

<b>Minutes of Meeting</b>		
<b>Location:</b> Causeway Bay Sparwood Red Cedar Room	<b>Date:</b> Dec 5, 2018	<b>Time:</b> 9:00 a.m. – 12:30 p.m.
<b>Purpose:</b> Second 2018 Biannual Meeting	<b>Version:</b> Final	
<b>Attendees:</b> See attached	<b>Issue date:</b> February , 2019	

The meeting began shortly after 9:00 am

### **Introductory Remarks**

Chair, Anita Palmer, welcomed the attendees and identified the location of exits, muster point and restrooms.

Vickie Thomas provided a welcome to the Traditional Territory of the Ktunaxa.

Scott Robinson provided a safety share, reminding anyone who decorates real trees for Christmas to keep them well watered. Otherwise, if they catch fire, they will burn more quickly than a piece of paper.

Anita followed with introductions of the Steering Committee members and invited the other guests to introduce themselves. She noted that Helga Katrichak was in attendance to understand the meetings and to see if she will take on the administrative pieces of the Initiative, such as the taking and completion of meeting minutes.

### **Communities of Interest Advisory Initiative (COIAI) Update – Anita Palmer, Chair**

The Steering Committee continues to have productive quarterly meetings. Items of discussion include childcare, youth and local employment, healthcare, education, housing, community safety, the environment and the Ktunaxa Nation.

### **Teck in Review** (see attached) – Danielle Wiess, Lead Social Responsibility

Some of the topics covered in the Teck update were Teck’s consistent long-term strategy, the focus on innovation including water strategy innovations and facts about steel-making coal.

### **Teck Feedback Report/Other – Sharon Strom**

Since the last Partners’ meeting held July 12, 2019 Teck received 104 separate feedback items of concern:

July 26 rain event	11
Sept 30 snow event	12
General dust	23
Dirty vehicles in community	16
Grave Lake dust	9
Highway haul EVO/CMO	33

Cal McDougall suggested that residents must have an increased comfort level with submitting their concerns to Teck.

**Teck Coal Mountain Operations Closure Update** (see attached) – Kevin Podrasky, Manager Closure

Kevin provided an update on Coal Mountain Operation's closure and reclamation schedule. He noted that mining in 6 pit ceased in September 2018 due to geotechnical instability in the West high wall.

DB – Q – Is a possible failure of the high wall a threat to people?

KP – A – If the wall fails, the material will land in the pit.

Shar C – Q – Is the intent to decommission the plant?

KP – A – The plant will go into care and maintenance mode for a number of years. Upon closure of the operations, office building and other structures will be removed.

DB – Q – Is Coal Mountain Operations Phase 2 no longer a consideration?

KP – A – There is still something there but no advancement is considered at this point.

**Community-based Water Monitoring Program** (see attached) – Ayla Bennett, Program Manager, Elk River Alliance

Ayla shared the goals of the Community-based Water Monitoring program and provided background on the Lizard Creek and Alexander Creek projects. Next steps include some revisions to the monitoring strategy based on feedback received, contributing to the Water Data Hub and publishing a summary report of the 2012-2018 data collected. For more information on Elk River Alliance go to:

<https://www.elkriveralliance.ca>

**East Kootenay Columbia Community Investment Cooperative** (see attached) – Sean Campbell, General Manager, Community Futures East Kootenay

On behalf of the East Kootenay Columbia Community Investment Cooperative (EKCCIC), Sean Campbell with Community Futures shared information on the newly launched program. Topics included investing locally and mobilizing local capital, how the program works, governance and eligibility for investors and borrowers. More information can be found at: [www.EastKootenayColumbia.com](http://www.EastKootenayColumbia.com)

Shar C – C – There is a successful cooperative in the Crowsnest Pass but it is RRSP and TFSA eligible.

Sean C – C There are different regulations between provinces and the working group that assisted with set up determined some of the structure of the EKCCIC.

**Mainroad Shift into Winter Campaign** (see attached) – Joe O'Connor, MainRoad

Joe O'Connor presented on Mainroad East Kootenay winter operations speaking about the company's responsibility and the new service area boundary. The pros and cons of different types of anti-slip products were reviewed, along with some positive changes and some challenges Mainroad faces. Answers to frequently asked questions were provided. The key points about the Shift Into Winter Campaign were discussed including some safe driving tips. For more information on the campaign, visit: <https://shiftintowinter.ca>

DB – Q – With the wider blades/wings on the plows it seems more of them are ending up in the ditch.

JO – A - Of the three that ended up in the ditch last winter, one was related to driver inexperience and two were forced off the road. One by a car hauler and one by a loaded cattle hauler.

DB – C – Mainroad has been doing a great job recently. Anita agreed. Joe said the feedback meant a lot.

## Roundtable

Bev M – A few upcoming Sparwood Chamber events include the Light up a Child's Life Campaign, collecting for the food bank and Toys for Tots, judging and seniors' tour of decorated homes and an Ugly Sweater Contest.

Lori L – Nothing additional to add.

Mandy M – Excited to be a part of the Closure Task Group and the COIAI and sees them as positive initiatives. She is looking forward to more meetings.

Shelley W – Found the meeting to be another positive one. She thanked Teck for having an arborist come to the Michel Creek and GN Road properties to assess for danger trees. There have been some dust issues and some concerns with speed on the road.

Leala T – Looking forward to her time on the Committee.

Janice T – A good meeting with great presentations. She is looking forward to the next one.

Bev B – Has been coming to these for a while and is thankful to be included. It was good to hear positive feedback for Mainroad who have a very tough job to do.

Shar C – Thanked the presenters. This helps to understand some issues on the other side of the BC/AB boarder. Merry Christmas to all.

Glen H – Thanked everyone on behalf of the residents of Corbin. Teck is very open and responsive and it is good there are portals to express concerns and have them acted on.

Scott R – Thanked everyone and especially Mainroad for their focus on safety. We have to remember that safety is everyone's responsibility.

Randal M – Thankful for the invitation and thanks to the presenters. This was his first meeting.

Joe J – Thanked the attendees, presenters and Teck.

Cal M – It was a good meeting.

Dave B – Enjoyed the diversity of topics.

Michelle S – The meeting held a lot of value. Thank you to Teck for hosting.

Joe O – It was a good meeting with good speakers. Thank you from Mainroad for the opportunity to share.

Terry A – The meeting was great. Agreed with previous compliments to Mainroad and commended them for being out there trying to manage Canadian winter roads.

Scott B – Teck and the District of Elkford have come to an agreement to put a temporary worker accommodation in Elkford. A social impact study is being done and an Open House for the public with taking place December 12. The new Elkford District office is under construction. It will consume 30% less energy than the current one.

Gord G – The Elkford ATV Club participated in the Grizzly Bear Study again. 425 hair samples were collected from 35 rub stations. 250 hours were volunteered and 3200 km were covered. Thanks to Teck for providing funding to feed the volunteers. Thank you to all of today's presenters.

Ayla B – Thanks to Anita and Sharon for arranging this and for the invitation to speak. It was a very diverse group with lots of constructive discussion.

Ange Q – Thanks for the invitation to participate. It was very beneficial.

Sean C – Thanks to Sharon and Anita for the opportunity to talk about the Investment Coop. Thanks to the other presenters for sharing.

Kerri W – Loved the meeting. It is great to be on the COIAI Steering Committee. Kerri was pleased that the KNC and the Provincial and Federal governments recently signed the 'Ktunaxa Nation Rights Recognition & Core Treaty Memorandum of Understanding'. For more information visit: [https://www2.gov.bc.ca/assets/gov/environment/natural-resource-stewardship/consulting-with-first-nations/agreements/ktunaxa\\_rights\\_recognition\\_core\\_treaty\\_mou\\_-\\_dec\\_2018.pdf](https://www2.gov.bc.ca/assets/gov/environment/natural-resource-stewardship/consulting-with-first-nations/agreements/ktunaxa_rights_recognition_core_treaty_mou_-_dec_2018.pdf)

Noah S – Thanked the presenters.

Vickie T – Is happy to be here because she is learning lots from everyone.

Kim B – Feels the advocacy for childcare is working. The Province is listening. Funding is becoming available to decrease the cost of childcare spaces and for topping up wages. The Elkford Housing Society is very close to having a piece of property secured for a senior housing project. The development of a scope of work will start soon.

Sharon S – Really enjoyed the presentations and discussions. She thanked everyone for their participation.

Anita P – Loved the broad spectrum of topics presented. Thank you to the presenters and participants. Acknowledgement and thank you to Sharon for being the 'glue' to hold the Initiative together.

### **Closing Remarks**

Everyone was invited to have lunch and enjoy each other's company.

Meeting ended around 12:10

Next Steering Committee meeting will be

March 2019

Next Meeting of the Partners will be

July 2019

## December 5, 2018 Advisory Partners Meeting Attendance

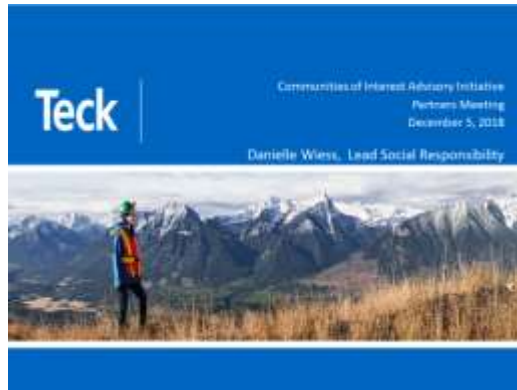
Name	Representing	Email
Anonson, Terry	Aboriginals/Metis/Elkford	
Bauer, Kim	Social Services/Elkford	
Beeching, Scott	District of Elkford	
Bellina, Bev	School District #5	
Bennett, Ayla	Elk River Alliance/Fernie	
Beranek, David	Southern Guides	
Campbell, Sean	Community Futures - EK	
Cartwright, Shar	Community Futures - CNP	
Galloway, Gordon	Motorized Rec/Elkford	
Hutton, Glen	Closure Task Group	
Jarina, Joe	District of Sparwood	
Katrichak, Helga	Resident of Sparwood	
Lemke, Lori	Elkford Chamber	
Macnair, Randal	Wildsight	
MacNaughton, Bev	Sparwood Chamber	
McDougall, Cal	Resident of Sparwood	
McGregor, Mandy	District of Elkford	
O'Connor, Joe	MainRoad	
Palmer, Anita	Education/RDEKA	
Podrasky, Kevin	Teck Closure Task Group	
Qualizza, Mayor Ange	City of Fernie	
Robinson, Scott	Community Safety/Fernie	
Schalekamp, Michele	District of Sparwood	
Schuh, Noah	Youth/CNP	
Strom, Sharon	Teck Social Responsibility	
Talarico, Janice	Interior Health	
Thomas, Vickie	Ktunaxa/Aqam	
Tomlinson, Leala	Interior Health/Sparwood	
Wall, Kerri	Interior Health/Fernie	
Ward, Dean	Municipality of the CNP	
Wedderburn, Shelley	MCR Residents/Sparwood	
Wiess, Danielle	Teck Social Responsibility	

Unable to attend:

Name	Representing	Email
Christensen, Jason	Municipal Gov't/Sparwood	
Drain, Joanne	Seniors/CNP	
Howse, Simon	Business/Housing/Fernie	
Milligan, Nic	Teck Social Responsibility	

**Teck  
Presentation**

Slides 1 & 2



**Caution Regarding Forward-Looking Statements**

This slide contains forward-looking statements and projections which are necessarily subject to risks. The following is a summary of the risks that Teck is aware of that could affect its financial performance. These risks are not intended to be a complete list of all risks that could affect Teck's financial performance. The risks described below are not intended to be a complete list of all risks that could affect Teck's financial performance. The risks described below are not intended to be a complete list of all risks that could affect Teck's financial performance.

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Slides 3 & 4

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Teck

**Consistent Long-Term Strategy**

- Diversification
- Long life assets
- Low cost
- Appropriate scale
- Low risk jurisdictions



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Slides 5 & 6

**Attractive Portfolio of Long-Life Assets  
Low risk jurisdictions**



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**Sustainability Strategy**

- Strong sustainability performance enabled by a strategy built around developing opportunities and managing risks
- Implementing a sustainability strategy with short-term, five-year goals and long-term goals stretching out to 2050

Circle cover the six areas of focus representing the most significant sustainability issues and opportunities facing the company



Teck

Slides 7 & 8

### Our Innovation Focus

**Productivity**

- Equipment selection
- On-site knowledge
- Digitally enhanced operator performance
- Proactive maintenance
- Improving grade and processing

**Safety**

- Edge detection systems
- Collision avoidance systems
- Remote & autonomous mobile equipment
- Wearable UWB systems

**Sustainability**

- 40% saving in water energy use and leakage
- Water management technologies
- Dust management
- Digital community engagement

**Growth**

- Expansion into unexplored core mining
- Global market through new product sets
- Partnership with game-changing innovators

Digital Foundation

**Teck**

### Autonomous Haul Trucks

Potential for improved productivity and safety; deploying in 2018

**Value potential**

- Improved safety
- Highland Valley Copper (HVC) ~\$20M annual savings
- Teck-wide ~\$100M annual savings potential
- Potential to shorten pit walls and narrow road widths; reduce environmental footprint

**Maturity**

- Proven technology; well understood

**Milestones**

- Partnership with Caterpillar
- Site assessment 2017
- On-truck deployment at HVC by end of 2018
- First autonomous fleet at a deep pit mine

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Slides 9 & 10

### Artificial Intelligence

Using AI to predict and prevent maintenance problems

**Value potential**

- Machine learning analyzes data streams from each haul truck to predict maintenance issues before they happen
- Reduce unplanned maintenance, reduce overall maintenance costs, extend equipment life
- Potential \$1.2 million annual savings at just one site

**Maturity**

- Successfully developed at Teck coal site
- Partnership with Google and Python to develop analytic algorithm

**Milestones**

- Successfully implemented in production
- Wider deployment underway at coal sites in 2018

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Slides 11 & 12

### Steelmaking Coal Facts

**Global Coal Production**<sup>1</sup>  
7.5 billion tonnes

**Steelmaking Coal Production**<sup>2</sup>  
~1,140 million tonnes

**Export Steelmaking Coal**<sup>3</sup>  
~330 million tonnes

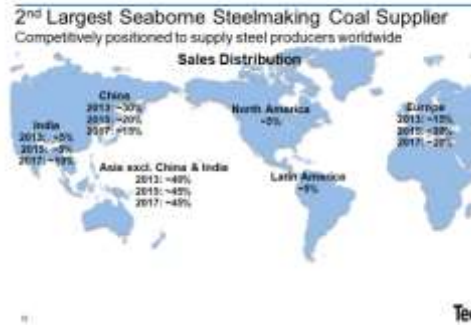
**Seaborne Steelmaking Coal**<sup>4</sup>  
~290 million tonnes

**Our Market - Seaborne Hard Coking Coal**<sup>5</sup>  
~220 Million Tonnes

**Our Market - Seaborne Hard Coking Coal**<sup>5</sup>


- ~0.7 tonnes of steelmaking coal is used to produce each tonne of steel<sup>6</sup>
- Up to 100 tonnes of steelmaking coal is required to produce the steel in the average wind turbine<sup>7</sup>

**Teck**



Slides 13 & 14

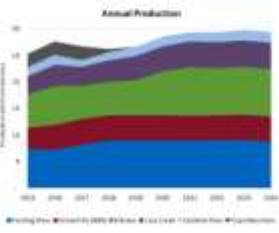
### An Integrated Long Life Coal Business



- > 1 billion tonnes of reserves support ~27 Mt of production for many years
- Geographically concentrated in the Elk Valley
- Established infrastructure and capacity with mines, railways and terminals

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### Maintaining Annual Production



**Opening Closure**

- Coal Mountain closing in 2018 (2.7 Mt) (100%)

**Control and Planned Growth**

- Line Creek opening in 2018 and plant expansion to total from 4 Mt to 1.5 Mt
- Chimney leveling in 2018 Stage 2 extension and plant capacity expansion to total from 1.7 Mt to 1.9 Mt
- Greenbush leveling in 2018 Stage 1 extension to total from 0.2 Mt
- Crowdfisher developing 2 Mt and opening in 2020 to production 1.8 Mt
- Cardinal River developing plans to potentially start the 30 Mt in 2020 at 1.2 Mt

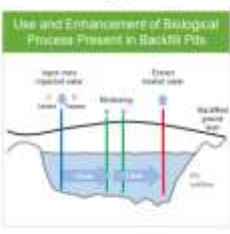
**Future Growth Potential**

- Potential growth opportunities at Quabbin

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Slides 15 & 16

### Water Strategy - Innovation



**Use and Enhancement of Biological Process Present in Backfill Pits**

- Open mine treated water
- Direct treated water
- Recycled water

**Promising Research and Development**

**Saturated Rock Fills (SRF)**

- 10,000m<sup>3</sup> full scale trial commissioned in January 2018
- \$4.1M construction, \$10M annual operating cost
- Potential to reduce or augment cost of AWTFA in the future
- Conclusive results expected end of 2019

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### Thank you

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Slides 1 & 2



**Teck** CMO Closure Program Status Update  
December 4, 2018  
Kevin Probst, Manager Closures



**Teck** Forward Looking Information




Slides 3 & 4

**Teck**

### Transitioning to Closure

**What have we learned?**

- Transitioning from Operations to Closure is not a "box"
- Transitioning to closure requires a certain amount of "adaptive management"
- Maintaining communications and engagement is critical
- Your ongoing feedback supports our Continual Improvement



**Teck**

### Coal Processing

- Processing is planned to continue to June 2019
- We are currently recovering more coal in 37 pit
- Continue to manage ongoing processing potential adaptively



Slides 5 & 6

**Teck**

### Commitment to Employees

- Teck committed to provide uninterrupted employment to Coal Mountain employees
- As of November 2018, 130 employees have already transitioned to other Elk Valley operations
- Most remaining employees will transition from Coal Mountain between now and the end of Q3 in 2019



**Teck**

### Reclamation 2018



Slides 7 & 8

**Teck**

### Reclamation 2019 to 2022



**Teck**

### Reclamation 2019 to 2022



Slide 9 & 10

**Corbin Dam** **Teck**

- Options analysis conducted in 2017:
  - Upgrade
  - Decommission
  - Reconfigure
- Next Steps:**
  - Seismic Stability and Liquefaction studies
  - Updated Inundation Study and Consequence Classification
  - Spillway Design & Upgrade
  - Consolidated Facility Report
  - Develop preliminary closure plan



**Middle Mountain – Plant Refuse Spoil** **Teck**

- Most of Middle Mountain (MMT) has been re-sloped to 25 degrees.
- Utilizing a consultant to perform a Final Landform Design and Options Assessment to address erosion issues.
- The final landform design will need to satisfy end-land use and biodiversity NPI objectives.



Slides 11 & 12

**6 Pit Current Status** **Teck**

- Actively mined in 6 Pit until mid-September 2018.
- Remote equipment allowed CMO to recover more coal than originally expected.
- Mining ceased in September due to geotechnical instability in the West Highwall.
- No more production is forecasted out of the pit at this time.
- Working on a plan to define closure options.

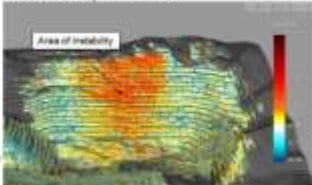



Image of slide occurring within the 6 Pit (orange indicated area of mine instability)

**34 Pit & West Spoils** **Teck**

- Long term pumping could result in changes to the stability of the West Spoils.
- Conducting hydrogeological and stability assessments to determine if decanting from the pit is an option.
- Installed two piezometers at the spoil toe, collect data through 2019/freshet.
- Implement a passive conveyance system for the long term.



Slides 13 & 14

**2016/2018 Community Engagement Events** **Teck**

**Submission Of Closure Plan – December 21, 2017**

- Biodiversity and Reclamation Program
- End Land Use Objectives
- Care and Maintenance Activities

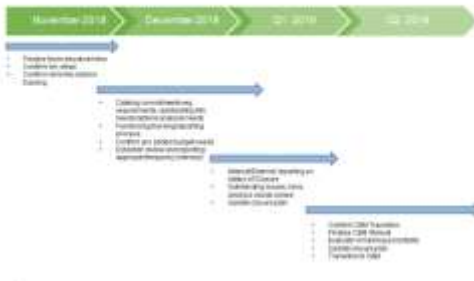
**Community Survey - 2016**

- 61 respondents indicated strong interest in land use after mining

**Direct Engagement**

- Klunaxa Nation Council
- Corbin residents
- Key CMO vendors
- Sparwood and Crowsnest Pass municipalities
- 2016 and 2017 meetings in Sparwood and Crowsnest Pass with members of the public
- Meetings with local recreational use communities of interest
- Closure Task Group (May, Oct, Nov 2017; Jan, Jun 2018)

**CMO Closure and Care and Maintenance** **Teck**



Timeline milestones:

- November 2014: Develop final closure plan, conduct final closure plan, submit final closure plan.
- December 2014: Obtain final closure plan approval.
- 2015: Obtain final closure plan approval, develop final closure plan, submit final closure plan.
- 2016: Obtain final closure plan approval, develop final closure plan, submit final closure plan.
- 2017: Obtain final closure plan approval, develop final closure plan, submit final closure plan.
- 2018: Obtain final closure plan approval, develop final closure plan, submit final closure plan.

Slides 1 & 2



### Community-Based Water Monitoring Program

Arlie Bennett  
 ERA Program Manager, Water & Education  
 December 2008



### Who is the Elk River Alliance?

#### Mission

Formed in September 2010, the Elk River Alliance (ERA), is a community-based water group and registered charity that aims to connect people to the Elk River ensuring it is drinkable, fishable and sustainable for future generations.



Slides 3 & 4

### Vision

Promote a new era in watershed thinking where well-managed human activities result in healthy ecosystems and a robust economy.




### Goals

1. Use education and outreach programs, residents learn where their water comes from, how it is used and ways to keep it healthy for future generations.
2. Collect watershed science and data to prioritize community stewardship action that protects, enhances and restores aquatic ecosystems.
3. Promote safe and sustainable recreational use of the Elk River.
4. Convene and facilitate community input to encourage sustainable watershed decision-making.





Slides 5 & 6

### Community-Based Water Monitoring

In 2011, CBWM started on Lizard Cr, in 2012 Alexander Cr was added.

#### Goals of the CBWM program:

- effective, scientific, replicable approach
  - CAHIN, Streamkeepers, SHIM
- involve public, increase water literacy
- obtain 'baseline' data on Elk R. tributaries
- collaborate with other stakeholders, share info, make data available to community & decision-makers




### Lizard Creek—Background

- 3rd order stream, 3 km southwest of Fernie, BC
- Length is ~8km, 4 monitoring sites in lower 6km
- Riparian zone dominated by deciduous vegetation. Dominant shrubs: mountain alder, black hawthorn and red-osier dogwood. Deciduous trees: black cottonwood and trembling aspen, some paper birch. Western red cedar & Engelmann spruce dominate the forest, some Western larch & lodgepole pine
- Majority of annual flow from snow melt, geology of the area is sedimentary.
- Selected for monitoring as a potential reference site, due to a lack of urban influence, accessibility & spawning habitat for WCT




Slides 7 & 8

### Alexander Creek—Background

- 4th order stream, 15 km east of Sparwood, B.C. Significant tributary of Michel Creek, which flows into the Elk River near Sparwood
- Total length from the source to the mouth is over 30 km, 4 sites on lower 6.5 km, 1 site included in CBWQM project
- Riparian zone dominated by coniferous trees: Engelmann Spruce, Douglas Fir and Sitka Spruce. Major deciduous trees and shrubs: red osier dogwood, trembling aspen and black cottonwood.
- Majority of annual flow from snow melt. The geology of the area is sedimentary with exposures of coal-bearing rock from the Lewis thrust sheet
- Priority for monitoring due to human (anthropogenic) pressures



### Next Steps

- "Making Community Water Data Matter"
- Revise monitoring strategy based on feedback from stakeholders & community
  - streams, # of sites, parameters
- Contribute data to Water Data Hub
- Publish summary 'report card' with 2012-2018 data



Slide 9



Slides 1 & 2

### 10 GREAT REASONS TO PUT YOUR MONEY WHERE YOU LIVE IS

1. **ENJOY WHERE YOUR MONEY GOES:** Get connected to your investments. Support local business. Celebrate their success.
2. **RELIABLE MORE THAN JUST A FINANCIAL RETURN:** Invest locally and receive a social, environmental, community and financial return on your investment.
3. **INVEST LOCALLY IS PROFIT FOR YOU:** Local businesses and their employees pay taxes. This adds infrastructure, amenities and services to our community, increasing the value of local assets.
4. **REDUCE ENVIRONMENTAL IMPACT:** Local businesses make local products. They also make significant local purchases. This means less transportation and pollution.
5. **IMPROVE YOUR HEALTH:** Investment into local agri-food businesses with safety and sustainability to our 'healthy food' supply. Medical communities also attract and retain medical professionals and services.
6. **SUPPORT ENTREPRENEURSHIP:** Entrepreneurs and skilled workers need and utilize communities that encourage their business goals, and appreciate their unique character.
7. **CREATE LOCAL JOBS:** Start-up and expanding businesses create new jobs. This increases opportunities for individuals and families in their neighborhoods, and makes a living in our community.
8. **SUCCESSION PLANNING:** Local investment assists the transition from one generation of business owners to the next. It supports three new owners for every existing business, doubling.
9. **BUILD A VIBRANT, DIVERSIFIED & RESILIENT COMMUNITY:** Local businesses are owned by people who live here. They're less likely to leave and more invested in our future.
10. **TAKE PART IN YOUR COMMUNITY'S BEST INTEREST:** Each of us brings vision, will, and knowledge to our community. Let's pool these resources together and add a new element of economic vitality to local!

### Session Overview

1. Flight of Capital
2. Feedback Loop
3. Paradigm Shift
4. Responsible Investment
5. Impact Investment
6. Community Investment
7. BC Investment Co-ops
8. Mobilizing Local Capital
9. How it Works
10. Governance
11. First Directors
12. Eligible Member-Investors
13. Eligible Borrowers & Collaboration
14. Founding Member Details
15. Q&A Period

[www.localmoney.ca/en/na.com](http://www.localmoney.ca/en/na.com)

Slides 3 & 4

### Flight Of Capital

- Global connectivity
- Low carbon technology
- Urban industrial growth
- Mergers & acquisitions
- Concentrated wealth

- Urban in 1950 - 746 MM
- Urban in 2035 - 5.0 Billion
- Urban in 2050 - 60% (5.2B)
- Capital > Population

[www.fairfuturesofcalifornia.com](http://www.fairfuturesofcalifornia.com)

The shorter the feedback loop, the more in touch with reality we become. We are deeply connected to the consequences of our actions - positive and negative.



The longer the feedback loop, the more disconnected we are from the social, environmental and economic impacts of our actions - positive and negative.

[www.fairfuturesofcalifornia.com](http://www.fairfuturesofcalifornia.com)

Slides 5 & 6

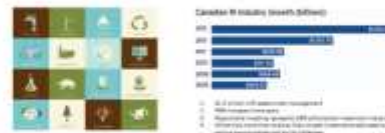
### A Paradigm Shift is Taking Place

- Recognition of the necessity for sustainable, environmental and social outcomes
- High profile and business leaders are promoting 'triple bottom line' (economic, environmental and social) metrics to investors and customers
- They make a difference while making a profit
- Demand from investors for ESG (Environmental, Social and Governance) investing for impact from the world's largest investors
- Pushed by a number of economic factors and challenges
- Global water management firms are leading the way

"Sustainable means environmental, social and economic. It's about creating value for all stakeholders, including employees, customers, investors and the planet. It's about being profitable and responsible at the same time." - Peter Brabeck-Letombe, Chairman of the World Economic Forum

[www.fairfuturesofcalifornia.com](http://www.fairfuturesofcalifornia.com)

Responsible investing typically applies a set of negative or positive screens to a group of publicly listed securities - for example, a mutual fund that avoids investments in tobacco, alcohol and firearms. These investments adopt a 'do no harm' approach.



Slides 7 & 8

Impact investing goes beyond a passive screen by actively seeking to invest in companies or projects that have the potential to create positive economic, social and/or environmental impacts. They measure and report their impacts in a transparent way.

**Carbon Footprint (Scope 1+2)**

Investment Option	Carbon Footprint (Scope 1+2)
Option 1	100
Option 2	150
Option 3	200
Option 4	250
Option 5	300

[www.fairfuturesofcalifornia.com](http://www.fairfuturesofcalifornia.com)

Community investing enables citizens to invest in local triple-bottom-line projects that build local wealth, create meaningful relationships, divert money from harmful transnational corporations, and strengthen the ecosystem for local and social entrepreneurs.



[www.fairfuturesofcalifornia.com](http://www.fairfuturesofcalifornia.com)

Slides 9 & 10



Community Investment Co-ops in B.C.

Community Investment Co-ops (CICs) are a new and innovative support system for rural investment and business development that effectively bridge the gap between local investors and local producers in need of financing. CICs are not effective, community owned and controlled impact funds. They enable residents to become partners in locally-driven economic development, which leads to stronger and more sustainable economies in other words, your money won't be in stocks and mutual funds, but more importantly in local projects and people.

Community Investment Co-ops across Canada have been shown to diversify and create successfully financial returns that generate significant local benefits including: affordable housing, renewable energy, sustainable agriculture and food production, locally-owned retail business development, technology and community economic development projects. The longer a dollar can circulate within a community, the greater its economic and environmental benefits.

- Research shows the Investment Co-ops model has become popular in BC:
1. The BC 40-50 security exemption makes it more effective to raise capital.
  2. They are democratic and locally owned and controlled - one member one vote.
  3. They continue financing through lending, equity, or membership, and
  4. They fit well with existing lending institutions like Community Finance and Credit Unions.

www.EastKootenayColumbia.com

Slides 11 & 12

Mobilizing Local Capital Initiative

- As one year (Jan 1 - Dec 31, 2018) initiative to establish two regional Community Investment Co-ops in Southwestern BC, based on Crowstee Pass model:
- Funded by Kootenay Employment Services, BC Rural Centre, the President of BC, and local community and economic development organizations.
  - 2018 residents attended community impact investment awareness in Jan & Feb.
  - Over 18 economic development stakeholders agreed on an advisory committee and participated in business planning activities from April to October (October announced).
  - Roles and business plan was coordinated with the local investment committee and with a CIC consultant, lawyer and co-op developer.
  - Now undergoing a founding member drive for Investment Co-op and CIC Ltd.

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How It Works

- Members of the Investment Co-op purchase membership shares of \$100 each. New per week.
- Capital raised from members is deposited into a credit union to establish a revolving financing pool for local businesses and projects.
- 25% of all capital raised is set aside to form deposits at a Member Rehabilitation Reserve.
- Individuals make investments. After 3 year redemption period, as monies are invested locally.
- Local businesses and projects apply to the Investment Co-op for financing.
- Investment Co-ops share with regional Community Finance to complete loan analysis.
- Members receive notice when businesses receive financing from the Investment Co-op.
- Investment Co-ops and members can provide membership and customers loan fee benefits.
- Members share in the risks and rewards of the local investment portfolio. If a surplus is realized, monies are distributed as dividends on membership shares. If a loss deficit occurs, share price is revealed to reflect current assets vs. liabilities.

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Slides 13 & 14

Investment Co-op Governance

- East Kootenay Columbia consists of three sub-regions and their surrounding communities:
  1. Elk Valley
  2. Crowstee - Kimberley
  3. Columbia Valley - Stibber
  4. Kamloops
- 3 members x 2 votes. Agenda of how many membership shares they own. Democratic.
- A member elected Board oversees the governance of the Investment Co-op.
- Each sub-region may have up to 10 Directors on the Board.
- Maximum Board is 32 persons. No more than 3 Directors can be representatives.
- Each sub-region has its own Investment Committee to screen local investment applications and to work with regional Community Finance to coordinate due diligence.
- One regional Marketing and Communications committee oversees all promotional activities across the three sub-regions.

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East Kootenay Columbia: First Directors

- **Elk Valley First Directors, BC:**
  - Richard Mulvihill and Richard...
  - **High Valley First Directors, BC:**
    - Community Services and Marketing
    - Administrative Manager at Tobacco Farms
    - Healthcare & Economic Development
    - Pastors and Board of the High Valley Economic Society
  - **Stibber First Directors, BC:**
    - Chief Operating Officer at Full Business
    - Community Finance Group
    - **North Kamloops First Directors, BC:**
      - Regional Director of Community Finance
      - Director of Kamloops and Regional Office of East Kootenay First Directors
    - **Stibber First Directors, BC:**
      - Chief Marketing Officer at Full Business
      - Community Finance Group
      - **High Valley First Directors, BC:**
        - Community Services and Marketing
        - Administrative Manager at Tobacco Farms
        - Healthcare & Economic Development
        - Pastors and Board of the High Valley Economic Society
      - **Stibber First Directors, BC:**
        - Chief Operating Officer at Full Business
        - Community Finance Group
        - **North Kamloops First Directors, BC:**
          - Regional Director of Community Finance
          - Director of Kamloops and Regional Office of East Kootenay First Directors
        - **Stibber First Directors, BC:**
          - Chief Marketing Officer at Full Business
          - Community Finance Group

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Slides 15 & 16

**Eligible Member-Investors**

- Individuals must be at 21 years or older and be a Canadian resident
- Corporate members must be Canadian controlled entities, governments or First Nations and local entities at least one delegate to one of General Meetings or serve on the Board
- Net Investment (maximum) up to \$200K using RCT Co-operative Formula (RCI 45/55)
- Accredited investors have no limit on the amount they can invest under 34(1) SBC exemption
- At least 75% of the investment Co-op's members (not made in East Kootenay) should be residents of local municipal and provincial (the fund)
- Up to 25% of the members may reside in other parts of BC or Canada, depending on the security description they fit under (real or accredited)

[www.eastkootenay.ca/investors](http://www.eastkootenay.ca/investors)

**Eligible Borrowers & Collaboration**

- Businesses and project that apply for financing from the investment Co-op will:
  1. Complete a preliminary 2 page investment application
  2. Submit a business plan and cash flow projections for analysis
  3. reside or have their registered office or management team in East Kootenay Columbia
  4. demonstrate economic, social, environmental or community/social impacts within the East Kootenay Columbia region
  5. work with a sub-regional co-operative Committee before and after financing
  6. complete an annual report and access additional reports when necessary
- If the business is a start-up, they must be willing to receive mentorship from a business development organization or the Co-op's strategic HR
- The investment Co-op completes due diligence in partnership with regional Community Futures offices
- A collaborative financing policy encourages the investment Co-op to work financing partners

[www.eastkootenay.ca/investors](http://www.eastkootenay.ca/investors)

Slides 17 & 18

**Founding Member Drive**

- Goal is to reach a minimum of 80 founding members by December 31, 2024
- The initial investment Co-op is later available from prior to start funding, if you are
- Founding members will continue to analyze and change BC's local investment sector
- Founding members must:
  1. Complete a membership application (individual or corporate)
  2. Pay for (1) membership share for \$50K (held in trust)
  3. Sign original founding documents
- Presentations to communities throughout East Kootenay Columbia: Golden, Revelstoke, Parkton, Invermere, Sparwood, Fernie, Kimberley, Cranbrook

[www.eastkootenay.ca/investors](http://www.eastkootenay.ca/investors)

**Next Steps and Q&As**

1. **Ask Questions in-Person or by Email**
  1. Question & Answer Forum
  2. Eden, V.C. Adams, and First Directors
  3. Email: [info@eastkootenay.com](mailto:info@eastkootenay.com)
2. **Observe, Learn and Become a Founding Member!**
  - Complete your membership application tonight
  - Or online at: [www.eastkootenay.com/invest](http://www.eastkootenay.com/invest)
  - Sign the original founding documents
3. **Get the word out! Share with your networks**
  - [www.eastkootenay.com/invest](http://www.eastkootenay.com/invest)
  - Facebook: @eastkootenay.com
  - December 19 Founding Member joining date

[www.eastkootenay.ca/investors](http://www.eastkootenay.ca/investors)

Slide 1 & 2

**Mainroads East Kootenay**  
Winter operations

**Our Responsibility**

- We are responsible for maintenance of provincial roadways per the Ministry of Transportation & Infrastructure (MoTI) Standards & Specifications
- These Specifications vary based on Road Classifications
- The Road Classifications are determined by MoTI
  - Based on traffic volumes
  - School bus & commercial routes

Slides 3 & 4

### New Service Area Boundary



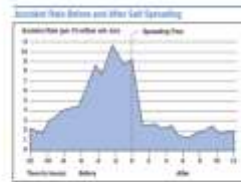
### Winter Abrasive - Sand

- It provides instant, temporary traction
- To maximize traction, traffic speeds must be <60 km/h
- Does not melt ice
- Does have an environmental impact
- Dissipates quickly with traffic
- Wasteful



Slides 5 & 6

### Why do we use salt?



### Winter liquid treatments



- De-icing**
- Try to "turn off" snow
  - Applied after snowfall
  - Uses 4x as much material
  - Reactive
- Anti-icing**
- Applied shortly before snowfall
  - Prevents snow loading to pavement
  - Proactive



Slides 7 & 8

### Answers to frequently asked questions?

- Plows must travel between 35-60km/h to be effective
- No, operators do not turn off spreaders
- Yes, the "slow down move over" law applies to snow plows
- When plowing, operators start from the centre of road and work out
- We never encourage anyone to pass a snow plow  
 ...**never pass on the right**...
- Keep a safe distance when traveling behind a snow plow
- Weather can change quickly, especially at dusk and dawn



### Changes -

- Improved weather information [RWIS - Road Weather Forecasting]
- Increased patrols and post-storm requirements
- Changes in spec of winter material
- Improved public communication





Slides 9 & 10

### Challenges

- Aggressive Drivers
- Public Expectation
- Climate Change
- Changing Technology



**Winter Driving Tips**  
 When driving in winter weather, it's important to take extra precautions to stay safe. Here are some tips to help you drive safely in winter weather.



### Shift Into Winter campaign



Slides 11 & 12

### Shift Into Winter– is your vehicle winter ready?



### Snow Plow Blind Spots



Slides 13 & 14

### Winter stopping distances



### Slow down/ move over campaign

