

Lytton- Why asset management matters!

Asset Management BC

November 2, 2022

People, Places and Purpose

 Ron Mattiussi RPP MCIP

Photo Credit: Barbara Roden June 2015







Nlaka'pamux rock art.

Indigenous History

Lytton is one of the oldest continuously-inhabited areas in North America, with a First Nations history stretching back thousands of years.

Bruce Hutchison, author and journalist, wrote that it is *“an ancient town, more ancient than any built by white men in America. Here ... [was] found a thriving Indian community, centuries old. The confluence of two great rivers and the natural trails of men’s travel made this one of the crossways of the continent.”*¹

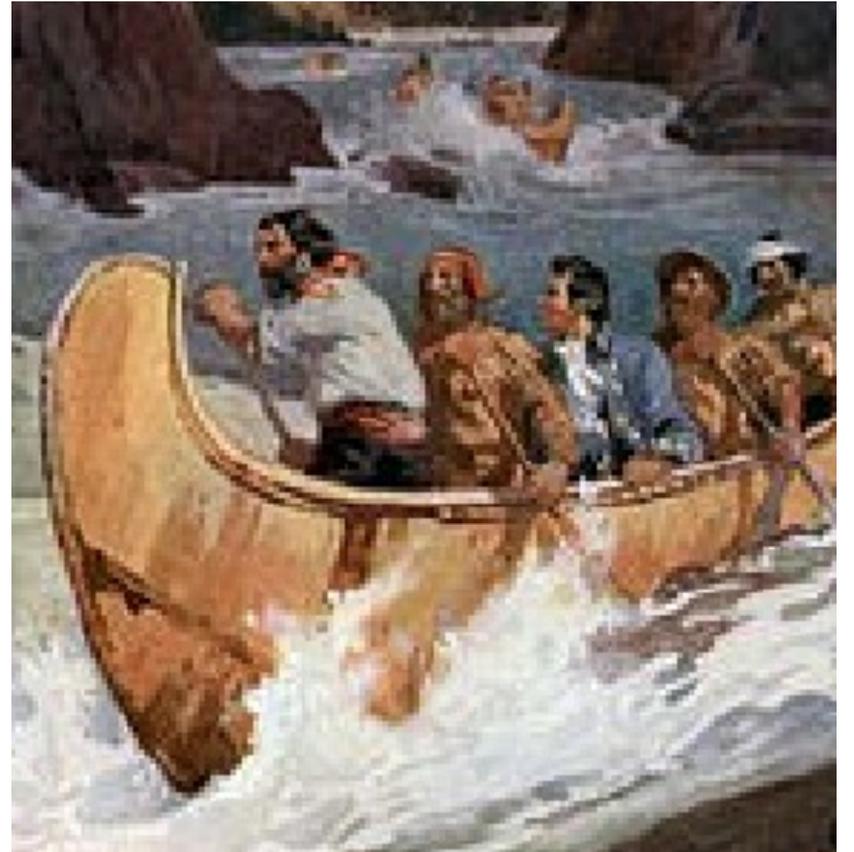
The site at the confluence of the Thompson and Fraser Rivers has long been considered the heart of the Nlaka’pamux people's territory.

Exploration

River geography was of great interest to fur-traders, such as Simon Fraser. There had been reports of a major river beyond the Rockies and Fraser undertook an exploration to discover whether or not it was the Columbia that had been partially explored by George Vancouver, and the Lewis and Clark expedition.

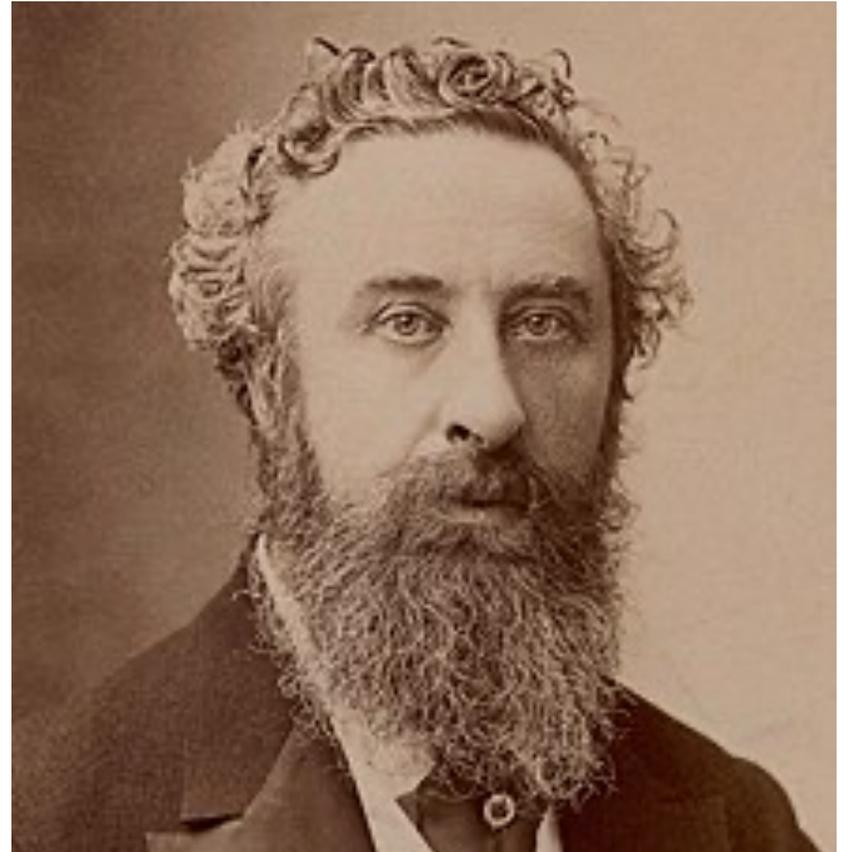
Fraser and his party travelled by canoe down the uncharted river in the spring of 1808. The following quote records Fraser's reaction to their encounter:

“We had every reason to be thankful for our reception at this place; the Indians showed us every possible attention and supplied our wants as much as they could.”



Colonization

- A short-lived Hudson's Bay Company post, referred to as Fort Dallas located here. Named Lytton in 1858 by Governor Douglas, after Sir Edward Bulwer-Lytton (1803-1873), as a “merited compliment and mark of respect” for Sir Edward Bulwer-Lytton, who was Secretary of State for the Colonies.
- Bulwer-Lytton’s legacy as a British government official is not a memorable one; he is best known today as a best-selling novelist whose works included *The Last Days of Pompeii*. He is credited with inventing the phrases “the pen is mightier than the sword” and “the pursuit of the almighty dollar”, but his most lasting fame (or infamy) as a writer is having penned the much-parodied opening line “It was a dark and stormy night”, in his 1830 novel *Paul Clifford*.



The Gold Rush

- During the Gold Rush that began in 1858, Lytton became an important stop along the road as prospectors headed north.
- In 1859 a visitor to the town, Lt. R.C. Mayne, described it as “An irregular row of some dozen wooden huts, a drinking saloon, an express office, a large Court House — as yet unfinished — and two little buildings near the river which had once belonged to the H.B.Co. but which were now inhabited by the district magistrate.”



Plan of the Town of Lytton and its Suburbs. From a Survey by Sgt. W. McColl, R.E., June, 1860.

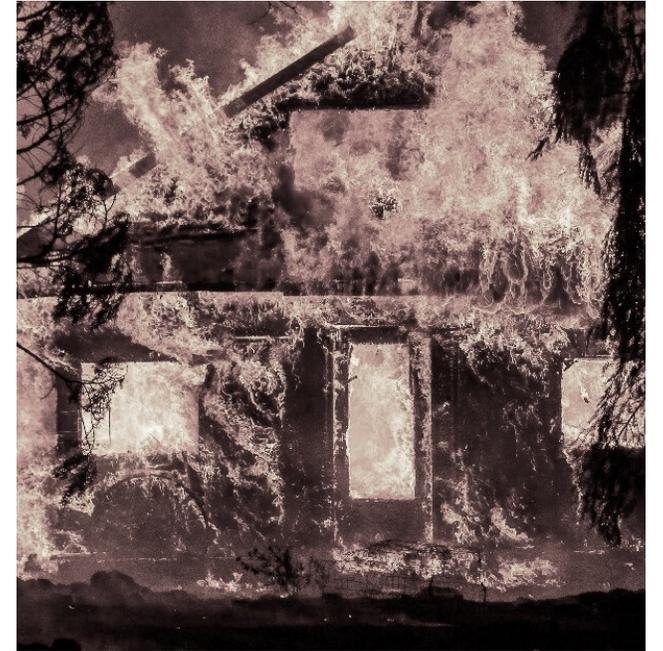


A history of Lytton, from First Nations to the Gold Rush to disastrous Lytton in 1863, five years after it was named in honour of the writer who gave us 'It was a dark and stormy night.' (Photo credit: Lytton Museum)

The Fires

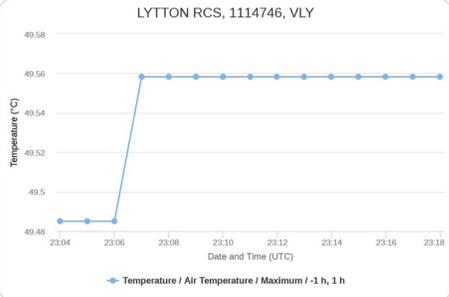
Just as Lytton has a long history as a settlement, however, it also has a long history of fire.

- The Sept. 12, 1931 issue of the newspaper, the *Journal* contained the headline “Village Of Lytton Swept By Fire Thursday A.M.” In the early morning hours of **Sept. 10, 1931**, a fire started in a power-house attached to the Lytton Hotel. The flames were not discovered until they were sweeping the lower section of the building. High winds fanned the flames, and several hotel guests had to jump from the building, as all other routes were cut off.
- On **Jan. 29, 1938**, a fire broke out at the historic Globe Hotel. As in 1931, strong winds fanned the flames, and the entire business district of Lytton was threatened. **Firefighters** — realizing they could not save the hotel — concentrated their efforts on preventing the spread of the fire to nearby businesses.
- On **June 16, 1949**, the front page of the *Journal* featured the headline “Business Blocks At Lytton Burn”. This time a fire broke out in the BR Store at about 7 a.m. on June 13 and destroyed many of the businesses and houses on two downtown blocks.



ECCC Weather British Columbia 
 @ECCCWeatherBC · Follow

At 4:20pm, Lytton Climate Station reported 49.5°C, once again, breaking the daily and all-time temperature records for the 3rd straight day. Final numbers and all other temperature records will be posted later this afternoon. **#BCStorm**



4:29 PM · Jun 29, 2021 

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Lytton, B.C. breaks Canada's all-time heat record for third time



The small town of Lytton, B.C. in the Fraser Canyon region.

By Lisa Steacy

Posted Jun 29, 2021, 8:53PM PDT.

Last Updated Jun 30, 2021, 5:13AM PDT.

Canada's Hot Spot June 30, 2021

“I’d rather be known as Canada’s hot spot for education, health care, quality of life than for having the hottest temperatures,” the mayor explained, adding there are concerns about older and more vulnerable people amid the heat.

- When it comes to being known nationally — and even internationally — as the place that saw the hottest temperature on record in Canada, Polderman says **it’s not an honour.**

June 30th 2021

Figure 12: South Lytton Village at 1800h, 1813h, and 1829h. Photos are referenced to one another by a yellow x on two different buildings with turquoise-colored roofs. Yellow arrow locates the surviving home of interest.



**An examination of the Lytton, British Columbia wildland-urban fire destruction
Summary Report to the British Columbia FireSmart™ Committee**

Jack D. Cohen, PhD., Research Physical Scientist, Missoula, MT.

Alan Westhaver, M.Sc., ForestWise Environmental Consulting Ltd., Salmon Arm, B.C.

Figure 3: Arrows trace the estimated eventual Spread Paths of wildfire that exposed Lytton Village, IR 18 and IR 17 to flames and burning embers that initiated community ignitions.



Fire Spread

1. Wildfire conditions were extreme... from a rapidly spreading surface fire burning through grass, forest litter and shrubs. This was abetted by short-distance ignition spotting from a profusion of embers.
2. Given the Lytton wildfire conditions of rapid fire spread along four different fronts ... it was unrealistic to expect a successful initial wildfire suppression attack response.
- 9 . Total building destruction does not indicate a high intensity wildfire flame exposure ... ignition resistance is the most effective approach for reducing community wildfire risk and preventing WU fire disasters.

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BCEMS

4 Pillars of Emergency Management



Mitigation



Preparedness



Response



Recovery

FIGURE 5: PHASES OF DISASTER RECOVERY - WHAT IS HAPPENING TO PEOPLE?⁸

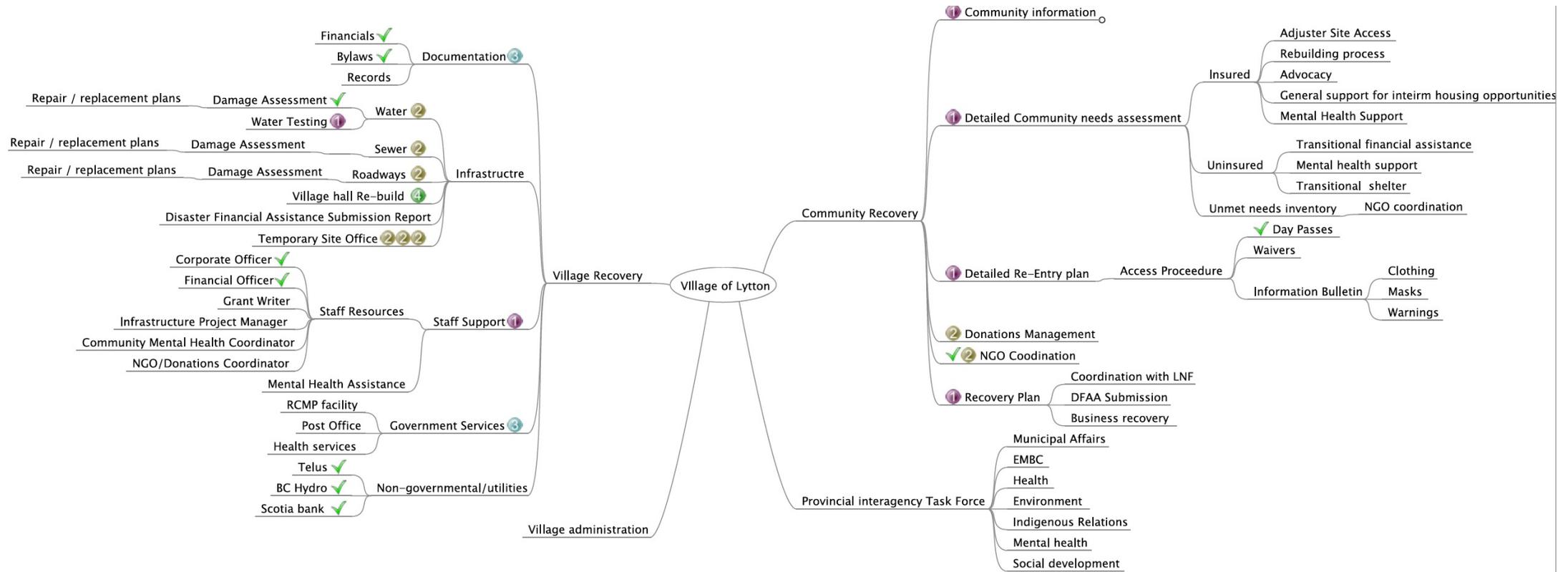


Three Phases of Recovery

- Impact Assessment - Immediate
- Transition - Months
- Rebuilding - Years

Ron's Initial Recovery Plan

(Best Laid Plans of Mice and Men...)



Village Administration Recovery

Community Recovery

Village of Lytton



Village of Lytton Short Term Recovery Plan

Summary of Proposed Urgent Objectives and Actions



Issue #1

Assessment and Clean up

- **Is it safe** to let people enter the Village and sift through their home sites for belongings?
- **Who determines** whether people can return? (The Mayor, The Province, the EOC Director, the CAO) – should this be in a hierarchal order?
- **Initial clean-up will include ongoing testing**, PPE's, Phases (Debris Removal versus Soil remediation), Separation of material and specialized disposal.
- The **insurance industry protested** that the clean up process was taking too long and that a Heritage Permit had not been required before.
- The **Red Cross/Province agreed to cover some of the resident's costs** as most homeowners were either underinsured or not insured.

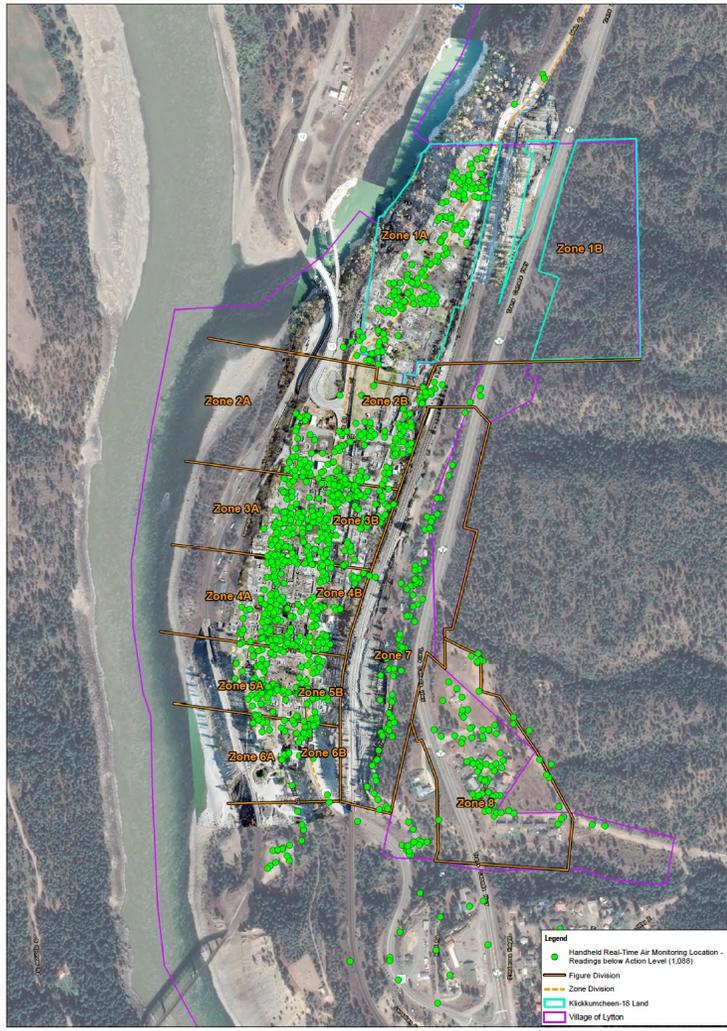


FIGURE 3
 DRAFT
 BRITISH COLUMBIA MINISTRY OF ENVIRONMENT & CLIMATE CHANGE STRATEGY
 LYTTON, BRITISH COLUMBIA
 REAL-TIME AIR MONITORING LOCATIONS
 JULY 12 TO 23, 2021
 Project No: 11230615
 Revision No: 1
 Date: Aug 11, 2021

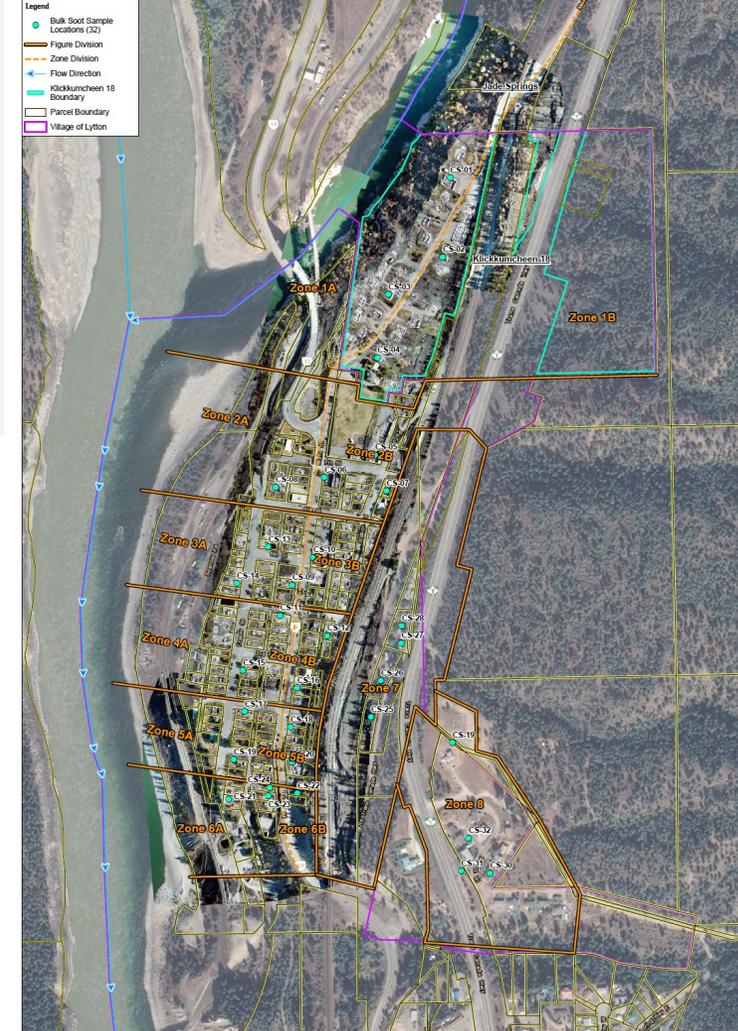


FIGURE
 DRAFT
 BRITISH COLUMBIA MINISTRY OF ENVIRONMENT & CLIMATE CHANGE STRATEGY
 LYTTON, BRITISH COLUMBIA
 BULK SAMPLING LOCATIONS
 Project No: 11230615
 Revision No: 1
 Date: Aug 12, 2021

Safe Work Consideration

5.1 General Asbestos Considerations

5.2 Designated Work Area Exposure Control

5.3 Personal Protective Equipment (PPE)

5.4 Air Monitoring and Sampling



Summary of Results and Safe Work Considerations

Bulk Material Sampling and Air Monitoring, Lytton Wildfire Response Lytton, British Columbia

British Columbia Ministry of Environment and Climate Change Strategy

September 2, 2021

Issue # 2

Heritage Permits

Lytton was deemed to be an area of significant heritage values, by the Nlaka'pamux Nation Tribal Council. A Heritage Plan was developed to minimize disturbances remediation would have on the recognized burial grounds and ancient First Nations artifacts the Village was built on.

- The Heritage Branch had never had to consider such a large-scale heritage permitting process.
- A phased process was developed that involved working with Nlaka'pamux Nation Tribal Council staff, the Heritage Branch, Michael Klassen, Ph.D., RPCA (Klahanee Heritage Research), and the recovery team.
- Insurance companies protested that the clean-up process was too lengthy and had the added hurdle of a heritage review process. Red cross agreed to cover some costs as a large majority of residents either were underinsured or had no insurance.

Monitoring and Screening

Total Crew	7							
Work Summary				Crew began shovel testing E side of Zone 2. Due to heat we switched to screening in the afternoon. We worked on screening utility locate trenches form 165 Main (P-LK22-001,2,3) and 260 Fraser St (P-BL22-003).				
Monitoring Results								
Address	PID/PIN	Zone	Borden / Temp Site #	Construction Activities	Monitoring activities	Screening/ raking piles	Artifact Count	Comments
	12866458	Zone 2	n/a	Preliminary shovel testing	n/a	n/a	0	Completed two shovel tests within STA-BL22-002, both were negative. 1 test remains.
	11626356	Zone 2	n/a	Preliminary shovel testing	n/a	0	22 Faunal Fragments	Completed three shovel tests within STA-BL22-002, two were positive for faunal fragments (ST002 and 003).
	11626356	Zone 2	n/a	Screening piles	n/a	Screening P-LK-003 at 25%	1 (possible) mortar, and 26 faunal fragments	A total of 190 buckets were screened from P-LK-003, 46 buckets remain
	12866571	Zone 3	n/a	Screening of utility locate trench (P-BL22-003)	N/A	Screening 25% of pile.	No additional faunal fragments recovered. No lithics from trench or pile.	A total of 166 buckets have been screened.
	24568902	Zone 7	n/a	Removing ACM from school structure	Post impact surface inspection	No piles set aside. Ground Disturbance was very minimal due to concrete foundation in place.	N/A	Elementary School
	25982176	Zone 3	n/a	Utility locate trench	Observation and surface inspection	No pile taken due to hornets' nest. Future excavation at or near trench will result in piles.	N/A	Hornets' nest was identified in trench last Friday. Hornets were left for the weekend to calm down and relocate. Excavator attempted to remove nest in one shovel full. The intent was to remove the nest but it was much larger than anticipated. Nest and nest sediment was put on W boundary of property away from workers. Pile was not marked for screening. Trench had evidence of previous disturbance.
	12866661	Zone 4	n/a	Utility locate trench	Observation and surface inspection	Piles put aside for screening	N/A	Possible intact (non-sterile) sand visible at 70cm DBS. Trench was too deep for close inspection.
Total # of Artifacts			49					

Issue # 3 – Atmospheric River

No way to
move debris

Falls Creek (Jackass Mountain)



Nicomen Bridge



2021 B.C. Highway Flood Recovery Projects -
Highway 1 - Fraser Canyon



Issue #4 No Municipal Records

- No Bylaws
- Minutes
- Policies/Reports/Studies
- Financial Records
- Building/Engineering Drawings



Issue # 5 Build Back Better

- Acting CAO (Leslie Groulx) set about recreating Bylaws, **Policies, and Procedures** to allow the Village Council to function.
- **Building Bylaw 683, 2018 was adequate**, however, Mayor and Council wanted a new building bylaw that contemplated district energy and a net zero energy (**step code level 5**) for all new homes.
- Based on the Fire Smart report, and a review by Institute for Catastrophic Event Reduction (ICLR), this **new building bylaw would also include provisions to make the Village homes and businesses fire resistant.**
- Tired and angry residents were concerned that new provisions were unnecessary and costly.



Mayor Jan Polderman, demonstrating a solar panel sidewalk.

Description	1st Reading Date	2nd Reading Date	Public Hearing Date(s)
ment Bylaw No. 683, 2016			
Capital Reserve Fund Establishment Bylaw No. 684, 2016	29-Mar-2016	29-Mar-2016	
Equipment Reserve Fund Bylaw No. 685, 2016	29-Mar-2016	29-Mar-2016	
Capital Reserve Fund Establishment Bylaw No. 686, 2016	29-Mar-2016	29-Mar-2016	
Financial Plan Bylaw No. 686, 2016	9-May-2016	9-May-2016	
Missive Tax Exemption Bylaw No. 687, 2016	11-Oct-2016	11-Oct-2016	
Rates Bylaw No.688, 2016	9-May-2016	9-May-2016	
Charges Bylaw No. 689, 2017	24-Jan-2017	24-Jan-2017	
Financial Plan Bylaw No. 690, 2017	27-Mar-2017	27-Mar-2017	
Bylaw No. 691, 2017	24-Apr-2017	24-Apr-2017	
Procedure Bylaw No. 692, 2017	11-Dec-2017	11-Dec-2017	
Regulations Bylaw No. 693, 2018	Bylaw to regulate construction, alteration, repair, moving or demolition of buildings and	28-Mar-2018	25-Apr-2018
Financial Plan Bylaw No. 694, 2018	Bylaw to adopt the financial plan for years 2021-2025	23-Apr-2018	23-Apr-2018
Tax Rates Bylaw No. 695, 2018		25-Apr-2018	25-Apr-2018
Charges Bylaw No, 696, 2018		13-Jun-2018	13-Jun-2018
Amendment Bylaw No. 697, 2018		10-Oct-2018	10-Oct-2018
Community Plan Amendment Bylaw, 2018		10-Oct-2018	10-Oct-2018
Financial Plan Bylaw No. 699, 2019		27-Feb-2019	27-Feb-2019
Regulations Amendment Bylaw No.		27-Mar-2019	27-Mar-2019
Services Reserve Fund Bylaw No, 700, 2021	Bylaw to establish a reserve fund to replace the fire truck and firehall and equipment	10-Mar-2021	10-Mar-2021
Tax Rates Bylaw No. 701, 2019		24-Apr-2019	24-Apr-2019
Remuneration and Reimbursement of Officer's and Employee's Expenses		22-May-2019	22-May-2019
Financial Plan Bylaw		13-May-2020	13-May-2020
Local Tax Rate Bylaw No. 704, 2021	Bylaw to impose rates on all taxable land and improvements for the year 2021	12-May-2021	12-May-2021
Financial Plan Bylaw No. 705, 2021	Bylaw to adopt the financial plan for years 2021-2025	16-Apr-2021	16-Apr-2021
Property Tax Exemption Bylaw No. 706, 2021		13-Oct-2021	13-Oct-2021
Bylaw No. 750, 2021			

Bylaw Registry

- 704 Bylaws on Provincial Registry
- Few were recovered.
- Province would consider a **MEVA (MUNICIPALITIES ENABLING AND VALIDATING ACT)**

Issue # 6 – There was no there there!

- Residents were displaced to **Kamloops, Merritt, Ashcroft, Boston Bar, Chilliwack and other locations** making communication to determine needs difficult. Given the age of many of the residents they did not have internet access. The telephone was the only way to reach them.
- Thirty-two homes survived in a **neighbourhood across the highway from the Village site, leaving those residents isolated and without services.**
- There were no adequate locations for municipal services and all vehicles except a fire truck (ironically) were destroyed.
- A resiliency centre was set up in the school (one of the few buildings to survive) and was run by volunteers.



after images of the Village of Lytton, B.C. Before photo taken in 2018; after photo taken on Friday, July 9, 2021. (Jenna Hauck/ Black Pres

Issue # 7 – Municipal Finances

- The fire destroyed all of the Village's financial records as well as the backup records, housed on a server down the street from Village Hall.
- With no financial records Terry Hawes, acting CFO with MNP accounting, had to painstakingly use **financial statements from Village bank accounts** to recreate financial records. The process took months and was further complicated by a long history of staff turnover that included CFO's and CAO's.
- The Village was now completely **reliant on the Province for funding and every proposed expenditure** had to be requested and approved by the Province.

Issue # 8 - Infrastructure

Overall, the infrastructure was in acceptable condition (for a small village) with some exceptions:

- Of the three wells servicing the Village and First Nations homes only **Well 2** will be operational following the remediation of the Village. Well 3 was under repair pre-fire and won't be available for months.
- The new intake and debris pond on Lytton creek, **the main source to the Village**, was damaged in the atmospheric river event. The UV Calibration had to be reconfigured and valve replacements undertaken. This infrastructure requires a level 2 operator but there is nowhere to live in the Village for operators to live.
- The existing system is **not likely to have the fire flow velocity required by the building code** to permit the construction of new homes, even if the system is repaired.

Critical Infrastructure Needs	
Water and Sewer Infrastructure	<ul style="list-style-type: none"> -Staff Cost -Water Testing -Managing responsibilities of reporting on Water -Design of remediation -Design Engineering Consultants -Helping with Designs -Includes Urban Systems Scope and Scale Report plus projected cost design.
	<ul style="list-style-type: none"> Mundell Engineering Contracts to the Village - Creek design (Atmospheric River) Debris Flow, Remediation of the intake, catch basins Phase 1 cleanout/Phase 2 Design Water Treatment Plant Consultant Operator WSP (Consultant) Water Treatment system as built document and operations and maintenance manuals + outstanding amounts from previous 2020 invoices
	<ul style="list-style-type: none"> Contractors Comm Comm, construction company for Lyttonnette for trenching and digging for fibre lines for Lytton Creek Restoration & to bid on work for design work on gabion baskets
	<ul style="list-style-type: none"> Contractors Asphalt
	<ul style="list-style-type: none"> Contractors Concrete
	<ul style="list-style-type: none"> Contractors Tri-west, to do repairs on water distribution system
	<ul style="list-style-type: none"> Contractors Tri-west, as needed basis to support works in the Village on going
	<ul style="list-style-type: none"> Maintenance and Repair of Water Facility (Mitigation measures to reduce the need for boil water advisories) Plow Truck, work truck, tools Testing and Inspection CCTV for leak detection in the water system and sewer line Water Quality Testing for Interior Health
	<ul style="list-style-type: none"> GHD Report on Water Leakage UBCM Strategic Priorities fund - \$1.25mil (needs engineering)
	<ul style="list-style-type: none"> - Visual Assessment of Damage for Water and Sewer Infrastructure - get costing in place to submit and EAF - Dan Mundall to do report? Phase 1 (clean out of intake) complete; received the phase II - infrastructure restoration - follow debris clean - create redundancy for water system EAF submitted per UBS proposal-Well3 - Clearflo-??? Providing an estimate to provide a backup - review and comply with Water Operating Permit - scope of work for Hydrology Assessment of watershed
Water	<ul style="list-style-type: none"> - remediate the entire site - fix water system / sewer connections / all at once - Infrastructure Master Plan - grant application for Strategic Gas Tax Funds - Review and update Water Source Protection Plan Redundant Power (could for Well #2, temp housing, clearflow)
Waste Management	<ul style="list-style-type: none"> - ensure waste management is in place for interim housing Will need to hire a contractor
Water Testing	<ul style="list-style-type: none"> - continue to test and report samples for water system - communicate results to IHA and FNHA
Watershed Assessment	<ul style="list-style-type: none"> - watershed assessment - geotechnical hazard (Grant funding) (flood mapping & Mitigation) - hydrology review - Environmental
Road Infrastructure	<ul style="list-style-type: none"> - Road infrastructure assessment - identify road capital repair - funding source
Fire Department / Protection Services	<ul style="list-style-type: none"> Plan A: Temporary Firehall Building Security for the Fire Department (and Village Offices) Structure for for Fire Department Fire Services Review (Department Assessment): - restore functionality - establish facility / new fire truck to arrive in 2022 - recruitment & training - personal protective equipment (PPE) and equipment

Implementing the Short-Term Recovery Plan

Proposed Action Areas

Priority	Actions	Potential Funding	Secured Funding	Timeline	Status
					04-24-22
Critical Infrastructure Assessment	Water and sewer system assessments are ongoing and a “restart” plan for development is also ongoing.	Province (DFA)	Y	Fall/Winter 2021	In progress
	Water system operation and quality testing		Y	Fall/Winter 2021	In progress
	Sewer system “restart” plan implemented once completed		Y	Winter 2021	O/S
	Public facility assessments		Y	Winter 2021	O/S
	Road Infrastructure Assessment		Y	Winter 2021	O/S
Critical Infrastructure Restoration	Domestic water quality testing required	Province (DFA)	Y	Fall/Winter 2021	Complete DNC removed
	Domestic water system pressurization prior to housing reconstruction. Curb stop inspections and repairs to take place before testing for leaks		Y	Fall/Winter 2021	O/S
	Restore water to IR 17 - part ordered, no immediate action beyond testing and repair	Funds needed for 20%	Y	Fall/Winter 2021	O/S
	Ensure sewage treatment plant <u>is in compliance</u> with environmental regulations		Y	Fall/Winter 2021	complete

Archaeology Work	
Safe Return and Re-Entry	
Debris Removal	
Underinsured	<p>Communications to public - on how this works for them</p> <p>Archaeologist: 1 can handle the whole site. 5 days a week/10 hour days/6 months. Archaeologist would have field staff and would assess intermily. The whole site.</p> <p>Archaeology Monitoring: \$5000-25%(economies of scale savings) per day per site, estimated 67 sites.</p> <p>Archaeology Monitoring: \$5000-25%(economies of scale savings) per day per site, 14 municipal properties</p> <p>Environmental Consultant: Build a workplan that conforms to all the environmental regulations. Monitor the work under the regulations and do a report stipulating the work was done according to the regulations. 67 Sites</p> <p>Debris Removal (surface): Moving debris off site and dumping 67 sites \$12,500 per site</p> <p>Remediation Subsurface works 67 sites properties \$22,500 per site</p> <p>Site Service (taking it out or capping): Sewer, water, power 67 Sites \$2,500 per lot</p> <p>Schedule 2 Activities 67 properties (\$10,000 per site)</p> <p>- who holds the umbrella permit (accountability/liability) -demolition permit completion -flow chart to be drafted for insured on process - Heritage Permit approval - mtg with Heritage permitting folks - to flush out the process in more detail - demolitions permits/abatement / mitigation</p>
Uninsured	<p>Archaeologist: 1 can handle the whole site. 5 days a week/10 hour days/6 months. Archaeologist would have field staff and would assess intermily. The whole site.</p> <p>Archaeology Monitoring: \$5000-25%(economies of scale savings) per day per site, estimated 141 sites</p> <p>Debris Removal (surface): Moving debris off site and dumping 14 municipal \$12,500 per site</p> <p>Remediation Subsurface works 14 municipal properties \$22,500 per site</p> <p>Site Service (taking it out or capping): Sewer, water, power 14 Municipal \$2,500 per lot</p> <p>Schedule 2 Activities 14 municipal properties (\$10,000 per site)</p> <p>Debris Removal (surface): Moving debris off site and dumping 141 \$12,500 per site</p> <p>Remediation Subsurface works 141 properties \$22,500 per site</p> <p>Site Service (taking it out or capping): Sewer, water, power 141 properties \$2,500 per lot</p> <p>Schedule 2 Activities 141 properties (\$10,000 per site)</p> <p>Topographical Survey for for planning for remediation (subsurface)</p> <p>· Confirm high-level scope of work for Debris Removal / Remediation & Water Systems · Develop high-level project schedule for Debris Removal / Remediation & Water Systems · Develop high-level budget for Debris Removal / Remediation & Water Systems · Gain better understanding of funding sources for Debris Removal /</p> <p>· Begin procurement for Environmental Consultant / Qualified Professional to represent the Village during the Debris Removal / Remediation</p> <p>· Confirm Engineering support (Urban Systems) to complete water · Mobilize contractor to complete water systems repair/replacement requirements. · Coordinate bi-weekly IPT meetings for Debris Removal / Remediation & Water Systems</p> <p>Environmental Consultant: Build a workplan that conforms to all the environmental regulations. Monitor the work under the regulations and do a report stipulating the work was done according to the regulations. Uninsured 141 properties plus the 14 municipal properties.</p>

Issue #9 - Complexity

- Multiple jurisdictions (Village, Province, Canada, First Nations)
- Promises and salesmen.
- Current legislation and regulations that never contemplated this scenario.
- BCEMS assumes a functioning Local government. (Slave Lake, Wood Buffalo and Merritt had functioning local governments with records and public works.)
- COVID, the Atmospheric river and the biggest snowfall in memory added to the layers of complexity.

Lessons Learned

- **Recovery sucks.** People are traumatized, remediation and rebuilding will never happen fast enough or follow a process that matches expectations. The key is to focus more resources on building more resilient communities.
- **People first,** focus on the immediate needs of those who have been displaced. It is often easier to focus on fixing infrastructure than on people's lives. You will be judged on how well you do both.
- **Asset management and record keeping are crucial.** Attempting to assess the damage with no records or as-builts adds time and money, you will not have either.
- **The reality:** It's hard to build back better when you don't have the funds to build back period. (BC has 42 villages under 500 population)



Acknowledgements

Recovery Team (core)

- Terry Hawes MNP
- Leslie Groulx (former CAO Clearwater)
- James Heigh Colliers
- Jasmine Patrick, Urban Systems
- John Talbot, consultant
- David Marshall, FBC

Provincial Staff (core)

- EMBC
 - Dave Peterson ADM, Jenn Walker, Darlene Clark
- Municipal Affairs
 - Tara Faganello ADM, Michelle Dann, Patrick Thompson

Citations

1. A history of Lytton, from First Nations to the Gold Rush to disastrous fires Barbara Roden Jul. 4, 2021, Ashcroft-Cache Creek Journal
2. (Thompson, Laurence C. and M. Terry Thompson (1996) Thompson River Salish Dictionary. Missoula, Montana: Linguistics Laboratory, University of Montana. (University of Montana Occasional Papers in Linguistics, No. 12).) information provided in September 2014 by Bill Poser.
3. (Stories of Culture and Place: An Introduction to Anthropology, Second Edition, Michael Kenny and Kirsten Smilie, 2017 University of Toronto Press)