

OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 6/18/19

POND INSPECTION

	1	2	3	4
Spoil Springs				
	✓			

CDFS OUTFALL #

022 Site 1SP

**OPERATIONAL STATUS AT TIME OF INSPECTION**

Approximate water level:

Wier = 2"

Sediment level (% total storage):

25%

Outflow (cfs):

0.025 cfs

FEATURES	PROBLEM		COMMENTS
	YES	NO	
<b>EROSIONAL</b>			
Rills & Gullies on Embankment		✓	
Inadequate Vegetation		✓	
Outlet Channel Erosion		✓	
Burrows		✓	
Other		✓	
<b>STRUCTURAL</b>			
Differential Setting		✓	
Cracks or slides		✓	
Seepage		✓	
Other		✓	
<b>APPURTENANT STRUCTURES</b>			
Defective Spillways	✓		Wier is rusted, Bentonite used to seal rusted area
Dewatering Device Clogged		✓	
Faulty Gates, Baffles, Pump		✓	
Other			
<b>ADDITIONAL COMMENTS:</b>			
<u>Look into replacing wier fall 2019</u>			
<b>MAINTENANCE REQUIRED:</b>			

NAME OF INSPECTOR: M. Kawrak



OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 6/18/2019

POND INSPECTION

1	2	3	4
5-P1	5-P2	5-P3	
SED. POND	SED. TRAP	SED. TRAP	
✓	✓	✓	

CDFS OUTFALL #

007

OPERATIONAL STATUS AT TIME OF INSPECTION

Approximate water level:

Sediment level (% total storage):

Outflow (cfs):

All Dry  
<5%  
0

FEATURES	PROBLEM		COMMENTS
	YES	NO	
<b>EROSIONAL</b>			
Rills & Gullies on Embankment		✓	
Inadequate Vegetation		✓	
Outlet Channel Erosion		✓	
Burrows		✓	
Other		✓	
<b>STRUCTURAL</b>			
Differential Setting		✓	
Cracks or slides		✓	
Seepage		✓	
Other		✓	
<b>APPURTENANT STRUCTURES</b>			
Defective Spillways		✓	
Dewatering Device Clogged		✓	
Faulty Gates, Baffles, Pump		✓	
Other		✓	
<b>ADDITIONAL COMMENTS:</b>			
<b>MAINTENANCE REQUIRED:</b> <u>None</u>			

NAME OF INSPECTOR: M. Kawcak



OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 6/18/2019

POND INSPECTION

1	2	3	4
5-P5	5-P6	5-P7	
SED. POND	SED. POND	SED. POND	

CDFS OUTFALL #

003

003

003

**OPERATIONAL STATUS AT TIME OF INSPECTION**

Approximate water level:

Sediment level (% total storage):

Outflow (cfs):

Redeamed Oct 2018

FEATURES	PROBLEM		COMMENTS
	YES	NO	
<b>EROSIONAL</b>			
Rills & Gullies on Embankment		NA	
Inadequate Vegetation			
Outlet Channel Erosion			
Burrows			
Other			
<b>STRUCTURAL</b>			
Differential Setting			
Cracks or slides			
Seepage			
Other			
<b>APPURTENANT STRUCTURES</b>			
Defective Spillways			
Dewatering Device Clogged			
Faulty Gates, Baffles, Pump			
Other			
<b>ADDITIONAL COMMENTS:</b>			
<b>MAINTENANCE REQUIRED:</b>			

NAME OF INSPECTOR: M. Kaurak



OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 9/6/18/19

POND INSPECTION

1	2	3	4
9A-P1	9A-P2	9A-P3	9A-P4
SED. POND ✓	SED. POND ✓	SED. POND ✓	SED. POND ✓
018	019	020	021

CDFS OUTFALL #

OPERATIONAL STATUS AT TIME OF INSPECTION

Approximate water level:

Sediment level (% total storage):

Outflow (cfs):

All Dry except 9A-P1, small pool of water  
< 10%  
0 cfs

FEATURES	PROBLEM		COMMENTS
	YES	NO	
<b>EROSIONAL</b>			
Rills & Gullies on Embankment		✓	
Inadequate Vegetation		✓	
Outlet Channel Erosion		✓	
Burrows		✓	
Other		✓	
<b>STRUCTURAL</b>			
Differential Settling		✓	
Cracks or slides		✓	
Seepage		✓	
Other		✓	
<b>APPURTENANT STRUCTURES</b>			
Defective Spillways		✓	
Dewatering Device Clogged		✓	
Faulty Gates, Baffles, Pump		✓	
Other		✓	
<b>ADDITIONAL COMMENTS:</b> <u>Area included in upcoming bond Release.</u>			
<b>MAINTENANCE REQUIRED:</b>			

NAME OF INSPECTOR: \_\_\_\_\_



OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 6/18/19

POND INSPECTION

1	2	3	4
9-P1	9-P2	9-P3	9-P4
SED. POND	SED. POND	SED. POND	SED. POND

CDFS OUTFALL #

✓ ✓ 024 014

OPERATIONAL STATUS AT TIME OF INSPECTION

Approximate water level:

Sediment level (% total storage):

Outflow (cfs):

All Dry  
≤ 10%  
0

FEATURES	PROBLEM		COMMENTS
	YES	NO	
<b>EROSIONAL</b>			
Rills & Gullies on Embankment		✓	All show minor animal Burrows
Inadequate Vegetation		✓	
Outlet Channel Erosion		✓	
Burrows	✓		
Other		✓	
<b>STRUCTURAL</b>			
Differential Setting		✓	
Cracks or slides		✓	
Seepage		✓	
Other		✓	
<b>APPURTENANT STRUCTURES</b>			
Defective Spillways		✓	
Dewatering Device Clogged		✓	
Faulty Gates, Baffles, Pump		✓	
Other		✓	
<b>ADDITIONAL COMMENTS:</b>			
MAINTENANCE REQUIRED: <u>None</u>			

NAME OF INSPECTOR: M. Rawcak



OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 6/18/19

POND INSPECTION

1	2	3	4
9-P5	9-P6	9-P7	9-P8
SED. POND ✓	SED. POND ✓	SED. POND ✓	SED. POND ✓
017	015	013	016

CDFS OUTFALL #

OPERATIONAL STATUS AT TIME OF INSPECTION

Approximate water level:

Sediment level (% total storage):

Outflow (cfs):

All dry  
< 10%  
0

FEATURES	PROBLEM		COMMENTS
	YES	NO	
<b>EROSIONAL</b>			
Rills & Gullies on Embankment		✓	Minor Animal Burrows
Inadequate Vegetation		✓	
Outlet Channel Erosion		✓	
Burrows	✓		
Other		✓	
<b>STRUCTURAL</b>			
Differential Settling		✓	
Cracks or slides		✓	
Seepage		✓	
Other		✓	
<b>APPURTENANT STRUCTURES</b>			
Defective Spillways		✓	
Dewatering Device Clogged		✓	
Faulty Gates, Baffles, Pump		✓	
Other		✓	
<b>ADDITIONAL COMMENTS:</b>			
<b>MAINTENANCE REQUIRED:</b> <u>None</u>			

NAME OF INSPECTOR: M. Kawcak



OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 6/18/19

POND INSPECTION

1	2	3	4
HR-P1A	HR-P1B		
SED. POND ✓	SED. POND ✓		

CDFS OUTFALL #

004

**OPERATIONAL STATUS AT TIME OF INSPECTION**

Approximate water level:

Sediment level (% total storage):

Outflow (cfs):

All Dry (most Bottoms)  
<10%  
0

FEATURES	PROBLEM		COMMENTS
	YES	NO	
<b>EROSIONAL</b>			
Rills & Gullies on Embankment		✓	
Inadequate Vegetation		✓	
Outlet Channel Erosion		✓	
Burrows		✓	
Other		✓	
<b>STRUCTURAL</b>			
Differential Setting		✓	
Cracks or slides		✓	
Seepage		✓	
Other		✓	
<b>APPURTENANT STRUCTURES</b>			
Defective Spillways		✓	
Dewatering Device Clogged		✓	
Faulty Gates, Baffles, Pump		✓	
Other		✓	
<b>ADDITIONAL COMMENTS:</b>			
<b>MAINTENANCE REQUIRED:</b> <u>None</u>			

NAME OF INSPECTOR: M. Kawcak



OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 6/18/19

POND INSPECTION

1	2	3	4
SH-P1	SH-P2		
SED. POND	SED. POND		
✓ 011	✓ 012		

CDFS OUTFALL #

OPERATIONAL STATUS AT TIME OF INSPECTION

Approximate water level:

Sediment level (% total storage):

Outflow (cfs):

All Dry  
<10% of  
0

FEATURES	PROBLEM		COMMENTS
	YES	NO	
<b>EROSIONAL</b>			
Rills & Gullies on Embankment		✓	
Inadequate Vegetation		✓	
Outlet Channel Erosion		✓	
Burrows		✓	
Other		✓	
<b>STRUCTURAL</b>			
Differential Setting		✓	
Cracks or slides		✓	
Seepage		✓	
Other		✓	
<b>APPURTENANT STRUCTURES</b>			
Defective Spillways		✓	
Dewatering Device Clogged		✓	
Faulty Gates, Baffles, Pump		✓	
Other			
<b>ADDITIONAL COMMENTS:</b>			
<b>MAINTENANCE REQUIRED:</b> <u>None</u>			

NAME OF INSPECTOR: M. Kawrak



OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 6/18/19

POND INSPECTION

	1	2	3	4
5A-P1				
SED. POND				

CDFS OUTFALL #

009

**OPERATIONAL STATUS AT TIME OF INSPECTION**

Approximate water level:

Sediment level (% total storage):

Outflow (cfs):

Dry  
< 5%  
0

FEATURES	PROBLEM		COMMENTS
	YES	NO	
<b>EROSIONAL</b>			
Rills & Gullies on Embankment		✓	
Inadequate Vegetation		✓	
Outlet Channel Erosion		✓	
Burrows		✓	
Other		✓	
<b>STRUCTURAL</b>			
Differential Setting		✓	
Cracks or slides		✓	
Seepage		✓	
Other		✓	
<b>APPURTENANT STRUCTURES</b>			
Defective Spillways		✓	
Dewatering Device Clogged		✓	
Faulty Gates, Baffles, Pump		✓	
Other		✓	
<b>ADDITIONAL COMMENTS:</b> <u>Portal Area reclamation to begin soon</u>			
<b>MAINTENANCE REQUIRED:</b> <u>None</u>			

NAME OF INSPECTOR: M. Kawrak



OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 6/18/19

POND INSPECTION

	1	2	3	4
WASTEWATER				
TREATMENT				

CDFS OUTFALL #

023

**OPERATIONAL STATUS AT TIME OF INSPECTION**

Approximate water level:

Sediment level (% total storage):

Outflow (cfs):

Reclaimed 2018

FEATURES	PROBLEM		COMMENTS
	YES	NO	
<b>EROSIONAL</b> Rills & Gullies on Embankment Inadequate Vegetation Outlet Channel Erosion Burrows Other		NA	
<b>STRUCTURAL</b> Differential Setting Cracks or slides Seepage Other			
<b>APPURTENANT STRUCTURES</b> Defective Spillways Dewatering Device Clogged Faulty Gates, Baffles, Pump Other			
<b>ADDITIONAL COMMENTS:</b>			
<b>MAINTENANCE REQUIRED:</b>			

NAME OF INSPECTOR: N. Raweale



## WILLIAMS FORK MINE WASTE PILE INSPECTION FORM

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

PILE I.D. NO. 1211-CO-09-01370-02 (OLD NO. 9 EXCAVATION)

DATE/TIME: 6/18/19

INSPECTOR SIGNATURE: Muanda Kawcak

INSPECTOR TITLE: Enviro Engineer

This inspection was conducted to comply with DMG Rule 4.09.1(11).

This inspection was conducted to evaluate:

☒ A. Stability of fill (quarterly inspection)

☐ B. Critical construction periods:

☐ 1. Removal of all organic material/topsoil

☐ 2. Placement of underdrainage system

☐ 3. Installation of surface drainage system

☒ 4. Placement and compaction of fill materials

☐ 5. Revegetation

NOTES:

Reclamation started. Fill has been  
moved to pile but needs spread out.  
pile is stable and in good condition.