# An Assessment of Impacts from the Trans Mountain Expansion Project on Matsqui First Nation

**Decision Analysis Affinity Group Conference 2018** 

Julian Gonzalez EPI julian@ecoplan.ca

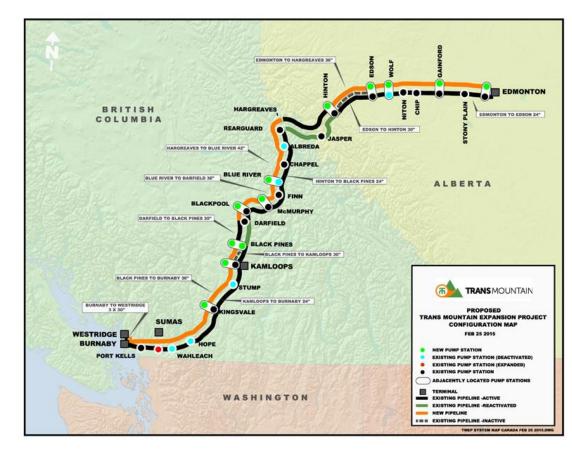


## CONTEXT



#### National Energy Board Hearing

- Trans Mountain (TM) Expansion Project
- Corridor through Matsqui Territory
- NEB Hearing July 2015 (15 month process)





#### TM Impact Assessment

## Not satisfactory for Matsqui FN:

- TM human health risk assessment - No serious long-term effects from potential spill
- Socio-economic analysis on Aboriginal fisheries not conducted because of complexity of predicting socioeconomic effects



ENVIRONMENTAL AND
SOCIO-ECONOMIC ASSESSMENT
FOR THE
TRANS MOUNTAIN PIPELINE ULC
TRANS MOUNTAIN EXPANSION PROJECT

VOLUME 5B: ESA - SOCIO-ECONOMIC

December 2013

ESA-NEB-TERA-00005BExecSum

Prepared for:



Trans Mountain Pipeline ULC Suite 2700, 300 – 5th Avenue S.W. Calgary, Alberta T2P 5J2 Ph: 403-514-6400 Prepared by:

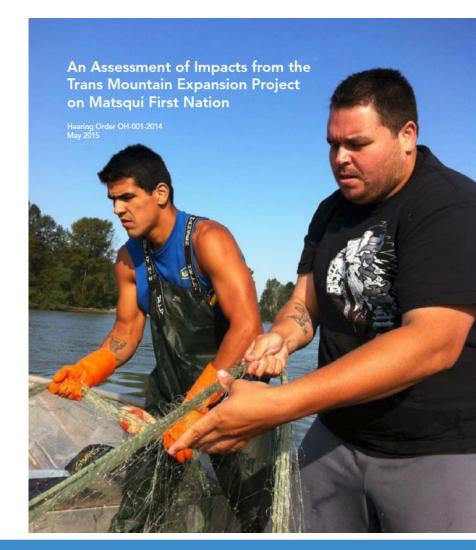


TERA Environmental Consultants Suite 1100, 815 - 8th Avenue S.W. Calgary, Alberta T2P 3P2 Ph: 403-265-2885



#### Scope of EPI's involvement

- Conduct an assessment of the potential impacts of the TM expansion project to Matsqui First Nation
- Support Matsqui governing body to decide if they will support or not the pipeline





## **APPROACH**

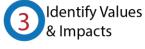


#### Approach Overview









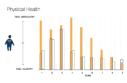












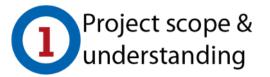


#### Who is the expert?

- Affected Population (Matsqui as Experts)
  - Impacts, values, magnitude, significance
- Technical Experts
  - Scenarios: they have to be possible
  - Measures: objectively measurable



#### Scope



 How might the proposed Trans
 Mountain Expansion
 Project impact what is important to Matsqui?





## Scenarios with impacts to Matsqui



#### **Developed by TM**

- 1. Routine operations
- 2. Hope spill
- 3. Straight of Georgia tanker spill

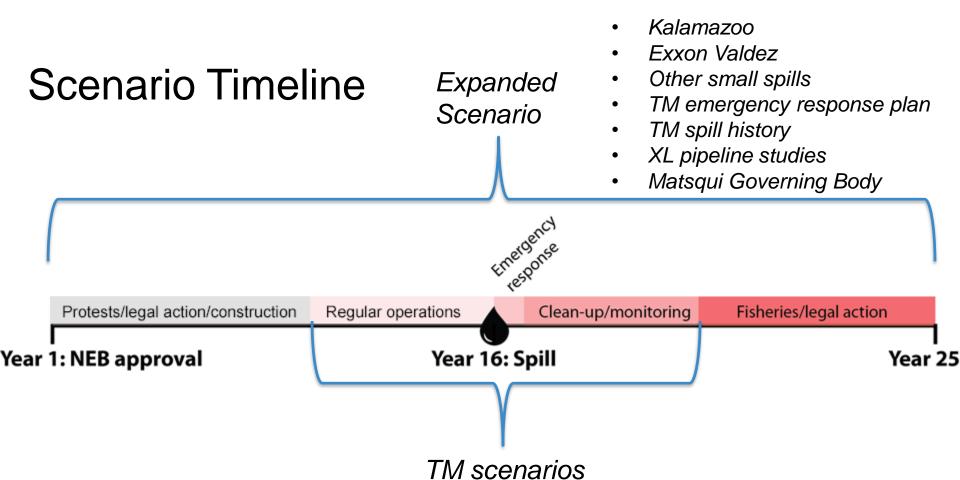
## Developed by EPI using TM information

4. Spill close to Matsqui reserve



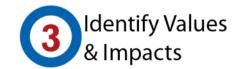
### Research and Analysis







### Identifying Values



#### **Events**

#### **Effects**

- Fish and wildlife health
- Feeling ill
- Anxiety and stress
- Loss of privacy
- Can't use reserve land
- Can't fish, hunt, gather
- No fish for FSC
- Lost rent, taxes, jobs

#### Values

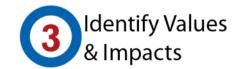
- Construction & Operations
- Spill & emergency Response
- Clean up & Monitoring
- Other: DFO response, litigation, media

- Oil in the river
- Oil on land
- Noxious fumes
- Evacuation
- River closure
- Machinery & workers

- Physical Health
- Psychological/ emotional Health
- Use and enjoyment
- Sohl te mexw
- Cultural traditions& practices
- Trust in officials
- Community autonomy
- Economic/financial



### Identifying Values



Physical health



Trust in government



Psychological/ emotional health



Cultural traditions and practices



Use and enjoyment



Community Autonomy



Sohl te mexw (keepers of the land)

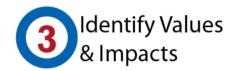


Financial/ Economic







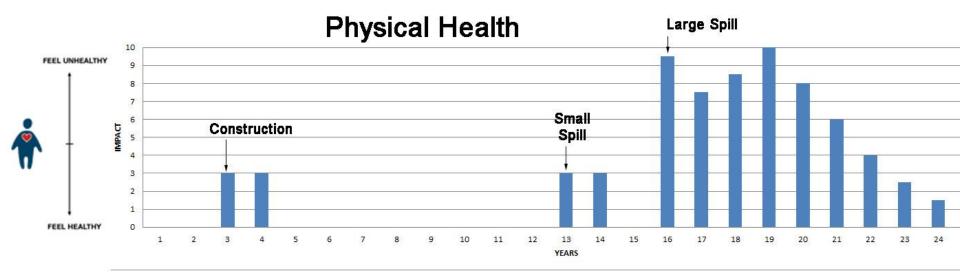


#### Identifying CHANGE to what Matsqui cares about

Value	Before	After
Physical health	Physically healthy  High energy  Low rates of illness  Low stress	Physical unhealthy  Lethargic energy  Higher rates of illness  High stress

## Magnitude of impacts over time

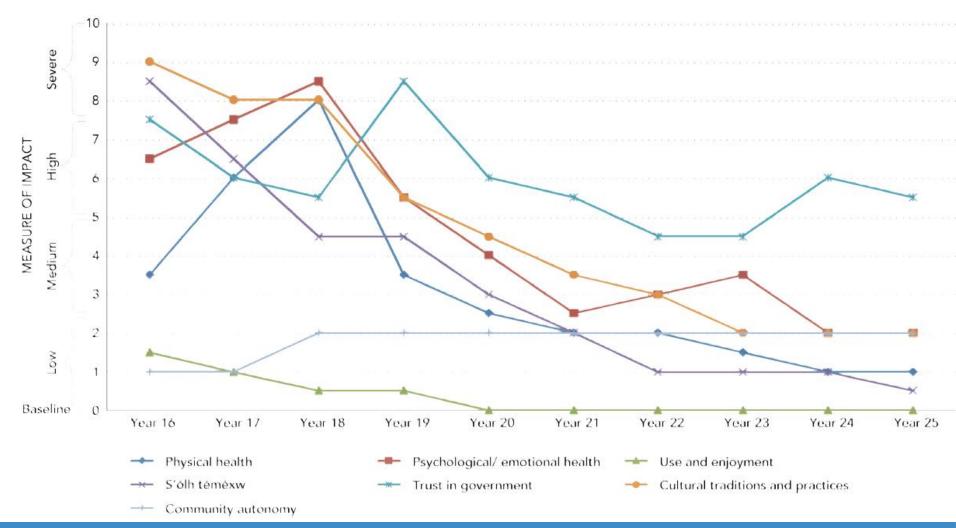






## Magnitude of impacts over time









### Measuring Significance

USE AND ENJOYMENT

**PRIVACY & AESTHETICS** 

Disrupted community

· Restricted access

Nuisance

#### PHYSICAL HEALTH 0 - 2 - 3 - 4 - 6 - 6 - 7 - 8 - 9Much more Neutral important important GOOD ACCESS, PRIVACY & AESTHETICS PHYSICALLY HEALTHY Good access High energy · Stable community Low rates of illness · Pleasing and familiar Low stress

PHYSICALLY UNHEALTHY

Higher rates of illness

Lethargic energy

High stress

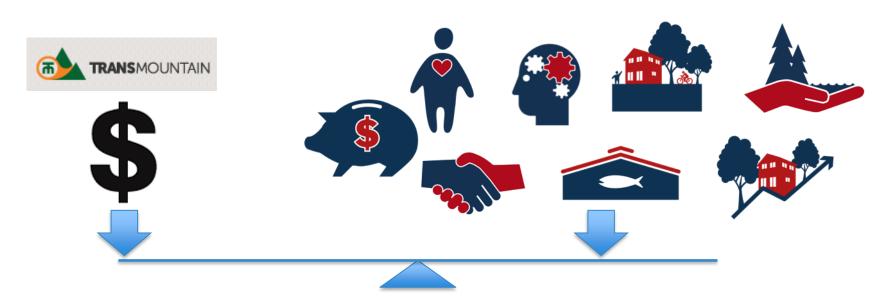


### Monetary Compensation

Monetary Value of All Non-mitigable Losses to Make Matsqui "Whole"

- Market Losses
- Non-Market Losses

#### Values Impacted





## Some ways of addressing impacts of potential spills



BEFORE (preparedness)

#### FOR EXAMPLE:

- Emergency response plan and capacity building
- Increase capacity for processing and storage of fish
- Guaranteed salmon from different watershed



## Some ways of addressing impacts of potential spills



AFTER (compensation)

#### FOR EXAMPLE:

- Agreed process for measuring and compensating losses
- Damage schedule
- Bonding/trust established in case of spill



## CLOSING



#### Summary

- Matsqui culture is unique and very different than the broader Canadian culture
- Potential losses to Matsqui are unique (e.g. S'ólh té méxw)
- Focus on values what is important to Matsqui
- Matsqui as experts (values, magnitude, significance, impacts)



### Thank you

Julian Gonzalez EPI julian@ecoplan.ca

