

Scoping Question:

Emissions from this Smelter will significantly increase Ambient levels of Sulfur dioxide, Nitrogen oxides and particulate matter in this area.

Many scientific journal published studies in the US and around the World establish these pollutants contribute to peptic ulcer bleeding, sudden infant death syndrome, diabetes, respiratory infections and epilepsy.

How will DOE assess the impact on the community and what level of damage to the health of the community will be considered acceptable?

Source;

Journal *PLOS ONE*

journal *Lancet Planetary Health*.

University of Birmingham's Institute of Applied Health Research

Cynthia Ellis, 475 shadow green road, Blanchard, ID 83804

Scoping Question:

Particulate emissions 2.5 micron and smaller from this Smelter, Truck Traffic and Rail Traffic will significantly increase in this area.

Many scientific journal published studies in the US and around the World establish this pollutant damages brain development and causes lower respiratory infections in children and adolescents, sometimes resulting in death.

How will DOE assess the impact on the community and what level of damage to the health of the children will be considered acceptable?

Sources;

American Journal of Respiratory and Critical Care Medicine

University of Southern [California](#), Keck School of Medicine

William Ellis, 475 shadow green road, Blanchard, ID 83804

Scoping Question; Light Pollution

According to “The First World Atlas of the Artificial Night Sky Brightness, two-thirds of the U.S. population have already lost the ability to see the Milky Way with the naked eye. Here we can see it easily.

Last year, Idaho received Americas **first** International Gold-Tier Dark Sky Reserve designation. Tourists and Astronomers come here because of our night skies!!

Construction and operation of the PacWest Smelter will introduce significant levels of nuisance light pollution.

The 24-hour day/night cycle, known as the circadian clock, affects physiologic processes in almost all organisms. These processes include brain wave patterns, hormone production, cell regulation, and other biologic activities. Disruption of the circadian clock is linked to several medical disorders in humans, including depression, insomnia, cardiovascular disease, and cancer. Equally significant impacts have been demonstrated in animals

How will DOE assess the impact on the community?/

What criteria will be used to determine the level of acceptable damage to health?

Source:

[US National Library of Medicine National Institutes of Health Environ Health Perspect.](#) 2009 Jan; 117(1): A20–A27.
doi: [10.1289/ehp.117-a20](https://doi.org/10.1289/ehp.117-a20)

International Dark Sky Association

William Ellis, 475 shadow green road, Blanchard, ID 83804, 9/20/18

Scoping Question; Noise Pollution

Construction and operation of the PacWest Smelter will introduce significant levels of nuisance noise pollution.

Chronic noise exposure can cause permanent threshold shifts and loss of hearing in specific frequency ranges. Noise induced hearing loss (NIHL) is thought to be one of the major causes of preventable hearing loss. The psychological effects of noise can be equally devastating and may include hypertension, tachycardia, increased cortisol release and increased physiologic stress.

How will DOE assess the impact on the community?

What criteria will be used to determine the acceptable level of damage to community health?

Source:

Int. J. Environ. Res. Public Health **2010**, 7(10), 3730-3738; doi:[10.3390/ijerph7103730](https://doi.org/10.3390/ijerph7103730)

Noise and Quality of Life [Michael D. Seidman](#) * and [Robert T. Standring](#)

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