

TENAS PROJECT Community Open House #4



A Maori Greeting from our CEO

E te iwi o te Wet'suwet'en, tena koutou katoa.

E mihi ana ahau ki o maunga e tu mai nei i mua i a tatou katoa, ki o awa e rere tonu mai i nga maunga ki te moana nui a Kiwa.

E mihi ana hoki ahau ki o rangatira, ki o hapu me o whanau.

No reira, e nga tangata whenua nei, e pai tenei taku mihi ki a koutou katoa.

Huri noa ki a koutou o te kawanatanga BC, ki a koutou o te EAO, tena koutou katoa.

I te mutunga, e nga hau e wha kua huihui mai i tenei ra, nau mai, haere mai. To the Wet'suwet'en people, greetings to you all.

I greet and acknowledge your mountains that stand before us all, and your rivers that flow from the mountains to the great ocean of Kiwa (Pacific Ocean).

I also greet and acknowledge your chiefs, your clans and your houses.

Therefore, to the people of this land, this is my greeting to you all.

Turning now to the BC Government, and to the EAO, greetings to you all.

Lastly, to those from the four winds that have joined us today, welcome.

ALLEGIANCE COAL LIMITED (ASX:AHQ)

Forward Looking Statements

This Presentation contains forward-looking statements which are identified by words such as 'may', 'could', 'believes', 'estimates', 'targets', 'expects', or 'intends' and other similar words that involve risks and uncertainties. These statements are based on an assessment of present economic and operating conditions, and on a number of assumptions regarding future events and actions that, as at the date of this presentation, are considered reasonable. Such forward-looking statements are not guarantees of future performance and involve known and unknown risks, uncertainties, assumptions and other important factors, many of which are beyond the control of Allegiance Coal Limited (Allegiance or the Company), its Directors (Directors) and Management. The Directors cannot and do not give any assurance that the results, performance or achievements expressed or implied by the forward-looking statements contained in this presentation will actually occur and investors are cautioned not to place undue reliance on these forward-looking statements. The Directors have no intention to update or revise forward-looking statements, or to publish prospective financial information in the future, regardless of whether new information, future events or any other factors affect the information contained in this presentation , except where required by law. These forward-looking statements are subject to various risk factors that could cause Allegiance's actual results to differ materially from the results expressed or anticipated in these statements.

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Coal Resources & Reserves

The coal resources referred to in this presentation were first reported in the Company's 18 June 2018 Announcement, supplemented by the Company's 26 June 2018 Announcement (together the **18 June Announcement**). The coal reserves referred to in this presentation were first reported in the Company's release of its Staged Production PFS results on 3 July 2017 (**3 July Announcement**). The Company confirms that it is not aware of any new information or data that materially affects the information included in the 18 June Announcement or the 3 July Announcement and that all material assumptions and technical parameters underpinning the estimates in the 18 June Announcement and that 3 July Announcement continue to apply and have not materially changed.



Tenas Project - Presentation Outline

About Telkwa Coal

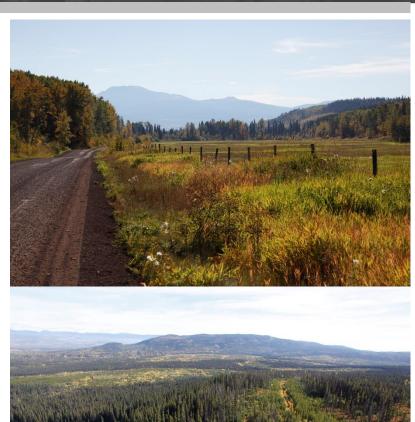
- 1. Commitment to Community
- 2. Project Benefits
- 3. Why Coal?

Tenas Project Overview

- 4. Components
- Mine Plan

Draft Application Information Requirements

- General Valued (VCs) / Intermediate (ICs) Components
- 7. Tenas Project VCs / ICs
- 8. Q & A







Our Commitment to Community









At Telkwa Coal, we are committed to working with the Wet'suwet'en and our local community to responsibly and respectfully develop the Tenas Project.









Community Input

We heard you...

...we've reflected your input into our project

- Bypass Road
- Production Level
- Paused EA process for the Wet'suwet'en





Open Houses (EAO requires 2)

- 1st held in May 2018 and 2nd held in November 2018
- 3rd held in November 2019
- 4th in June 2020 (two sessions)

Additional meetings & interviews with neighbours





Local Economy, Sponsorships and Donations

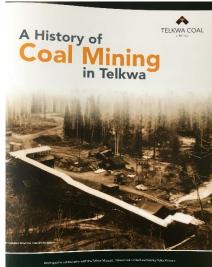
Contributed \$ 4.3 Million+ into the local economy since 2017.

Supporting local organizations:

- Bulkley Valley Bowmen
- Bulkley Valley Food Bank
- Bulkley Valley Hospital Foundation
- Bulkley Valley Kinsmen (Telkwa BBQ)
- Coast Mountain College
- Dze L K'ant Friendship Centre in Houston
- Smithers Curling Club
- Smithers Exploration Group
- Smithers Golf and Country Club
- Smithers Rodeo Club
- The Ark Playday Centre in Telkwa
- Telkwa Elementary School
- Telkwa Museum
- Telkwa Reading Room

Collaborating with the Telkwa Museum









Project Benefits

Government revenue

- ~\$ 250 Million Canadian dollars
 - Revenues for federal, provincial, and local governments
 - To support community services and infrastructure, including social programs, education, and health care

Local and regional economy

- 70 + experts from Telkwa, Smithers, and the Bulkley-Nechako region
- ~150 construction jobs (at peak)
- ~170 operations jobs (at peak)
- ~255 indirect jobs (at peak operations)

Over the 25-year mine life





Why Coal?

Coal and Steel are fundamental to our daily lives

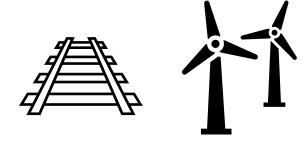
About Steelmaking Coal

- Coal is key in manufacture of steel
 - No commercial substitute for coal in steel production
 - Infrastructure, transportation, health, sanitation, and food manufacturing depend on it
 - Wind turbines require 142 tonnes of steelmaking coal

Steelmaking Coal in Canada and BC:

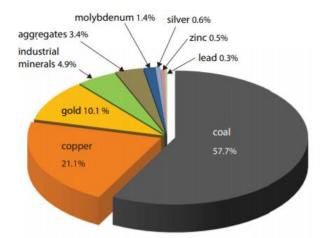
- Canada is world's 4th largest exporter of steelmaking coal
- Canada's steelmaking coal is in high demand
- Coal mining is an important part of BC's economy, generating billions in revenues & supporting thousands of jobs
- ~90% of BC's coal production is steelmaking coal

Coal and Steel are part of a lower carbon future



2019 forecast value of BC's mineral production by commodity

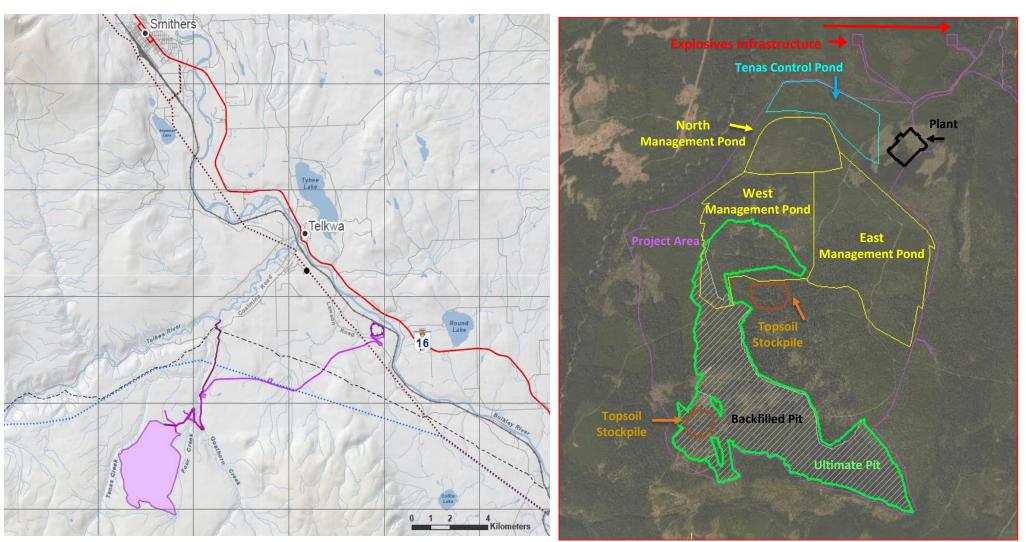
British Columbia Ministry of Energy, Mines and Petroleum Resources, 2020



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Regional Location and Key Components





Tenas Project – Components (mining)









Haulroads and access roads



Tenas Project – Components (Processing, and Maintenance)

Coal Processing Plant

Maintenance and Warehouse Building

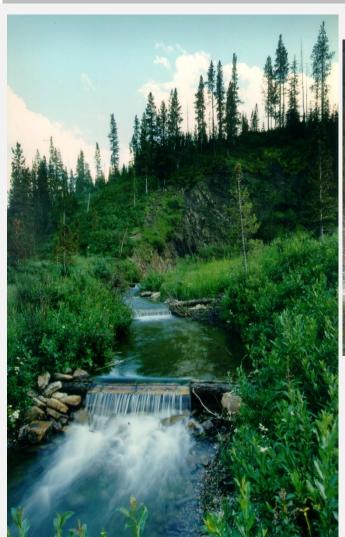








Tenas Project – Components (Water)





Management and Control Ponds

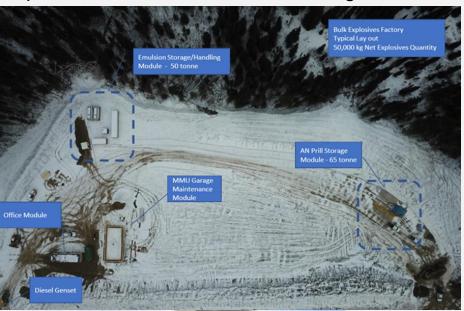


Water Supply Well



Tenas Project – Components (explosives infrastructure, ancillary buildings)

Explosive Infrastructure; site and magazine





Administration, first aid, mine dry, and laboratory buildings



Fuel, propane and lubricant storage facilities





Tenas Project – Components (roads, power, bridge)

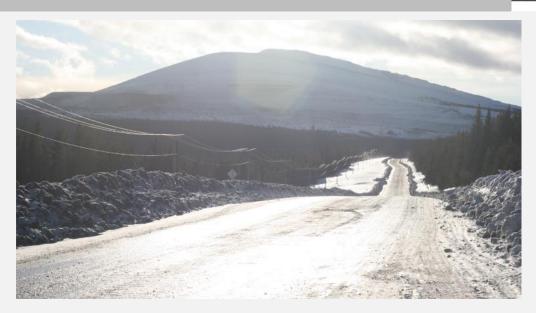
Tenas Access Corridor

11 km Bypass Road + upgrades to ~6.5 km of existing roads

Powerline

3.5 km long 25 kV (25 kV to 600V substation adjacent to the Coal Processing Plant)

Bridges over Goathorn and other creeks







Tenas Project – Components (rail)



Rail

 Infrastructure (~2.5 km rail loop connected to CN line)



Updates to Mine Plan

1. Design of Management Ponds:

- Build retaining structures on existing topo =
 - less disturbance
 - less material movement and
 - less effect on the surrounding environment.

2. Pit shape:

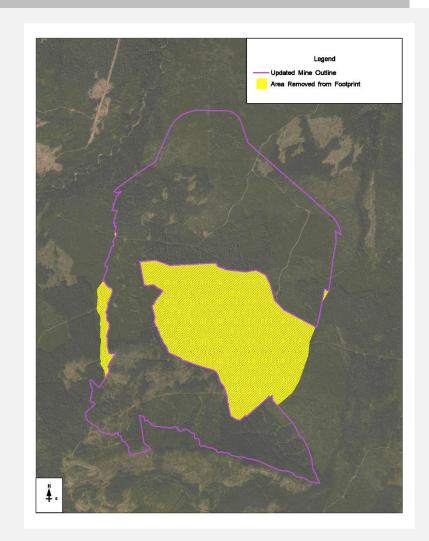
- Decrease disturbance and with same coal volumes.
- Preserves more of Four Creek watershed

3. Processed Rock

Now <u>submerged underwater</u> vs dry cover

Tenas Control Pond moved

 To a lower elevation, reducing need to pump water into pond.





Draft Application Information Requirements (dAIR)

What is a dAIR?

- A checklist outlining the EA content
- EAO Guidance 2013

What are Valued (or Intermediate) Components?

 Important <u>elements</u> of the natural and human environment (e.g. wildlife)

What are Subcomponents?

 Describe individual species, species groups or elements with similar aspects in the assessment of the valued component (e.g. caribou, moose, grizzly bear)















Valued or Intermediate Components and Indicators

What is an Intermediate Component (IC)?

- Elements that are part of a pathway to a Valued Component (VC)
 - Information about the IC is needed to support the assessment of a VC.
 - Example Intermediate Components to Receptor Components:





Atmospherics (IC)

air quality (subcomponent)

Water (IC)

water quality (subcomponent)

<u>VCs</u>

Birds

Indicator = change in habitat

Wildlife

Indicator = change in habitat

Human Health

 Indicator = change in human health from biophysical determinants of health

Fish and Fish Habitat

Indicator = change in fish health

Vegetation

Indicator = change in extent



Measurable variables





Valued Components (VCs)

Table 3: Valued Components and Subcomponents for the Tenas Project from the dAIR

Pillar	Valued Component	Subcomponents
Environment	Fish and fish habitat	Fish habitat
		Fish
	Vegetation	Old growth forest
		Wetlands
		Listed ecological communities
		Culturally important species
		Rare plants and lichens
	Wildlife	Furbearers: American marten, Wolverine
		Caribou
		Grizzly bear
		Moose
		Bats (Little Brown myotis, Northern myotis)
		Western toad
	Avian species	Migratory breeding birds
		Listed bird species
		Raptors
Economic	Labour market	NA
	Economic development	Local Business and Industry
Social	Infrastructure and services	Housing and accommodation
Social		Community infrastructure and services
		Transportation
	Land and resource use	Commercial land use
		Public tecreation use
		Current use of land and resources
		for traditional purposes
	Community well-being	NA
Heritage	Heritage resources	Archaeological resources
		Historic and cultural sites
Health	Human health	NA



Intermediate Components (ICs)

Pillar	Intermediate Component	Subcomponents
Environment	Atmospheric Environment	Air quality
		Greenhouse gas (GHG)
		emissions
		Noise
	Terrain and Soils	Soil quality
		Terrain stability
	Surface Water	Surface water quantity
		Surface water quality
	Groundwater	Groundwater quantity
		Groundwater quality
	Aquatic Resources	NA
Social	Demographics	NA
	Visual Resources	Visual Quality
		Ambient Light

Table 4: Intermediate Components and Subcomponents for the Tenas Project from the dAIR



BC EAA 5 Pillars – Highlights of the dAIR

Valued component = VC

Intermediate component = IC

1. Environment







Biophysical

- 2. Economic
- 3. Social
- 4. Health
- 5. Heritage





Biophysical VCs and ICs

Valued component = VC

Biophysical

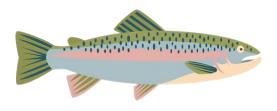
Intermediate component = IC

Water

- Surface Water (IC)
- Groundwater (IC)
- Aquatic Resources (IC)



Fish and Fish Habitat (VC)



Air

 Atmospheric Environment (IC)



Land

- Wildlife (VC)
- Vegetation (VC)
- Avian Species (VC)



Terrain and Soils (IC)





Surface Water and Groundwater (ICs)

ICs	Subcomponents	Indicators
Surface Water	Groundwater quantity	 Change in: Discharge rates to surface water (streams and creeks) Groundwater levels (e.g. wells)
and	Surface Water quantity	Change in surface water flow rates (m ³ /s)
Groundwater	Surface Water and Groundwater quality	Change in example parameters • E.g. total and/or dissolved elements, nutrients





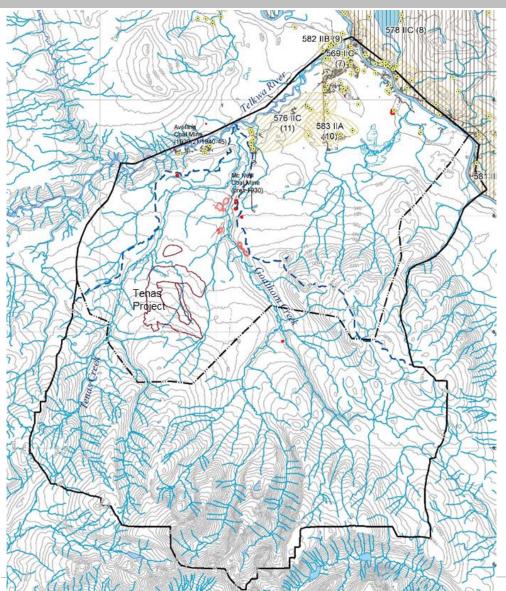


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Groundwater – Study Areas



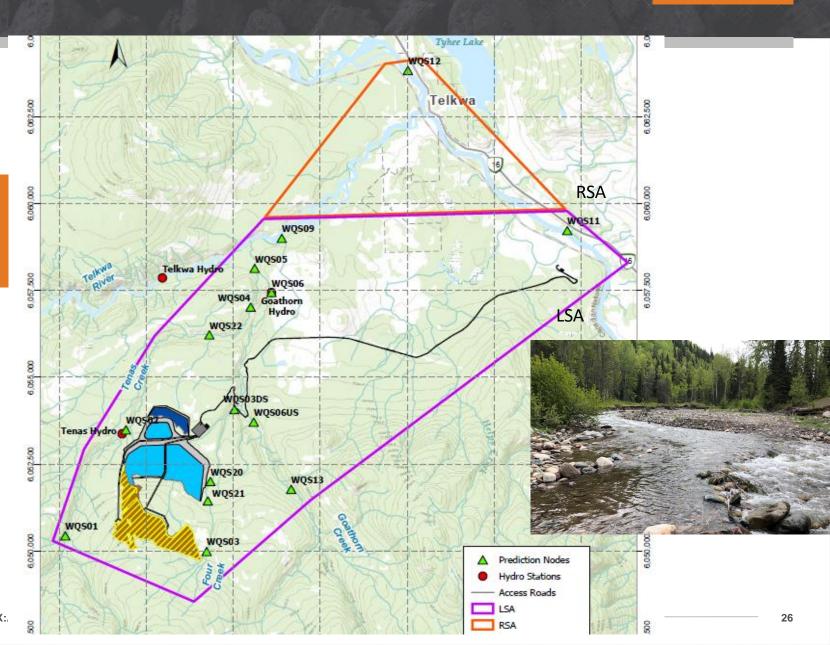


Protecting water sources and managing our water use.

Surface Water – Study Areas

Water

Protecting water sources and managing our water use.





Aquatic Resources (IC) / Fish (VC)

	Subcomponent	Indicators
Aquatic Resources (IC)	Aquatic resources (benthic invertebrates, periphyton, sediment quality)	 Change in: Composition, abundance, diversity of periphyton and benthic invertebrates Concentrations of contaminants of potential concern in sediments relative to toxicological benchmarks
	Fish habitat	Change in areal extent
Fish and Fish Habitat (VC)	Fish	Change in: Fish healthAbundanceCondition

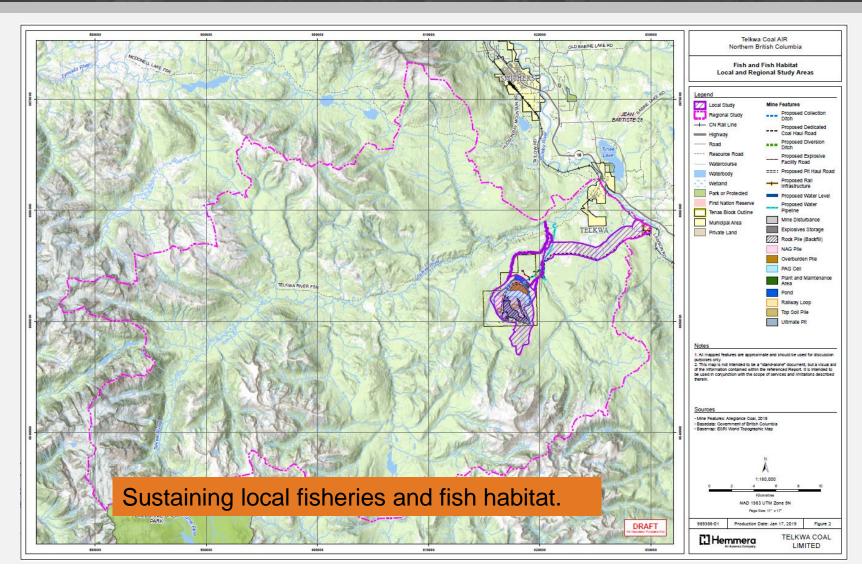




Measurable variables



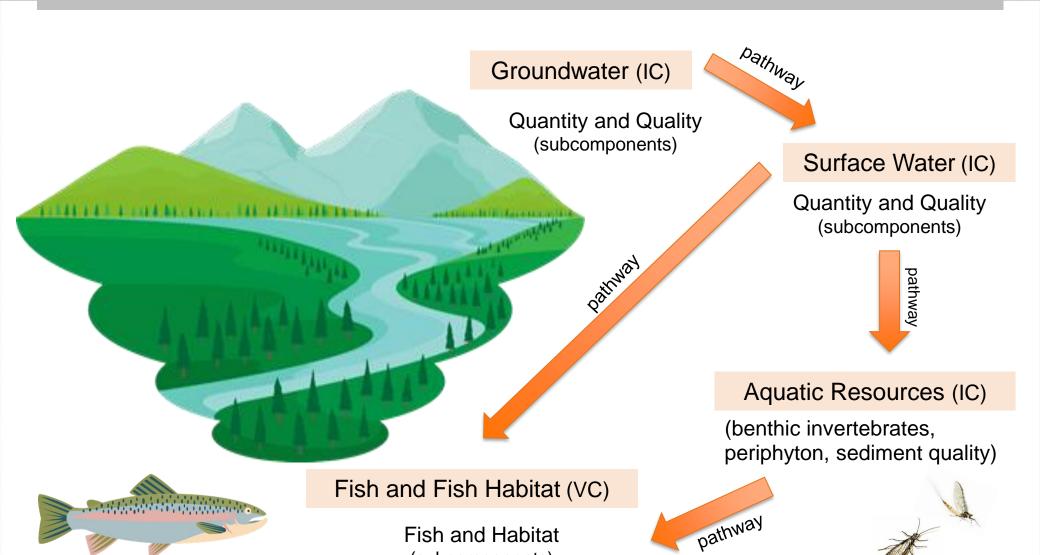
Aquatic Resources (IC)/Fish and Fish Habitat (VC) - Study Area



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Summary – Water



(subcomponents)



Atmospheric (IC)

	Sub components	Indicators
	Air quality	Change in air quality parameters: SO ₂ , NO ₂ , PM ₁₀ , PM _{2.5} , TSP
Atmospheric Environment	GHG	Change in GHG emissions: CO ₂ , CH ₄ , N ₂ O
	Noise	Change in noise levels: Noise levels (day and night), low frequency

Measurable variables







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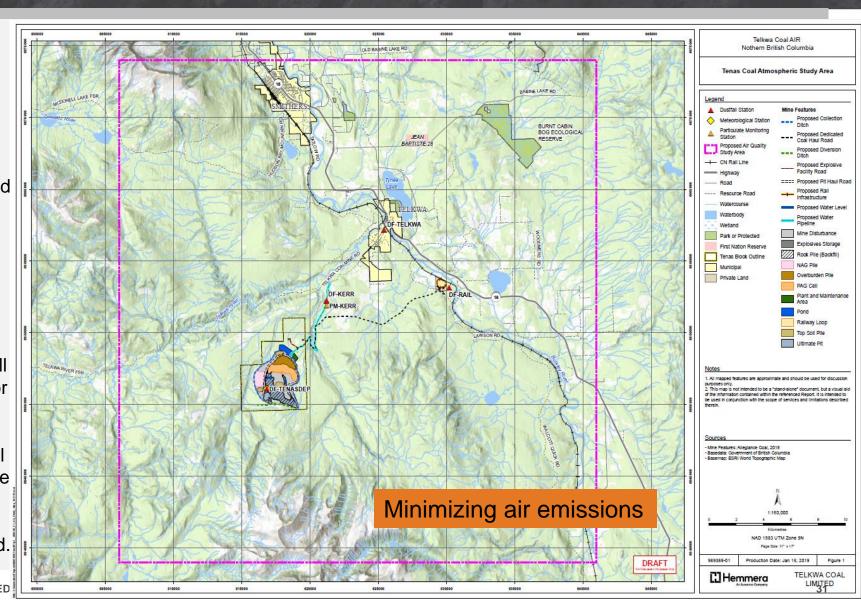


Air Quality – Study Areas

Air

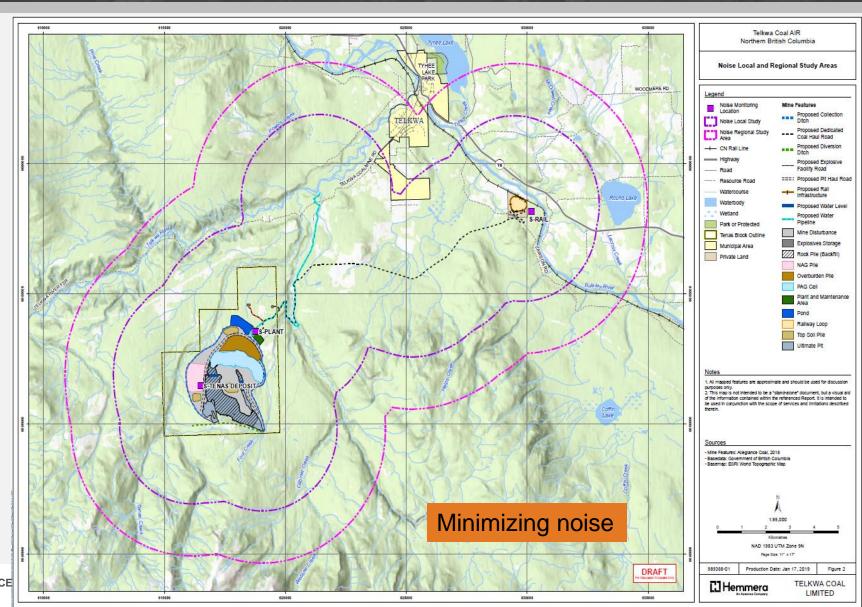
Mitigations Measures will be implemented and include:

- Water trucks and topper agents used on traffic areas and stockpiles.
- Heights of stockpiles to be limited.
- Drop heights will be minimized for loading.
- Overburden piles and topsoil stockpiles will be revegetated.
- Vehicle speed will be managed.





Noise – Study Areas





Terrain & Soils (IC) / Vegetation (VC)

Land

	Subcomponents	Indicators
Terrain and Soils (IC)	Soil quality	Change in physical and chemical properties of soil in context of land use capability
	Terrain stability	Change in:Terrain stabilityTerrain morphology
Vegetation (VC)	Old growth forest	Change in: Extent Structural stage
	Wetlands (biodiversity, water quantity and quality, and habitat function)	Change in: Extent of wetland communities
	Listed ecological communities	Change in extent, abundance or
	Culturally important species	availability
	Rare plants and lichens	Change in extent for known occurrences

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Wildlife (VC) / Birds (VC)

Land

	Subcomponents	Indicators
Wildlife (VC)	Caribou Moose Grizzly Bear Furbearers (Marten and Wolverine) Bats	Change in: Habitat Sensory Disturbance Mortality Movement (as an Indicator for Grizzly Bear, Caribou, Wolverine, and Western Toad)
Avian Species (VC)	Western Toad Migratory breeding birds Listed bird species Raptors	Change in: Habitat Sensory disturbance (e.g. light, noise) Mortality

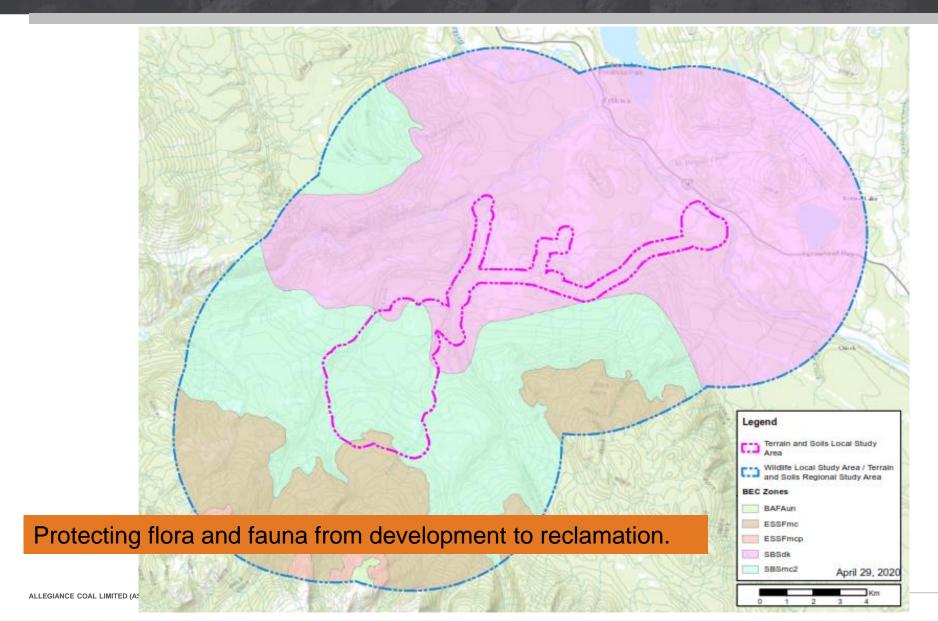




Measurable variables

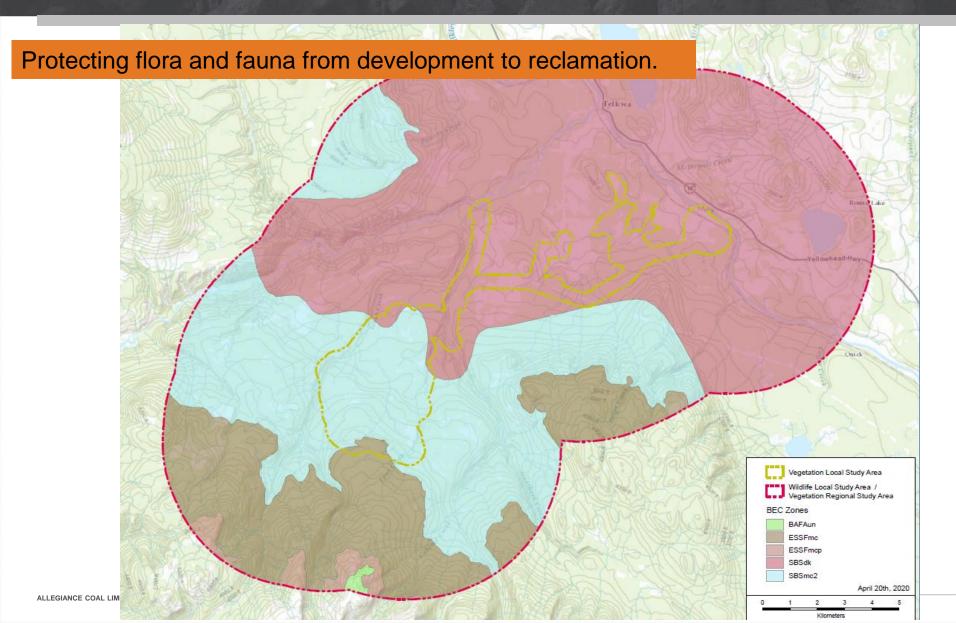


Terrain and Soils - Study Areas



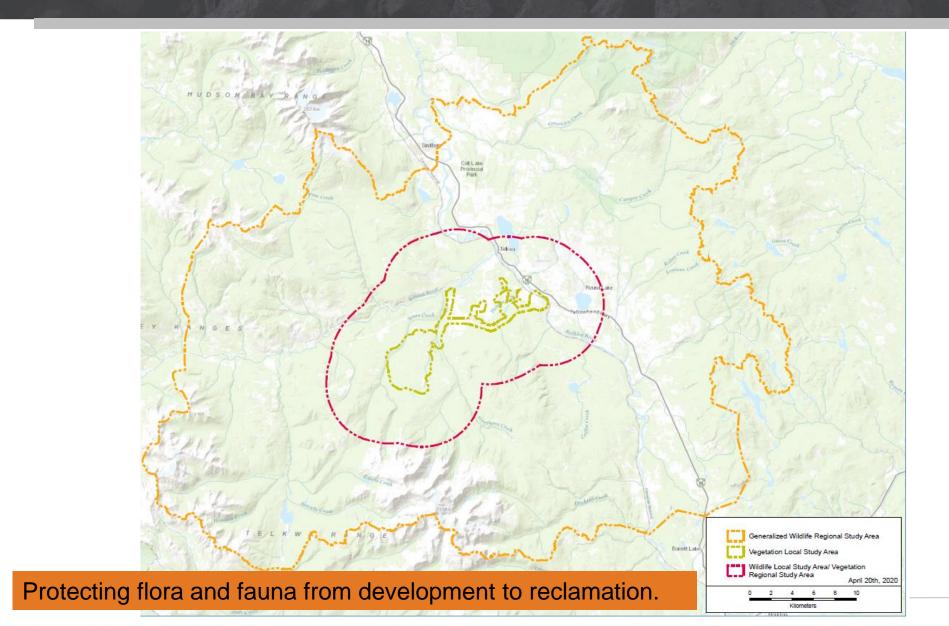


Vegetation - Study Areas



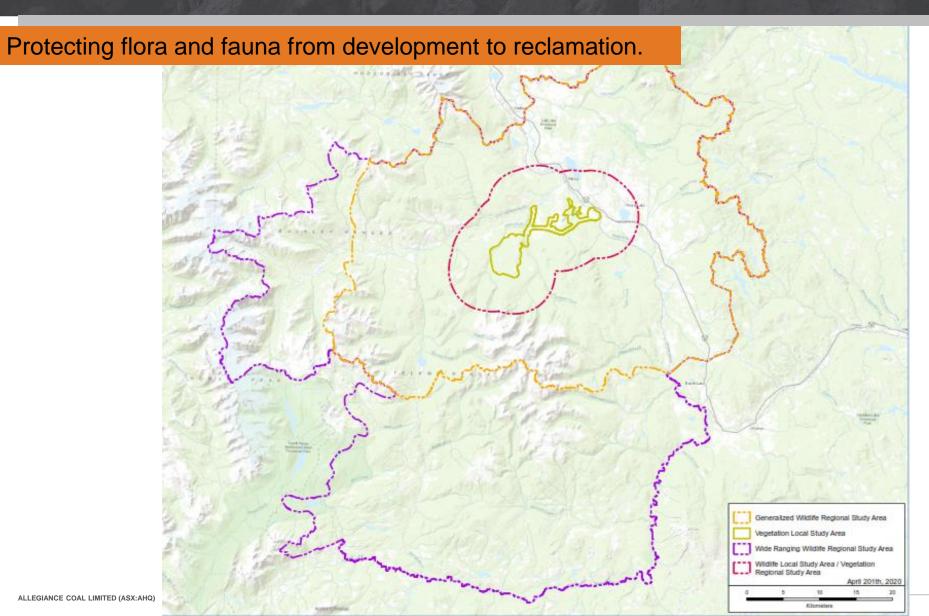


General Wildlife, Bird - Study Areas



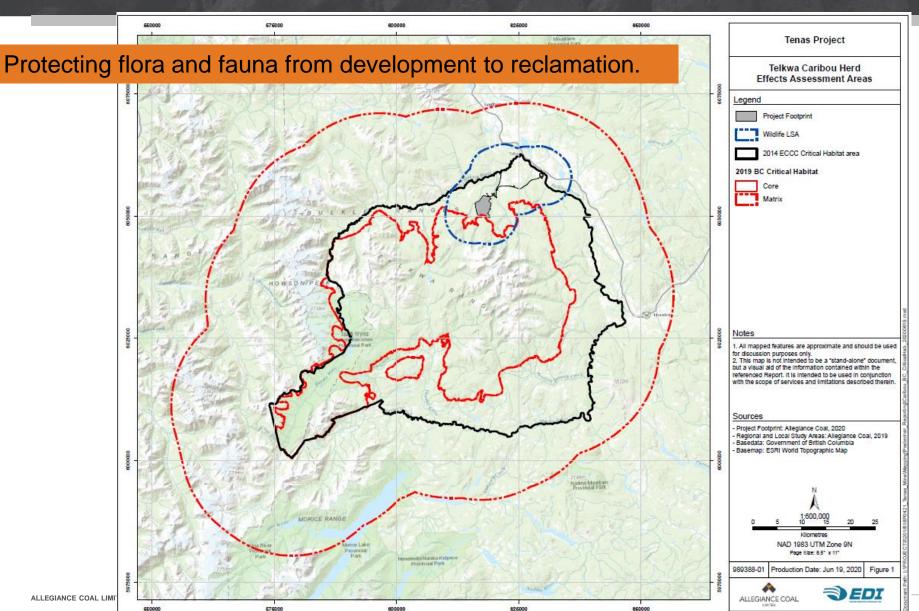


Wide Ranging Wildlife - Study Areas





Caribou – Study Areas





Summary - Land

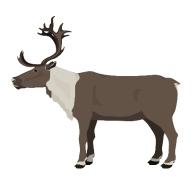
Wildlife (VC)

- Furbearers (marten, wolverine)
- Caribou
- Grizzly Bear
- Moose
- Bats
- Western toad (subcomponents)



Terrain and Soils (IC)

 Soil Quality and Terrain Stability (subcomponents)



Avian Species (VC)

- Migratory breeding birds
- Listed bird species
- Raptors
 (subcomponents)





Vegetation (VC)

- Old growth forest
- Wetlands
- Listed ecological communities
- Culturally important species
- Rare plants and lichens (subcomponents)





People-related VCs and ICs

Valued component = VC

Intermediate component = IC

Economic



Labour Market (VC)



Economic Development (VC)

Social

- Community Well-being (VC)
- Infrastructure & Services (VC)
- Land & Resource Use (VC)
- Visual Resources (IC)
- Demographics (IC)



Health



Human Health (VC)

Heritage



Heritage Resources (VC)



Economic Development and Labour Market VCs

	Subcomponents	Indicators
Economic Development (VC)	Local business and industry	 Change in: Distribution in employment across industries (economic diversity) Capacity/supply constraints in services and goods supply and contracting (quantitative and qualitative) Compatibility/consistency of Project with existing economic development plans or strategies of government (qualitative) Forestry: change in marketable timber volume Tourism: change in services and revenue Economy during decommissioning/reclamation, post-closure and potential downturns
Labour Market (VC)	N/A	 Change in: Number of workers by occupation, industry affiliation, and region of residence Participation and unemployment rate Difference between unemployment rate and prevailing regional rate of unemployment Barriers to Indigenous participation in Project-related economic benefits Income levels and labour income



Infrastructure & Services / Community Well-being (VCs)

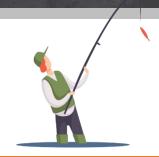
	Subcomponents	Indicators
Infrastructure and services (VC)	Housing and accommodation	 Change in Demand for housing and accommodation Active residential listings Housing costs, Property taxes, Vacancy rates
	Community infrastructure and services	 Change in Supply and demand for all community services (education, child care, health care, and recreation) and community infrastructure Supply and demand for emergency services (policing, fire, and search and rescue)
	Transportation	Change in level of service (change in road, rail, air traffic patterns and infrastructure)
Community Well-Being (VC)	N/A	Change in social and economic determinants of health (as defined by Health Canada) including: Food security Cost of living Community cohesion Mental Health



Land and Resource Use (VC)







	Subcomponents	Indicators
Land and Resource Use (VC)	Commercial Land Use	 Compatibility with existing land use plans. Change in Access to land use areas Sensory disturbance to existing land and resource uses Quantity and quality of resources supporting existing land and resource uses
	Public Recreation Use	 Access to land use areas Sensory disturbance Quantity and quality of resources supporting recreational activities Interference with recreational infrastructure
	Current use of land and resources for traditional purposes	 Access to lands and resources Sensory disturbance Quantity and quality of resources Maintenance of preferred methods and timing of land and resource use



Demographics (IC) / Visual Resources (IC)





Social

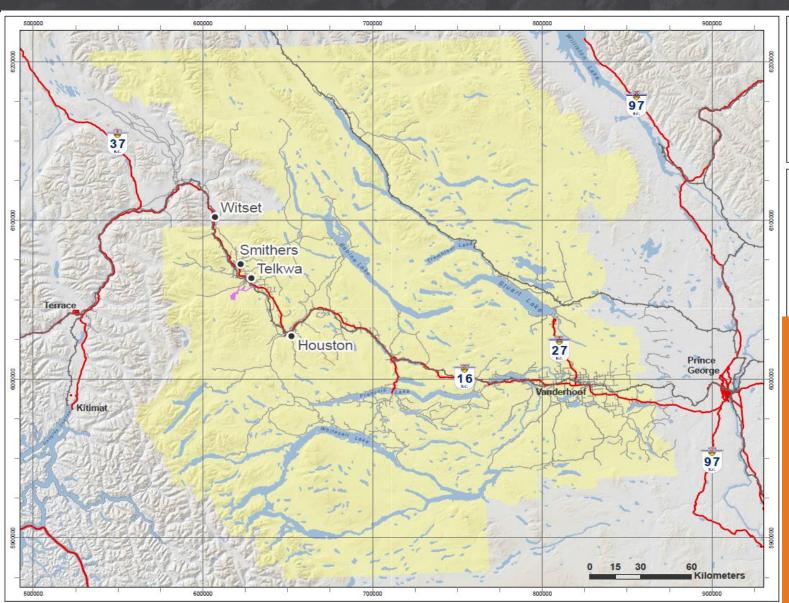
	Subcomponents	Indicators
Visual Resources (IC)	Visual Quality	Change in: Visual disturbance from selected receptor sites
	Ambient Light	Change in: Light trespassGlareSky glow
Demographics (IC)	N/A	Change in Population Demographic factors

Measurable variables



Socio-Economic - Study Areas

Social





- Project Area
 - Socio-Economic RSA (Regional District of Bulkley-Nechako)
- Socio-Economic LSA
- Highway
- Roads
- → Rail

Interviews with:

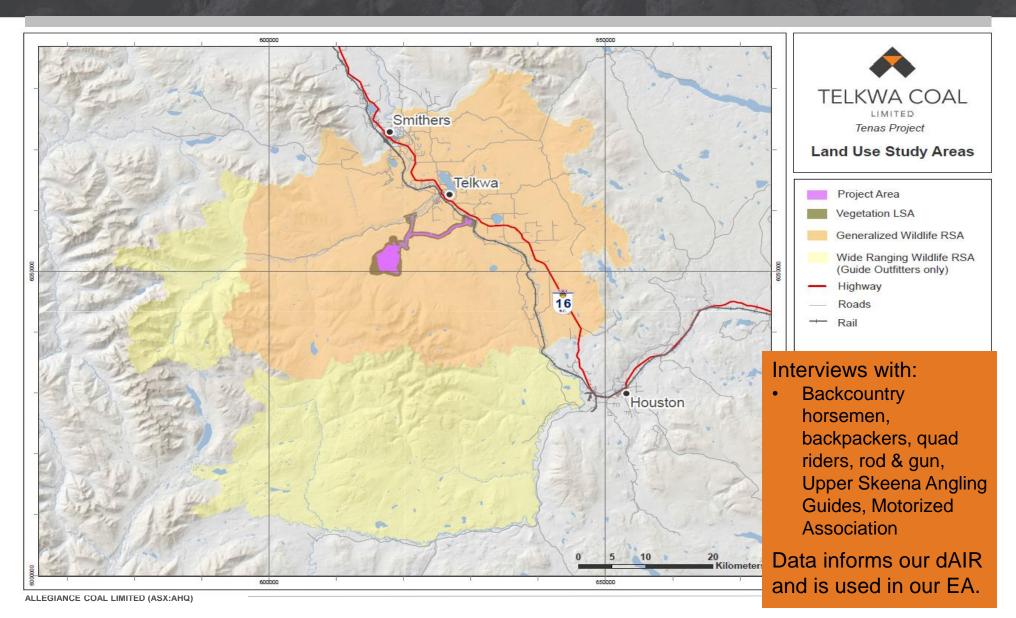
- Telkwa, Smithers, Houston, RDBN, Northern Health
- Chambers of Commerce, colleges and schools
- RCMP, Community Services Association Friendship Centre

Data informs our dAIR and is used in our EA.





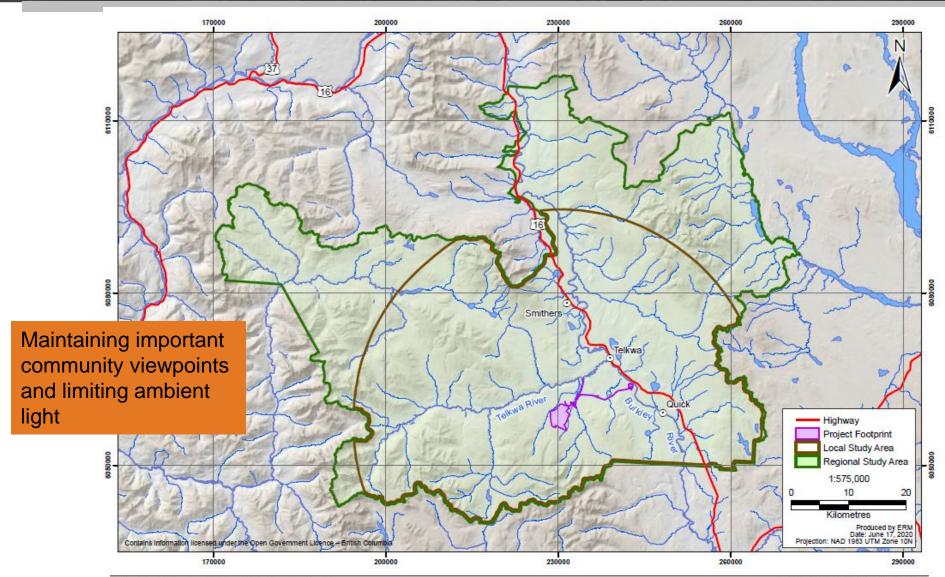
Land Use – Study Areas







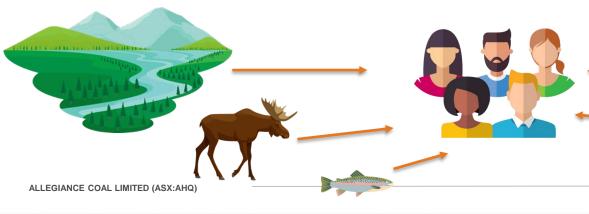
Visual – Study Area





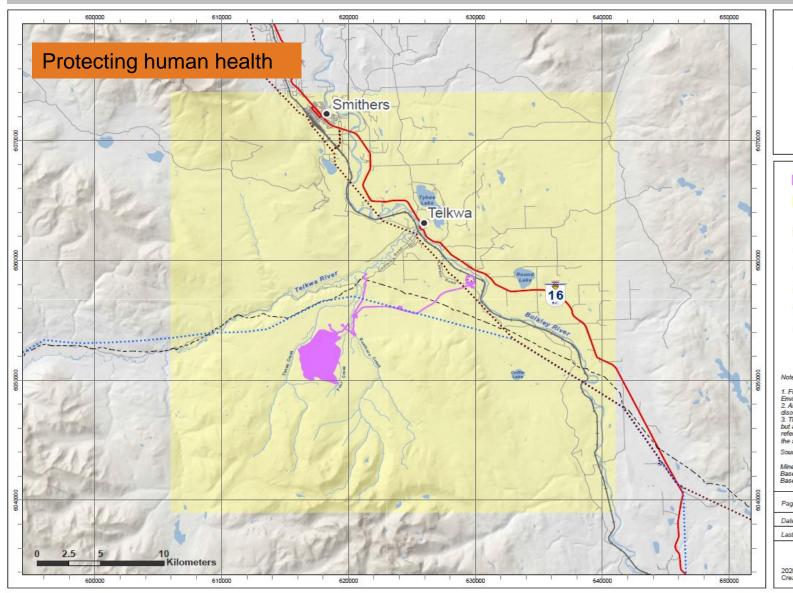
Human Health (VC) / Heritage Resources (VC)

	Subcomponents	Indicators
Human Health (VC)	N/A	Change in human health from biophysical determinants of health
Heritage Resources	Archaeological Resources	 Change in: Presence Number Type Significance of resources (scientific, historic, economic)
(VC)	Historic and Cultural Sites	Change in: Presence Number Type Significance of resources (ethnic)





Human Health – Study Areas





Human Health Study Areas

Project Area Human Health RSA and LSA1

Highway Roads

500 kV Transmission Line

138 kV Transmission Line

--- PNG Pipeline

- 1. Final size to be finalized in discussions with BC Ministry of Environment and Climate Change Strategy 2. All mapped features are approximate and should be used for
- discussion purposes only.

 3. This map is not intended to be a "stand-alone" document, but a visual aid of the information contained within the referenced Report. It is intended to be used in conjunction with the scope of services and limitations described therein.

Mine Features: Telkwa Coal, 2020 Basedata: Government of British Columbia Basemap: SRTM 90m Digital Elevation Database

Page Size: 11" x 17" NAD 1983 UTM Zone 9N

Date Created: April 27, 2020

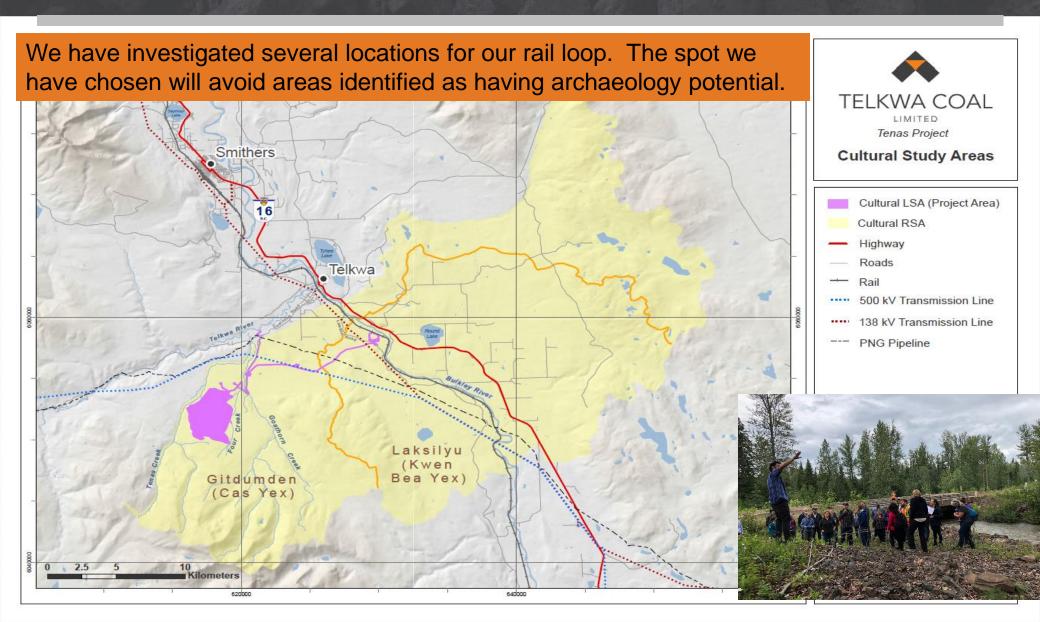
Last Updated: June 07, 2020

20200427_HumanHealth_06 Created by: NB



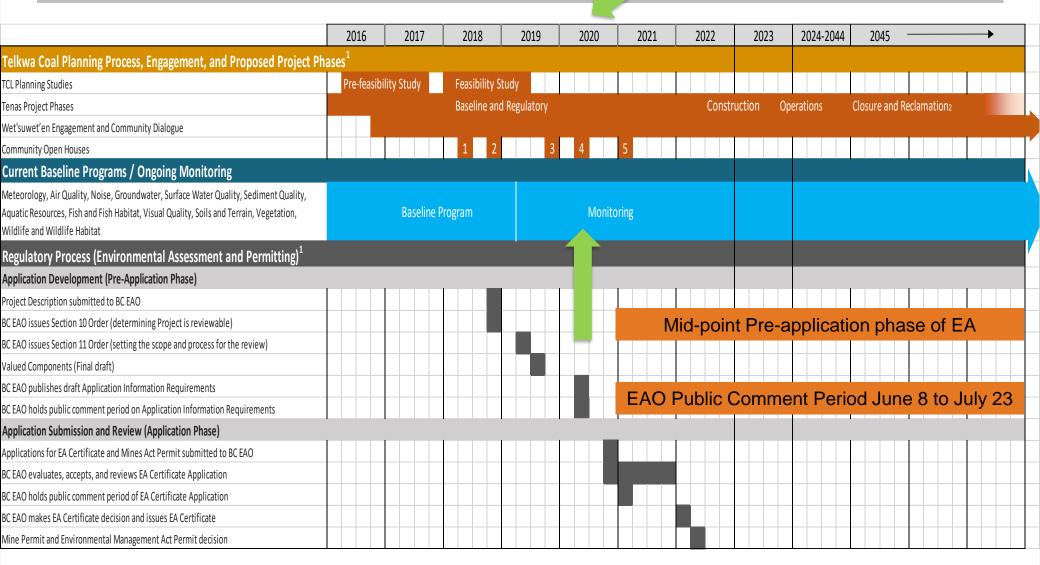


Heritage Resources – Study Areas





We are here





For more information:

VC / IC / subcomponent postcards, brochures and infographics

Available at Telkwa Coal Office

1415 Suite D Hankin Ave Telkwa BC, V0J 2X0

Or at www.TelkwaCoal.com

These are the components we have been studying and will assess for our EA application. COMPONENT SUBCOMPONENTS Fish and Fish Habitat Aquatic Resources Wildlife Marten, Wolverine, Caribou, Grizzly Bear, Moose, Bats, Western Toad Migratory Breeding Birds Avian Species Listed Bird Species Raptors Atmospheric Air Quality Environment Greenhouse Gas (GHG) Emissions ō Noise Vegetation Old Growth Forest and Wetlands Listed Ecological Communities Culturally Important Species Rare Plants and Lichens Terrain and Soils Soil Quality Terrain Stability Surface Water Surface Water Quantity and Quality Groundwater Groundwater Quantity and Quality Labour Market Economic Development Local Business and Industry Infrastructure Housing and Accommodation and Services Community Infrastructure and Services Transportation Land and Commercial Land Use Public Recreation Use Resource Use Current Use of Land and Resources ธ for Traditional Purposes Community Well-being

Archaeological Resources Historic and Cultural Sites







Human Health

Demographics Visual Resources

Heritage Resources



Questions

Thank you.

Tenas Project Draft Application Information Requirements document available on EAO website



