Teck Trail Operations

Fugitive Dust Update

November 26, 2019

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Overview

What is fugitive dust?

Current fugitive dust reduction initiatives

- Open areas of material mixing and handling
- Building emissions
- Road dust
- Monitoring

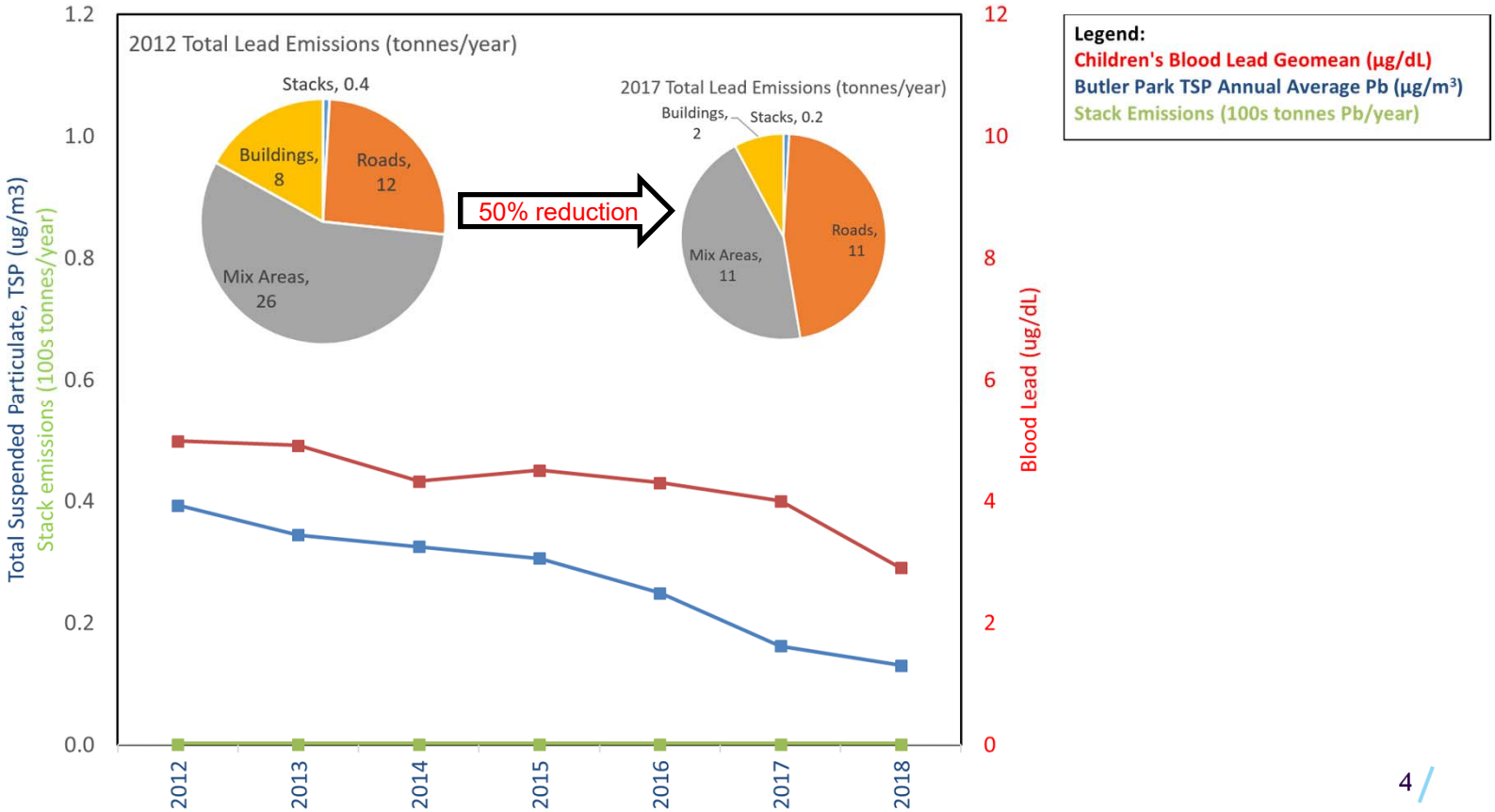
Next steps

What is fugitive dust ?

Fugitive dust is dust that escapes from stockpiles, open handling of materials, buildings and vehicle traffic on and offsite. Fugitive dust is not stack emissions.

Why fugitive dust reduction?

Reducing fugitive dust from Trail Operations has been shown to be the best approach for further reducing the levels of metals in the community.



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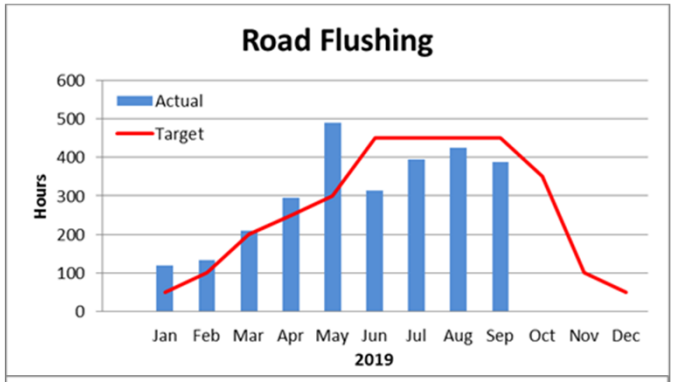
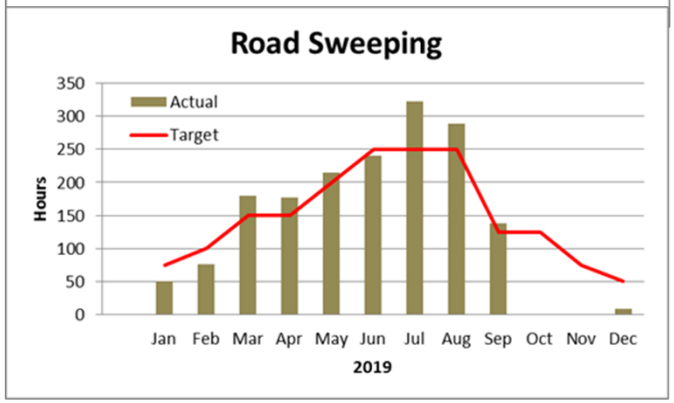
Current fugitive dust reduction initiatives:
Open areas of mixing and handling, Roaster pad dust management

Current fugitive dust reduction initiatives:
Building emissions, Lead Refinery and No.2 pot emissions

Current fugitive dust reduction initiatives:
Road dust, Smelter wheel wash

Current fugitive dust reduction initiatives: Road dust, metric is hours of cleaning





Current fugitive dust reduction initiatives: Road dust, real-time road dust monitoring

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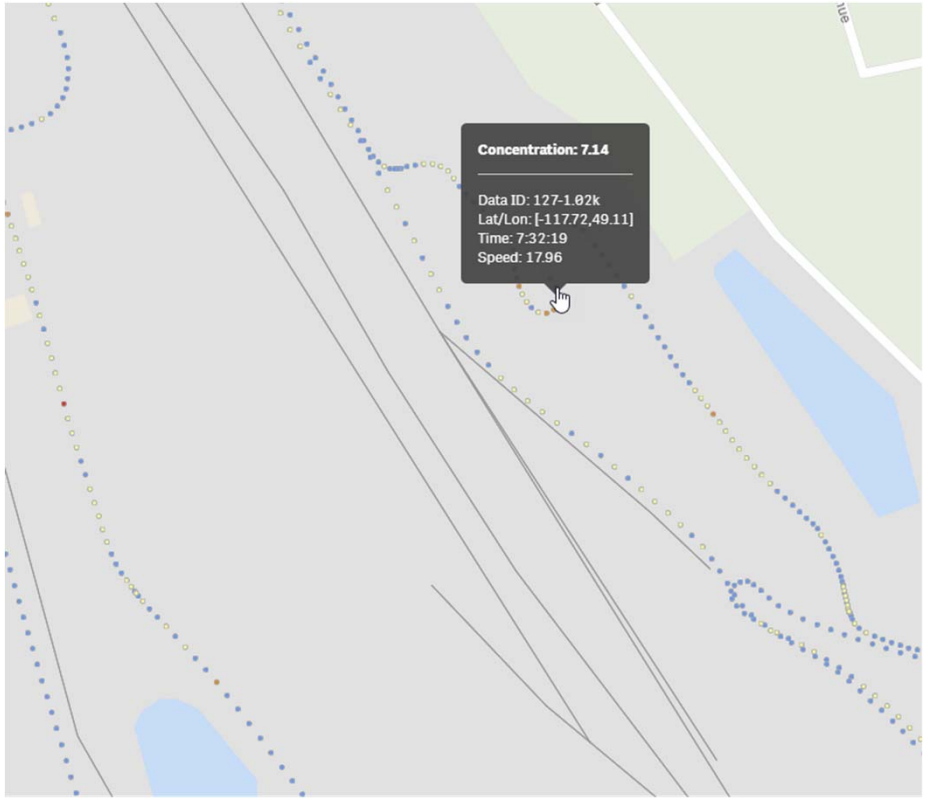
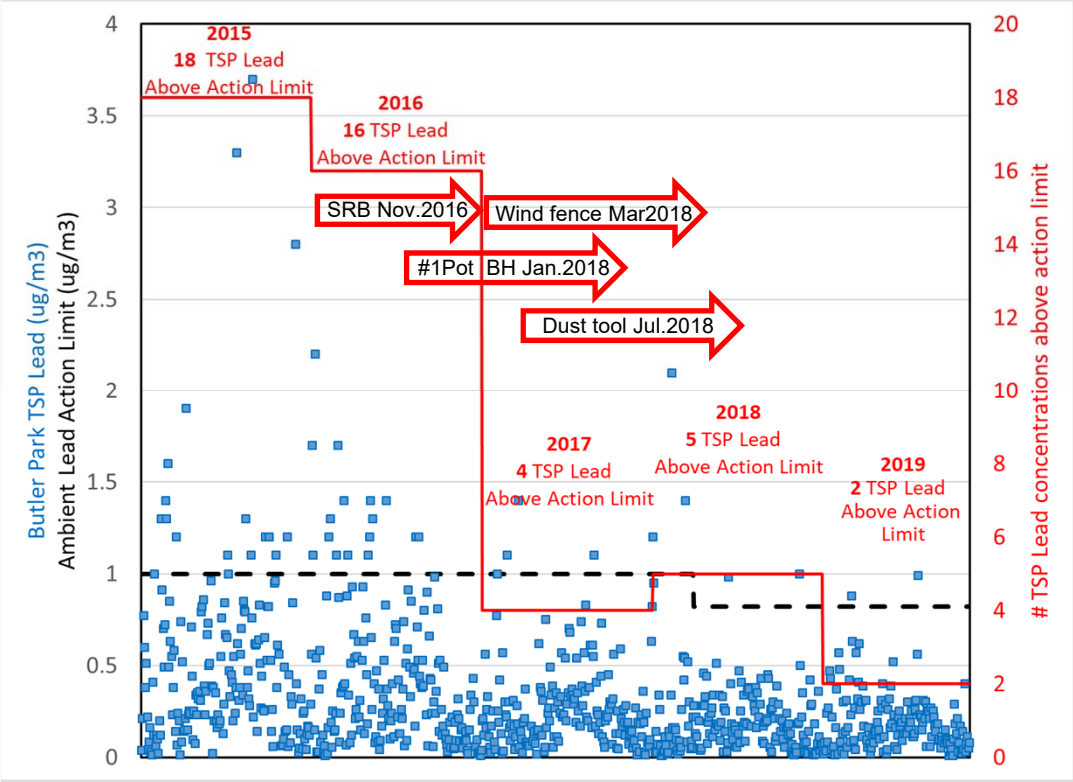


Current fugitive dust reduction initiatives: Monitoring, routine TSP Lead monitoring



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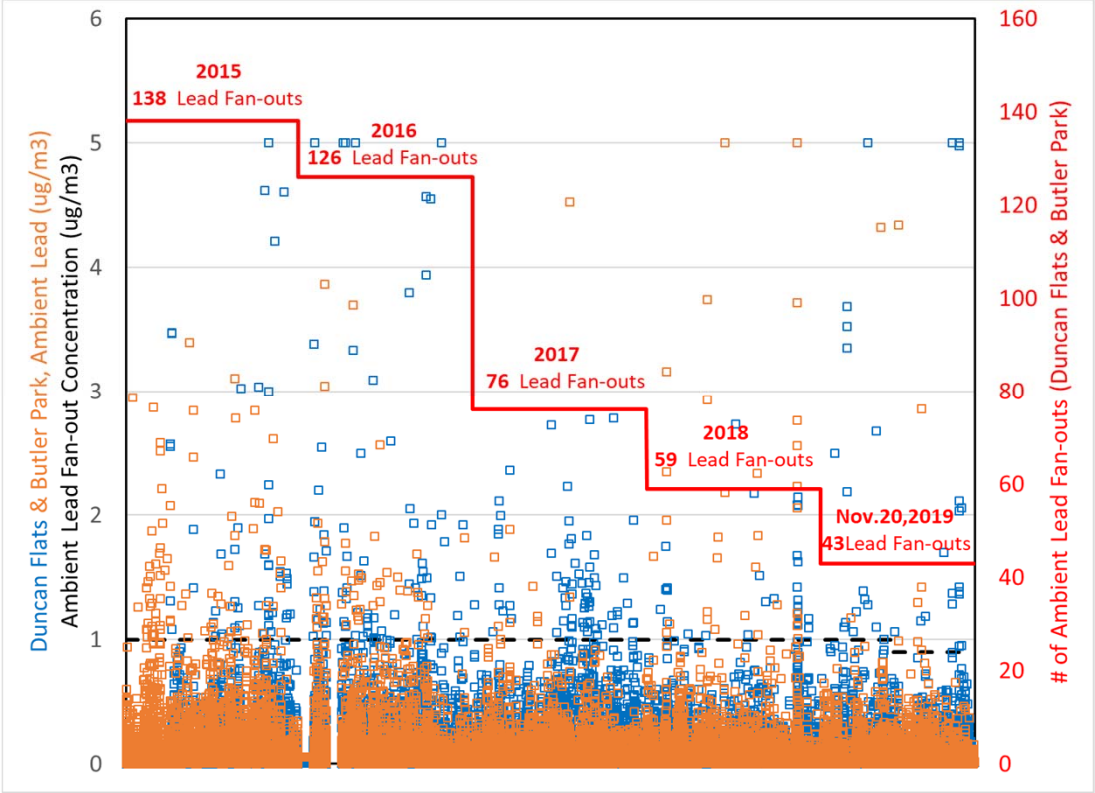
Current fugitive dust reduction initiatives: Monitoring, ambient air fan-outs



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Current fugitive dust reduction initiatives: Monitoring, ambient air fan-outs

Next Steps

Monitoring

- Big data, analytics, machine learning to inform Capital Projects ($/kg Lead removed)

Capital Projects

- Continue to reduce material tracked onto roads (ie. wheels washes, road access, enclosures)
- Continue to reduce dusting from material stockpiles (ie. wind fencing, more work on Roaster pad)
- Continue to improve plant hygiene while at the same time reducing building fugitive emissions

Continuous Improvement

- Lower alarm points based on improved performance
- Generate new ideas and solicit contributions to reducing dust