



BLV Stakeholder Meeting 2018

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Hosted by: The BLV Group & Alberta Transportation

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STONEY TRAIL AGGREGATE RESOURCE

Introduction

BLV Group

- In Operation since 2006
- Community Engagement & Involvement
- Constant Operational Improvements to Environmental Objectives
- Yearly Open Houses
- Top Industry Producers that exceed standards

Operations

2017

- Up to 4 Crushers & 1 Wash Plant in Operation
- BLV Production of 2.7 MT
- Alberta Transportation Contractor Processing 600 kT

2018

- 3 Crushers & 1 Wash Plant in Operation
- BLV Production Forecast of 2.7 MT
- No Alberta Transportation Contractor on site

Current Mitigation Measures

- Noise and dust monitors are installed at the site in order to provide guidance on site performance
- Noise and dust monitoring data is published to a public website with regard to the project
- Processing equipment is either shrouded or damped with noise and dust reducing baffles
- Full time water truck was employed throughout 2017
- Dust was controlled on internal roads through the use of Calcium Chloride which acts as a dust suppressant.
- The entrance to this site is paved to control dust and reduce noise
- Plants are required to use dust suppression systems utilizing water sprays at transfer points

Operations

**OPERATIONS HALTED
IN DECEMBER DUE TO
DUST LEVELS.**

Operations

- Extremely dry conditions
- Smoke during most of the summer in Calgary area.
- 24 Hours Operations
- Higher then usual sales activities
- Multiple High Wind events
- Contractors Speeding in Pit
- No use of water truck during night operations
- Inconsistent use water for dust suppression on contractor plant
- Haul trucks & Rock trucks being operated nightly with no dust suppression

Operations

CHANGES TO OPERATIONS

Immediate Enhancements - 2017

- ✓ •Crushing operations to cease when wind speeds exceed 75 km/hr.
- ✓ •Calcium Chloride application on roads and high traffic areas in the pit (weather permitting)
- ✓ •Super-stackers to now be a required stockpiling component for crushers. This will reduce drop distance on all material produced and will reduce dust. Super-Stackers are available to allow the conveyor to move up and down and in and out. It reduces the drop height of the product being made, and allows for less dust to be created
- ✓ •Daily sweeping of entrance when sales activities are occurring
- ✓ •Daily water truck operation when the ambient temperature is above zero degrees

Proposed Enhancements 2018

- Second Noise Monitoring Station to be deployed on the West property limit.
- Additional paving around pit entrance to further reduce dust and noise
- Enhanced application of Calcium Chloride application on roads and high traffic areas in the pit
- Perimeter slopes will be Hydro-seeded with the goal of reducing dust.
- BLV will examine operational improvements to reduce the number of stockpiles.
- Environmental Management Systems will be updated to 14001:2015 Standards
- **New Online Dust/Noise Reporting**

Alberta Transportation Contractors

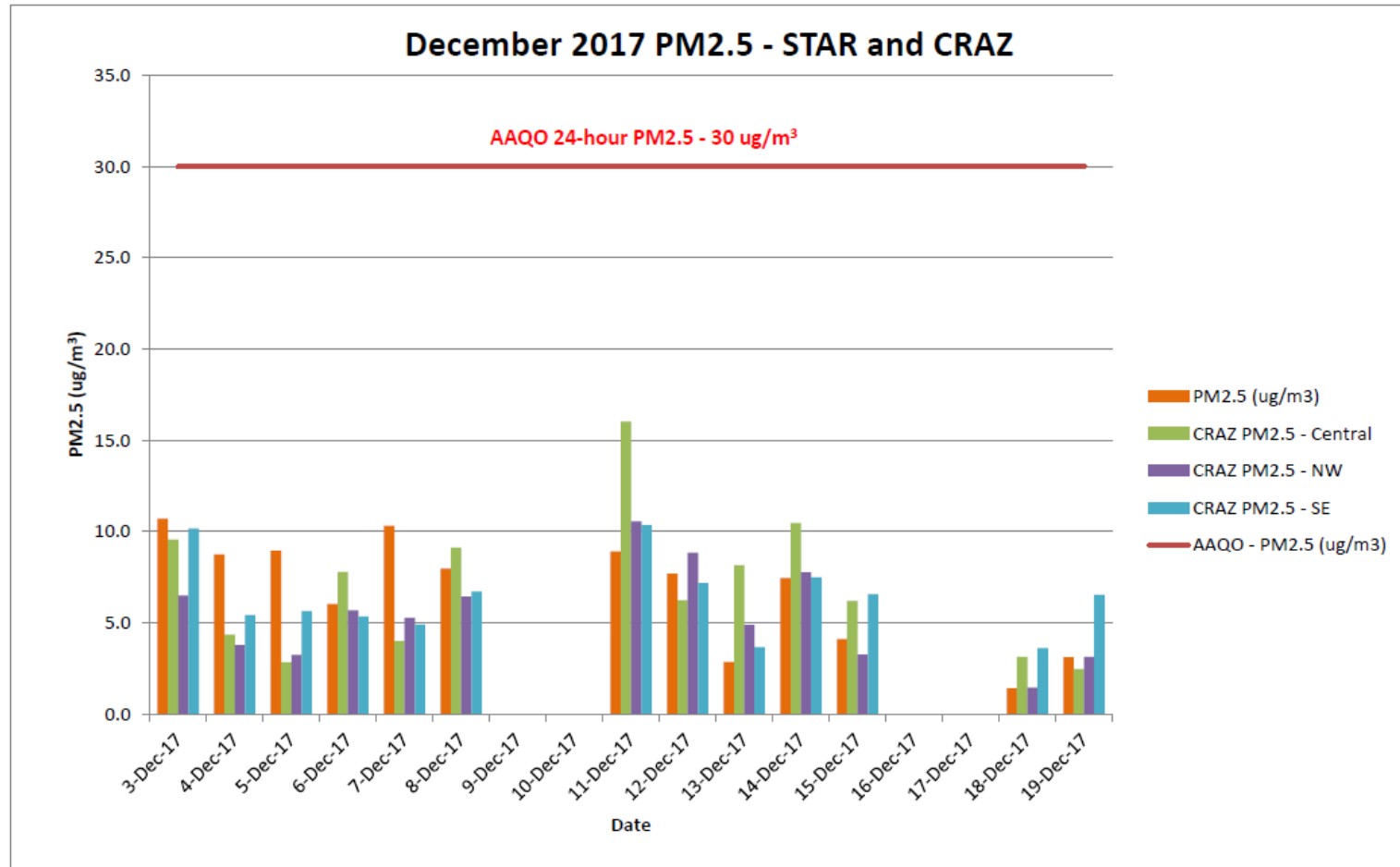
- All Alberta Transportation contracts that designate STAR as the source option quarry, must adhere to the same standards of the BLV Group
- Financial Penalties possible
- Stop Work when outside guidelines
- BLV responsible for monitoring, and notifying Transportation when contractors are in breach
- All monitoring will be through portable live sound monitor and the stationary live sound and dust monitor.
- Contractors will also need to meet all future improvements made by the BLV Group

Dust & Sound Live Monitoring

- Live monitoring is active on site and will be recording data 24/7.
- Prior to an exceedance there will be an alert send out.
- Portable Sound Monitor will be moved around the site.
- Dust and Sound Station will be moved as mining progresses.
- Data will include Operational Run Times & number of active plants.
- Comparison to Calgary Regional Air Shed data.
- Wind, Rain and Temperature

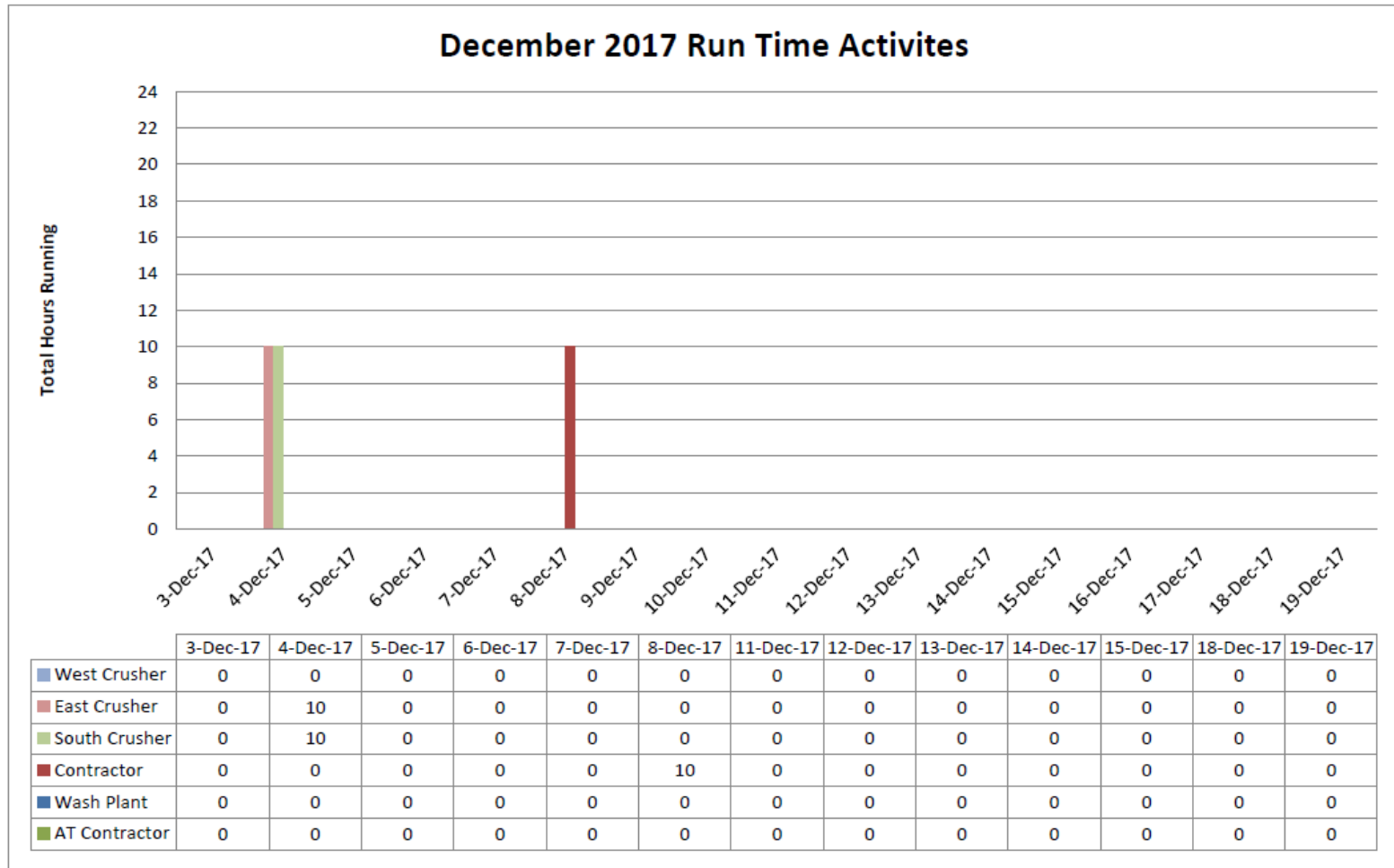
Dust & Sound Reporting

STAR & CRAZ



Dust & Sound Reporting

STAR OPERATIONS



Questions

