



# Handley Ranch Quarry – Innovative/Creative Safety Improvements – Small Aggregate Mine

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# Recipes for safety success

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- Management Backing
  - Leadership
  - Buy-in, empowerment
  - Employee led involvement
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- Warning – some ideas are unoriginal, may have been stolen from others in this room, and/or don't cost a lot of money to implement...



# Ground Control

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- Backup Camera & Sonar Sensor
- Cameras are great – Not enough
- PRECO, Brigade, CAT
- MAJOR reduction in incidents



# Ground Control

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Installed whip flags on pickups

Moved stockpiles – blind corners

Radios (Lab Techs/Visitors)

# Lighting

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- LEDs
- General flood lighting vs. targeted lighting
- Replaced existing mobile equipment lights.

# Silica Exposure

- Skid steer – enclosed cab
- Sprayers
- Belting covers





# Silica Exposure – Belt Covers

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# Unmanned Aerial Vehicles

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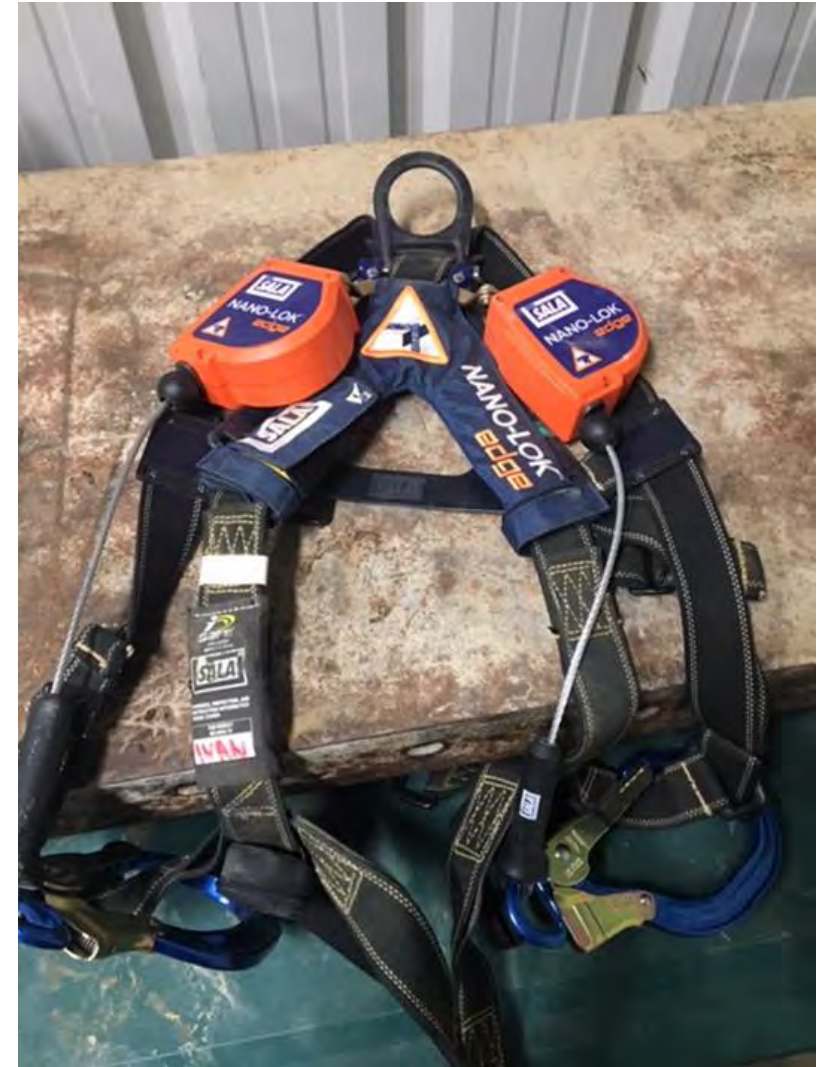
- 2 drones in our local fleet
  - Inventories
  - Video/inspecting
- Training videos
- Constantly evaluating other uses.





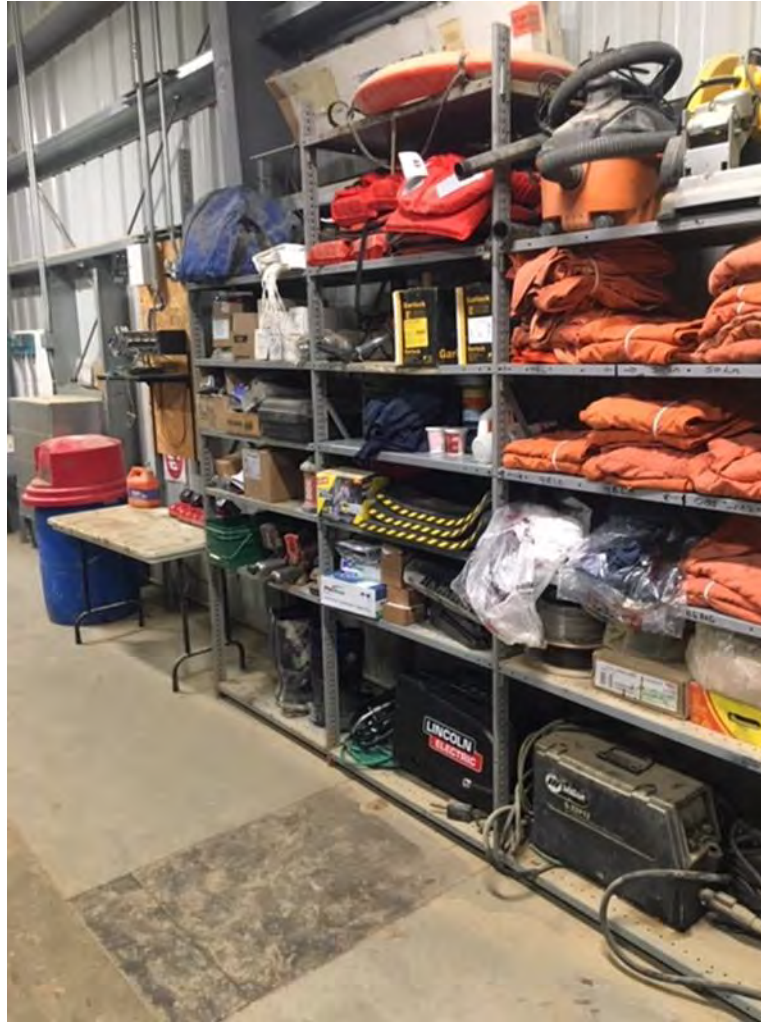
# Falls

- Screen changes – installed handrail
- Belt Splice – removable handrail
- Leading Edge/Sharp edge fall protection



# Housekeeping

- 5s projects
  - Sort
  - Straighten
  - Shine
  - Standardize
  - Sustain
- Employee ideas
- Competition





## 5S – Screens / Metal storage

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# Control Panel Protection – Boom Lifts

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- Rental Aerial Work Platform
- Equipped w/ control panel protection
- Switch disables controls



# Ergonomics

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Reduce back pain, sprain, strain

Improve worker efficiency /  
longevity

- Welding/Fabrication
- Cordless tool use
- Skid steer use





# Ergonomics - Mobile Work Stations





# Ergonomics – Cordless Tools

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- No cords (trip/fall, GFCI, Continuity/Resistance, mobility)
- No air lines
- Shown:
  - Grease gun
  - Caulk gun
  - Sawzall
  - Angle grinder
  - Impacts
  - Ratchets
  - Flexco tools



# Ergonomics – Clean up w/ skid steer attachments

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# Trucker Appreciation

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- Show appreciation to truckers
- Free food
- Grab items (SWAG)
- Safety Tips





- **QUESTIONS**
- **COMMENTS**
- **DISCUSSION**