Source Energy's Solution to Wellsite Silica Dust
Source Energy Services

A History of Frac Sand Growth

1998 – Sand Source - sand storage

2006 - Logistics offering with wellsite storage

2013 – WI northern white mine and production
First Sahara Unit deployed to wellsite

2014 – Unit train facility / expanding terminal network

2015 - Integrated last mile logistics

2017 – Two additional WI Mines

2018 – 2nd unit train facility

2021
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Source Energy 2021

- 3 mining/production facilities
- 2M metric Tons / 2.2M short tons
- 2200 rail car fleet
- 176k MT storage in 8 rail terminals
- 2M T terminal through-put
- 8 Sahara Units in CAN & USA
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Silica Exposed Employee Protection

• Health Monitoring
  - Pulmonary Function test
  - Chest X-rays
  - Past exposure surveys
  - Respiratory fit testing

• Silica Code of Practises / Protection Plans
Silica Dust Control Measures

Production

- Mining & Wash Plant

- Wet Product
- Limited employee exposure
- Heavy Equipment filters
- Road dust suppression
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Production

• Dry Plant & Rail Load Out
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Production

- Dry Plant & Rail Load Out
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Silica Dust Control Measures

Production

- Engineering improvements
  - Dust collectors
  - Pick up Points
  - Central/Mobile vac System
  - Wet Auger
  - Misters
  - Dust Hoppers
  - Third party cleaning
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Silica Dust Control Measures

Terminals
- Administrative/PPE
- Restricted areas
- HE cab filters
- Automation
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Field Solutions - Sahara
- Engineered to reduce Wellsite Dust

COMPACT: Vertically elevate sand
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Field Solutions - Sahara
- Engineered to reduce Wellsite Dust
**Source Energy Services**

**Silica Testing Results:**

**Industry PEL (mg/M3)**
AB OHS/WS BC = 0.025  
US OSHA = 0.050

**Sahara Unit:**
- Driver Over = 0.024
- Control Panel = 0.021
- Bucket Elevator = 0.008
- Stinger = 0.029
- Dog House = 0.007
- Down Wind = NIL
- Operators = 0.030

* 100 mesh sand day
Field Solutions - Sahara
- Continuing to seek out improvements to remove PPE/Admin requirements

Decon Booth

Driver Over

Blender drop point
Questions & Comments