

# Community Relations Committee - Bowmanville



25 October 2021 Presentation to Clarington Council

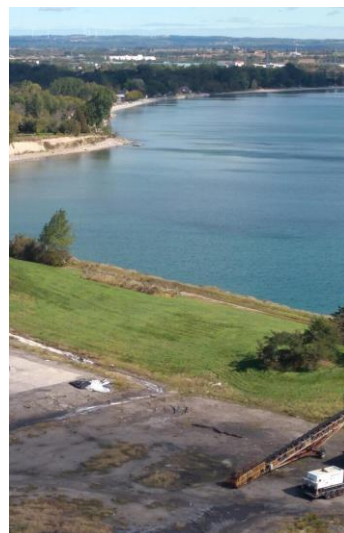


# Community Relations Committee 2021

Meeting each quarter to discuss activities of environmental concern in the community

## Topics include:

- Public safety along waterfront and use of private and public spaces
- Natural environment protection and management in the area
- Clarington activities and news that could impact the community
- St Marys operation improvements and information exchanges
- Exchanges of information that occur throughout the year on activities in the area
- Science and Engineering specialists engaged to inform the committee on environmental matters



# Community Relations Committee 2021

## Blast Liaison Committee

- Formed with community members to share information on St Marys Blasting activities
- Community members complete a blast experience survey for each blast
- The blast data and survey data are compiled to assist in evaluating and acting on sources of concern
- Blasting experts brought in to evaluate and assist in mitigating blasts during installation
- Community outreach with the regular presence of St Marys personnel in community for blasts





# St Marys Air Monitoring Locations

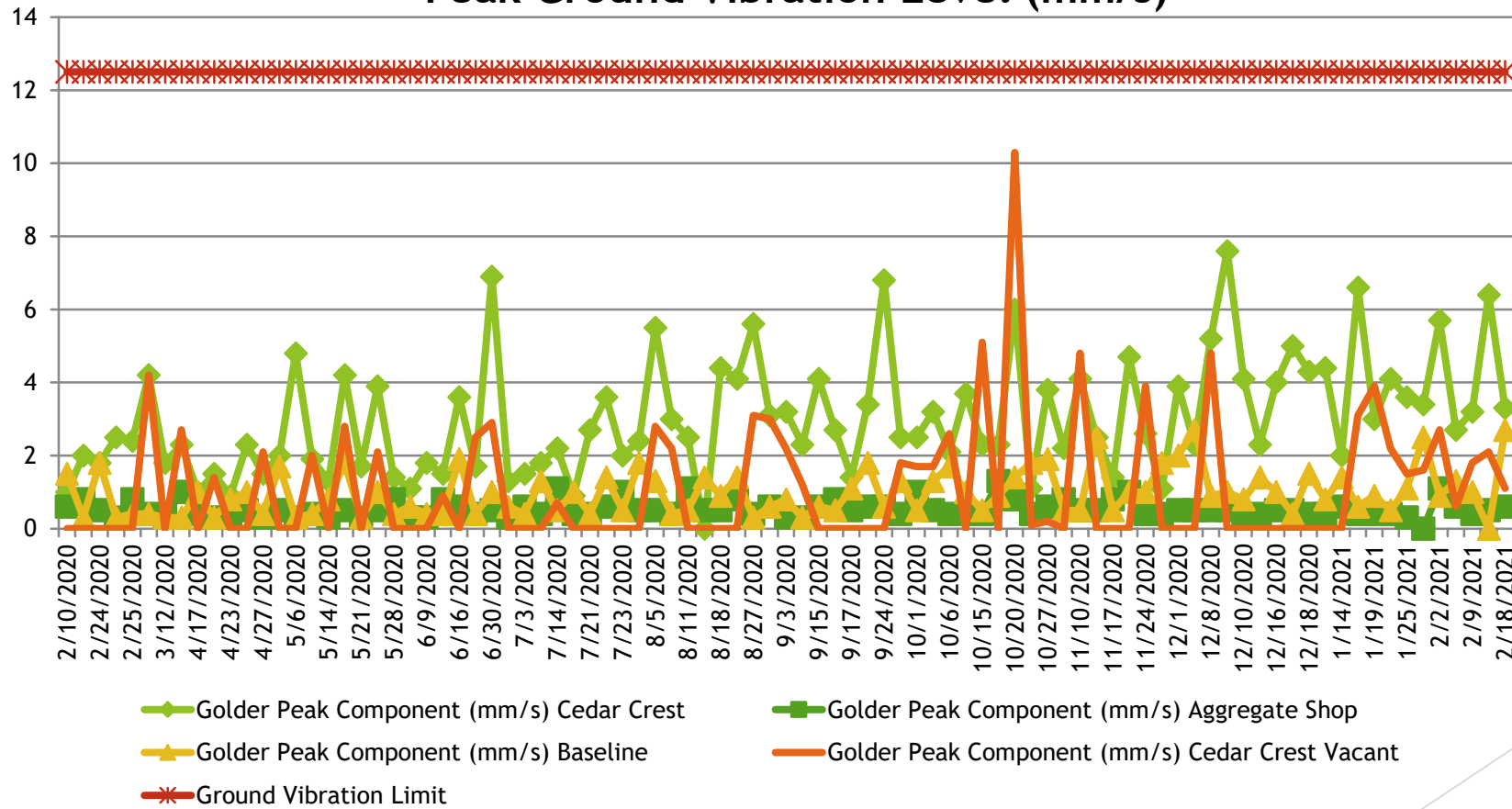


	PM10 BAM	Dust Fall Jar	PM10 Hi Vol	Seismograph	Weather
OPG/SMC1	✓	✓			✓
Cove Road/ SMC2	✓	✓			✓
NE Quarry/Site F/ SMC3		✓	✓		
Aggregate				✓	
Baseline				✓	
Cedar Crest/Site B		✓	✓	✓	
C /Site D		✓			
Cedar Crest (Vacant Lot)				✓	
SMC Main MET					✓
Dock MET					✓

# 2020 St Marys Blast Summary

No Exceedences of ground vibration levels

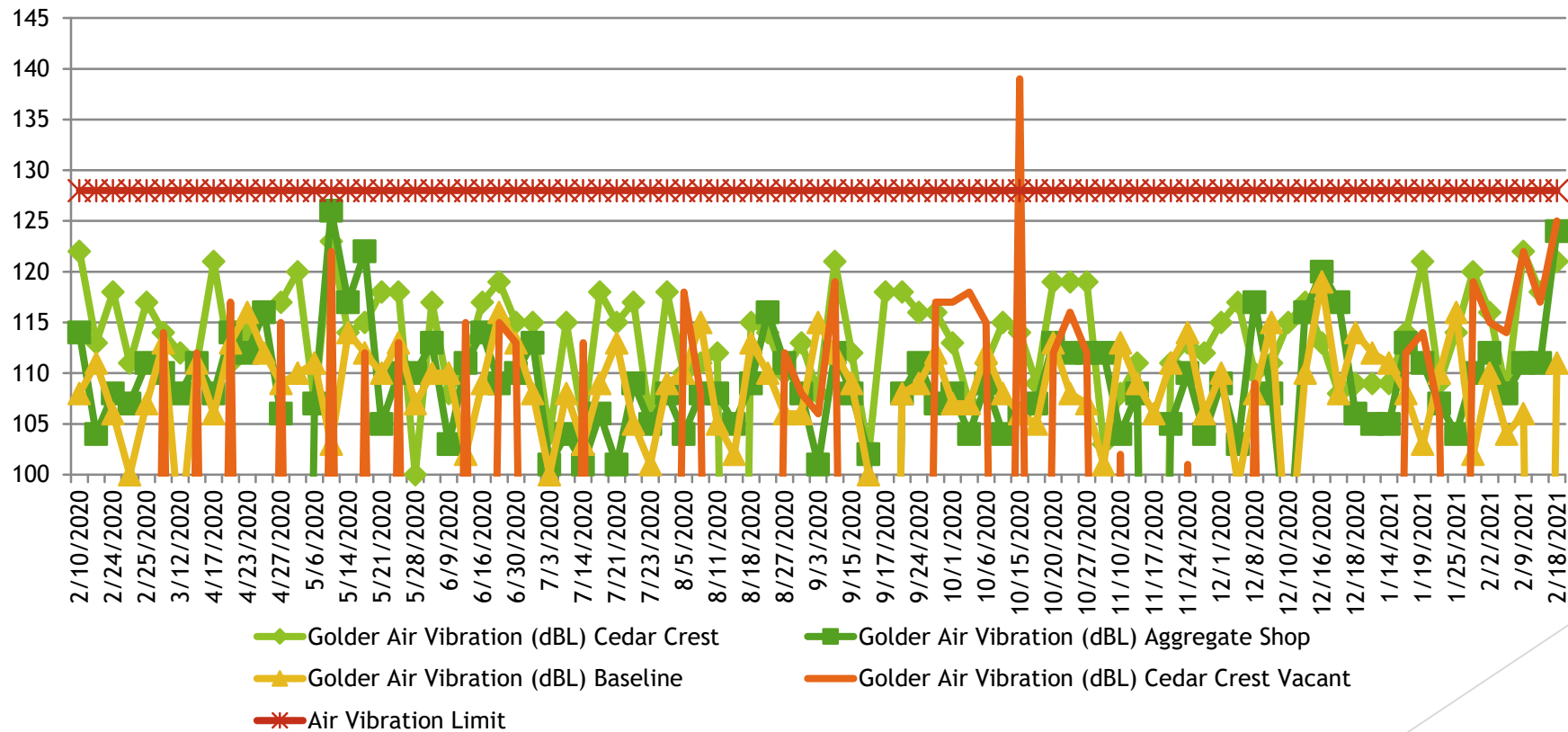
## Peak Ground Vibration Level (mm/s)



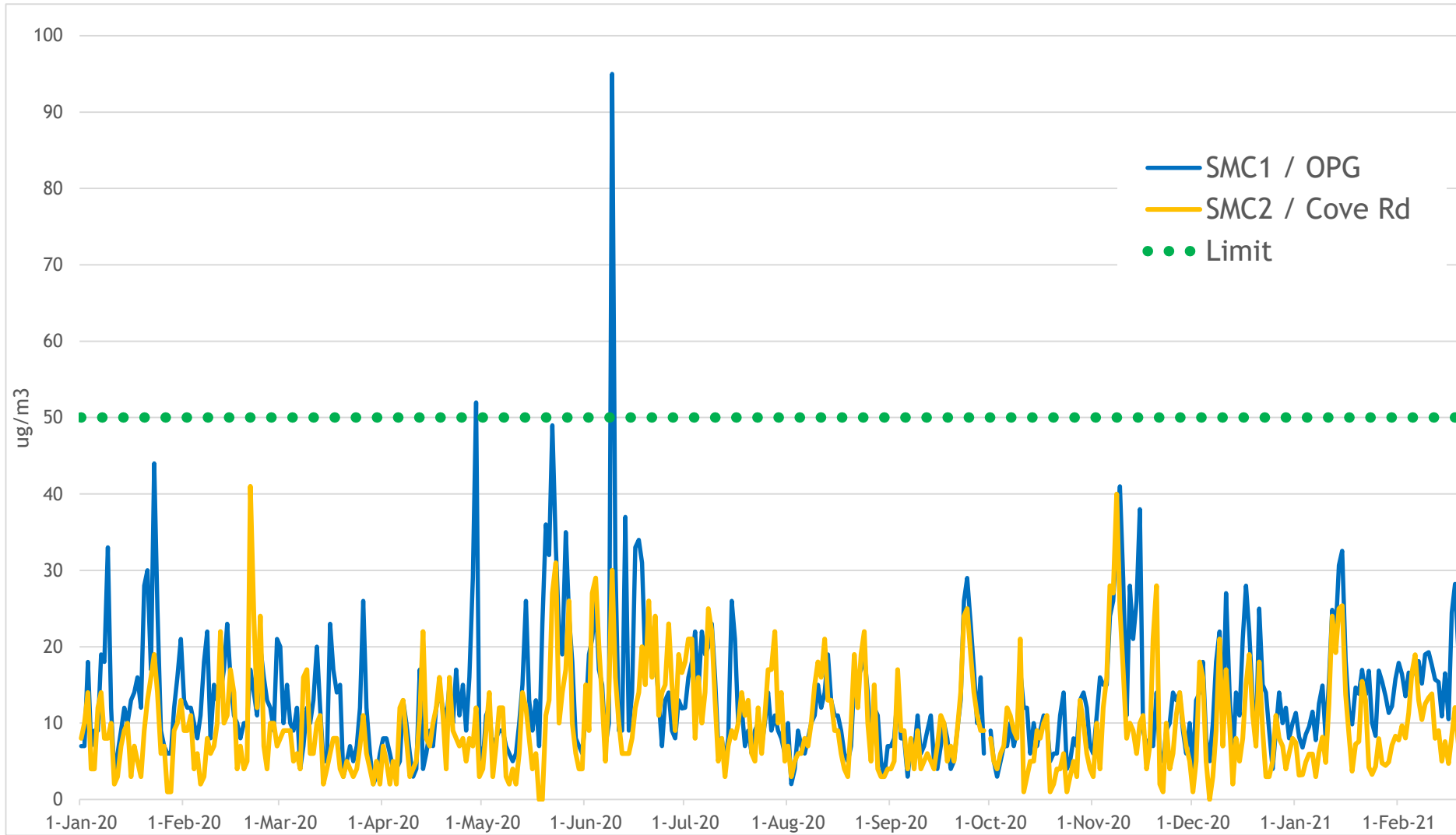
# 2020 St Marys Blast Summary

Exceedence was an anomaly- Device replaced in January 2021

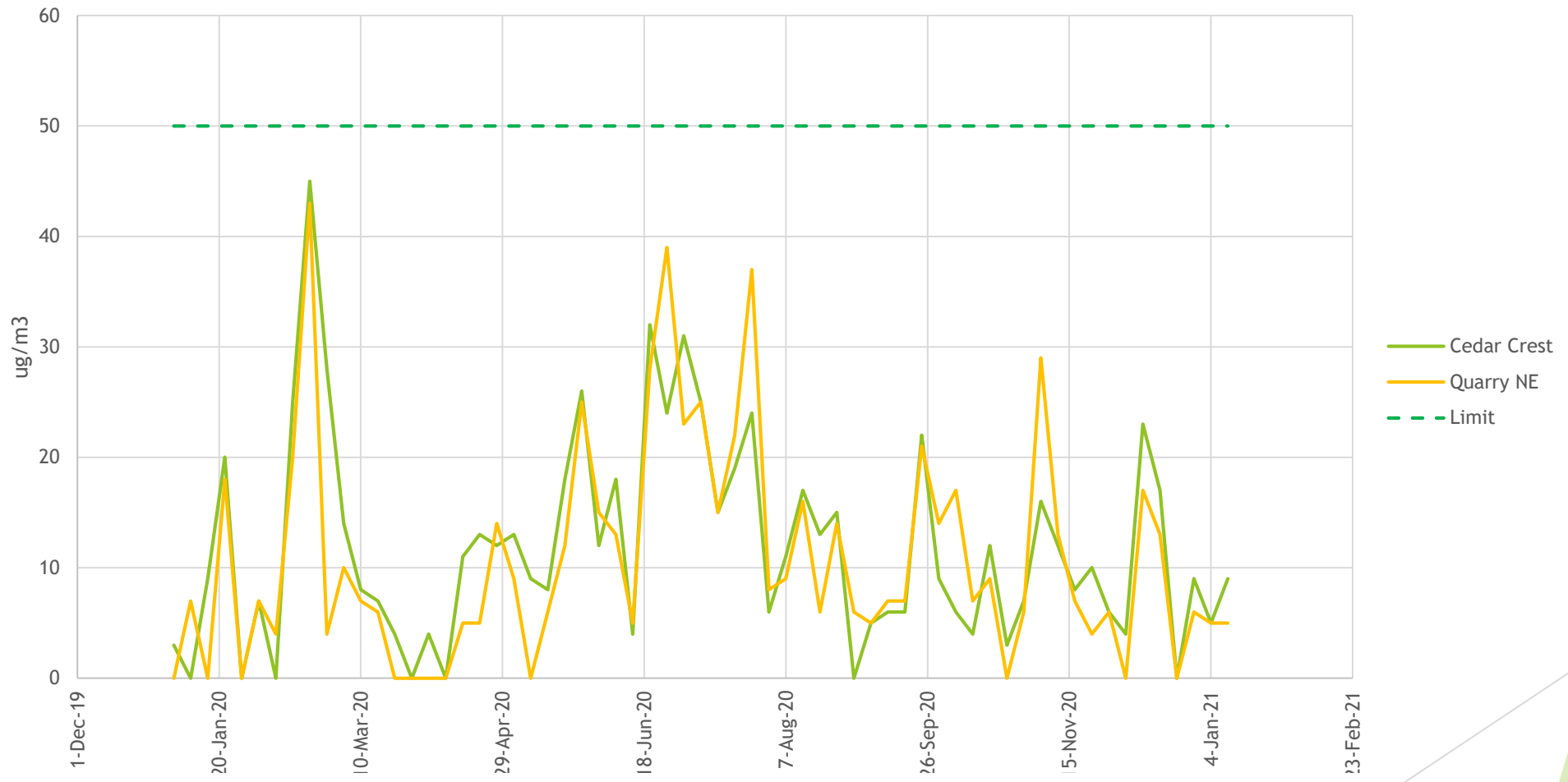
## Peak Air Vibration Level (dB)



# St Marys PM10 Continuous Monitoring Program

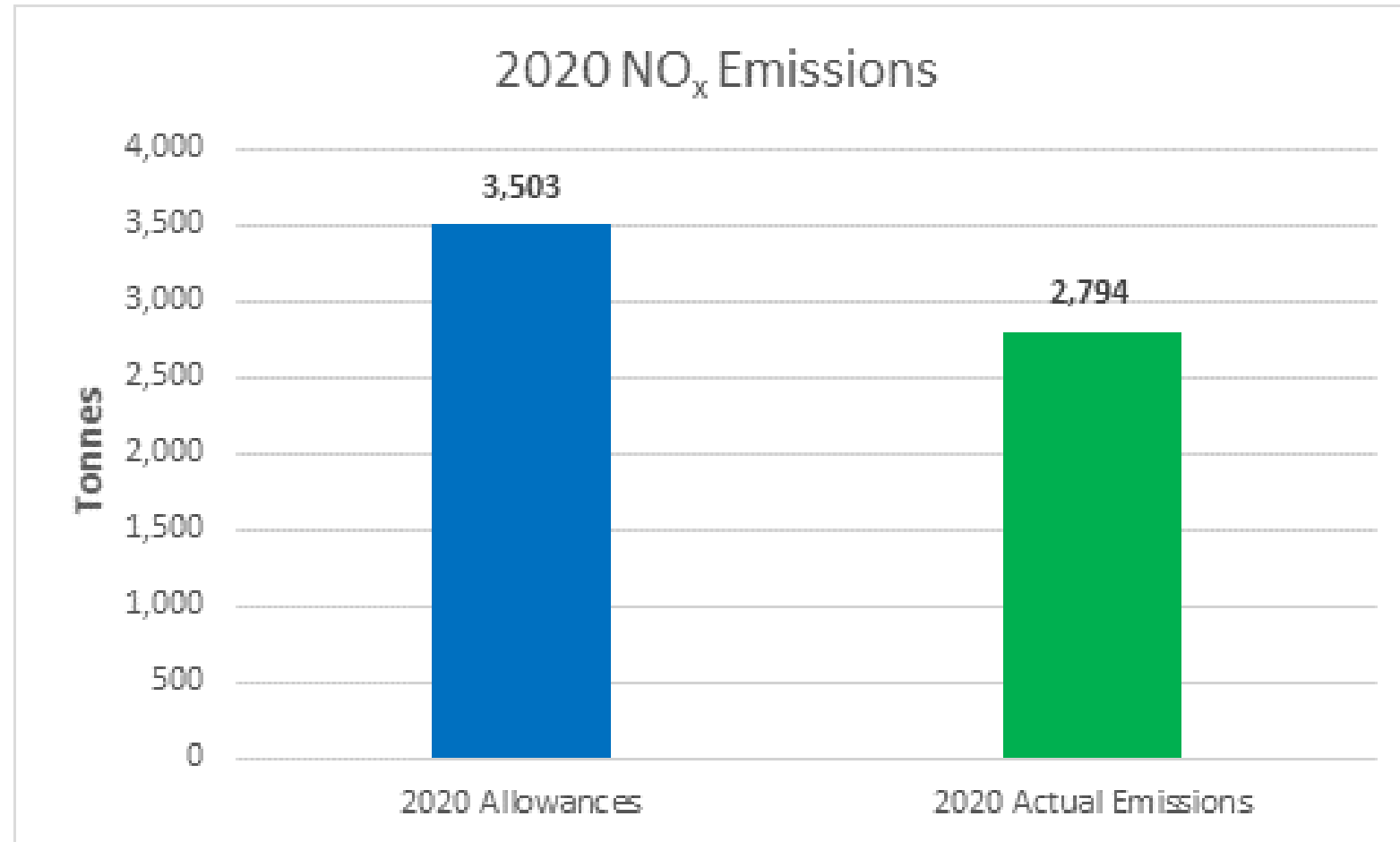


# St Marys PM10 HiVol Monitoring Program

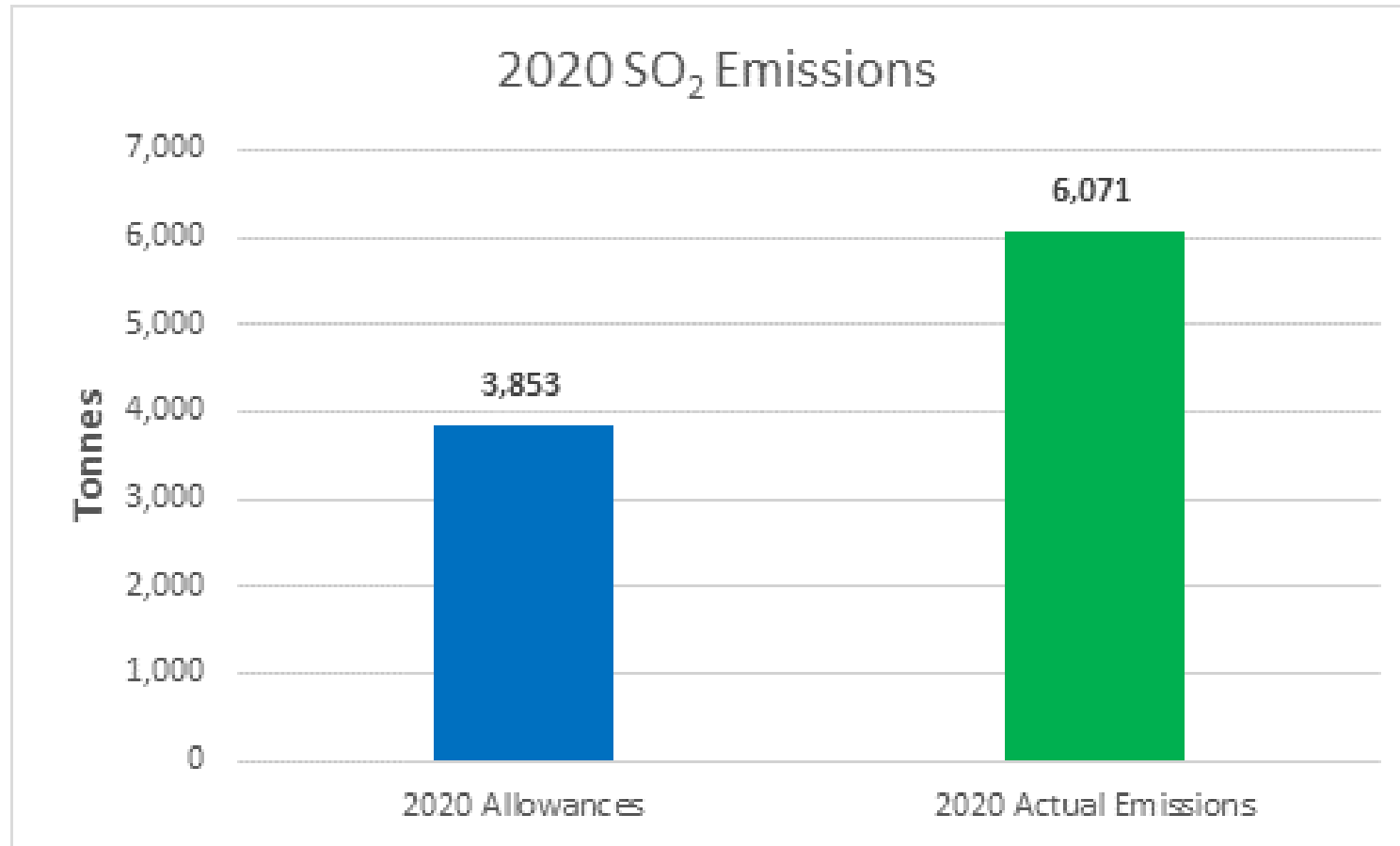




## St Marys 2020 NO<sub>x</sub> Emissions



## St Marys 2020 SO<sub>2</sub> Emissions



## 2020 COMMUNITY CONCERNS RECEIVED BY ST MARYS:



In the 1st quarter of 2020 we received 4 community concerns  
4 - Blast

In the 2<sup>nd</sup> quarter of 2020 we received 3 community concerns  
3 - Noise

In the 3<sup>rd</sup> quarter of 2020 we received 23 community concerns  
18 - Noise  
4 - Dust  
1 - Odour



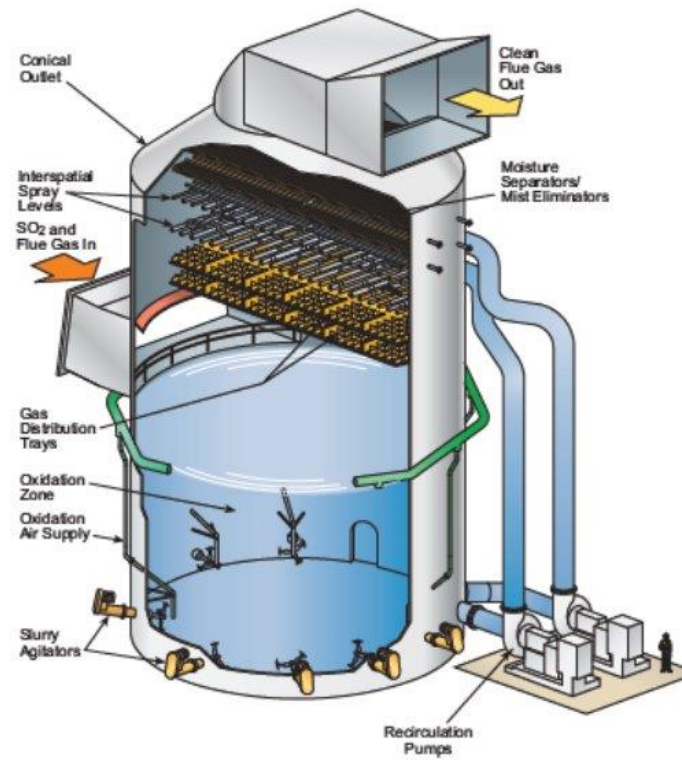
In the 4th quarter of 2020 we received 6 community concerns  
2 - Noise  
4 - Blast



# Environmental Improvements for the Community

## St Marys: Scrubber

- \$23 million investment
- Reduces SO<sub>2</sub> emissions up to 90%
- White water vapour plume is more visible since it is cloud-like and bright white
- October 2021- Scrubber recommissioned



# Environmental Improvements for the Community

## Ultimate Cell Continuous Combustion (UC3)

- ECA amendment proposal for installing an UC3 unit as part of the cement kiln
- Common use in many industries including approximately 50 cement plants
- Improved energy efficiency through the injection of hydrogen and oxygen using a hydrolysis system which splits water into H<sub>2</sub> and O<sub>2</sub>

## Alternative Low Carbon Fuel

- New MECP permit issued at the end of March 2021
- High quality Alternative Low Carbon Fuel use increasing through highly restrictive acceptance of approved material.



# CARBON NEUTRAL BY 2050



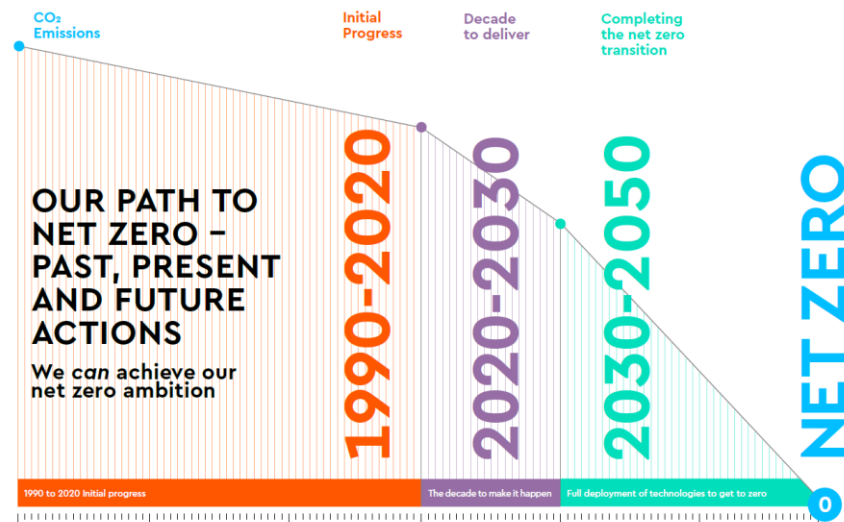
Marcelo Castelli,  
Global CEO,  
Votorantim Cimentos

## VOTORANTIM CIMENTOS 2020 INTEGRATED REPORT

- Delivering society a carbon neutral concrete by 2050
- Clear, innovative and well-defined targets
- Replacing fossil fuels used in our kilns for biomass and other alternative fuels
- Using renewable electricity
- Recycling concrete

Marcelo Castelli  
Global CEO Votorantim Cimentos

GCCA Concrete Future – Roadmap to Net Zero





## St Marys Community Engagement

St Marys Cement places great value on our relationship with our neighbours and we believe it is very important to support our local community by sponsoring local charities and organizations that make a difference in the community. Some examples include:

- Big Brothers and Big Sisters of Clarington
- Bowmanville Hospital Foundation
- Their Opportunity
- MADD
- CLOCA
- Autism Home Based Durham
- Clarington Older Adult Association
- Community Safety Day

Thank You

Questions?