

Responsible Growth * NEW www.rgnew.org

Dangerous chemicals are used in the processing step, including: Hydrochloric Acid, Trichlorosilane, Hydrogen, Silane (extremely explosive). Many of these chemicals will arrive by truck or by train (community risk).

Toxic amounts of particulate dust (to humans and wildlife) are created (even respirators are insufficient for workers). Tremendous amounts of waste are also generated and will require long-term safe storage (somewhere).

Waste products include silicon tetrachloride (extremely toxic), processed impurities (aluminum, iron, copper, selenium, etc.) and are often simply stored in open unlined pits exposed to the environment. The location is in close proximity to the Pend Oreille River and guarantees eventual leakage into the environment. Fish and wildlife are also at risk from shifting winds. Any downstream / downwind residences and communities will be exposed to dangerous air-borne particulates, chemicals and fumes. Up to 80% of the materials used in processing can be discarded as wastes.

Extremely dangerous and toxic gasses (volatiles) are also used and created during processing, including Carbon Monoxide, Hydrogen, Sulfur Hexafluoride (SF₆), Silicon Tetrafluoride (SiF₄), Sulfur Difluoride (SF₂), Silane (SiH₄), Tetrafluorosilane (SiF₄), Sulfur Dioxide (SO₂). Fugitive gasses can and do escape processing facilities.

How are all these chemicals going to be transported, stored, used and disposed of after use?