Vancouver: Proposed Tesoro-Savage Oil Terminal

Health Risks

- Train noise
- Increased air pollution
- Increased water pollution
- Delay of emergency vehicles
- Potential rail fires and explosions

Increased risk for:

- Stroke
- Development delays
- ASD
- Lowered IQ
- Adverse behaviors

Pulmonary System
- Increased incidence of asthma
- Increased risk for Asthma

Cardiovascular System
- Cardiac arrhythmias
- Myocardial infarctions
- Ischemic heart disease
- Congestive heart failure

Reproductive System
- Reduced sperm quality

Noise pollution can result in:
- Sleep disturbances
- Cognitive impairment
- Cardiovascular disease
- Psychiatric disorders

Environmental Risks

- The volatility of Bakken crude
- Oil spills during loading and transport
- Climate change

State environmental impact:

- Much of the rail corridor lies along the Columbia River.
- A discontinuous and subsequent spill threats valuable wildlife and an intricate ecosystem.
- Home to Native Nations.

Cities at risk:

- Tesoro Savage Proposal would bring an additional 4 loaded oil trains through RNM, carrying 360,000 barrels of crude oil per day to Expoiling communities all along the rail corridor to chronic towards and a potential major disaster.

Health information from: NPS

Babies are at the greatest risk from DPM air pollution:
- Higher rates of neurodevelopmental disorders
- Autism Spectrum Disorder
- Attention Deficit Disorder
- Lowered IQ & Adverse Behavior
- 6% higher risk for asthma bronchitis and significantly increased risk of asthma diagnoses with increased severity and frequency of attacks
- Disruption of sexual differentiation during fetal development
- Increased cardiovascular, pulmonary and overall mortality

Emergency Preparedness

- In a survey of the states, 275 fire districts near crude by rail routes, 82% believe that their departments are not sufficiently trained or do not have the resources to respond.
- Delays at rail road crossing could delay emergency vehicles. 100+ train cars can exceed more than 1 mile in length.

A small number that is actually quite large:
- 9-10 minutes could be the difference between life and death.
- Especially in the case of cardiovascular and respiratory emergencies as well as burns. Blocked train crossings can make all the difference.

Environmental Costs

- Out of a population of over 161,000
- 118 FT
- 0
- 16
- Job gained by oil
- Local jobs at risk
- $10 billion
- 165,000

Economic Risks

- No profit sharing with rail cities such as Spokane
- Displacement of specialized professionals such as longshoremen
- Local business concerns

Evaluate the local economic impact:

The introduction and use of BNSF rail lines to transport crude could result in loss of jobs related to freight of other cargo. Professionals such as longshoremen and other freight personnel are at risk. Jobs would be lost for uncounted time.

On an average day:

- In addition of eight trains per day if loaded, 4 unloaded will pass in an average, approximately delay of 41 minutes per crossing per day.
- Traffic, delivery, and commerce that would be slowed by this delay.

Businesses that rely on freight by rail:

- Crude-by-rail traffic is already blocking and slowing other train traffic. If additional crude-by-rail trains are added to the mix, it will further slow train transportation through the area.

Health information from: NPS

360,000 barrels per day
- 200 crossings
- 26,000 gallons
- 850,000 passengers
- 100+ train cars
- 1,000+ truck crossings
- Increased fossil fuel consumption
- 35% greater increase in global temperatures
- 400 extra deaths
- 625 extra asthma attacks
- 2,000 hospital emergency room visits