

OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 12/10/2020

POND INSPECTION

	1	2	3	4
Spoil Springs				
✓				

CDFS OUTFALL #

022 Site 1SP

OPERATIONAL STATUS AT TIME OF INSPECTION

Approximate water level:

Dry

Sediment level (% total storage):

<5%

Outflow (cfs):

0

FEATURES	PROBLEM		COMMENTS
	YES	NO	
EROSIONAL			
Rills & Gullies on Embankment		✓	
Inadequate Vegetation		✓	
Outlet Channel Erosion		✓	
Burrows		✓	
Other		✓	
STRUCTURAL			
Differential Setting		✓	
Cracks or slides		✓	
Seepage		✓	
Other		✓	
APPURTENANT STRUCTURES			
Defective Spillways		✓	
Dewatering Device Clogged		✓	
Faulty Gates, Baffles, Pump		✓	
Other		✓	

ADDITIONAL COMMENTS:

MAINTENANCE REQUIRED: Weir is rusted and needs repair

NAME OF INSPECTOR: Muande Kawrah

OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 12/10/2020

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:

All Dry

Sediment level (% total storage):

< 5%

Outflow (cfs):

0

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

NAME OF INSPECTOR: Miranda Kawcak

OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 12/10/20

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
< 5%
0

FEATURES	PROBLEM		COMMENTS
	YES	NO	
EROSIONAL			
Rills & Gullies on Embankment		✓	
Inadequate Vegetation		✓	
Outlet Channel Erosion		✓	
Burrows		✓	
Other		✓	
STRUCTURAL			
Differential Settling		✓	
Cracks or slides		✓	
Seepage		✓	
Other		✓	
APPURTENANT STRUCTURES			
Defective Spillways		✓	
Dewatering Device Clogged		✓	
Faulty Gates, Baffles, Pump		✓	
Other			
ADDITIONAL COMMENTS: <u>Part of SL4 Bond release upcoming</u>			
MAINTENANCE REQUIRED:			

NAME OF INSPECTOR: Miande Kawrak

OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 12/10/20

POND INSPECTION

1	2	3	4
9-P1	9-P2	9-P3	9-P4
SED. POND ✓	SED. POND ✓	SED. POND ✓	SED. POND ✓
024			014

CDFS OUTFALL #

OPERATIONAL STATUS AT TIME OF INSPECTION

Approximate water level:

All Dry

Sediment level (% total storage):

45%

Outflow (cfs):

0

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

NAME OF INSPECTOR: Muande Kawuka

OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 12/10/20

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:

All Dry

Sediment level (% total storage):

25%

Outflow (cfs):

0

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

NAME OF INSPECTOR: Muanda Kaweah

OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 12/10/20

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:

All Dry

Sediment level (% total storage):

< 5%

Outflow (cfs):

0

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

NAME OF INSPECTOR: Muanda Kawaka

OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 12/10/20

POND INSPECTION

1	2	3	4
SH-P1	SH-P2		
SED. POND	SED. POND		
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
011	012		

CDFS OUTFALL #

OPERATIONAL STATUS AT TIME OF INSPECTION

Approximate water level:

Sediment level (% total storage):

Outflow (cfs):

All Dry
< 5%
0

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

NAME OF INSPECTOR: Muade Kawcah

OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 12/10/20

POND INSPECTION

	1	2	3	4
5A-P1				
SED. POND	<input checked="" type="checkbox"/>			

CDFS OUTFALL #

009

OPERATIONAL STATUS AT TIME OF INSPECTION

Approximate water level:

Dry

Sediment level (% total storage):

50%

Outflow (cfs):

0

FEATURES	PROBLEM		COMMENTS
	YES	NO	
EROSIONAL			
Rills & Gullies on Embankment		<input checked="" type="checkbox"/>	
Inadequate Vegetation		<input checked="" type="checkbox"/>	
Outlet Channel Erosion		<input checked="" type="checkbox"/>	
Burrows		<input checked="" type="checkbox"/>	
Other		<input checked="" type="checkbox"/>	
STRUCTURAL			
Differential Settling		<input checked="" type="checkbox"/>	
Cracks or slides		<input checked="" type="checkbox"/>	
Seepage		<input checked="" type="checkbox"/>	
Other		<input checked="" type="checkbox"/>	
APPURTENANT STRUCTURES			
Defective Spillways		<input checked="" type="checkbox"/>	
Dewatering Device Clogged		<input checked="" type="checkbox"/>	
Faulty Gates, Baffles, Pump		<input checked="" type="checkbox"/>	
Other			
ADDITIONAL COMMENTS:			
Reclamation of portal area to continue in 2021			
MAINTENANCE REQUIRED: None			

NAME OF INSPECTOR: Muanda Kawca

OPERATOR: EMPIRE CORPORATION

MINE: EMPIRE NOS. 5 & 6 MINES

DATE OF INSPECTION: 12/10/20

POND INSPECTION

	1	2	3	4
WASTEWATER				
TREATMENT				

CDFS OUTFALL #

023

OPERATIONAL STATUS AT TIME OF INSPECTION

Approximate water level:

Reclaimed

Sediment level (% total storage):

Outflow (cfs):

FEATURES	PROBLEM		COMMENTS
	YES	NO	
EROSIONAL Rills & Gullies on Embankment Inadequate Vegetation Outlet Channel Erosion Burrows Other		NA	
STRUCTURAL Differential Settling Cracks or slides Seepage Other			
APPURTENANT STRUCTURES Defective Spillways Dewatering Device Clogged Faulty Gates, Baffles, Pump Other			
ADDITIONAL COMMENTS: <u>Reclaimed 2018</u>			
MAINTENANCE REQUIRED:			

NAME OF INSPECTOR: Mande Kawach

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: 12/10/20

INSPECTOR SIGNATURE: Minda Kawcak

INSPECTOR TITLE: Environmental Mngr

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:

Surface waste pile was recently topsoiled
to final surface elevation. Pile is stable &
will be planted in spring 2021. An average
of 1 foot of topsoil covers pile area.