

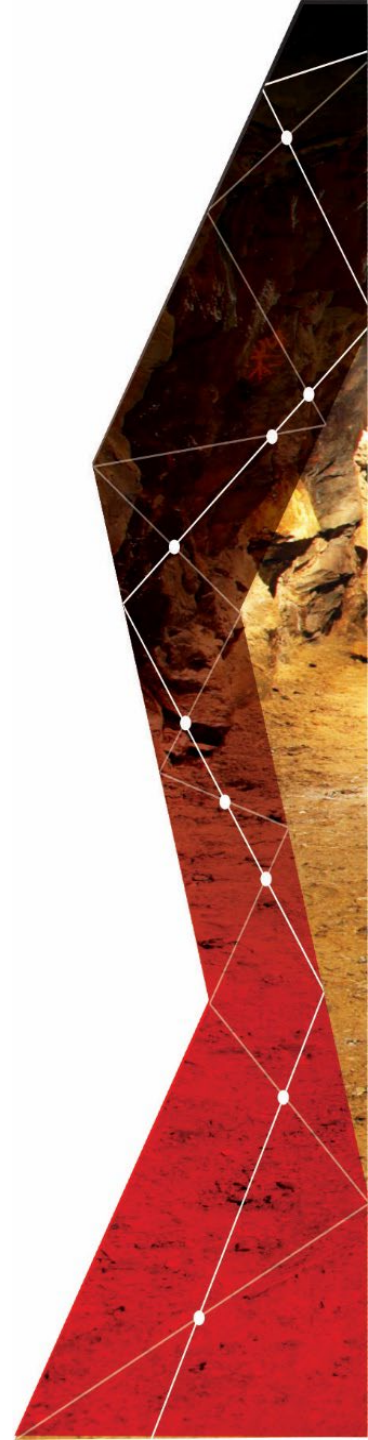


PROUDLY SOUTH AFRICAN LEVEL TWO B-BBEE CONTRIBUTOR & ISO 9001

Plant Cleaning Solutions.

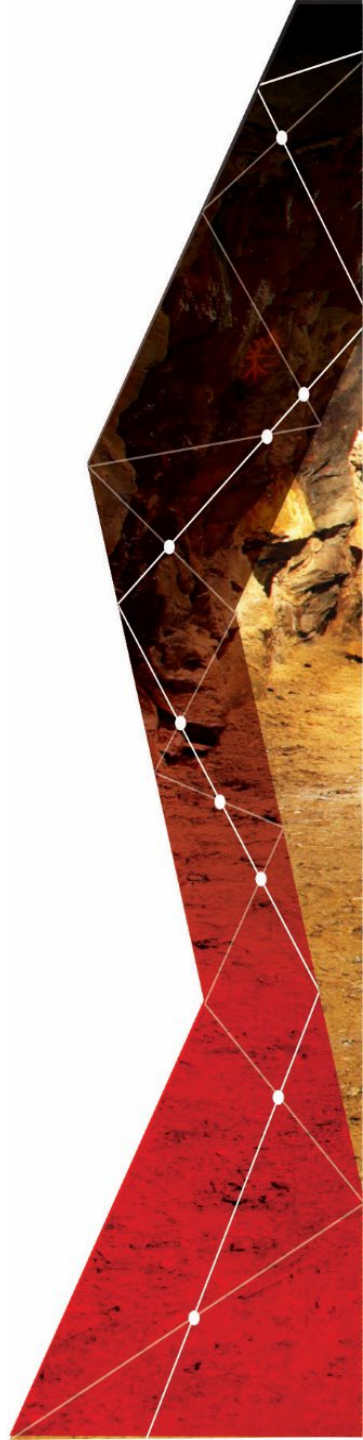
SCOPE OF WORK – vacuum units

- Cleaning of conveyor belts.
- Cleaning of return pulleys and glory holes.
- Sweeping and vamping operations.
- Cleaning of surface dams, sumps, sill traps and drains.
- Cleaning of Leach and CIP tanks.
- Cleaning of spillages in plants.
- Cleaning of spillages in the gold pants mills section.
- Cleaning of oil sumps.



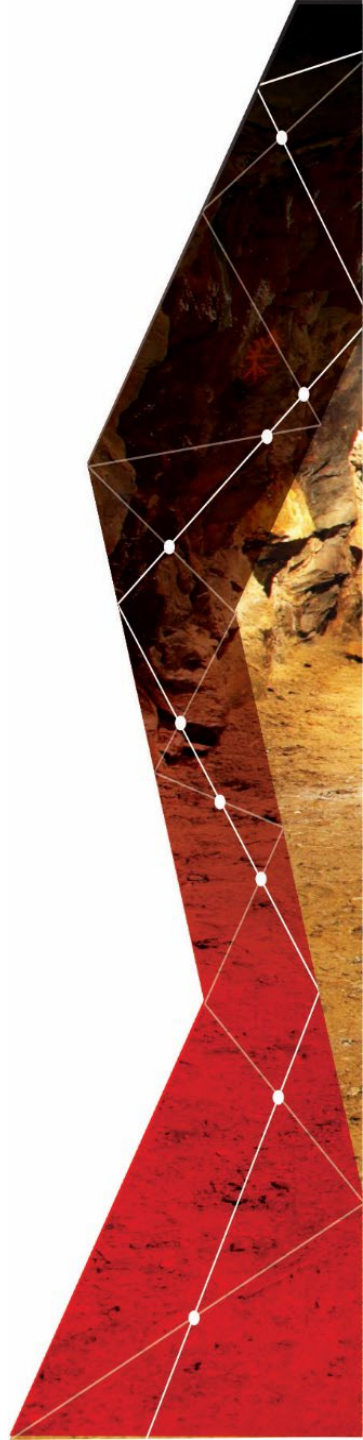
SCOPE OF WORK – slurry pumps

- Cleaning of surface dams, sumps, sill traps and drains.
- Cleaning of Leach and CIP tanks.
- Cleaning of Clear water dams.
- Cleaning of process water sumps and dams.
- Cleaning of oil sumps.
- Cleaning of ash sumps and dams.
- Cleaning of cooling towers – de silting.
- Cleaning of coal slurry in sumps, trenches and dams.
- Cleaning of tailing dams – de silting.
- Cleaning of blast furnace slag pits.
- Cleaning of dense slurries.



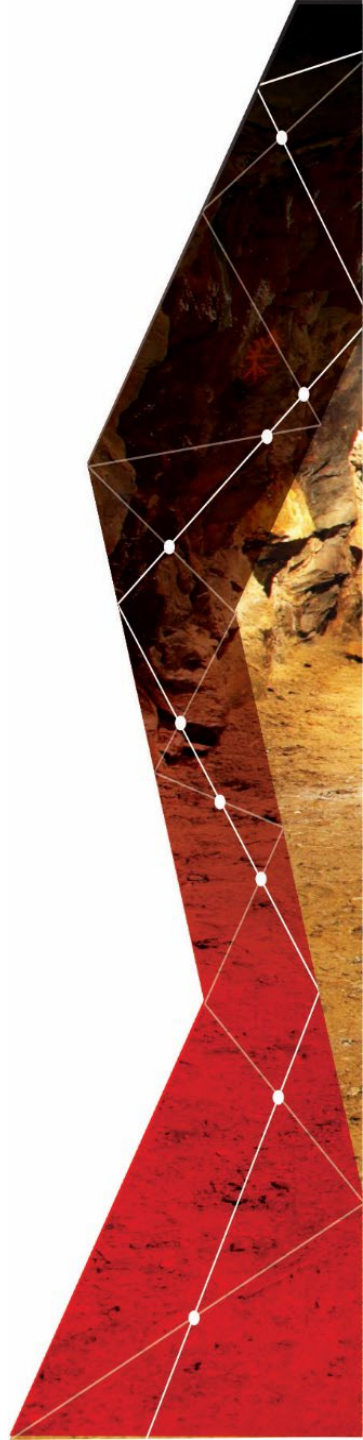
SCOPE OF WORK – in general.

- Cleaning of spillages by hand lashing.
- Cleaning operations where TLBs is required.
- Cleaning operations where Front-end loaders and excavators is required.
- Clean of culverts on roadways and railways.
- Cleaning of sewage pits and tanks and sumps.
- Taking out vegetation in dams.



ADVANTAGES OF slurry pumps

- Pump 65% Solids
- Pump up to 40mm particle size
- Can pump up to 90°C Pumping Temp
- Pump Slurry 2.8 S.G.
- Pump is Total Dry Running
- Pump has an Integral Agitator
- 700m Pumping Distance
- High Solids Removal
- Set up time is fast
- Electrical motors from 380 volt to 550 volt
- Get the pump in 30KW and 90KW and 112KW

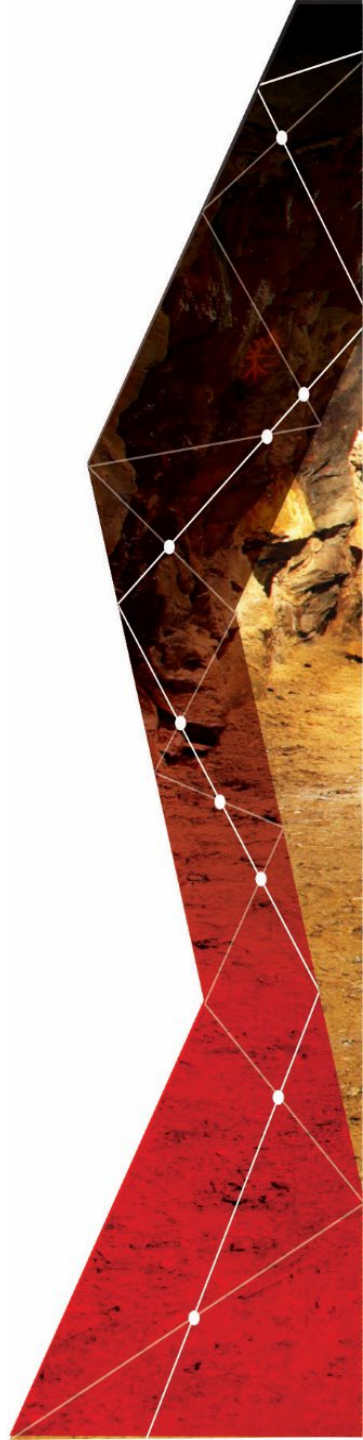
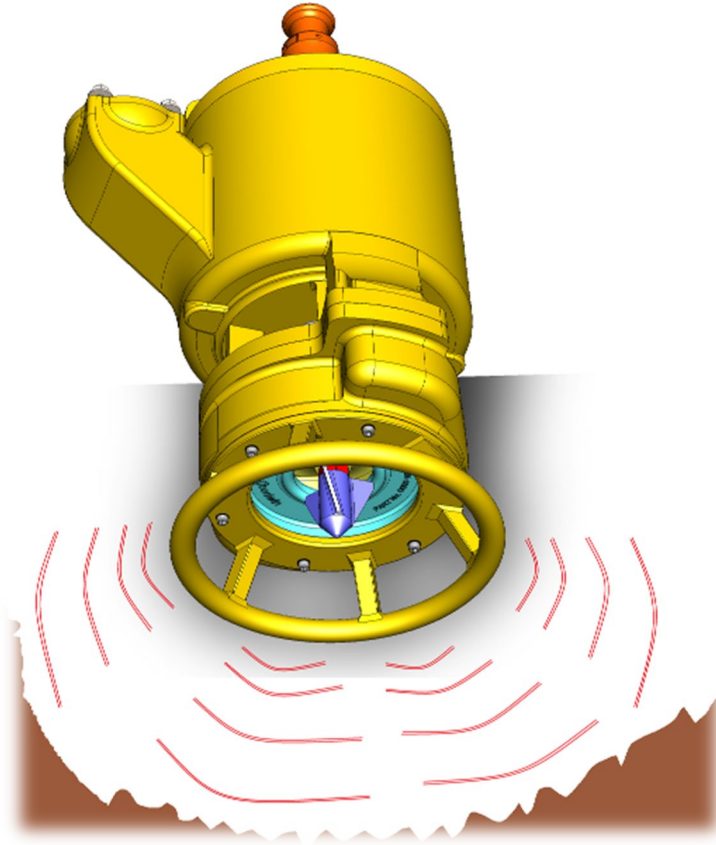


INDUCER EFFECT

- *Our slurry pumps Inducer sends out a hydraulic shock wave (known as a sphere of influence) down below the pump. These shock waves make any settled solids within a 1 metre radius start to flow so that they can be pumped.*
- *The slurry pumps Inducer is kept close to the lower bearing so that the bending moment on the shaft is reduced when it comes into contact with large particles.*
- *Because the Inducer is fitted close to the inlet, it also prevents oversize particles from entering the pump*



INDUCER EFFECT



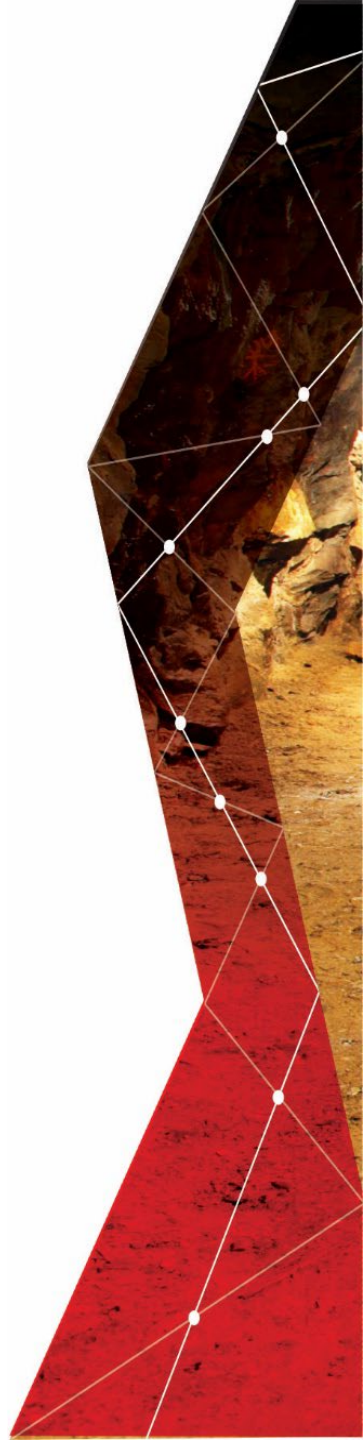
METHODOLOGY OF OPERATION OF VACUUM UNITS

- Materials(minerals) – spillages will be sucked into the nozzle by the air flow at the opening in the nozzle and travels along the pipes to the collector bin. The material will then enter the collector bin and then will be tipped at any dedicated area nominated by the client and this area can be up to 60m – 180m from the area vacuumed depending on the material that are vacuumed.



VACUUM ADVANTAGES.

- Vacuum units is a safe system to use.
- With vacuums you can vacuum wet and dry materials.
- Set up time with a vacuum system is quick.
- You can tip the spillages as the client request – stock pile in dam, on truck, in hoppers, in bags.
- Humanity and environmental consciousness - reduce dust.
- Get electrical and diesel operated units.
- Can vacuum stuff up to 50mm.



SILL TRAP CLEANING



THIS CLEANING CAN BE DONE WITH PUMPS OR VACUUMS UNITS
DEPENDING WHERE THE SPILLAGE NEED TO BE TIPPED.



CHROME SUMP CLEANING

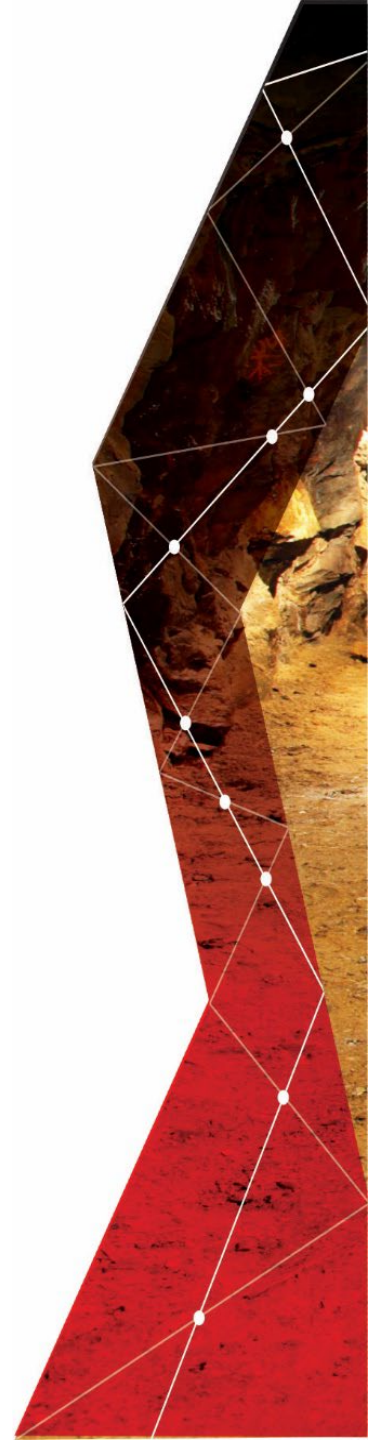


THIS CLEANING CAN BE DONE WITH SLURRY PUMPS OR MOBILE VACUUMS UNITS DEPENDING WHERE THE SPILLAGE NEED TO BE TIPPED.

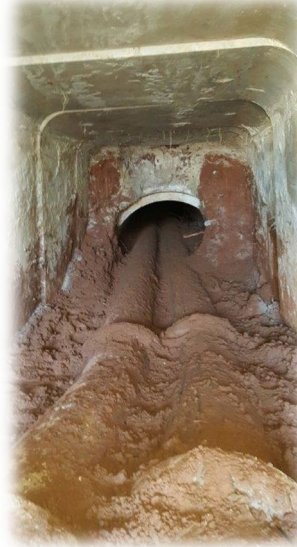
CULVERT CLEANING



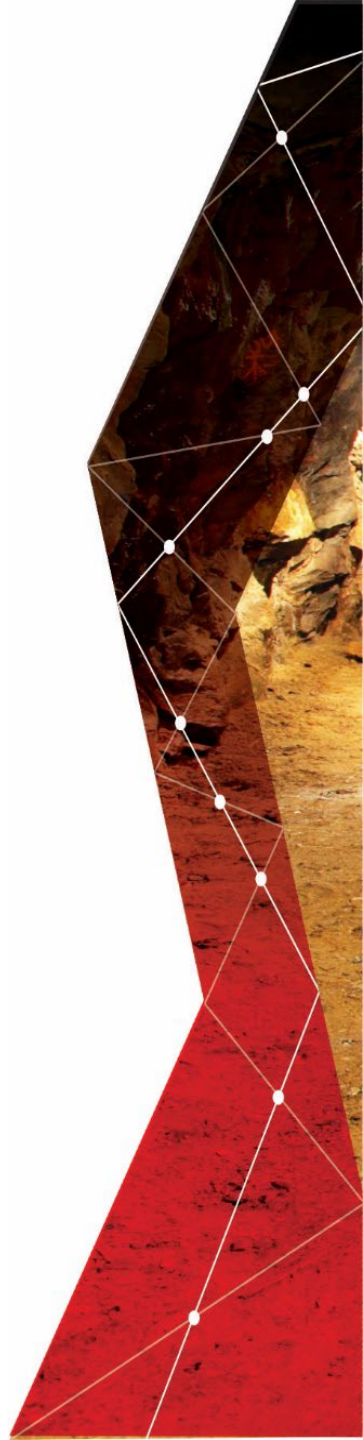
CULVERT CLEANING DONE WITH SLURRY PUMPS OR MOBILE VACUUMS UNITS DEPENDING WHERE THE SPILLAGE NEED TO BE TIPPED.



CULVERT CLEANING 1



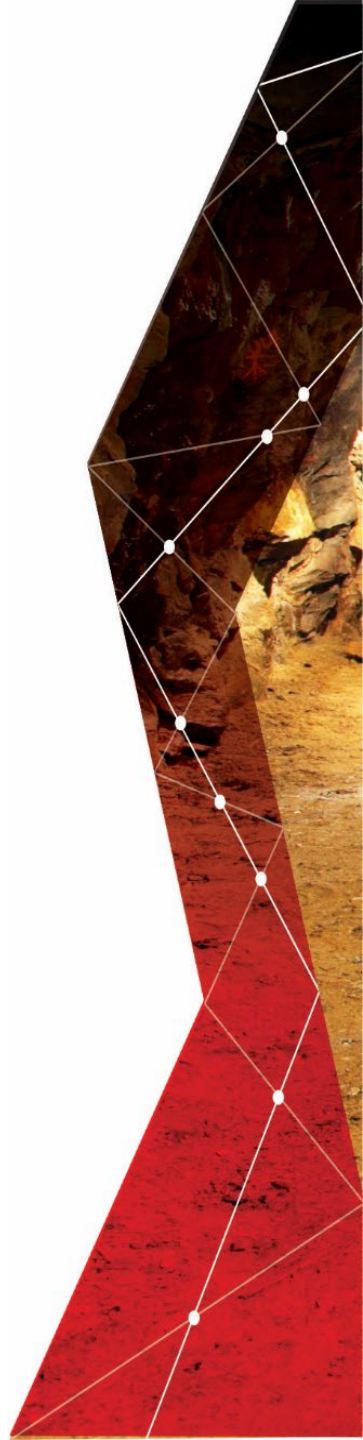
THIS CLEANING CAN BE DONE WITH PUMPS OR VACUUMS
UNITS DEPENDING WHERE THE SPILLAGE NEED TO BE TIPPED.



CULVERT CLEANING 2/1



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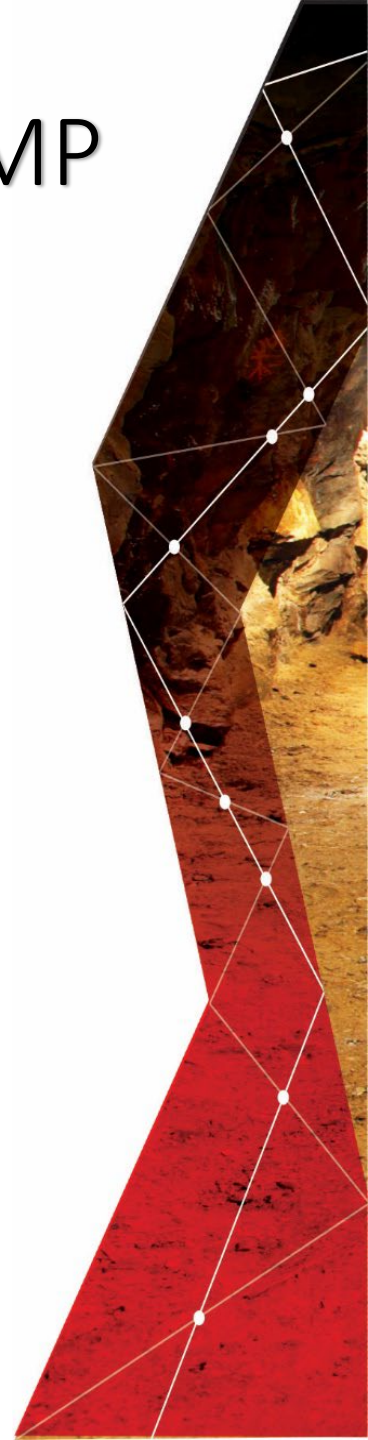
CULVERT CLEANING 2/2



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UNITS DEPENDING WHERE THE SPILLAGE NEED TO BE TIPPED.



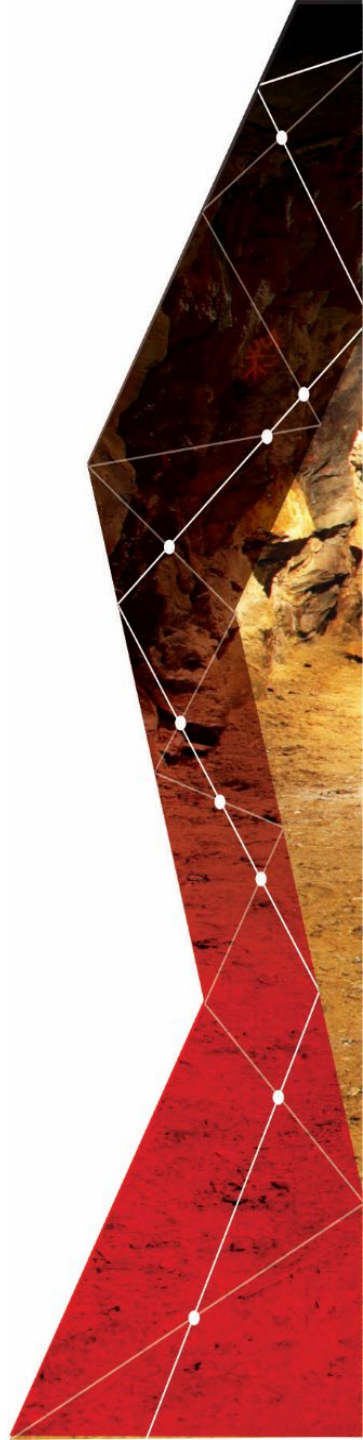
CLEANING OF MILL LAUNDRER AND SUMP



CLEANING OF SILL TRAP TAILINGS



THIS CLEANING HAS BEEN DONE WITH VACUUMS UNITS.



CLEANING SPILLAGES IN GOLD PLANT MILLS SECTION.

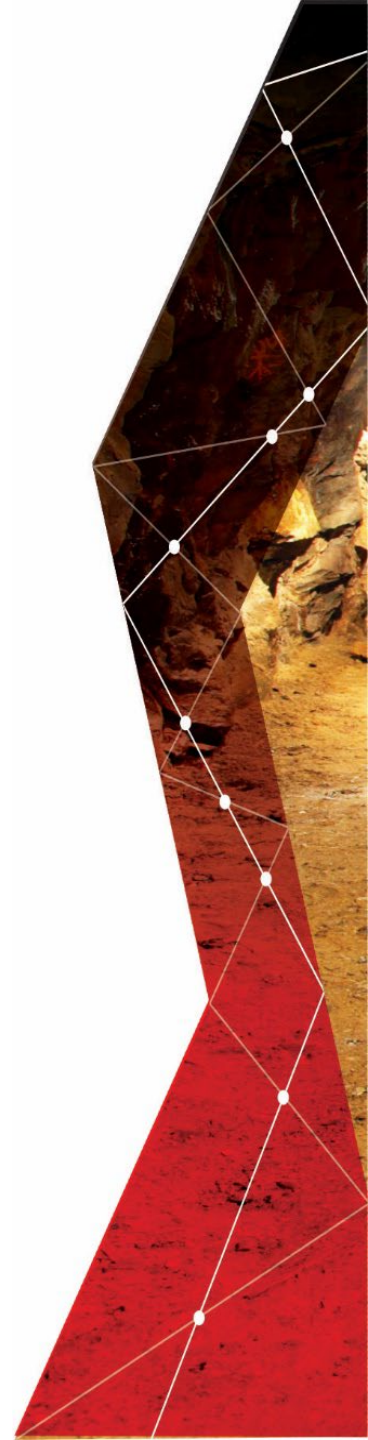


THIS CLEANING HAS BEEN DONE WITH VACUUMS UNIT AND SLURRY PUMP.

GENERAL PLANT CLEANING 1/1



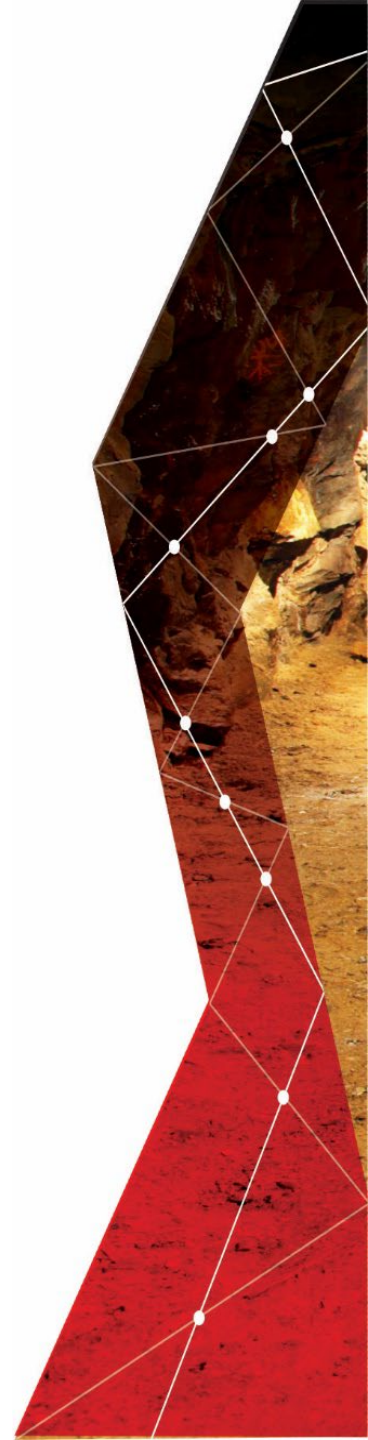
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GENERAL PLANT CLEANING 1/2



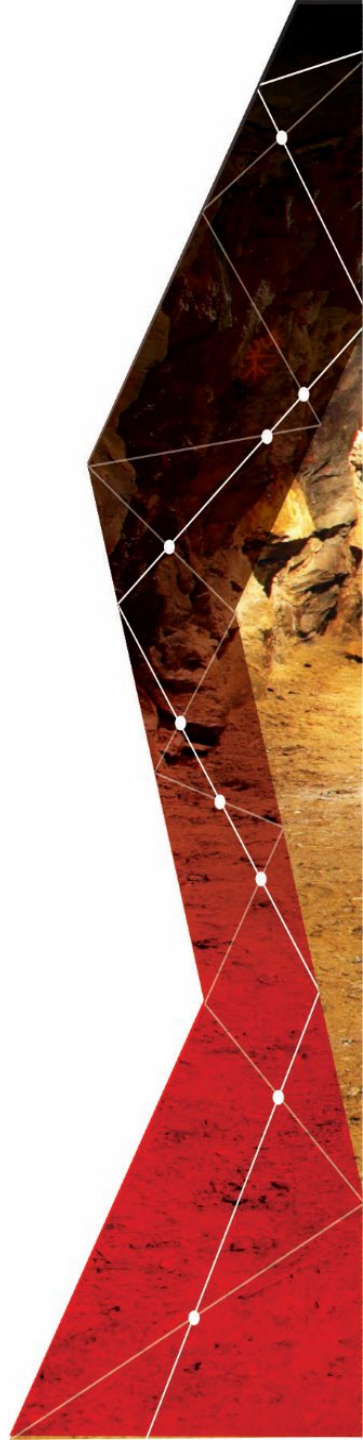
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GENERAL PLANT CLEANING 1/3



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SILL TRAP CLEANING



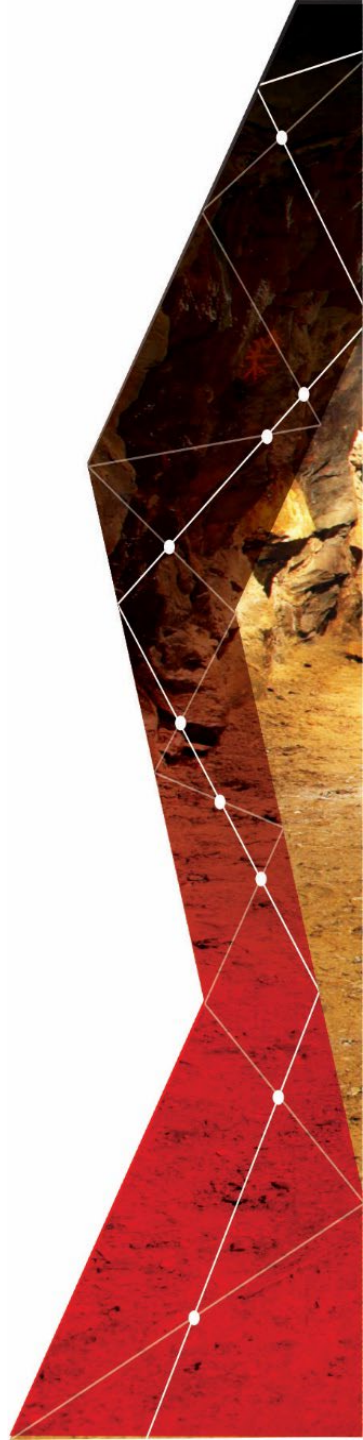
THIS CLEANING CAN BE DONE WITH PUMPS OR VACUUMS UNITS DEPENDING WHERE THE SPILLAGE NEED TO BE TIPPED.

PUMP SUMP CLEANING



THIS CLEANING WAS DONE WITH VACUUMS UNITS.

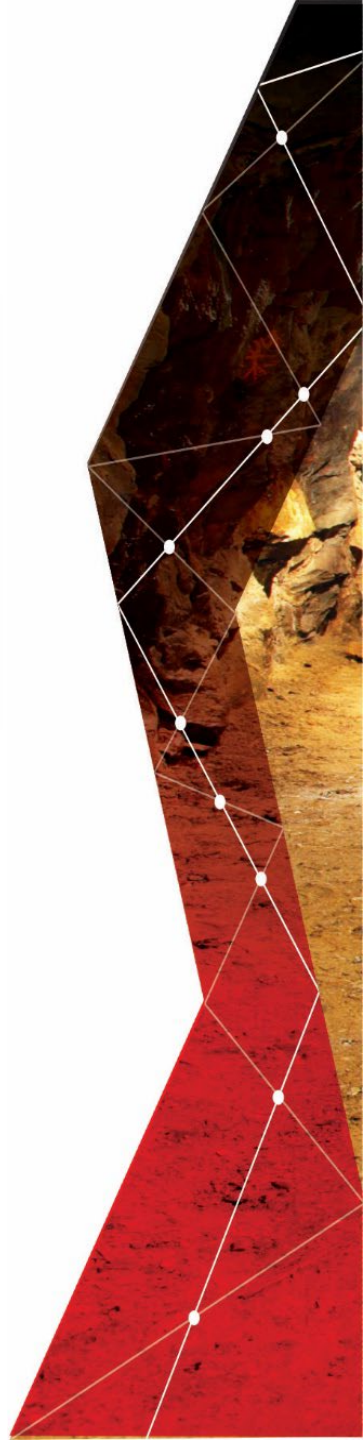
CLEAR WATER DAM CLEANING



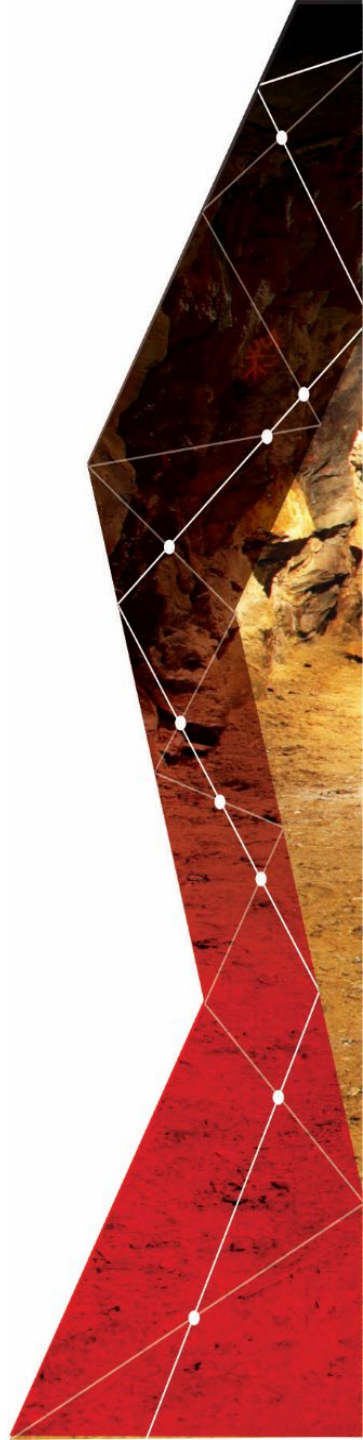
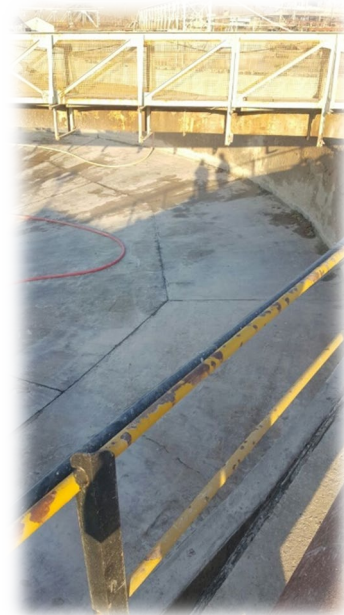
DAM CLEANING



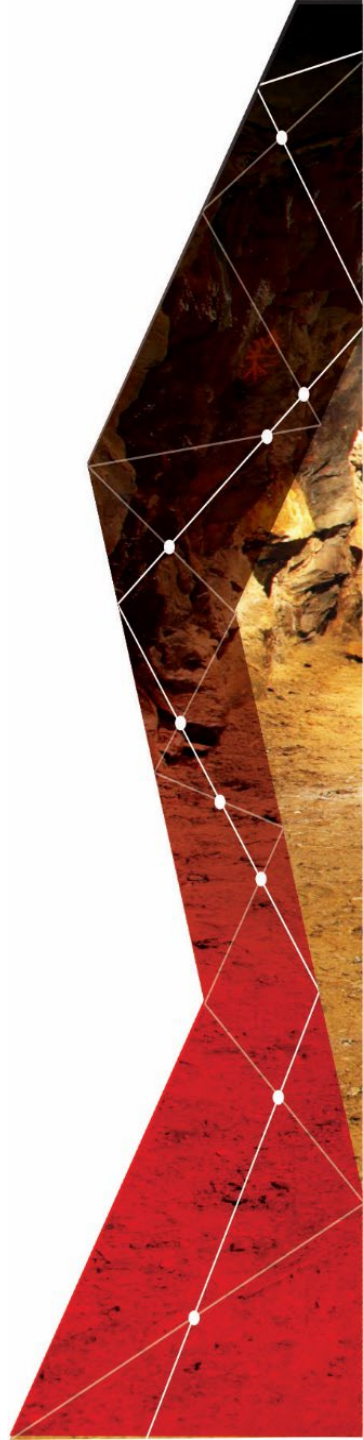
THIS CLEANING HAS BEEN DONE WITH SLURRY PUMP.



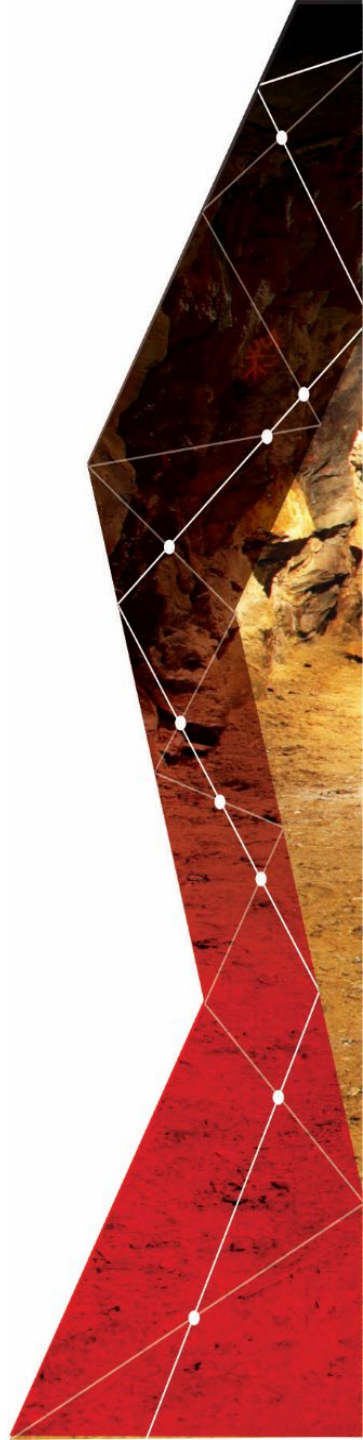
THICKNER DAM CLEANING 1/1



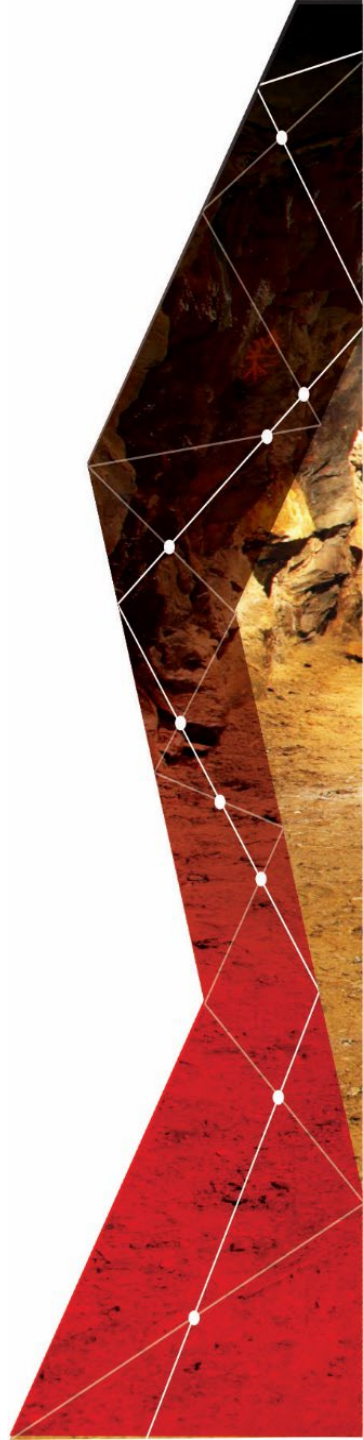
THICKNER DAM CLEANING 1/2



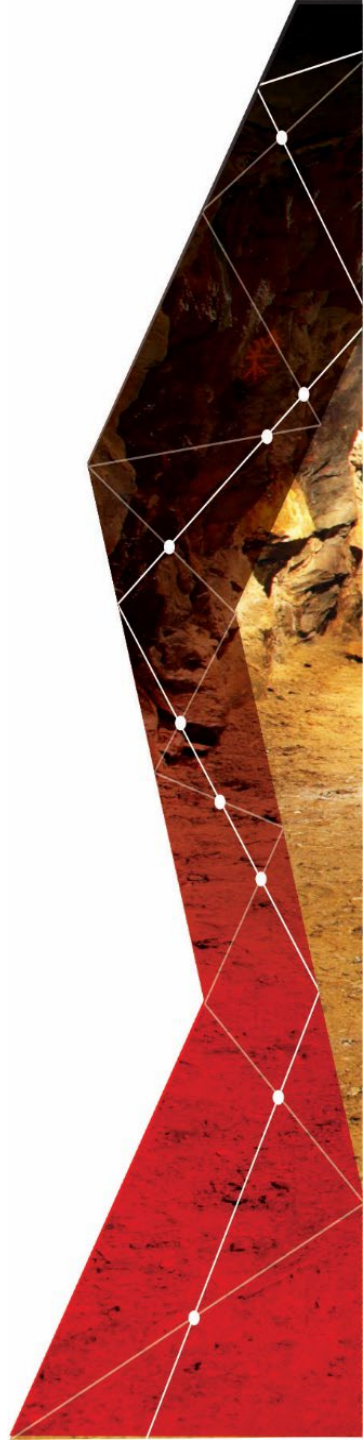
CIP TANK CLEANING 1/1



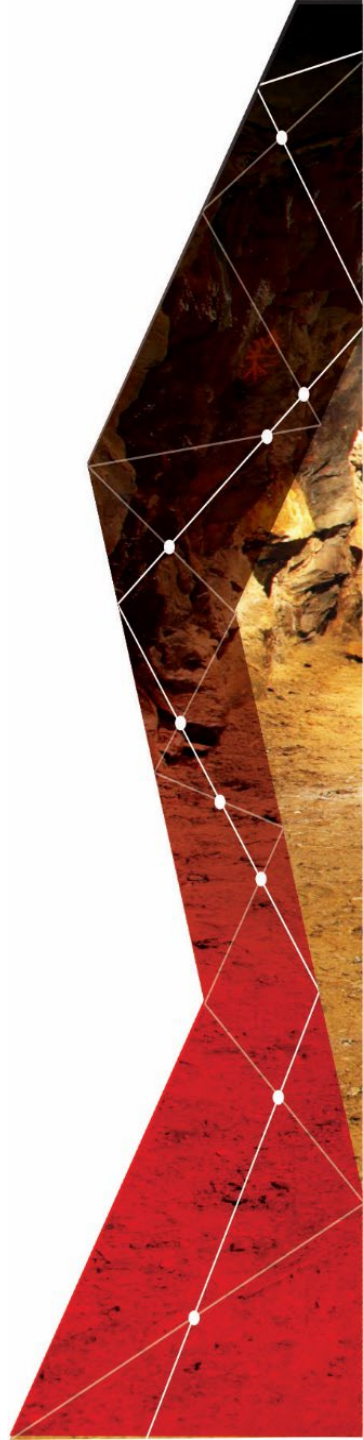
CIP TANK CLEANING 1/2



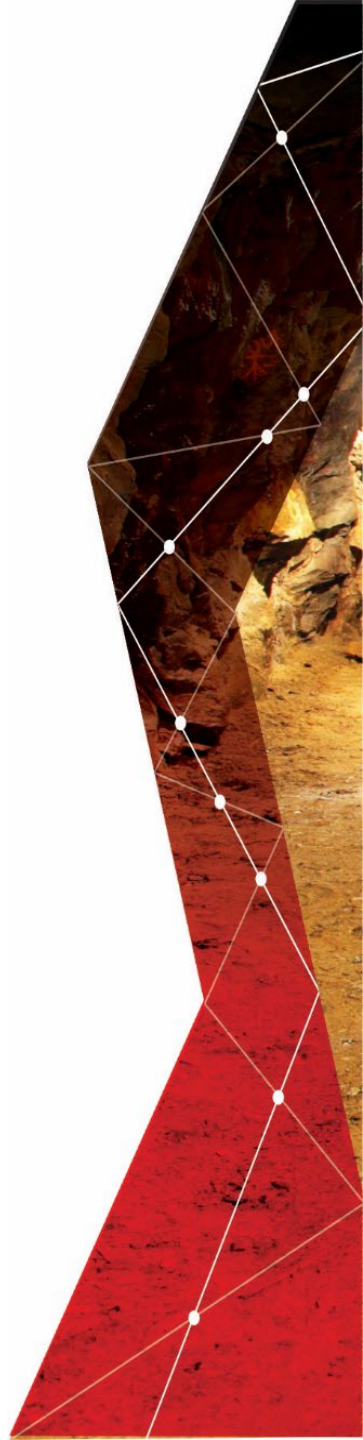
CLEAR WATER DAM CLEANING



CHROME ERICSON DAM CLEANING



DAM CLEANING

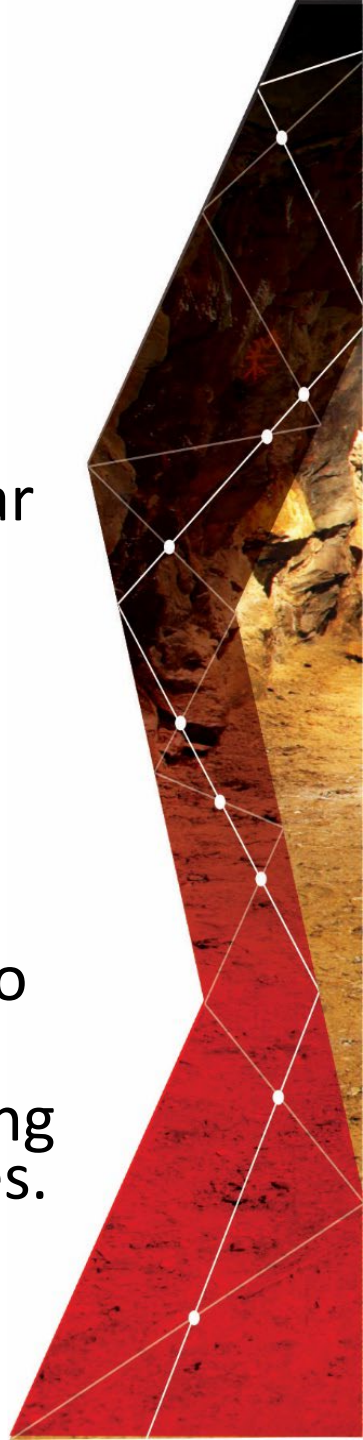


DAM CLEANING



ADVANTAGES TO HAVE CLEAN WATER DAMS, SILL TRAPS , SETTLERS AND TANKS.

- If settler dams are kept clean the water, you re - use is mud free
- Less mud or no mud in water system - less wear and tear on pumps and equipment
- Less mud or no mud in dams - no problems with water capacity in dams
- Less mud in water system - less dust pollution in workplaces
- Cleaning water dams and settlers reduces the risk of overflowing of these dams and settlers that puts a risk to the environment
- In general if your systems are clean – good house keeping = safe and productive workplace and satisfied employees.



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