Lytton First Nation and Village of Lytton Wildfire Remediation – Contractor's Perspective



Presented By:

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Matcon Environmental



Lytton BC, June 30th 2021 Day of the Fire.



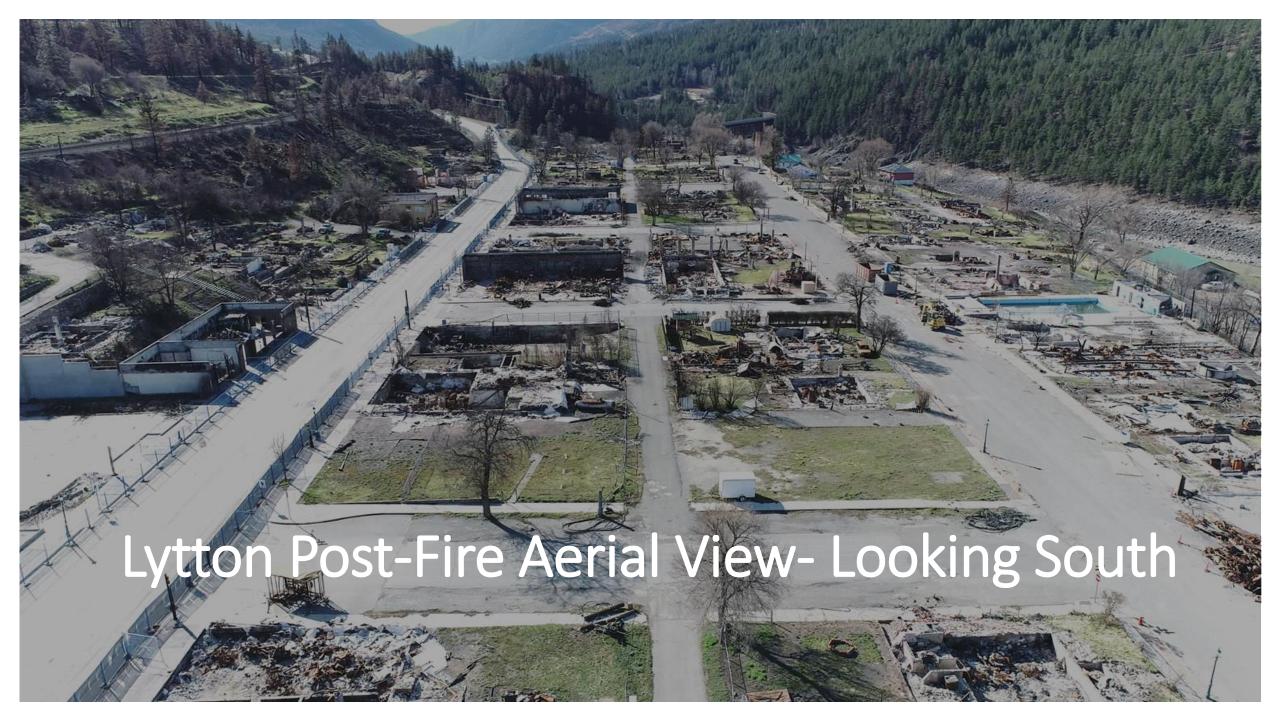




Lytton BC, June 30th 2021





















Remediation Backstory- Early Timeline

- Village Secured- No Entry
- Early Environmental Sampling
 - Limited Sampling Program, Could Not Provide Enough Detail to Create a Remedial Plan (Insurance Companies)
- Federal and Provincially Funded Remediation
- Personal Items Sieved
- Consultant Chosen by LFN- Arcadis
- Project Tender by LFN
- Decision to Complete Sampling and Remediation in Conjunction



Matcon Begins Remediation Jan 17th, 2022



- High Profile Project
- Many Stakeholders (Not All Included)
 - Lytton First Nation
 - Village of Lytton
 - Insurance Bureau BC
 - Interior Health
 - Red Cross
 - BC Hydro
 - Emergency Management BC
 - Ministry of Environmental
 - Kumsheen Heritage Counsel
 - BC Archeological Branch
 - First Nation Health
 - TNRD
 - Telus
 - Environmental Consultants
 - Matcon Environmental







Typical Site Activities

- Homeowner Walk through and Signoff
- Metal Recycling
- Asbestos Debris Abatement and Disposal
- **UST and AST Removal**
- **Utilities Cut & Cap**
- Contamination Soil Remediation (Waste & HW)
- **Archeological Screening**
- **Concrete Recycling**
- Backfilling





Metal Recycling











1,000 MT of Metal Recycled



160 Vehicle Recycled (Slightly Misleading)



Shipped to Lower Mainland For Recycling Via 80 Yard Bins



Asbestos
Debris
Abatement
and
Removal



- ACM Debris Consisted of Ash and Other Burned Debris and Was Assumed by Environmental Consultant to be ACMs
- Lytton Extremely Windy Year Round
- Tackifier Coating Applied to All ACM **Debris**
- 100m3 of Tackifier Applied to ACM Debris by Canadian Erosion and Containment

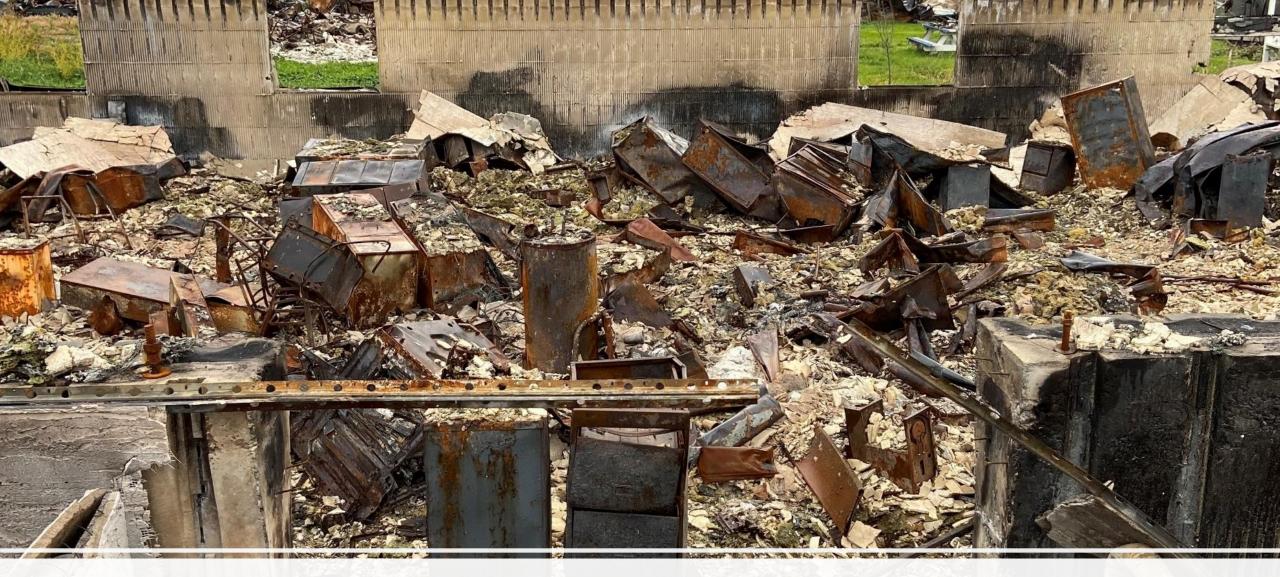






- 12,000MT of ACM was Abated and Moved Offsite in Double-lined Bins or Dump Trucks
- 300 MT Hazardous Waste Lead ACM Debris Abated and Disposed
 - Matcon Stabilized the HW ACM Debris Prior to Shipment Offsite





Site Pre- Metal Removal and ACM Abatement



Site Post-ACM Abatement



UST and AST Removal

- 30 AST Recycled to Propane Company or Metal Recycler
- 12 UST Removed and Contaminated Soil Excavated and Disposed of





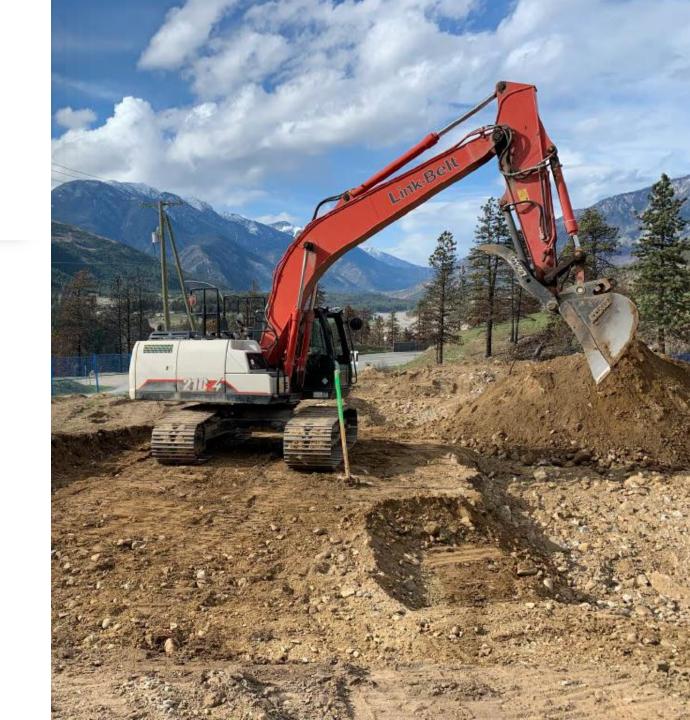
Utility Cutting and Capping

- 200 Properties Cut and Capped
- Sewer and Water Cut and Capped at Each Properties
- Village Left with GPS As-Builts on All Utilities at Curb



Soil Remediation (HW and Waste Level Soils)

- 44,000MT of Waste Quality Soils Excavated and Disposed
- Typical Excavation a 2 Meter by 0.5 Meter Halo Around Burned Building



Hazardous Waste Soil Stabilization



- 1,300 MT Hazardous Waste Soil Excavated, Stabilized and Disposed of
- Stabilization Via Portland
 Cement





Archeological Screening

- Confluence of Fraser and Thompson Rivers
- 10,000 + Years of First Nation Inhabitation
- Assisted Archeologists with Power Screening of Approximately 25,000 MT of Contaminated Soil
- Mid- Screen Soils Hand Screened by up to 30 Archeological Technicians at Any Given Time





Concrete Recycling – 11,000 MT of Concrete Removed, Processed and Recycled







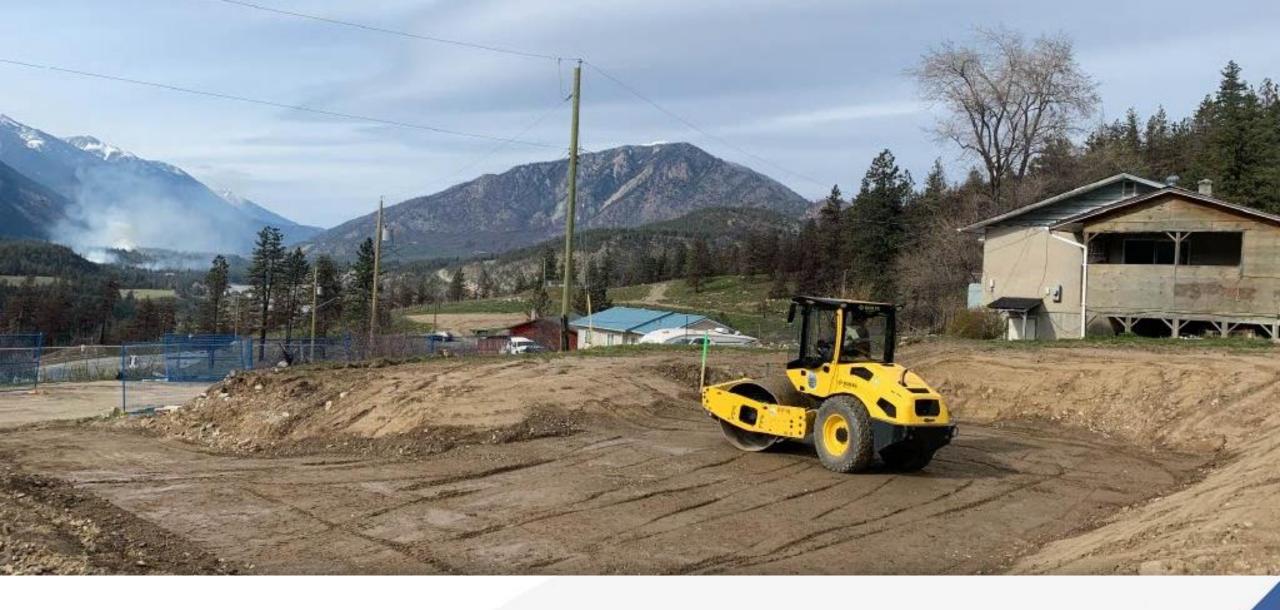


Backfilling

100,000 MT of Backfilled Placed and Compacted

6,000 MT of Lawn and Garden Topsoil Provided for Homeowner Use





Sad Reality





Remediation Complete 2023?

Nearly 2 years after project kick-off backfilling complete

Could the project have gone quicker?

Many processes and roadblocks along the way (another presentation completely)



First Nation Collaboration



Entire Project Completed as a Teaming Partner With the Lytton First Nation

LFN Revenue Share for the Entire Project Budget

15,000 Hours of LFN Labour

4,000 Hours LFN Equipment

80,000MT of LFN Backfilled



Additional First Nation Trucking and Equipment Supplied by

Bridge River Band
Bonaparte First Nation
Skeetchestn Indian Band



Any Questions?

