTURES				
Defective Spillways				i
Defective Spillways Dewatering Device Clogged				1
Dewatering Device Clogged		D.		

i:en\envir\empire\inspep\pondform

## WILLIAMS FORK MINE WASTE PILE INSPECTION FORM

PILE I.D. NO. 1211-CO-09-01370-01 (SURFACE WASTE PILE)

file:I:\EN\ENVIRONMENTAL\EMPIRE\INSPREP\WASTEPILEFORM.DOC