

SEDIMENT POND CERTIFICATION

Permittee: Rosebud Mining Company Site Name: Mine 78 Surface No. 3 Strip SMP No.: TBD
 Engineer/Land Surveyor: TBD Structure ID #: Sed. Pond No. 1 NPDES Outfall ID # 001
 Location (point of discharge): Latitude (DMS): 40° 14' 35.68" Longitude (DMS): 78° 48' 29.40"
 Drainage Area: 4.2 acres Design Storm: 25 year / 24 hour Rainfall Amount: 4.3 inches
 Average Watershed Slope: 24% Land Use: Forestland Soil Type: C Curve Number: 85
 Peak Discharge: 22.4 cubic feet/second NPDES Average Flow: 0.7 mgd NPDES Design Flow: 3.0 mgd

	<i>Permit Application</i>	<i>As Constructed</i>	
Embankment	Top Width (Minimum)	<u>10'</u>	_____
	Outside Slope (Maximum) (H:V)	<u>2:1</u>	_____
	Inside Slope (Maximum) (H:V)	<u>3:1</u>	_____
	Top Elevation	<u>1940.0</u>	_____
	Bottom Elevation	<u>1928.0</u>	_____
	Upstream Toe Elevation	<u>1930.0</u>	_____
	Downstream Toe Elevation	<u>1897.0</u>	_____
	Type of Cover	<u>Vegetation</u>	_____
	Incised Slope (if any)	_____	_____
	Inside Slope (Maximum) (H:V)	<u>2:1</u>	_____
Top Elevation	<u>1930.0</u>	_____	
Bottom Elevation	<u>1928.0</u>	_____	
Principal Spillway	Type	<u>CPP</u>	_____
	Conduit Diameter (if barrel/riser give both)	<u>12"/12"</u>	_____
	Inlet Elevation	<u>1936.0</u>	_____
	Outlet Protection	<u>Energy Dissipator</u>	_____
	Spillway Capacity (cubic feet/second)	<u>3.78 cfs (max)</u>	_____
Dewatering Device	Type/Size	<u>4" PVC</u>	_____
	Inlet Elevation	<u>1932.2</u>	_____
	Discharge Regulation (self-draining or valved)	<u>Valved</u>	_____
	Discharge Capacity (cubic feet/second)	<u>0.91 cfs (max)</u>	_____
	Time to Dewater Full Pond	<u>0.5 days (open valve)</u>	_____
Emergency Spillway	Type	<u>Trapezoidal Channel</u>	_____
	Width	<u>10.0'</u>	_____
	Depth (with 2 feet of freeboard)	<u>1.0' + 2.0' = 3.0'</u>	_____
	Length	<u>50.0'</u>	_____
	Sideslopes (H:V)	<u>2:1</u>	_____
	Crest Elevation	<u>1937.0</u>	_____
	Slope	<u>2%</u>	_____
	Type of Lining/Protection	<u>R-3 rip-rap</u>	_____
	Spillway Capacity (provide design calculations)	<u>24.0 cfs</u>	_____
Storage Capacity	Length @ Bottom	<u>70.0'</u>	_____
	Width @ Bottom	<u>15.0'</u>	_____
	Length @ Dewatering Device	<u>87.0'</u>	_____
	Width @ Dewatering Device	<u>36.0'</u>	_____
	Volume @ Dewatering Device	<u>8,520 cf</u>	_____
	Length @ Principal Spillway	<u>102.0'</u>	_____
	Width @ Principal Spillway	<u>55.0'</u>	_____
	Volume @ Principal Spillway	<u>24,933 cf</u>	_____
	Length @ Crest of Emergency Spillway	<u>106.0'</u>	_____
	Width @ Crest of Emergency Spillway	<u>60.0'</u>	_____
	Volume @ Crest of Emergency Spillway	<u>30,915 cf</u>	_____

Will the sediment pond be constructed in previously disturbed, fractured, or unconsolidated material? Yes No
 If yes, specify the type of liner that will be used: Not applicable.

SEDIMENT POND CONSTRUCTION CERTIFICATION

Permittee: Rosebud Mining Company Site Name: Mine 78 Surface No. 3 Mine SMP No.: TBD
 Engineer/Land Surveyor: TBD Structure ID #: 001 NPDES Outfall ID #: 001

1. Has the facility been constructed at the location shown in the approved permit? Yes No
2. Is the emergency spillway constructed at the location shown in the approved plan? Yes No
3. Is the principal spillway constructed at the location shown in the approved plan? Yes No NA
4. Is the dewatering device constructed at the location shown in the approved plan? Yes No
5. Are the collection channel inlets constructed at the location shown in the approved plan? Yes No
6. Do the collection channel inlets have adequate inlet protection? Yes No
7. Has the liner been installed in accordance with the approved plan? Yes No NA
8. Has the non-discharge alternative been constructed in accordance with the approved plan? Yes No NA
9. Was coal encountered during construction of the pond? Yes No
10. If yes, was a liner used? Yes No
11. Identify any conditions or deficiencies in the facility that need to be corrected. NA

Stage of Construction

(specify stage e.g. layout, impoundment/embankment construction, spillway/piping installation, non-discharge alternative construction)

	Date of Inspection	Inspected By
_____	_____	_____
_____	_____	_____
_____	_____	_____

Supervising Professional Engineer/Registered Professional Land Surveyor _____

Address and phone _____

I certify in accordance with 25 Pa Code Section 77.531, 87.112, 89.101, or 90.112 that the above-mentioned structure is complete and has been constructed.

 Signature of Registered Professional Engineer/Registered Professional Land Surveyor Date

 Registration Number and Expiration Date

 Signature of Permittee or Responsible Official Date

SEAL

 Title

SEDIMENT POND CERTIFICATION

Permittee: Rosebud Mining Company Site Name: Mine 78 Surface No. 3 Strip SMP No.: TBD
 Engineer/Land Surveyor: TBD Structure ID #: Sed. Pond No. 2 NPDES Outfall ID # 002
 Location (point of discharge): Latitude (DMS): 40° 14' 17.30" Longitude (DMS): 78° 48' 06.18"
 Drainage Area: 24.9 acres Design Storm: 50 year / 24 hour Rainfall Amount: 4.3 inches
 Average Watershed Slope: 29% Land Use: Forestland Soil Type: C Curve Number: 85
 Peak Discharge: 109.3 cubic feet/second NPDES Average Flow: 0.8 mgd NPDES Design Flow: 3.1 mgd

		<i>Permit Application</i>	<i>As Constructed</i>
Embankment	Top Width (Minimum)	<u>10'</u>	_____
	Outside Slope (Maximum) (H:V)	<u>2:1</u>	_____
	Inside Slope (Maximum) (H:V)	<u>3:1</u>	_____
	Top Elevation	<u>1812.0</u>	_____
	Bottom Elevation	<u>1797.0</u>	_____
	Upstream Toe Elevation	<u>1804.0</u>	_____
	Downstream Toe Elevation	<u>1799.0</u>	_____
	Type of Cover	<u>Vegetation</u>	_____
	Incised Slope (if any)	_____	_____
	Inside Slope (Maximum) (H:V)	<u>2:1</u>	_____
Top Elevation	<u>1804.0</u>	_____	
Bottom Elevation	<u>1797.0</u>	_____	
Principal Spillway	Type	<u>CPP</u>	_____
	Conduit Diameter (if barrel/riser give both)	<u>12"/12"</u>	_____
	Inlet Elevation	<u>1807.0</u>	_____
	Outlet Protection	<u>Energy Dissipator</u>	_____
	Spillway Capacity (cubic feet/second)	<u>3.78 cfs (max)</u>	_____
Dewatering Device	Type/Size	<u>4" PVC</u>	_____
	Inlet Elevation	<u>1801.1</u>	_____
	Discharge Regulation (self-draining or valved)	<u>Valved</u>	_____
	Discharge Capacity (cubic feet/second)	<u>1.1 cfs (max)</u>	_____
	Time to Dewater Full Pond	<u>2.3 days (open valve)</u>	_____
Emergency Spillway	Type	<u>Trapezoidal Channel</u>	_____
	Width	<u>14.0'</u>	_____
	Depth (with 2 feet of freeboard)	<u>2.0' + 2.0' = 4.0'</u>	_____
	Length	<u>40.0'</u>	_____
	Sideslopes (H:V)	<u>2:1</u>	_____
	Crest Elevation	<u>1808.0</u>	_____
	Slope	<u>2%</u>	_____
	Type of Lining/Protection	<u>R-3 rip-rap</u>	_____
	Spillway Capacity (provide design calculations)	<u>111.0 cfs</u>	_____
Storage Capacity	Length @ Bottom	<u>210.0'</u>	_____
	Width @ Bottom	<u>40.0'</u>	_____
	Length @ Dewatering Device	<u>228.0'</u>	_____
	Width @ Dewatering Device	<u>63.0'</u>	_____
	Volume @ Dewatering Device	<u>50,659 cf</u>	_____
	Length @ Principal Spillway	<u>250.0'</u>	_____
	Width @ Principal Spillway	<u>9.0'</u>	_____
	Volume @ Principal Spillway	<u>151,167 cf</u>	_____
	Length @ Crest of Emergency Spillway	<u>254.0'</u>	_____
	Width @ Crest of Emergency Spillway	<u>95.0'</u>	_____
	Volume @ Crest of Emergency Spillway	<u>174,478 cf</u>	_____

Will the sediment pond be constructed in previously disturbed, fractured, or unconsolidated material? Yes No
 If yes, specify the type of liner that will be used: Not applicable.

SEDIMENT POND CERTIFICATION

Permittee: Rosebud Mining Company Site Name: Mine 78 Surface No. 3 Strip SMP No.: TBD
 Engineer/Land Surveyor: TBD Structure ID #: Sed. Pond No. 3 NPDES Outfall ID # 003
 Location (point of discharge): Latitude (DMS): 40° 14' 08.31" Longitude (DMS): 78° 47' 20.07"
 Drainage Area: 9.0 acres Design Storm: 25 year / 24 hour Rainfall Amount: 4.3 inches
 Average Watershed Slope: 33% Land Use: Forestland Soil Type: C Curve Number: 85
 Peak Discharge: 47.1 cubic feet/second NPDES Average Flow: 0.8 mgd NPDES Design Flow: 3.0 mgd

	<i>Permit Application</i>	<i>As Constructed</i>	
Embankment	Top Width (Minimum)	<u>10'</u>	_____
	Outside Slope (Maximum) (H:V)	<u>2:1</u>	_____
	Inside Slope (Maximum) (H:V)	<u>3:1</u>	_____
	Top Elevation	<u>1943.0</u>	_____
	Bottom Elevation	<u>1929.8</u>	_____
	Upstream Toe Elevation	<u>N/A</u>	_____
	Downstream Toe Elevation	<u>1863.5</u>	_____
	Type of Cover	<u>Vegetation</u>	_____
	Incised Slope (if any)	_____	_____
	Inside Slope (Maximum) (H:V)	<u>N/A</u>	_____
Top Elevation	<u>N/A</u>	_____	
Bottom Elevation	<u>N/A</u>	_____	
Principal Spillway	Type	<u>CPP</u>	_____
	Conduit Diameter (if barrel/riser give both)	<u>12"/12"</u>	_____
	Inlet Elevation	<u>1938.8</u>	_____
	Outlet Protection	<u>Energy Dissipator</u>	_____
	Spillway Capacity (cubic feet/second)	<u>3.78 cfs (max)</u>	_____
Dewatering Device	Type/Size	<u>4" PVC</u>	_____
	Inlet Elevation	<u>1934.3</u>	_____
	Discharge Regulation (self-draining or valved)	<u>Valved</u>	_____
	Discharge Capacity (cubic feet/second)	<u>0.96 cfs (max)</u>	_____
	Time to Dewater Full Pond	<u>0.85 days (open valve)</u>	_____
Emergency Spillway	Type	<u>Trapezoidal Channel</u>	_____
	Width	<u>16.0'</u>	_____
	Depth (with 2 feet of freeboard)	<u>1.2' + 2.0' = 3.2'</u>	_____
	Length	<u>60.0'</u>	_____
	Sideslopes (H:V)	<u>2:1</u>	_____
	Crest Elevation	<u>1939.8</u>	_____
	Slope	<u>2%</u>	_____
	Type of Lining/Protection	<u>R-3 rip-rap</u>	_____
	Spillway Capacity (provide design calculations)	<u>51.0 cfs</u>	_____
Storage Capacity	Length @ Bottom	<u>140.0'</u>	_____
	Width @ Bottom	<u>15.0'</u>	_____
	Length @ Dewatering Device	<u>158'</u>	_____
	Width @ Dewatering Device	<u>38'</u>	_____
	Volume @ Dewatering Device	<u>18,350 cf</u>	_____
	Length @ Principal Spillway	<u>176'</u>	_____
	Width @ Principal Spillway	<u>60'</u>	_____
	Volume @ Principal Spillway	<u>54,540 cf</u>	_____
	Length @ Crest of Emergency Spillway	<u>180'</u>	_____
	Width @ Crest of Emergency Spillway	<u>65'</u>	_____
	Volume @ Crest of Emergency Spillway	<u>65,667 cf</u>	_____

Will the sediment pond be constructed in previously disturbed, fractured, or unconsolidated material? Yes No

If yes, specify the type of liner that will be used: Not applicable.

SEDIMENT POND CERTIFICATION

Permittee: Rosebud Mining Company Site Name: Mine 78 Surface No. 3 Strip SMP No.: TBD
 Engineer/Land Surveyor: TBD Structure ID #: Sed. Pond No. 4 NPDES Outfall ID # 004
 Location (point of discharge): Latitude (DMS): 40° 14' 12.85" Longitude (DMS): 78° 47' 00.24"
 Drainage Area: 10.1 acres Design Storm: 25 year / 24 hour Rainfall Amount: 4.3 inches
 Average Watershed Slope: 36% Land Use: Forestland Soil Type: C Curve Number: 85
 Peak Discharge: 52.7 cubic feet/second NPDES Average Flow: 0.7 mgd NPDES Design Flow: 3.0 mgd

	<i>Permit Application</i>	<i>As Constructed</i>	
Embankment	Top Width (Minimum)	<u>10'</u>	
	Outside Slope (Maximum) (H:V)	<u>2:1</u>	
	Inside Slope (Maximum) (H:V)	<u>3:1</u>	
	Top Elevation	<u>1975.0</u>	
	Bottom Elevation	<u>1961.8</u>	
	Upstream Toe Elevation	<u>1965.0</u>	
	Downstream Toe Elevation	<u>1932.5</u>	
	Type of Cover	<u>Vegetation</u>	
	Incised Slope (if any)		
	Inside Slope (Maximum) (H:V)	<u>2:1</u>	
Top Elevation	<u>1965.5</u>		
Bottom Elevation	<u>1961.8</u>		
Principal Spillway	Type	<u>CPP</u>	
	Conduit Diameter (if barrel/riser give both)	<u>12"/12"</u>	
	Inlet Elevation	<u>1970.8</u>	
	Outlet Protection	<u>Energy Dissipator</u>	
	Spillway Capacity (cubic feet/second)	<u>3.78 cfs (max)</u>	
Dewatering Device	Type/Size	<u>4" PVC</u>	
	Inlet Elevation	<u>1966.3</u>	
	Discharge Regulation (self-draining or valved)	<u>Valved</u>	
	Discharge Capacity (cubic feet/second)	<u>0.97 cfs (max)</u>	
	Time to Dewater Full Pond	<u>0.88 days (open valve)</u>	
Emergency Spillway	Type	<u>Trapezoidal Channel</u>	
	Width	<u>18.0'</u>	
	Depth (with 2 feet of freeboard)	<u>1.2' + 2.0' = 3.2'</u>	
	Length	<u>40.0'</u>	
	Sideslopes (H:V)	<u>2:1</u>	
	Crest Elevation	<u>1971.8</u>	
	Slope	<u>2%</u>	
	Type of Lining/Protection	<u>R-3 rip-rap</u>	
	Spillway Capacity (provide design calculations)	<u>58.0 cfs</u>	
Storage Capacity	Length @ Bottom	<u>135.0'</u>	
	Width @ Bottom	<u>20.0'</u>	
	Length @ Dewatering Device	<u>153'</u>	
	Width @ Dewatering Device	<u>43'</u>	
	Volume @ Dewatering Device	<u>20,402 cf</u>	
	Length @ Principal Spillway	<u>171'</u>	
	Width @ Principal Spillway	<u>65'</u>	
	Volume @ Principal Spillway	<u>59,738 cf</u>	
	Length @ Crest of Emergency Spillway	<u>175'</u>	
	Width @ Crest of Emergency Spillway	<u>70'</u>	
	Volume @ Crest of Emergency Spillway	<u>71,417 cf</u>	

Will the sediment pond be constructed in previously disturbed, fractured, or unconsolidated material? Yes No

If yes, specify the type of liner that will be used: Not applicable.

SEDIMENT POND CERTIFICATION

Permittee: Rosebud Mining Company Site Name: Mine 78 Surface No. 3 Strip SMP No.: TBD
 Engineer/Land Surveyor: _____ Structure ID #: Sed. Pond No. 5 NPDES Outfall ID # 005
 Location (point of discharge): Latitude (DMS): 40° 14' 23.8" Longitude (DMS): 78° 47' 47.4"
 Drainage Area: 4.4 acres Design Storm: 25 year / 24 hour Rainfall Amount: 4.3 inches
 Average Watershed Slope: 21% Land Use: Forestland Soil Type: C Curve Number: 85
 Peak Discharge: 23.3 cubic feet/second NPDES Average Flow: 0.7 mgd NPDES Design Flow: 3.0 mgd

		<i>Permit Application</i>	<i>As Constructed</i>
Embankment	Top Width (Minimum)	<u>10'</u>	_____
	Outside Slope (Maximum) (H:V)	<u>2:1</u>	_____
	Inside Slope (Maximum) (H:V)	<u>3:1</u>	_____
	Top Elevation	<u>2012.0</u>	_____
	Bottom Elevation	<u>2000.0</u>	_____
	Upstream Toe Elevation	<u>2000.0</u>	_____
	Downstream Toe Elevation	<u>1968.0</u>	_____
	Type of Cover	<u>Vegetation</u>	_____
	Incised Slope (if any)	_____	_____
	Inside Slope (Maximum) (H:V)	<u>N/A</u>	_____
Top Elevation	<u>N/A</u>	_____	
Bottom Elevation	<u>N/A</u>	_____	
Principal Spillway	Type	<u>CPP</u>	_____
	Conduit Diameter (if barrel/riser give both)	<u>12"/12"</u>	_____
	Inlet Elevation	<u>2008.0</u>	_____
	Outlet Protection	<u>Energy Dissipator</u>	_____
	Spillway Capacity (cubic feet/second)	<u>3.78 cfs (max)</u>	_____
Dewatering Device	Type/Size	<u>4" PVC</u>	_____
	Inlet Elevation	<u>2004.3</u>	_____
	Discharge Regulation (self-draining or valved)	<u>Valved</u>	_____
	Discharge Capacity (cubic feet/second)	<u>0.90 cfs (max)</u>	_____
	Time to Dewater Full Pond	<u>0.5 days (open valve)</u>	_____
Emergency Spillway	Type	<u>Trapezoidal Channel</u>	_____
	Width	<u>10.0'</u>	_____
	Depth (with 2 feet of freeboard)	<u>1.0' + 2.0' = 3.0'</u>	_____
	Length	<u>60.0'</u>	_____
	Sideslopes (H:V)	<u>2:1</u>	_____
	Crest Elevation	<u>209.0</u>	_____
	Slope	<u>2%</u>	_____
	Type of Lining/Protection	<u>R-3 rip-rap</u>	_____
	Spillway Capacity (provide design calculations)	<u>24.0 cfs</u>	_____
Storage Capacity	Length @ Bottom	<u>70.0'</u>	_____
	Width @ Bottom	<u>15.0'</u>	_____
	Length @ Dewatering Device	<u>87.0'</u>	_____
	Width @ Dewatering Device	<u>37.0'</u>	_____
	Volume @ Dewatering Device	<u>8,835 cf</u>	_____
	Length @ Principal Spillway	<u>102.0'</u>	_____
	Width @ Principal Spillway	<u>55.0'</u>	_____
	Volume @ Principal Spillway	<u>24,933 cf</u>	_____
	Length @ Crest of Emergency Spillway	<u>106.0'</u>	_____
	Width @ Crest of Emergency Spillway	<u>60.0'</u>	_____
	Volume @ Crest of Emergency Spillway	<u>30,915 cf</u>	_____

Will the sediment pond be constructed in previously disturbed, fractured, or unconsolidated material? Yes No
 If yes, specify the type of liner that will be used: Not applicable.

SEDIMENT POND CONSTRUCTION CERTIFICATION

Permittee: Rosebud Mining Company Site Name: Mine 78 Surface No. 3 Mine SMP No.: TBD
 Engineer/Land Surveyor: TBD Structure ID #: 003 NPDES Outfall ID #: 003

1. Has the facility been constructed at the location shown in the approved permit? Yes No
2. Is the emergency spillway constructed at the location shown in the approved plan? Yes No
3. Is the principal spillway constructed at the location shown in the approved plan? Yes No NA
4. Is the dewatering device constructed at the location shown in the approved plan? Yes No
5. Are the collection channel inlets constructed at the location shown in the approved plan? Yes No
6. Do the collection channel inlets have adequate inlet protection? Yes No
7. Has the liner been installed in accordance with the approved plan? Yes No NA
8. Has the non-discharge alternative been constructed in accordance with the approved plan? Yes No NA
9. Was coal encountered during construction of the pond? Yes No
10. If yes, was a liner used? Yes No
11. Identify any conditions or deficiencies in the facility that need to be corrected. NA

Stage of Construction

(specify stage e.g. layout, impoundment/embankment construction, spillway/piping installation, non-discharge alternative construction)

	Date of Inspection	Inspected By
_____	_____	_____
_____	_____	_____
_____	_____	_____

Supervising Professional Engineer/Registered Professional Land Surveyor _____

Address and phone _____

I certify in accordance with 25 Pa Code Section 77.531, 87.112, 89.101, or 90.112 that the above-mentioned structure is complete and has been constructed.

 Signature of Registered Professional Engineer/Registered Professional Land Surveyor Date

 Registration Number and Expiration Date

 Signature of Permittee or Responsible Official Date

SEAL

 Title

SEDIMENT POND CONSTRUCTION CERTIFICATION

Permittee: Rosebud Mining Company Site Name: Mine 78 Surface No. 3 Mine SMP No.: TBD
 Engineer/Land Surveyor: TBD Structure ID #: 004 NPDES Outfall ID #: 004

1. Has the facility been constructed at the location shown in the approved permit? Yes No
2. Is the emergency spillway constructed at the location shown in the approved plan? Yes No
3. Is the principal spillway constructed at the location shown in the approved plan? Yes No NA
4. Is the dewatering device constructed at the location shown in the approved plan? Yes No
5. Are the collection channel inlets constructed at the location shown in the approved plan? Yes No
6. Do the collection channel inlets have adequate inlet protection? Yes No
7. Has the liner been installed in accordance with the approved plan? Yes No NA
8. Has the non-discharge alternative been constructed in accordance with the approved plan? Yes No NA
9. Was coal encountered during construction of the pond? Yes No
10. If yes, was a liner used? Yes No
11. Identify any conditions or deficiencies in the facility that need to be corrected. NA

Stage of Construction

(specify stage e.g. layout, impoundment/embankment construction, spillway/piping installation, non-discharge alternative construction)

	Date of Inspection	Inspected By
_____	_____	_____
_____	_____	_____
_____	_____	_____

Supervising Professional Engineer/Registered Professional Land Surveyor _____

Address and phone _____

I certify in accordance with 25 Pa Code Section 77.531, 87.112, 89.101, or 90.112 that the above-mentioned structure is complete and has been constructed.

 Signature of Registered Professional Engineer/Registered Professional Land Surveyor Date

 Registration Number and Expiration Date

 Signature of Permittee or Responsible Official Date

SEAL

 Title

SEDIMENT POND CONSTRUCTION CERTIFICATION

Permittee: Rosebud Mining Company Site Name: Mine 78 Surface No. 3 Mine SMP No.: TBD
 Engineer/Land Surveyor: TBD Structure ID #: 003 NPDES Outfall ID #: 003

1. Has the facility been constructed at the location shown in the approved permit? Yes No
2. Is the emergency spillway constructed at the location shown in the approved plan? Yes No
3. Is the principal spillway constructed at the location shown in the approved plan? Yes No NA
4. Is the dewatering device constructed at the location shown in the approved plan? Yes No
5. Are the collection channel inlets constructed at the location shown in the approved plan? Yes No
6. Do the collection channel inlets have adequate inlet protection? Yes No
7. Has the liner been installed in accordance with the approved plan? Yes No NA
8. Has the non-discharge alternative been constructed in accordance with the approved plan? Yes No NA
9. Was coal encountered during construction of the pond? Yes No
10. If yes, was a liner used? Yes No
11. Identify any conditions or deficiencies in the facility that need to be corrected. NA

Stage of Construction

(specify stage e.g. layout, impoundment/embankment construction, spillway/piping installation, non-discharge alternative construction)

	Date of Inspection	Inspected By
_____	_____	_____
_____	_____	_____
_____	_____	_____

Supervising Professional Engineer/Registered Professional Land Surveyor _____

Address and phone _____

I certify in accordance with 25 Pa Code Section 77.531, 87.112, 89.101, or 90.112 that the above-mentioned structure is complete and has been constructed.

 Signature of Registered Professional Engineer/Registered Professional Land Surveyor Date

 Registration Number and Expiration Date

 Signature of Permittee or Responsible Official Date

SEAL

 Title

SEDIMENT POND CONSTRUCTION CERTIFICATION

Permittee: Rosebud Mining Company Site Name: Mine 78 Surface No. 3 Mine SMP No.: TBD
 Engineer/Land Surveyor: TBD Structure ID #: 002 NPDES Outfall ID #: 002

1. Has the facility been constructed at the location shown in the approved permit? Yes No
2. Is the emergency spillway constructed at the location shown in the approved plan? Yes No
3. Is the principal spillway constructed at the location shown in the approved plan? Yes No NA
4. Is the dewatering device constructed at the location shown in the approved plan? Yes No
5. Are the collection channel inlets constructed at the location shown in the approved plan? Yes No
6. Do the collection channel inlets have adequate inlet protection? Yes No
7. Has the liner been installed in accordance with the approved plan? Yes No NA
8. Has the non-discharge alternative been constructed in accordance with the approved plan? Yes No NA
9. Was coal encountered during construction of the pond? Yes No
10. If yes, was a liner used? Yes No
11. Identify any conditions or deficiencies in the facility that need to be corrected. NA

Stage of Construction

(specify stage e.g. layout, impoundment/embankment construction, spillway/piping installation, non-discharge alternative construction)

	Date of Inspection	Inspected By
_____	_____	_____
_____	_____	_____
_____	_____	_____

Supervising Professional Engineer/Registered Professional Land Surveyor _____

Address and phone _____

I certify in accordance with 25 Pa Code Section 77.531, 87.112, 89.101, or 90.112 that the above-mentioned structure is complete and has been constructed.

 Signature of Registered Professional Engineer/Registered Professional Land Surveyor Date

 Registration Number and Expiration Date

 Signature of Permittee or Responsible Official Date

SEAL

 Title

TREATMENT POND CERTIFICATION

Permittee: Rosebud Mining Company Site Name: Mine 78 Surface No. 3 Strip SMP No.: TBD

Engineer/Land Surveyor: _____ Structure ID #: TP 006 NPDES Outfall ID #: 006

Location (point of discharge): Latitude (DMS): _____ Longitude (DMS): _____

Treatment Basin Sizing Calculation: $V = 1.33 (A R C) + (\text{Expected Groundwater Inflow Rate to Pit} \times \text{Design Detention Time})$

Drainage Area to System: 1.86 acres Design Storm: 10 year / 24-hour Rainfall Amount: 4.3 inches

Detention Time: 6 x 2 = 12 hours Expected Groundwater Inflow Rate to Pit: 0.0 gpm

Required Basin Volume: 3,956 cubic feet NPDES Average Flow: 0.3 mgd NPDES Design Flow: 1.3 mgd

		<i>Permit Application</i>	<i>As Constructed</i>
Basin #: <u>1</u> Embankment	Top Width (Minimum)	8'	
	Outside Slope (Maximum) (H:V)	2:1	
	Inside Slope (Maximum) (H:V)	2:1	
	Top Elevation (with 2 feet of freeboard)	1945	
	Bottom Elevation	1935	
	Upstream Toe Elevation	1935	
	Downstream Toe Elevation	1930	
	Type of Cover	Vegetation	
	Incised Slope (if any)	N/A	
	Inside Slope (Maximum) (H:V)		
	Top Elevation		
	Bottom Elevation		
Basin #: <u>1</u> Spillway	Size/Type	6" PVC	
	Inlet Elevation	Splash Board	
	Outlet Protection	Splash Board	
	Spillway Capacity (cubic feet/second)	1.26	
Basin #: <u>1</u> Storage Capacity	Length @ Bottom	20.0'	
	Width @ Bottom	12.0'	
	Length @ Spillway	52.0'	
	Width @ Spillway	44.0'	
	Volume @ Spillway	8,747 cf	
	Sludge Cleanout Elevation	2.4'	
Basin #: <u>2</u> Embankment	Top Width (Minimum)	8'	
	Outside Slope (Maximum) (H:V)	2:1	
	Inside Slope (Maximum) (H:V)	2:1	
	Top Elevation (with 2 feet of freeboard)	1943	
	Bottom Elevation	1933	
	Upstream Toe Elevation	1933	
	Downstream Toe Elevation	1928	
	Type of Cover	Vegetation	
	Incised Slope (if any)	N/A	
	Inside Slope (Maximum) (H:V)		
	Top Elevation		
	Bottom Elevation		
Basin #: <u>2</u> Spillway	Size/Type	6" PVC	
	Inlet Elevation	Splash Board	
	Outlet Protection	Energy Dissipator	
	Spillway Capacity (cubic feet/second)	1.96	
Basin #: <u>2</u> Storage Capacity	Length @ Bottom	20.0'	
	Width @ Bottom	12.0'	
	Length @ Spillway	52.0'	
	Width @ Spillway	44.0'	
	Volume @ Spillway	8,747 cf	
	Sludge Cleanout Elevation	2.4'	

Will the treatment pond be constructed in previously disturbed, fractured, or unconsolidated material? Yes No

If yes, specify the type of liner that will be used: _____

Note: If additional basins are necessary, please complete and attach an additional form.

TREATMENT POND CONSTRUCTION CERTIFICATION

Permittee: Rosebud Mining Company Site Name: Mine 78 Surface No. 3 Mine SMP No.: TBD

Engineer/Land Surveyor: TBD Structure ID #: TP 006 NPDES Outfall ID #: 006

- 1. Has the facility been constructed at the location shown in the approved permit? Yes No
- 2. Is the spillway constructed at the location shown in the approved plan? Yes No
- 3. Has the liner been installed in accordance with the approved plan? Yes No NA
- 4. Has the non-discharge alternative been constructed in accordance with the approved plan? Yes No NA
- 5. Was coal encountered during construction of the pond? Yes No
- 6. If yes, was a liner used? Yes No
- 7. Identify any conditions or deficiencies in the facility that need to be corrected. NA

Stage of Construction

(specify stage e.g. layout, impoundment/embankment construction, spillway/piping installation, non-discharge alternative construction)

Date of Inspection

Inspected By

Stage of Construction	Date of Inspection	Inspected By
<hr/>	<hr/>	<hr/>
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<hr/>	<hr/>	<hr/>

Supervising Professional Engineer/Registered Professional Land Surveyor _____

Address and phone _____

I certify in accordance with 25 Pa Code Section 77.531, 87.112, 89.101, or 90.112 that the above-mentioned structure is complete and has been constructed.

Signature of Registered Professional Engineer/Registered Professional Land Surveyor Date

Registration Number and Expiration Date

SEAL

Signature of Permittee or Responsible Official Date

Title

TREATMENT POND CERTIFICATION

Permittee: Rosebud Mining Company Site Name: Mine 78 Surface No. 3 Strip SMP No.: TBD

Engineer/Land Surveyor: _____ Structure ID #: TP 007 NPDES Outfall ID #: 007

Location (point of discharge): Latitude (DMS): _____ Longitude (DMS): _____

Treatment Basin Sizing Calculation: $V = 1.33 (A R C) + (\text{Expected Groundwater Inflow Rate to Pit} \times \text{Design Detention Time})$

Drainage Area to System: 1.86 acres Design Storm: 10 year / 24-hour Rainfall Amount: 4.3 inches

Detention Time: 6 x 2 = 12 hours Expected Groundwater Inflow Rate to Pit: 0.0 gpm

Required Basin Volume: 3,956 cubic feet NPDES Average Flow: 0.3 mgd NPDES Design Flow: 1.3 mgd

		<i>Permit Application</i>	<i>As Constructed</i>
Basin #: <u>1</u> Embankment	Top Width (Minimum)	8'	
	Outside Slope (Maximum) (H:V)	2:1	
	Inside Slope (Maximum) (H:V)	2:1	
	Top Elevation (with 2 feet of freeboard)	1875	
	Bottom Elevation	1865	
	Upstream Toe Elevation	1965	
	Downstream Toe Elevation	1960	
	Type of Cover	Vegetation	
	Incised Slope (if any)	N/A	
	Inside Slope (Maximum) (H:V)		
	Top Elevation		
Bottom Elevation			
Basin #: <u>1</u> Spillway	Size/Type	6" PVC	
	Inlet Elevation	Splash Board	
	Outlet Protection	Splash Board	
	Spillway Capacity (cubic feet/second)	1.26	
Basin #: <u>1</u> Storage Capacity	Length @ Bottom	20.0'	
	Width @ Bottom	12.0'	
	Length @ Spillway	52.0'	
	Width @ Spillway	44.0'	
	Volume @ Spillway	8,747 cf	
	Sludge Cleanout Elevation	2.4'	
Basin #: <u>2</u> Embankment	Top Width (Minimum)	8'	
	Outside Slope (Maximum) (H:V)	2:1	
	Inside Slope (Maximum) (H:V)	2:1	
	Top Elevation (with 2 feet of freeboard)	1863	
	Bottom Elevation	1853	
	Upstream Toe Elevation	1953	
	Downstream Toe Elevation	1948	
	Type of Cover	Vegetation	
	Incised Slope (if any)	N/A	
	Inside Slope (Maximum) (H:V)		
	Top Elevation		
Bottom Elevation			
Basin #: <u>2</u> Spillway	Size/Type	6" PVC	
	Inlet Elevation	Splash Board	
	Outlet Protection	Energy Dissipator	
	Spillway Capacity (cubic feet/second)	1.96	
Basin #: <u>2</u> Storage Capacity	Length @ Bottom	20.0'	
	Width @ Bottom	12.0'	
	Length @ Spillway	52.0'	
	Width @ Spillway	44.0'	
	Volume @ Spillway	8,747 cf	
	Sludge Cleanout Elevation	2.4'	

Will the treatment pond be constructed in previously disturbed, fractured, or unconsolidated material? Yes No

If yes, specify the type of liner that will be used: _____

Note: If additional basins are necessary, please complete and attach an additional form.

TREATMENT POND CONSTRUCTION CERTIFICATION

Permittee: Rosebud Mining Company Site Name: Mine 78 Surface No. 3 Mine SMP No.: TBD

Engineer/Land Surveyor: TBD Structure ID #: TP 007 NPDES Outfall ID #: 007

- 1. Has the facility been constructed at the location shown in the approved permit? Yes No
- 2. Is the spillway constructed at the location shown in the approved plan? Yes No
- 3. Has the liner been installed in accordance with the approved plan? Yes No NA
- 4. Has the non-discharge alternative been constructed in accordance with the approved plan? Yes No NA
- 5. Was coal encountered during construction of the pond? Yes No
- 6. If yes, was a liner used? Yes No
- 7. Identify any conditions or deficiencies in the facility that need to be corrected. NA

Stage of Construction

(specify stage e.g. layout, impoundment/embankment construction, spillway/piping installation, non-discharge alternative construction)

Date of Inspection

Inspected By

Stage of Construction	Date of Inspection	Inspected By
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>

Supervising Professional Engineer/Registered Professional Land Surveyor _____

Address and phone _____

I certify in accordance with 25 Pa Code Section 77.531, 87.112, 89.101, or 90.112 that the above-mentioned structure is complete and has been constructed.

Signature of Registered Professional Engineer/Registered Professional Land Surveyor Date

Registration Number and Expiration Date

SEAL

Signature of Permittee or Responsible Official Date

Title

TREATMENT POND CERTIFICATION

Permittee: Rosebud Mining Company Site Name: Mine 78 Surface No. 3 Strip SMP No.: TBD

Engineer/Land Surveyor: _____ Structure ID #: TP 008 NPDES Outfall ID #: 008

Location (point of discharge): Latitude (DMS): _____ Longitude (DMS): _____

Treatment Basin Sizing Calculation: $V = 1.33 (A R C) + (\text{Expected Groundwater Inflow Rate to Pit} \times \text{Design Detention Time})$

Drainage Area to System: 1.86 acres Design Storm: 10 year / 24-hour Rainfall Amount: 4.3 inches

Detention Time: 6 x 2 = 12 hours Expected Groundwater Inflow Rate to Pit: 0.0 gpm

Required Basin Volume: 3,956 cubic feet NPDES Average Flow: 0.3 mgd NPDES Design Flow: 1.3 mgd

		<i>Permit Application</i>	<i>As Constructed</i>
Basin #: <u>1</u> Embankment	Top Width (Minimum)	8'	
	Outside Slope (Maximum) (H:V)	2:1	
	Inside Slope (Maximum) (H:V)	2:1	
	Top Elevation (with 2 feet of freeboard)	1930	
	Bottom Elevation	1920	
	Upstream Toe Elevation	1920	
	Downstream Toe Elevation	1915	
	Type of Cover	Vegetation	
	Incised Slope (if any)	N/A	
	Inside Slope (Maximum) (H:V)		
	Top Elevation		
Bottom Elevation			
Basin #: <u>1</u> Spillway	Size/Type	6" PVC	
	Inlet Elevation	Splash Board	
	Outlet Protection	Splash Board	
	Spillway Capacity (cubic feet/second)	1.26	
Basin #: <u>1</u> Storage Capacity	Length @ Bottom	20.0'	
	Width @ Bottom	12.0'	
	Length @ Spillway	52.0'	
	Width @ Spillway	44.0'	
	Volume @ Spillway	8,747 cf	
	Sludge Cleanout Elevation	2.4'	
Basin #: <u>2</u> Embankment	Top Width (Minimum)	8'	
	Outside Slope (Maximum) (H:V)	2:1	
	Inside Slope (Maximum) (H:V)	2:1	
	Top Elevation (with 2 feet of freeboard)	1928	
	Bottom Elevation	1918	
	Upstream Toe Elevation	1918	
	Downstream Toe Elevation	1913	
	Type of Cover	Vegetation	
	Incised Slope (if any)	N/A	
	Inside Slope (Maximum) (H:V)		
	Top Elevation		
Bottom Elevation			
Basin #: <u>2</u> Spillway	Size/Type	6" PVC	
	Inlet Elevation	Splash Board	
	Outlet Protection	Energy Dissipator	
	Spillway Capacity (cubic feet/second)	1.96	
Basin #: <u>2</u> Storage Capacity	Length @ Bottom	20.0'	
	Width @ Bottom	12.0'	
	Length @ Spillway	52.0'	
	Width @ Spillway	44.0'	
	Volume @ Spillway	8,747 cf	
	Sludge Cleanout Elevation	2.4'	

Will the treatment pond be constructed in previously disturbed, fractured, or unconsolidated material? Yes No

If yes, specify the type of liner that will be used: _____

Note: If additional basins are necessary, please complete and attach an additional form.

TREATMENT POND CONSTRUCTION CERTIFICATION

Permittee: Rosebud Mining Company Site Name: Mine 78 Surface No. 3 Mine SMP No.: TBD

Engineer/Land Surveyor: TBD Structure ID #: TP 008 NPDES Outfall ID #: 008

- 1. Has the facility been constructed at the location shown in the approved permit? Yes No
- 2. Is the spillway constructed at the location shown in the approved plan? Yes No
- 3. Has the liner been installed in accordance with the approved plan? Yes No NA
- 4. Has the non-discharge alternative been constructed in accordance with the approved plan? Yes No NA
- 5. Was coal encountered during construction of the pond? Yes No
- 6. If yes, was a liner used? Yes No
- 7. Identify any conditions or deficiencies in the facility that need to be corrected. NA

Stage of Construction

(specify stage e.g. layout, impoundment/embankment construction, spillway/piping installation, non-discharge alternative construction)

Date of Inspection

Inspected By

Stage of Construction	Date of Inspection	Inspected By
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<hr/>	<hr/>	<hr/>

Supervising Professional Engineer/Registered Professional Land Surveyor _____

Address and phone _____

I certify in accordance with 25 Pa Code Section 77.531, 87.112, 89.101, or 90.112 that the above-mentioned structure is complete and has been constructed.

Signature of Registered Professional Engineer/Registered Professional Land Surveyor Date

Registration Number and Expiration Date

SEAL

Signature of Permittee or Responsible Official Date

Title