

## Tyrone Mine Closure/Closeout Facility Characteristics Form

### 1A/1B Leach Stockpiles

Function	Ore stockpiles Active
Location Characteristics	No upstream issues No downstream issues Regional depth to ground water: <ul style="list-style-type: none"> <li>• 1A/1C: 100 to 580 ft., direction of flow is NE and Gettysburg Pit</li> <li>• 1B: 100 to 250 ft., direction of flow is SE</li> </ul> Medium upwind fetch, limited downwind fetch In Mimbres Basin drainage
Construction Method	End dumped Top surface bermed
Physical Characteristics	Very coarse grained Medium to high saturated hydraulic conductivity
Leach Status	Currently leached
Existing Engineering Measures	1A and 1B are addressed concurrently, interior slopes inside of the OPSDA will not be reclaimed

### Matrix of Costs Capital Cost/Facility<sup>1</sup>

Reclaimed Area (Acres)	273.0
<u>Item</u>	Capital Cost
Cover Material	\$5,073,328
Truck/Shovel	-
Top/Outslope Adjustment	\$299,807
Revegetation (Seed & Mulch)	\$369,915
Channels, Conduits & Berms	\$2,180,121
Other	-
Capital Cost Totals	\$7,923,171
Capital Cost/Acre	\$29,023

<sup>1</sup>Costs are based on Telesto Solutions Inc. Earthwork Cost Estimate dated June 2013.

**Tyrone Mine Closure/Closeout  
Facility Characteristics Form**

**2A/2B Leach and 2B Waste Stockpiles**

Function	Ore stockpiles (2A and 2B leach) Waste rock stockpile (2B waste)
Location Characteristics	No upstream issues Major channel along outslopes (i.e., Deadman Canyon) Regional depth to ground water is approximately 500 ft., direction of flow is E-NE Medium upwind fetch, medium downwind fetch Interior slopes are inside of OPSDA
Construction Method	End dumped Top surface bermed
Physical Characteristics	Very coarse grained Medium to high saturated hydraulic conductivity
Leach Status	Currently leached (2A leach) Non-leach (2B waste)
Existing Engineering Measures	PLS collection system to be maintained, and seepage collection system to be maintained or modified to accommodate new footprint; stormwater berms Interior slopes of 2A Stockpile will be reclaimed, interior slopes of 2B Stockpile inside of the OPSDA will not be reclaimed

**Matrix of Costs  
Capital Cost/Facility<sup>1</sup>**

Reclaimed Area (Acres)	487.0
<u>Item</u>	Capital Cost
Cover Material	\$12,150,429
Truck/Shovel	-
Top/Outslope Adjustment	\$5,214,514
Revegetation (Seed & Mulch)	\$659,874
Channels, Conduits & Berms	\$3,147,224
Other	-
Capital Cost Totals	\$21,172,040
Capital Cost/Acre	\$43,475

<sup>1</sup>Costs are based on Telesto Solutions Inc. Earthwork Cost Estimate dated June 2013.

**Tyrone Mine Closure/Closeout  
Facility Characteristics Form**

**2C, 4A, 4B, and 7B Leach Stockpiles**

Function	Ore stockpiles
Location Characteristics	No upstream issues Regional depth to ground water is approximately 500 ft., direction of flow is E-NE Medium upwind fetch, medium downwind fetch Interior slopes are inside of OPSDA / open pit
Construction Method	End dumped Top surface bermed
Physical Characteristics	Very coarse grained Medium to high saturated hydraulic conductivity
Leach Status	Currently leached
Existing Engineering Measures	Interior slopes of 2C and 4A stockpiles inside of the OPSDA will not be reclaimed. Slopes of all other stockpiles and stockpile areas will be reclaimed.

**Matrix of Costs  
Capital Cost/Facility<sup>1</sup>**

Reclaimed Area (Acres)	375.0
<u>Item</u>	Capital Cost
Cover Material	\$8,280,108
Truck/Shovel	-
Top/Outslope Adjustment	\$2,884,950
Revegetation (Seed & Mulch)	\$508,125
Channels, Conduits & Berms	\$1,722,733
Other	-
Capital Cost Totals	\$13,395,916
Capital Cost/Acre	\$35,722

<sup>1</sup>Costs are based on Telesto Solutions Inc. Earthwork Cost Estimate dated June 2013.

**Tyrone Mine Closure/Closeout  
Facility Characteristics Form**

**3A Leach Stockpile and 3B Waste Stockpile**

Function	Ore stockpile
Location Characteristics	No upstream issues No downstream issues Regional depth to ground water is approximately 100 to 350 ft., direction of flow is toward Main Pit and into Gila River Basin to existing perched and regional collection systems Medium upwind fetch, medium downwind fetch In Gila River Basin drainage
Construction Method	End dumped Top surface bermed
Physical Characteristics	Very coarse grained Medium to high saturated hydraulic conductivity
Leach Status	Currently leached
Existing Engineering Measures	PLS collection system, seepage collection system (to be relocated before regrading), existing regional and perched zone collection systems. Interior slopes of 3B Stockpile inside of the OPSDA will not be reclaimed. Slopes of all other stockpiles and stockpile areas will be reclaimed.

**Matrix of Costs  
Capital Cost/Facility<sup>1</sup>**

Reclaimed Area (Acres)	455.0
<u>Item</u>	Capital Cost
Cover Material	\$10,081,768
Truck/Shovel	\$26,486,125
Top/Outslope Adjustment	\$3,062,590
Revegetation (Seed & Mulch)	\$616,525
Channels, Conduits & Berms	\$2,205,347
Other	1,967,411
Capital Cost Totals	\$44,419,767
Capital Cost/Acre	\$97,626

<sup>1</sup>Costs are based on Telesto Solutions Inc. Earthwork Cost Estimate dated June 2013.

**Tyrone Mine Closure/Closeout  
Facility Characteristics Form**

**4C Leach Stockpile**

Function	Ore stockpile
Location Characteristics	No upstream issues No downstream issues Regional depth to ground water is less than 50 ft., direction of flow is NE Medium upwind fetch, medium downwind fetch
Construction Method	End dumped
Physical Characteristics	Very coarse grained Medium to high saturated hydraulic conductivity
Leach Status	Currently leached
Existing Engineering Measures	PLS collection system, seepage collection system

**Matrix of Costs  
Capital Cost/Facility<sup>1</sup>**

Reclaimed Area (Acres)	183.0
<u>Item</u>	Capital Cost
Cover Material	\$4,409,792
Truck/Shovel	-
Top/Outslope Adjustment	\$1,648,644
Revegetation (Seed & Mulch)	\$247,965
Channels, Conduits & Berms	\$1,355,672
Other	-
Capital Cost Totals	\$7,662,072
Capital Cost/Acre	\$41,869

<sup>1</sup>Costs are based on Telesto Solutions Inc. Earthwork Cost Estimate dated June 2013.

**Tyrone Mine Closure/Closeout  
Facility Characteristics Form**

**5A Waste/Overburden Stockpile**

Function	Overburden and waste stockpile
Location Characteristics	No upstream issues No downstream issues Regional depth to ground water is greater than 400 ft., direction of flow is towards Main Pit Medium upwind fetch, limited downwind fetch Portions of interior slopes within OPSDA
Construction Method	End dumped
Physical Characteristics	Coarse to very coarse grained Medium to high saturated hydraulic conductivity
Leach Status	Non-leach
Existing Engineering Measures	Portion of interior slopes within OPSDA will not be reclaimed Stormwater controls

**Matrix of Costs  
Capital Cost/Facility<sup>1</sup>**

Reclaimed Area (Acres)	371.0
<u>Item</u>	Capital Cost
Cover Material	\$6,098,908
Truck/Shovel	-
Top/Outslope Adjustment	\$5,081,022
Revegetation (Seed & Mulch)	\$502,705
Channels, Conduits & Berms	\$1,721,256
Other	-
Capital Cost Totals	\$13,403,891
Capital Cost/Acre	\$36,129

<sup>1</sup>Costs are based on Telesto Solutions Inc. Earthwork Cost Estimate dated June 2013.

**Tyrone Mine Closure/Closeout  
Facility Characteristics Form**

**6B Leach Stockpile**

Function	Ore stockpile
Location Characteristics	No upstream issues No downstream issues Regional depth to ground water is approximately 500 ft., direction of flow is toward Gettysburg and Main pits Medium upwind fetch, medium downwind fetch Within the OPSDA
Construction Method	End dumped
Physical Characteristics	Very coarse grained Medium to high saturated hydraulic conductivity
Leach Status	Currently leached
Existing Engineering Measures	Stormwater controls Slopes inside of the OPSDA will not be reclaimed

**Matrix of Costs  
Capital Cost/Facility<sup>1</sup>**

Reclaimed Area (Acres)	54.0
<u>Item</u>	<u>Capital Cost</u>
Cover Material	\$907,137
Truck/Shovel	-
Top/Outslope Adjustment	\$160,333
Revegetation (Seed & Mulch)	\$73,170
Channels, Conduits & Berms	\$330,891
Other	-
Capital Cost Totals	\$1,471,532
Capital Cost/Acre	\$27,251

<sup>1</sup>Costs are based on Telesto Solutions Inc. Earthwork Cost Estimate dated June 2013.

**Tyrone Mine Closure/Closeout  
Facility Characteristics Form**

**6C Leach Stockpile**

Function	Ore stockpile
Location Characteristics	Former Gettysburg In-Pit Stockpile No upstream issues No downstream issues Regional depth to ground water is approximately 500 ft., direction of flow is toward Gettysburg Pit Medium upwind fetch, medium downwind fetch Interior slopes within the OPSDA / open pit
Construction Method	End dumped
Physical Characteristics	Very coarse grained Medium to high saturated hydraulic conductivity
Leach Status	Currently leached
Existing Engineering Measures	Interior slopes within the OPSDA will not be reclaimed Stormwater controls

**Matrix of Costs  
Capital Cost/Facility<sup>1</sup>**

Reclaimed Area (Acres)	66.0
<u>Item</u>	Capital Cost
Cover Material	\$1,273,384
Truck/Shovel	-
Top/Outslope Adjustment	\$299,316
Revegetation (Seed & Mulch)	\$89,430
Channels, Conduits & Berms	\$859,211
Other	-
Capital Cost Totals	\$2,521,340
Capital Cost/Acre	\$38,202

<sup>1</sup>Costs are based on Telesto Solutions Inc. Earthwork Cost Estimate dated June 2013.



## Tyrone Mine Closure/Closeout Facility Characteristics Form

### 8C Sludge Disposal Area

Function	Future Sludge Disposal Site
Location Characteristics	Inside Main Pit, former Main Pit Stockpile, will be sludge disposal area during closure/post-closure No upstream issues No downstream issues Regional depth to ground water is 1200 feet below the current stockpile surface, Main Pit collects ground water within pit sump Limited upwind fetch, limited to downwind fetch Located within OPSDA
Construction Method	End dumped
Physical Characteristics	In-pit dumping Medium to high saturated hydraulic conductivity
Leach Status	Non-leach
Existing Engineering Measures	Stormwater controls Located within OPSDA. Only top surface will be reclaimed

### Matrix of Costs Capital Cost/Facility<sup>1</sup>

Reclaimed Area (Acres)	47.4
<u>Item</u>	<u>Capital Cost</u>
Cover Material	\$831,535
Truck/Shovel	-
Top/Outslope Adjustment	\$7,020
Revegetation (Seed & Mulch)	\$64,173
Channels, Conduits & Berms	-
Other	-
Capital Cost Totals	\$902,728
Capital Cost/Acre	\$19,061

<sup>1</sup>Costs are based on Telesto Solutions Inc. Earthwork Cost Estimate dated June 2013.

**Tyrone Mine Closure/Closeout  
Facility Characteristics Form**

**9A Overburden Stockpile**

Function	Overburden stockpile
Location Characteristics	No upstream issues No downstream issues Regional depth to ground water is approximately 100 to 350 ft., direction of flow is toward Main Pit and into Gila River Basin Medium upwind fetch, medium downwind fetch NW portion of stockpile is in Gila River Basin drainage
Construction Method	End dumped at initial 3 to 1 slope
Physical Characteristics	Very coarse grained Medium to high saturated hydraulic conductivity
Leach Status	Non-leach
Existing Engineering Measures	Stormwater controls

**Matrix of Costs  
Capital Cost/Facility<sup>1</sup>**

Reclaimed Area (Acres)	129.0
<u>Item</u>	Capital Cost
Cover Material	-
Truck/Shovel	-
Top/Outslope Adjustment	\$111,418
Revegetation (Seed & Mulch)	\$174,795
Channels, Conduits & Berms	\$893,487
Other	-
Capital Cost Totals	\$1,179,701
Capital Cost/Acre	\$9,145

<sup>1</sup>Costs are based on Telesto Solutions Inc. Earthwork Cost Estimate dated June 2013.

**Tyrone Mine Closure/Closeout  
Facility Characteristics Form**

**Savanna Pit**

Function	Mined pit
Location Characteristics	No upstream issues No downstream issues Main and Gettysburg pit dewatering capture zone controls regional ground water level and flow direction
Construction Method	Blasting, shoveling, and hauling rock in 50 foot benches
Physical Characteristics	Solid, intrusive, and skarn rocks with low primary permeability and medium fracture permeability
Leach Status	Not applicable
Existing Engineering Measures	Pit dewatering contains regional ground water, All perimeter runoff bermed To be partially backfilled with Savanna leach Stockpile as part of mine plan by EOY 2014; costs included for reclamation of the interior flat area of Savanna Leach Stockpile.

**Matrix of Costs  
Capital Cost/Facility<sup>1</sup>**

Reclaimed Area (Acres)	65.0
<u>Item</u>	Capital Cost
Cover Material	\$895,460
Truck/Shovel	-
Top/Outslope Adjustment	\$409,278
Revegetation (Seed & Mulch)	\$88,075
Channels, Conduits & Berms	-
Other	-
Capital Cost Totals	\$1,392,814
Capital Cost/Acre	\$21,428

<sup>1</sup>Costs are based on Telesto Solutions Inc. Earthwork Cost Estimate dated June 2013.

**Tyrone Mine Closure/Closeout  
Facility Characteristics Form**

**San Salvador Hill Pit**

Function	Mined pit
Location Characteristics	No upstream issues No downstream issues Main and Gettysburg pit dewatering capture zone controls regional ground water level and flow direction
Construction Method	Blasting, shoveling, and hauling rock in 50 foot benches
Physical Characteristics	Solid, intrusive, and skarn rocks with low primary permeability and medium fracture permeability
Leach Status	Not applicable
Existing Engineering Measures	Pit dewatering contains regional ground water, All perimeter runoff bermed To be partially backfilled as part of mine plan by EOY 2014; costs included for reclamation of the backfilled interior flat area

**Matrix of Costs  
Capital Cost/Facility<sup>1</sup>**

Reclaimed Area (Acres)	115.0
<u>Item</u>	Capital Cost
Cover Material	\$2,296,897
Truck/Shovel	\$4,475,445
Top/Outslope Adjustment	\$603,302
Revegetation (Seed & Mulch)	\$155,825
Channels, Conduits & Berms	\$647,649
Other	-
Capital Cost Totals	\$8,179,117
Capital Cost/Acre	\$71,123

<sup>1</sup>Costs are based on Telesto Solutions Inc. Earthwork Cost Estimate dated June 2013.

**Tyrone Mine Closure/Closeout  
Facility Characteristics Form**

**Exploration Holes, Monitoring & Extraction Wells**

Function	Exploration, Monitoring, Extraction
Location Characteristics	Mine Area
Construction Method	N/A
Physical Characteristics	N/A
Leach Status	N/A
Existing Engineering Measures	N/A

**Matrix of Costs  
Capital Cost/Facility<sup>1</sup>**

Reclaimed Area (Acres)	-
<u>Item</u>	<u>Capital Cost</u>
Cover Material	-
Truck/Shovel	-
Top/Outslope Adjustment	-
Revegetation (Seed & Mulch)	-
Channels, Conduits & Berms	-
Other	\$1,092,720
Capital Cost Totals	\$1,092,720
Capital Cost/Acre	-

<sup>1</sup>Costs are based on Telesto Solutions Inc. Earthwork Cost Estimate dated June 2013.

**Tyrone Mine Closure/Closeout  
Facility Characteristics Form**

**Fencing**

Function	N/A
Location Characteristics	Pit perimeters
Construction Method	N/A
Physical Characteristics	N/A
Leach Status	N/A
Existing Engineering Measures	N/A

**Matrix of Costs  
Capital Cost/Facility<sup>1</sup>**

Reclaimed Area (Acres)	-
<u>Item</u>	Capital Cost
Cover Material	-
Truck/Shovel	-
Top/Outslope Adjustment	-
Revegetation (Seed & Mulch)	-
Channels, Conduits & Berms	-
Other	1,368,619
Capital Cost Totals	\$1,368,619
Capital Cost/Acre	-

<sup>1</sup>Costs are based on Telesto Solutions Inc. Earthwork Cost Estimate dated June 2013.

**Tyrone Mine Closure/Closeout  
Facility Characteristics Form**

**Utility Demolition**

Function	Power Distribution
Location Characteristics	Mine Area
Construction Method	N/A
Physical Characteristics	Above Ground Electrical Lines, Power Poles, Telephone lines, and Fire Hydrants
Leach Status	N/A
Existing Engineering Measures	N/A

**Matrix of Costs  
Capital Cost/Facility<sup>1</sup>**

Reclaimed Area (Acres)	-
<u>Item</u>	Capital Cost
Cover Material	-
Truck/Shovel	-
Top/Outslope Adjustment	-
Revegetation (Seed & Mulch)	-
Channels, Conduits & Berms	-
Other (Demolition)	\$108,405
Capital Cost Totals	\$108,405
Capital Cost/Acre	-

<sup>1</sup>Costs are based on Telesto Solutions Inc. Earthwork Cost Estimate dated June 2013.

**Tyrone Mine Closure/Closeout  
Facility Characteristics Form**

**Pipeline Closures**

Function	Distribution of Process Water, PLS, and Raffinate During Operational Phase and During PSE System Operation and Water Treatment
Location Characteristics	Mine Area
Construction Method	N/A
Physical Characteristics	HDPE Process Water, PLS, and Raffinate Pipelines
Leach Status	N/A
Existing Engineering Measures	N/A

**Matrix of Costs  
Capital Cost/Facility<sup>1</sup>**

Reclaimed Area (Acres)	-
<u>Item</u>	Capital Cost
Cover Material	-
Truck/Shovel	-
Top/Outslope Adjustment	-
Revegetation (Seed & Mulch)	-
Channels, Conduits & Berms	-
Other	\$460,698
Capital Cost Totals	\$460,698
Capital Cost/Acre	-

<sup>1</sup>Costs are based on Telesto Solutions Inc. Earthwork Cost Estimate dated June 2013.



**Tyrone Mine Closure/Closeout  
Facility Characteristics Form**

**1C Top (Haul Road)**

Function	Haul Road
Location Characteristics	Mine Area
Construction Method	N/A
Physical Characteristics	N/A
Leach Status	N/A
Existing Engineering Measures	N/A

**Matrix of Costs  
Capital Cost/Facility<sup>1</sup>**

Reclaimed Area (Acres)	17.0
<u>Item</u>	<u>Capital Cost</u>
Cover Material	\$302,763
Truck/Shovel	\$0
Top/Outslope Adjustment	\$0
Revegetation (Seed & Mulch)	\$23,041
Channels, Conduits & Berms	\$0
Other	\$0
<b>Capital Cost Totals</b>	<b>\$325,804</b>
<b>Capital Cost/Acre</b>	<b>\$19,160</b>

<sup>1</sup>Costs are based on Telesto Solutions Inc. Earthwork Cost Estimate dated June 2013.

**Tyrone Mine Closure/Closeout  
Facility Characteristics Form**

**Surface Impoundments**

Function	Water Management
Location Characteristics	Mine Area
Construction Method	N/A
Physical Characteristics	N/A
Leach Status	N/A
Existing Engineering Measures	N/A

**Matrix of Costs  
Capital Cost/Facility<sup>1</sup>**

Reclaimed Area (Acres)	21.2
<u>Item</u>	<u>Capital Cost</u>
Cover Material	\$371,663
Truck/Shovel	\$0
Top/Outslope Adjustment	\$3,147
Revegetation (Seed & Mulch)	\$29,417
Channels, Conduits & Berms	\$0
Other (Demolition)	\$15,869
<b>Capital Cost Totals</b>	<b>\$420,096</b>
<b>Capital Cost/Acre</b>	<b>\$19,788</b>

<sup>1</sup>Costs are based on Telesto Solutions Inc. Earthwork Cost Estimate dated June 2013.

**Tyrone Mine Closure/Closeout  
Facility Characteristics Form**

**Unplanned Disturbed Areas**

Function	Small staging areas, utility corridors, haul roads, pull-offs, stockpile expansions, or other miscellaneous unforeseen changes in the mine plan.
Location Characteristics	Mine Area
Construction Method	N/A
Physical Characteristics	N/A
Leach Status	N/A
Existing Engineering Measures	N/A

**Matrix of Costs  
Capital Cost/Facility<sup>1</sup>**

Reclaimed Area (Acres)	125.0
<u>Item</u>	Capital Cost
Cover Material	\$2,134,104
Truck/Shovel	\$0
Top/Outslope Adjustment	\$18,528
Revegetation (Seed & Mulch)	\$169,375
Channels, Conduits & Berms	\$0
Other	\$0
Capital Cost Totals	\$2,322,007
Capital Cost/Acre	\$18,576

<sup>1</sup>Costs are based on Telesto Solutions Inc. Earthwork Cost Estimate dated June 2013.