ATMOSPHERIC ENVIRONMENT – NOISE

TENAS PROJECT

Telkwa Mining Assessed the Potential Project-related Effects on the Atmospheric Environment Valued Component

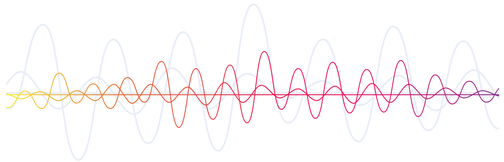
Valued Component	Subcomponent	Potential Effects Assessed
Atmospheric Environment	Noise	Increase in ambient noise levels

Baseline noise monitoring was conducted at 3 locations over a period of approximately 24 hours. Monitoring was repeated 3 times to account for seasonal variability

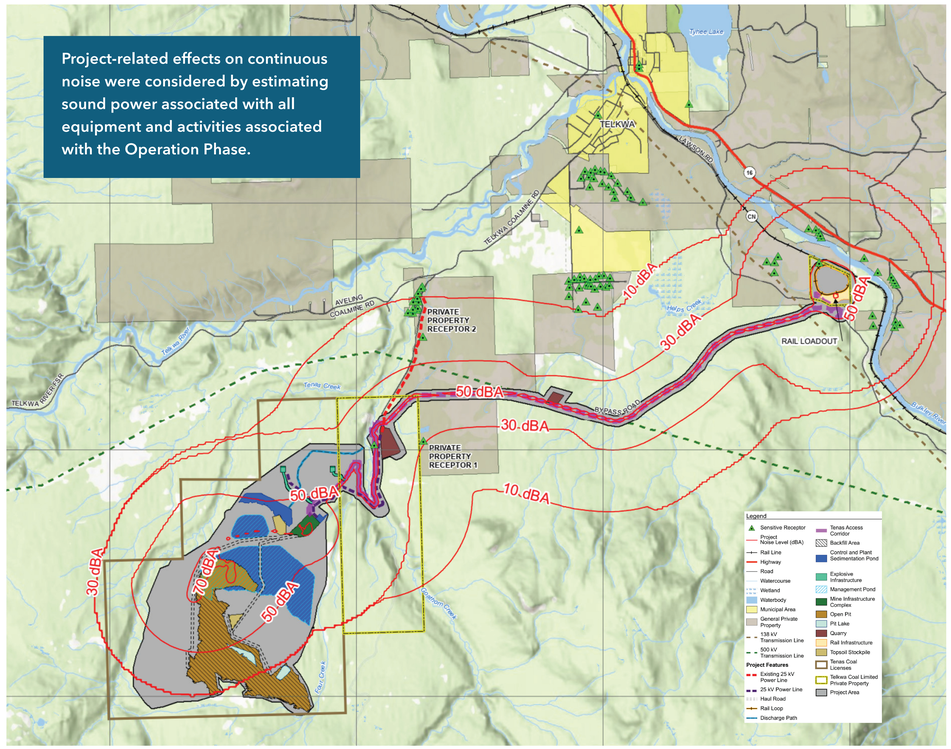
Average baseline noise measurements, fall 2017-spring 2018

Site	Daytime Noise Level (dBA)	Nighttime Noise Level (dBA)
S-Plant (within proposed area for Coal Processing Plant)	36	23
S-TenasDep (adjacent to proposed open pit)	34	29
S-Rail (within proposed Rail Infrastructure, 340 m from CN rail line)	41	38

dBA=decibel



Maximum Project Predicted Nighttime Noise (dBA)



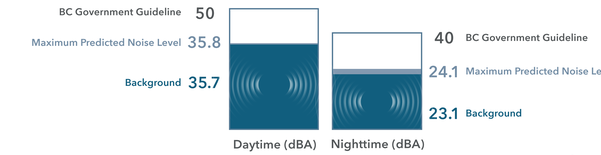
Example Mitigation Measures

- Build, maintain, and use the Tenas Access Corridor for hauling processed coal to the Rail Infrastructure.
- Use best management blasting techniques.
- Monitor actual blast results and implement improvements as required as per the adaptive management process.
- Use electronic detonators and use noiseless lead lines on the surface.
- Use privately controlled Rail Infrastructure so that there are no train whistles generated from train operations.
- Utilize low train speeds.

Residual Effects

- Changes in noise levels due to the Project will not result in any new exceedances of BC's permissible sound level criteria.

Tenas Project Noise Levels



Maximum daytime and nighttime noise levels are expected to remain below the BC provincial permissible sound level (PSL) at the nearest receptors to the Project.

Project-related vibration effects from blasting and rail operations will be below BC provincial objectives beyond the Project Footprint.