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Report on  
Jordan Narrows Pump Station  
Ventilation Replacement

September 12, 2007

# Jordan Narrows Pump Station Ventilation System Replacement

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Engineer: JWCD Staff with Heath Engineering

Contractor: Nelson Brothers Construction

Contract Award Date: November 2006

Original Contract Amount: \$304,630

Final Contract Amount: \$338,004

Cumulative Change from Original Contract Amount: 11%

# Jordan Narrows Pump Station Ventilation System Replacement

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## Summary of Change Orders

Change Order No: 1 \$4,501

Upgrade evaporative coolers motors for longer life.

Change Order No: 2 \$7,922

Enlarge roof openings to reduce air velocity.

Change Order No: 3 \$15,505

Electrical improvements and relocations.

Change Order No: 4 \$5,446

Add exterior lighting and safety guards.

# Jordan Narrows Pump Station Ventilation System Replacement

## Purpose:

The purpose of the project was to replace the original equipment cooling system with a new system to increase cooling efficiency and decrease maintenance costs. The original system was no longer able to maintain the operational temperature as required for proper operation of the three (3) 1500 horsepower (HP), one (1) 1250 HP, and three (3) 800 HP pumps.



Before



After

Two new evaporative cooling units  
on screening room roof

# Jordan Narrows Pump Station Ventilation System Replacement

## Screening Room Roof



Before



After



# Jordan Narrows Pump Station Ventilation System Replacement

## Pump Room Roof



Before



After  
Four new 15,000 CFM roof  
mounted exhaust blowers

# Jordan Narrows Pump Station Ventilation System Replacement

Pump Room  
60,000 CFM Cooling



Before



After  
New air distribution  
ducting and supply grills