



## Trail Health & Environment Committee Fugitive Dust Update

June 25, 2013

# Fugitive Dust Project:

## *Project Goals*



- Reduce fugitive dust emissions
  - Improve materials storage for raw materials, intermediate process materials and recycles at Trail Operations
  - Develop sustainable materials transportation, handling and recycling practices
  - Reduce fugitive emissions from existing processes and infrastructure
- Develop 5-year Plan with milestones and targets to achieve THEC 2018 ambient metal targets
  - Improve risk and source identification
  - Focus on continuous improvement
  - Develop improved control measures to prevent excursions from resulting in elevated fugitive emissions

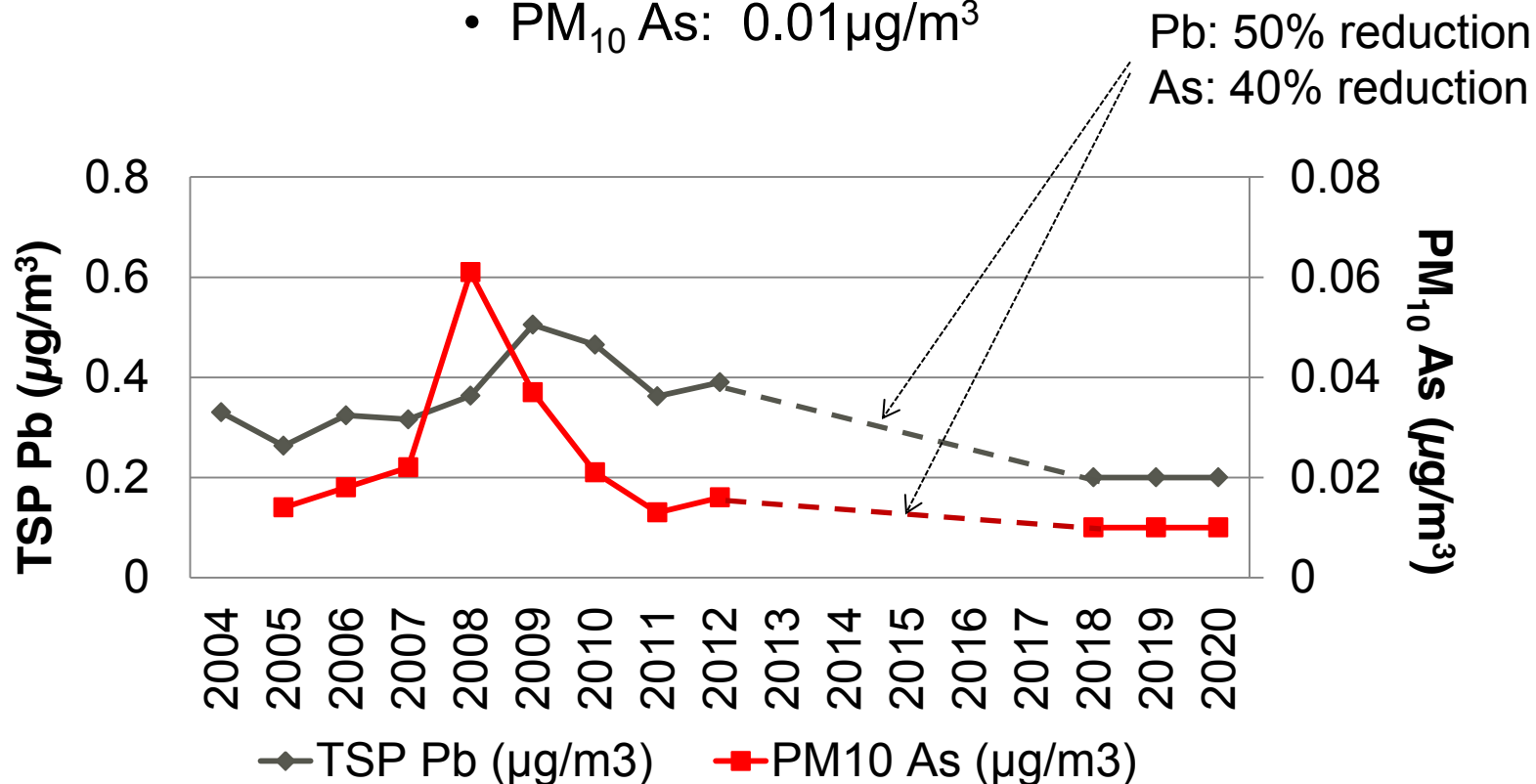
# Fugitive Emissions

- Ambient Air Targets at Butler Park



## Achieve 2018 targets:

- TSP Pb:  $0.2 \mu\text{g}/\text{m}^3$
- PM<sub>10</sub> As:  $0.01 \mu\text{g}/\text{m}^3$



# Fugitive Dust Project:

## *Project Status – Materials Storage*



### **Tadanac North Enclosure**

- Site preparation underway
- Construction to commence first week of July
- Project complete October, 2013



# Fugitive Dust Project:

## *Project Status – Materials Storage*



### **Smelter Recycle Enclosure**

- Feasibility study peer review underway

### **Roaster Feed Enclosure**

- Engineering study initiated





# Fugitive Dust Project:

## *Project Status – Transportation*



### **Roadway Fugitive Dusts**

- Sweeper and wash trucks targeting main sources
  - Monitor and track use weekly
- Truck wheel wash
  - One in use at Smelter Recycle Mix area
  - Second unit being installed near the Roasters
- Road sprinklers
  - Expanded use of sprinklers to new roadways

# Fugitive Dust Project:

## *Project Status – Transportation*



# Fugitive Dust Project:

## *Project Status – Building Fugitives*



### **Identified significant sources**

- Work completed Spring 2013
- Key source of fugitive emissions identified
  - KIVCET
  - Lead Refinery
- Individual plants developing & implementing plans



# Fugitive Dust Project:

## *Project Status – Improved Monitoring*



### **XACT Monitor**

- Butler Park Station
  - Useful tool for troubleshooting process issues
- Expanding to second XACT
  - Located North of the property, similar distance as Butler Park.
  - Commissioning underway this week
  - Operational mid-July

# Fugitive Dust Project:

## *Project Status – Five Year Plan*



### **Draft completed**

- Elements include:
  - Enclosures – common element of successful fugitive emission reduction plans
  - Controlling & reducing fugitive emissions from buildings and roadways
  - Human factors – improving employee awareness of the issue and what they can do to facilitate improvement
  - Continues improvement – annual evaluation and adjustment of plans
- Reviews with Senior Management and Operating Managers underway