## **CHMRP - SRCE 2.0 Models Summary**

Item / Topic	MMD Permit SF002RE	NMED Permit DP - 55	NMED Permit AP - 27		
2023 Cost Estimate	\$680,077	\$ 2,288,361	\$ 8,478,122		
NPV 0.58% Real Discount Rate	Not Applicable	\$ 1,785,132	\$ 6,609,374		
Cashflow Model Years	2023 to 2037 (15 years)	2023 to 2122 (100 years)	2023 to 2122 (100 years)		
Schedule	The assumption in the cashflow sheet is that final closure of the	The assumption in that the cashflow sheet is a 100 year with an	The assumption in that the cashflow sheet is a 100 year with an		
	remaining surface features will take place in the years 2023, 2024	ongoing site monitoring program that will take place in the year	ongoing site monitoring program that will take place in the year 2023		
	and 2025. The post closure period is defined in the cashflow	2023 to 2122.	to 2122.		
	model for 12 consecutive years.				
Resources Rates	Resource rates used in the cost estimate model are an average of available 2022 New Mexico contractor rates for similar work and published State of Nevada SRCE cost date file rates. Local New Mexico				
		contractor resource rates are derived from proprietary contracts which cannot be publicly released.			
Contractor Overhead & Profit	Contractor Overhead and Profit is included in the resource rates; therefore, not applied as a percentage for total work.				
Engineering & Design		A 5% allowance is applied for engineering and design work for remaining reclamation work.			
Contingency	Contingency is included in specific work activities and inflation/discount rates for market conditions; therefore, not applied as a percentage for total work.				
3 <sup>rd</sup> Party Contract Admin		A 5% allowance is applied for a third party managing the final reclamation activities.			
Closure Planning			Borrow material location study is included in the DP 55 cost estimate.		
2 100	estimate.	repair of 8 acres on the Waste Rock Pile is included for \$ 50,000.			
Demolition	1. Buildings and structures listed below will be demolished (no	1. Buildings and structures listed below will be demolished (no	Not Applicable		
	salvage) with demolition debris removed and disposed off-	salvage) with demolition debris removed and disposed off-			
	site at an authorized Landfill Facility.	site at an authorized Landfill Facility.			
	2. Foundations and slabs will be broken up with a Rock Hammer,	2. Foundations and slabs will be broken up with a Rock Hammer, buried in place with a 24-inch layer of Growth Media material			
	buried in place with a 24-inch layer of Growth Media material and re-seeded.	and re-seeded.			
	3. The following buildings and structures are to be demolished:	3. The following buildings and structures are to be demolished:			
	Lime Silo	ARD Pumphouse			
	CN Pond Pumphouse	AND Fulliphouse			
	Residue Pile Pumphouse				
Mobile and Fix Equipment	Mobile and Fix equipment such as the Air Compressor at the Lime	Not Applicable	Not Applicable		
Wiodile and Tix Equipment	Silo and the Weather Station will be removed and disposed off-	Not Applicable	Not Applicable		
	site.				
Ponds	1. Ponds not needed for the ongoing water management and	1. Ponds not needed for the ongoing water management and	1. Ponds not needed for the ongoing water management and		
	quality monitoring program under NMED AP-27 or DP-55 will	quality monitoring program under NMED AP-27 and or DP-55			
	be decommissioned and reclaimed.	will be decommissioned and reclaimed.	will be decommissioned and reclaimed.		
	2. Residual water in the ponds will be pumped out and disposed	2. Residual water in the ponds, if any will be pumped out and	2. Residual water in the ponds, if any will be pumped out and		
	into the evaporation ponds on top of the WRD.	disposed of at the nearest Municipality Water Treatment	disposed of at the nearest Municipality Water Treatment Plant.		
	3. The liner will be cut at the anchor trench on top and folded	Plant.	3. The liner will be cut at the anchor trench on top and folded		
	inwards to contain any residual sediments and or salts.	3. The liner will be cut at the anchor trench on top and folded	inwards to contain any residual sediments and or salts.		
	4. The depression the pond leaves behind with the folded in	inwards to contain any residual sediments and or salts.	4. The depression the pond leaves behind with the folded in liner		
	liner will be graded/backfilled to ensure positive drainage.	4. The depression the pond leaves behind with the folded in	will be graded/backfilled to ensure positive drainage.		
	5. The following ponds will be reclaimed:	liner will be graded/backfilled to ensure positive drainage.	5. The following ponds will be reclaimed:		
	Residue Pond A	5. The following ponds will be reclaimed:	Water Treatment Evaporation Pond A		
	Residue Pond B	ARD Collection Pond 1	Water Treatment Evaporation Pond B		
	ARD Lime Treatment Pond A	ARD Collection Pond 2			
	ARD Lime Treatment Pond B				
	ARD Lime Treatment Evaporation Pond A				
	ARD Lime Treatment Evaporation Pond B				

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Reclamation-Ex Building, Structures and Pond Areas  Reclamation-Borrow Areas	<ol> <li>After the Building and or Structure has been completely removed and the concrete slab broken up with a Rock Hammer. The area will be re-graded as needed with a Dozer and or Grader and covered with a 24-inch layer of Growth Media material, following by re-seeding the area.</li> <li>Backfilled ponds will be re-graded as needed with a Dozer and or Grader and covered with a 12-inch layer of Growth Media material, following by re-seeding the area.</li> <li>Growth Media (4,000 cy) will be extracted from an onsite Stockpile for the rehabilitation of areas reclaimed during the final surface reclamation work.</li> <li>Fill material (2,230 cy) will be extracted from an onsite source for the Process Pond Area backfill.</li> </ol>	<ol> <li>After the Building and or Structure has been completely removed and the concrete slab broken up with a Rock Hammer. The area will be re-graded as needed with a Dozer and or Grader and covered with a 24-inch layer of Growth Media material, following by re-seeding the area.</li> <li>Backfilled ponds will be re-graded as needed with a Dozer and or Grader and covered with a 12-inch layer of Growth Media material, following by re-seeding the area.</li> <li>Growth media (7,450 cy) will be extracted from an onsite Borrow for the rehabilitation of areas reclaimed during the final surface reclamation work. The Borrow area is estimated to be approximately 1 ac and 5 feet deep.</li> <li>Local soil / fill material (43,608 cy) will be extracted from an</li> </ol>	<ol> <li>Backfilled ponds will be re-graded as needed with a Dozer and or Grader and covered with a 12-inch layer of Growth Media material, following by re-seeding the area.</li> <li>Growth media (6,042 cy) will be extracted from an onsite Borrow for the rehabilitation of areas reclaimed during the final surface reclamation work. The Borrow area is estimated to be approximately 1 ac and 5 feet deep.</li> <li>Local soil / fill material (42,760 cy) will be extracted from an</li> </ol>
	3. Borrow area rehabilitation costs are covered in the DP-55 cost estimate.	<ul><li>onsite Borrow area for the Process Pond Area backfill. The Borrow area is estimated to be approximately 5 acres and 8 feet deep.</li><li>3. After the materials are extracted, the Borrow area will be regraded and reclaimed.</li></ul>	Borrow area is estimated to be approximately 5 acres and 8 feet deep.
Well Plugging and Abandonment	Not Applicable	<ol> <li>Inactive and or obsolete Monitoring, Injection and Recovery Wells will be plugged and abandoned in accordance with the NM regulations and obtained permits.</li> <li>The following wells will be plugged and abandoned.         <ul> <li>(14) Inactive Monitoring, Injection and Recovery Wells will be plugged and abandoned as soon as possible and when permit is granted.</li> <li>(35) Active Monitoring, Injection and Recovery Wells will be gradually plugged and abandoned towards the end of the 100-year monitoring period.</li> </ul> </li> </ol>	will be plugged and abandoned in accordance with the NM regulations and obtained permits.  2The following wells will be plugged and abandoned.  • (4) Active Monitoring Wells will be gradually plugged and abandoned towards the end of the 100-year monitoring period.
Fence Removal	All fences around the decommissioned and reclaimed ponds will be		
Fence Installation	An 8 feet tall chain link perimeter Fence (3,450 ft) will be installed around the inner access road of the open pit.	· · · · · · · · · · · · · · · · · · ·	Not Applicable
Pipeline System Removal	All obsolete piping and pipe fitting materials will be removed and	off-site disposal	
Site Source Control	Not Applicable	Not Applicable	<ul> <li>The roads, collection pipes and channels around the pit will be maintained and repaired on an assumed interval of every 5 years.</li> <li>Roads         <ul> <li>Roads around the pit will be maintained to limit surface water from contacting the pit wall rock formation. Imported crushed limestone will be used to cap and regrade the roads.</li> </ul> </li> <li>Collection Pipes             <ul> <li>Aging and damaged collection pipes will be replaced to promote surface water directly into the pit lake and limiting surface water from contacting the pit wall rock formation.</li> </ul> </li> <li>Collection Channels</li></ul>

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Site Water Management -	Not Applicable	Dolores Plume	Not Applicable
Pumping		For a period of 12 years (2026-2037), the Dolores Plume	
		water will be pumped back to ARD Pond #1 at a rate of 1	
		gpm.	
		Residue Pile Plume	
		For a period of 3 years (2023, 2024 and 2025), the Residue	
		Pile Plume water will be pumped back to ARD Pond #2 at	
		a rate of 1 gpm.	
Site Water Management -	Not Applicable	Not Applicable	Pit Water Treatment is scheduled to continue 2023-2024 reducing
Treatment			constituents of concern to sustainable levels with source controls.
			Forecasted pit water quality is estimated to be sustainable with
			source controls after 2024; however, as a contingency it is assumed
			water treatment would occur on 20-year intervals for three
			consecutive years per interval.
Maintenance-Reclaimed Area	Maintenance (erosion repairs and reseeding) on 20% of the 2.7	As a long-term maintenance contingency, one (1) foot of cover	Maintenance (erosion repairs and reseeding) on 20% of the 3.8 acres
	acres reclaimed is assumed.	material on eight (8) acres of the waste rock pile is assumed.	reclaimed is assumed.
		Maintenance (erosion repairs and reseeding) on 20% of the 1 acre	
		reclaimed is assumed.	
Maintenance – Site Roads	Site roads will be repaired and maintained during the final site	Site annual road maintenance will continue in the DP 55 FA model	Site annual road maintenance will continue in the AP 27 FA model
	reclamation work (3 years) and in the 12-year post-closure	years 2038 to 2122. 2 days a year is assumed for site road	years 2038 to 2122. 3 days a year is assumed for site road
	monitoring period. (2023 to 2037)	maintenance.	maintenance.
Maintenance – Monitoring	Not Applicable	Active monitoring wells will be serviced, repaired and maintained	Active monitoring wells will be serviced, repaired and maintained at
Wells		at an assumed 5-year service interval over the 100 years period.	an assumed 5-year service interval over the 100 years period.
Maintenance - Ponds	Not Applicable	The Liner system on the ARD ponds will be inspected and repaired	The Liner system on the WTP Evaporation Ponds will be inspected
		at an assumed 5-year interval. Replacement of the Pond Liner is	
		assumed an assumed 30-year interval.	Pond Liner is assumed an assumed 30-year interval.
Monitoring – Reclaimed Area	The total reclaimed area (2.7acres) will be monitored annually on	The total reclaimed area (1acres) will be monitored annually on a	The total reclaimed area (3.8acres) will be monitored annually on a
	a quarterly basis (4 times) for a period of 12 years.	quarterly basis (4 times) for a period of 12 years.	quarterly basis (4 times) for a period of 12 years.
Monitoring - Water Quality	Not Applicable	1. The Groundwater quality and where applicable surface water	1. The Groundwater quality and where applicable surface water
		quality will be monitored for 100 years.	quality will be monitored for 100 years.
		2. Water Quality Monitoring sampling is as follows:	2. Water Quality Monitoring sampling is as follows:
		<ul> <li>Year 2023 to 2034</li> </ul>	• Year 2023 to 2034
		WRP and Residue Pile Plume - 36 samples x 4 events	• • • • • • • • • • • • • • • • • • • •
		per year for 12 years.	for 12 years.
		Surface Water Monitoring - 3 samples x 4 events per	
		year for 12 years	Well and Pit Lake Water - 13 samples x 2 events per year
		• Year 2035 to 2042	for 8 years.
		WRP - 14 samples x 2 events per year for 8 years.	• Year 2043 to 2122
		Surface Water Monitoring - 2 samples x 2 events per	• • • • • • • • • • • • • • • • • • • •
		year for 8 years	for 80 years.
		• Year 2043 to 2122	
		WRP - 7 samples x 2 events per year for 80 years.	
		Surface Water Monitoring - 2 samples x 2 events per	
		year for 80 years	