Phase 1 Green Zone Re-entry Plan
Mitigation Measures
Mitigation Measures since June 2016

Private Security
- 24/7 hour security
- Direct and designated phone line to RCMP
- Roaming patrols throughout all areas of Abasand and Beacon Hill
- Ongoing security check points for restricted areas (areas outside of phase 1)
- Ongoing audit of private security by the Municipality to verify knowledge and compliance and feedback circled back to private security companies

Signage and Speed Mitigation Measures
- Parks and play structures have been clearly marked as open or closed (if closed fencing and/or barriers have been placed)
- Demolition notification signs notifying residents are placed at the entrance and in high traffic areas. For example:
  - ‘entering demolition area’
  - ‘more information available at www.rmwb.ca’
  - ‘reduce speed to 30 km/hr’
- Flashing speed signs along haul routes
- Rumble guards at exits/entrances of demolition areas in Abasand and Beacon Hill (note these are areas outside of the Phase 1 re-entry area)
  - Promotes safety by slowing traffic
  - Limits track out of debris
  - Helps to control particulate matter

Fencing
- Perimeter fencing around all impacted neighborhoods
- Requirement within Demolition Permit conditions to ensure fencing around construction zones

Reinforced Fencing
- Double fencing in areas where anticipated public gathering, high traffic flow or areas which would be frequented by children

Double Tackifier
- Applied to properties front-facing or back-facing to public gathering areas
- Applied to destroyed properties directly adjacent to and in close proximity to standing homes specifically in areas that did not have a significant natural buffer such as a green space.
**AHS Relationship**
- Established a working relationship with AHS staff including Environmental Public Health, Emergency Disaster Management and Mental Health
- Worked in REOC
- Partnered for tours of stakeholders
- Partnered for development of initial CMOH package
- Participation in Situational Report and Planning meetings, specifically Environmental Public Health and Emergency Disaster Management
- Ongoing partnership for ‘pink placards’ as defined below

**Pink Placards**
- Will be posted on doors of front-facing and/or back-facing dwellings to buildings burned or destroyed by the wildfire.
- Will include contact information for Environment Public Health to schedule an inspection with a public health inspector, PULSE line, Community Wellness Line and a statement explaining why a pink placard was received.

**Demolition Permit**
- Contractor competency requirement – COR/SECOR
- Site-specific safety plans
- Site-specific dust control plans
- Site-specific traffic maintenance plans
- Site-specific hazard identification
- Site-specific utilities management plan
- Site cleanup guidelines
- Site close-out requirement
- Distribution of designated haul routes to contractors

**Designated Haul routes**
- Distributed to contractors
- Communicated to Security

**Weekly Utility Coordination Meetings**
- Meetings are coordinated between all utility companies to provide an opportunity for open dialogue, identification of issues and confirmation that servicing is in place

**Parks and Public Spaces Inspection**
- Evaluation of parks, trail systems and community spaces
- Unsafe areas have been marked as closed, barriers have been placed at entrances and
their status open/closed updates are available on the RMWB webpage

- Arborist survey completed

**Potable Water**

- All intact waterlines in Abasand and Beacon Hill have been flushed
- Alberta Health Services lifted the boil water advisory for Abasand and Beacon Hill on August 17, 2016

**Stakeholder Engagements/Tours conducted in the areas of Stone Creek, Wood Buffalo, Abasand and Beacon Hill. Tours included:**

- University of Alberta Faculty Member
- School Boards
- Clergy
- Industry
- Alberta Health Services
- Numerous Business units including Local Medical Officers of Health
- Government of Alberta Departments and Wildfire Recovery Task Force
- Senior Leadership, RMWB
- REOC Team members
- RCMP
- Security Representatives
- Insurance Bureau of Canada

**Established Standard Operating Procedure for Security**

- The Standard Operating Procedure ensures that RCMP, Alberta Sheriffs, Municipal Law Enforcement and Security are all operating on the same premise.
- Designated security check points

**Phased Re-Entry**

- Recognized that mitigation measures cannot be accommodated within all restricted areas of Abasand, Beacon Hill and Waterways
- Identification of Phase 1 and associated mitigation measures. This phase includes clustered households that are buffered and not in close proximity to destroyed properties within Abasand and Beacon Hill
- Identification of Phase 2 and associated mitigation measures. This phase includes smaller and more sporadic clusters of households that are not buffered and in close proximity to destroyed properties within Abasand and Beacon Hill
- Further phases if necessary to be determined
Consultation with Agriculture and Forestry
- Heavy rainfall over the past three months has mitigated some of the risks associated with forest ash in Phase 1 by absorbing into the ground and washing away.

Communication with business/commercial/recreational spaces
- Tracking system in place to monitor clean up and return to operations.

Establishment of transit plan
- A modified transit route is in place to support residents during re-entry into Phase 1. Information and FAQ’s including schedules, maps, contact information will be added to the following link http://www.rmwbc.ca/Municipal-Government/municipal_departments/Public-Operations/Wood-Buffalo-Transit.htm upon approval.
- Collaboration with Industry liaisons to implement a modified plan for transportation to industry worksites outside of the urban service area.

Demonstrated effectiveness of stop work order
- A stop work order was issued by Development Compliance Officers where contractors were not meeting the conditions of the permit; the situation was rectified and the stop work order was lifted.

Full medical services available
- Full medical services, including opening of the Northern Lights Regional Hospital, have been available since June 20, 2016.

Air Quality conditions stabilized in the Regional Municipality of Wood Buffalo
- Air Quality Health Index has been consistently a three or less since June.

Phase 2 Environmental Testing
- Soil sampling was completed in various locations throughout the areas of Abasand and Beacon Hill.
- Contaminants found in soil samples collected between 5-20 cm did not exceed guidance values.
- Concentrations of contaminants were less than the Alberta human health-based guidelines.
Risk Matrix
<table>
<thead>
<tr>
<th>Corresponding Label</th>
<th>Hazard Identification</th>
<th>Risk Description</th>
<th>Mitigation</th>
<th>Validation of Mitigation</th>
<th>Party responsible for mitigation of risk</th>
<th>Gaps/ Next Steps</th>
<th>Related Documents</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Human Relations - The residents are returning to a community that has changed drastically and this may have significant psychosocial impacts.</td>
<td>It is acknowledged that residents returning to these neighborhoods have undergone chronic stress and major impacts to their family functioning and may be experiencing strong emotions in relation to a sense of loss and rebuilding.</td>
<td>1) Welcome Centres will be established in these communities for the first two days of reoccupation. AHS Mental Health staff will be on site to provide written and verbal information as to the resources available in the RMWB. Further, Red Cross will also be on site and can provide verbal and written information to residents regarding the ongoing supports they will provide in the community. 2) Municipal Law Enforcement and private security hired by the RMWB will be on site and conduct roaming monitoring at all times to assist with any security related matters. They have direct contact with REOC Security Liaison, RCMP and Municipal Law Enforcement 3) Municipal Law Enforcement and private security have developed a strong working relationship with the RCMP and will defer to them when appropriate. 4) Re-entry packages will be provided to each home prior to re-entry, which includes information on how to access psychosocial supports 5) The PULSE line will continue to be manned in effort to link concerned residents with resources. 6) Mental and Emotional Support workers wear pink lanyards to identify themselves within the community. The significance of the pink lanyards has been communicated to residents 7) Psychosocial programs are being implemented</td>
<td>1) The RMWB will work with the RCMP to track the frequency of calls to the reoccupied neighborhoods to track frequency/severity of incidences. 2) The PULSE line (staffed by RMWB staff) continually captures FAQs and provides that information to REOC Communications to provide up-to-date information as new questions arise.</td>
<td>RMWB, RCMP, AHS, Security company, PULSE line staff</td>
<td>1) RMWB will track incidents encountered by security and the RCMP related to readjustment, psychosocial well-being and family functioning and will create a plan for addressing specific incidences as they arise. 2) The PULSE line staff link in to the daily RMWB situational awareness process to ensure there is an awareness of frequently arising topics/concerns brought forward by residents.</td>
<td>• AHS “Returning to your Home”  • Re-Entry Booklet  • Pink Lanyards</td>
</tr>
<tr>
<td>Corresponding Label</td>
<td>Hazard Identification</td>
<td>Risk Description</td>
<td>Mitigation</td>
<td>Validation of Mitigation</td>
<td>Party responsible for mitigation of Risk</td>
<td>Gaps/ Next Steps</td>
<td>Related Documents</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------------------</td>
<td>------------------</td>
<td>------------</td>
<td>--------------------------</td>
<td>----------------------------------------</td>
<td>----------------</td>
<td>------------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td>one re-entry area as well as the designated haul routes and perform additional street sweeping as necessary. 7) The “AHS Living Safely in Neighbourhoods During Fire Demolition and Remediation” document will be distributed to residents in various methods including; hard copy distribution in ‘Welcome Packets’, web availability, Welcome Centers information stations and Community Information Meeting. Information in the document has a number of options available to help residents protect their health. 8) Contractors must notify adjacent properties of demolition work as per the demolition permit. 9) Silt socks have been placed around all storm drains and an ongoing monitoring program has been implemented. The program includes an established communications process between the contractor and RMWB Underground Services. 10) The playground structures and surface areas which are included in phase one re-entry in Abasand and Beacon Hill have been cleaned three times and will have a fourth cleaning prior to re-entry of residents.</td>
<td>re-entry. 3) The Wood Buffalo Environmental Association operates a network of permanent air quality monitoring stations in the area. Monitoring results will be relayed to the RMWB 4) Safety compliance officers will issue stop work orders in the event of a violation of the demolition permit. Work will not continue until the contractor has proven they can meet the requirements. 5) Commercial vehicle enforcement will report and fine any unsafe or improperly covered loads being removed from these areas. 6) Residents can call the PULSE line for information and report concerns/noncompliance issues. Compliance vehicle enforcement officers, safety compliance officers, local police and security patrol officers are available to respond to these issues.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Corresponding Label</td>
<td>Hazard Identification</td>
<td>Risk Description</td>
<td>Mitigation</td>
<td>Validation of Mitigation</td>
<td>Party responsible for mitigation of Risk</td>
<td>Gaps/ Next Steps</td>
<td>Related Documents</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------------------</td>
<td>------------------</td>
<td>------------</td>
<td>-------------------------</td>
<td>----------------------------------------</td>
<td>-----------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>2</td>
<td>Structural ash</td>
<td>Potential Hazards - chemical, physical Structural ash is the remnants of the damaged structures (e.g. homes and vehicles). This ash may contain chemical hazards at levels above health-based screening guidelines, with the potential for the presence of certain physical health hazards (e.g., silica or asbestos).</td>
<td>Ash samples from the communities of Abasand, Beacon Hill and Waterways showed concentrations of dioxins, furans, metals, and polycyclic aromatic hydrocarbons were present that exceeded Alberta's Tier 2 Human Direct Soil Contact guidelines. The risk to returning residents is that they could be exposed to these chemicals by inhaling and/or touching the ash during demolition activities. It is acknowledged that in the two neighbourhoods of Abasand and Beacon Hill the volume of structural ash is elevated based on the total properties lost in each neighborhood (Abasand (1164) and Beacon Hill (476)).</td>
<td>1) Demolition permit application requirements include ash/fugitive dust control management plan (example: wetting the ash). The Construction Association, Alberta Transportation and members of industry were consulted in determining the best method; wetting the ash is an industry standard can easily be monitored and is readily available. 2) Clear signage at the entry of these areas to alert the public to potential ash and construction zone as well as informing the public where they can get more information regarding the demolition activities, safety information as well as reporting processes for non-compliance or concerns (PULSE line). 3) Speed limits along haul routes have been reduced to 30 km/hr. to avoid stirring up resting ash. Speeds will be monitored and enforced by security personnel and Municipal Law Enforcement. 4) Rumble guards will be placed at the exit of the secured demolition areas. These rumble guards limit the debris transported onto public roadways, promote safety by slowing traffic and help to control particulate matter. 5) All loads of ash/materials must be covered when being transported out as per demolition permit stipulation 6) Street cleaning will be done as per a contractor's demolition permit; each contractor is responsible for cleaning debris/dust/dirt/ash from public spaces which would be identified in traffic accommodation and road maintenance plan. In addition to the contractor responsibility the RMWB field operations will perform daily inspections of the phase</td>
<td>1) Mobile private security employees, under the direction of the RMWB Corporate Security Manager, will monitor all aspects of the hauling of debris and report all unsafe activities to their supervisor, who will subsequently report these actions and/or conditions to RMWB Corporate Security Manager. Third party audits are being conducted on the private security patrols on a random basis. The results from the audits are relayed to the RMWB Corporate Security Manager for immediate corrective action. 2) Air monitoring devices (EBAM) have been placed in two locations within Abasand and Beacon Hill, the monitors provide hourly information and email notification if the air quality exceeds the established variance. RMWB has a designated email account which is monitored by project leads for the phase one</td>
<td>Security &amp; Municipal Law Enforcement will conduct roaming security checks and ongoing testing throughout demolition will be conducted by RMWB/OHS/Provincial Transportation Officers 3) Residents can call the Pulse line to report any issues with ash. 2) A dedicated phone line has been established for private security to have improved response time to the Municipal Law Enforcement and RCMP resources. 3) Designated haul routes have been established to limit or eliminate debris removal traveling through the proposed phase 1 areas.</td>
<td>1) Demolition permit information package: <a href="http://asset.rmwba.ca/files/Demolition-Information-Package.pdf?160725">http://asset.rmwba.ca/files/Demolition-Information-Package.pdf?160725</a> 2) Contractor demo permit risk assessment as part of the permit application: <a href="http://asset.rmwba.ca/files/Demolition-Information-Package.pdf?160725">http://asset.rmwba.ca/files/Demolition-Information-Package.pdf?160725</a> 3) AHS Living Safely in Neighbourhoods During Fire Demolition and Remediation: <a href="http://www.albertahealthservices.ca/assets/wf/eph/wf-eh-living-neighbourhood-fire-demolition.pdf">http://www.albertahealthservices.ca/assets/wf/eph/wf-eh-living-neighbourhood-fire-demolition.pdf</a> 4) SPECS Due Diligence Downwind Monitoring During Debris Removal Program: <a href="https://www.specs.ca/blog/fort-mcmurray-demolition">https://www.specs.ca/blog/fort-mcmurray-demolition</a> 5) Order to Remove Damaged, Destroyed and/or Abandoned Vehicles: Available Upon Request</td>
</tr>
<tr>
<td>Corresponding Label</td>
<td>Hazard Identification</td>
<td>Risk Description</td>
<td>Mitigation</td>
<td>Validation of Mitigation</td>
<td>Party responsible for mitigation of risk</td>
<td>Gaps/ Next Steps</td>
<td>Related Documents</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------------------</td>
<td>------------------</td>
<td>------------</td>
<td>--------------------------</td>
<td>----------------------------------------</td>
<td>-----------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>3</td>
<td>Forest Ash</td>
<td>Potential Hazard - chemical, physical</td>
<td>Due to the extent of the wildfire, forest ash has settled in areas of Fort McMurray. Residents may come in contact with this hazard as they return to their homes as it may become airborne during demolition activities. However, there were no burned trees in the proposed Phase 1 re-entry area. Recent heavy rain has mitigated some airborne forest ash in the area. Further, as forest ash samples did not exceed any of the Alberta Tier 2 Human Direct Soil Contact Guidelines, therefore, the health risk has been deemed as low.</td>
<td>1) Parks and public spaces have been cleaned and sanitized or marked as closed and fenced off. Public can access a listing of open or closed areas via the RMWB website 2) In consultation with Agriculture and Forestry it was noted that health risks associated with the naturally occurring forest ash that is a result of the fire event have been naturally mitigated based on the rainfall in the region. The ash would have been wetted to a point that it is being naturally absorbed into the ground. 3) Demolition permit application submission requirements include ash/dust control as part of the site cleanup plan (example: wetting the ash). The Construction Association, Alberta Transportation and members of industry were consulted in determining the best method; wetting the ash is an industry standard can easily be monitored and is readily available. 4) There is clear signage at the entry of these neighborhoods to alert public to potential ash and construction zone risks. 5) Speed limits in the restricted areas have been reduced to 30 km/hr avoid stirring up resting ash during demolition hauls. 6) All loads of ash/materials must be covered when being transported out as per demolition permit stipulation. 7) Street cleaning will be done as per a contractor’s demolition permit; each contractor is responsible for cleaning debris/dust/dirt ash from public spaces which would be identified in traffic accommodation and road maintenance plan. In addition to the contractor responsibility the RMWB field operations will perform daily inspections of the phase one re-entry area as well as the designated</td>
<td>1) Mobile private security patrol will record and report unsafe actions and conditions to their supervisor, who will subsequently report 2) Green spaces and vegetation on public and private property remain intact in many areas and as such serve as a natural barrier of buffer for forest ash, dust and debris 3) The Wood Buffalo Environmental Association operates a network of permanent air quality monitoring stations in the area. Testing results are updated online 4) Commercial vehicle enforcement will report and fine any unsafe or improperly covered loads being removed from these areas. 5) Safety compliance officers will issue stop work orders in the event of a violation of the demolition permit. Work will not continue until the contractor has proven they can meet the requirements. 6) Residents can call the Pulse line for</td>
<td>RMWB/Contactors</td>
<td>1) Residents can call the Pulse line to report any issues with forest ash.</td>
</tr>
<tr>
<td>Corresponding Label</td>
<td>Hazard Identification</td>
<td>Risk Description</td>
<td>Mitigation</td>
<td>Validation of Mitigation</td>
<td>Party responsible for mitigation of risk</td>
<td>Gaps/ Next Steps</td>
<td>Related Documents</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------------------</td>
<td>------------------</td>
<td>------------</td>
<td>-------------------------</td>
<td>----------------------------------------</td>
<td>-----------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>4</td>
<td>Falling/fallen trees Potential Hazard - physical</td>
<td>The wildfire damaged many trees in and around Fort McMurray, including in and around spaces that people could have access to within the Phase 1 re-entry areas. Fallen trees (or trees that are damaged and could fall) present a potential risk of injury, including: a) damaged foliage falling on a building, vehicle, or person resulting in injury; or b) fallen foliage presenting a tripping/ slipping hazard that results in injury.</td>
<td>haul routes and perform additional street sweeping as necessary. 8) The “AHS Living Safely in Neighbourhoods During Fire Demolition and Remediation” document will be distributed to residents. 9) Contractors must notify adjacent properties of demolition work as per the demolition permit. 10) Sediment catch basins/silt socks have been placed in all storm drains in the Neighbourhoods of Abasand and Beacon Hill - the catch basin filters were placed by a contractor and an ongoing monitoring program has been implemented. The program includes an established communications process between the contractor and RMWB Underground Services. 11) Residents will be given information from AHS outlining a number of options available to help protect their own health while living in a neighbourhood during fire demolition and remediation.</td>
<td>information and report concerns/noncompliance issues. Compliance vehicle enforcement officers, safety compliance officers, local police and security patrol officers are available to respond to these issues.</td>
<td>RMWB/Parks Canada</td>
<td>1) Residents can call the Pulse line to report any fallen/falling trees. 2) Private Security, RMWB Operations Field Employees, Municipal Law Enforcement and Safety Codes Officers would provide ongoing and active field assessments for safety concerns.</td>
<td>RMWB/Parks Canada</td>
</tr>
</tbody>
</table>

- Online presence to show location of closures: [http://www.rmwb.ca/Municipal-Government/municipal_departments/Public-Operations/Parks---Trails/Parks_OutdoorRecreation.htm](http://www.rmwb.ca/Municipal-Government/municipal_departments/Public-Operations/Parks---Trails/Parks_OutdoorRecreation.htm)
The RMWB Parks Department and safety code officers have completed an assessment of trees in the proposed Phase 1 re-entry area. The area itself did not have a direct impact from the fire; fire-damaged foliage is not present. There is fire-damaged foliage along entry routes, however; those trees have been assessed and deemed safe. Each home in the phase one re-entry area has had a rapid damage assessment completed by an RMWB Safety Codes officer; the assessment was specifically focused on the exterior of the homes and any risk identified on the property such as fallen trees would have been identified.

The volume of expected demolition activities is not expected to impact this risk as the phase one area green space at the rear of homes has already been cleared to provide a fire safe buffer in order to protect residents.

2) Trail Systems have been clearly marked as closed and fenced to restrict the public from entering forested areas that were impacted in the surrounding area.

3) Trees in open areas and public spaces/trails have been assessed, downed trees have been removed and standing trees will be monitored by parks and safety code officers.

hazards within the restricted areas and has assisted home owners to remove dangerous trees in their area

- Rapid damage assessment of each property completed by Safety Codes Officers: http://firemap.rmwb.ca/Contract with arbor company: Available Upon Request
<table>
<thead>
<tr>
<th>Corresponding Label</th>
<th>Hazard Identification</th>
<th>Risk Description</th>
<th>Mitigation</th>
<th>Validation of Mitigation</th>
<th>Party responsible for mitigation of risk</th>
<th>Gaps/Next Steps</th>
<th>Related Documents</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Potable Water - Potable water has been restored to the communities of Abasand and Beacon Hill.</td>
<td>A Boil Water Advisory was in place, it is now lifted, and as such there is potential risk that residents are unaware of proper methods to flush their personal property lines. It is noted that upon lifting boil advisories in other neighborhoods, there have been no recorded issues from residents concerning their water.</td>
<td>1) Information is available to residents outlining the steps to take before using the water in your home after a boil water advisory has been lifted: (<a href="http://www.rmwb.ca/News-Room/RMWB-Wildfire-Information/Status--Boil-Water-Advisory.htm">http://www.rmwb.ca/News-Room/RMWB-Wildfire-Information/Status--Boil-Water-Advisory.htm</a>) 2) Residents are able to call the Pulse Line if they have questions or concerns regarding water.</td>
<td>1) The RMWB has flushed all intact waterlines in Abasand and Beacon Hill. Alberta Health Services (AHS) has confirmed that water quality has been restored to a safe level.</td>
<td>RMWB/AHS/AEP</td>
<td>1) Residents can call the Pulse line to report any issues with potable water.</td>
<td>•Boil-Water Advisory Status: <a href="http://www.rmwb.ca/News-Room/RMWB-Wildfire-Information/Status--Boil-Water-Advisory.htm">http://www.rmwb.ca/News-Room/RMWB-Wildfire-Information/Status--Boil-Water-Advisory.htm</a></td>
</tr>
<tr>
<td>6</td>
<td>Gas Cylinders/Vapours Potential Hazards - chemical, physical During the demolition period in these neighbourhoods there is a potential that gas cylinders may be disturbed or vapours may be released.</td>
<td>Vapours may be trapped under layers of debris in destroyed areas. Gas or pressurized cylinders may be present in the debris and could present a risk of explosion. This is a safety risk during demolition activities as these gases could be toxic or cause physical harm. It should be noted that gaseous vapours are light enough to escape ash and debris without being disturbed.</td>
<td>1) Recreation areas have been closed in areas near where demolition activities will take place. 2) Demolition permits stipulate that contractors must be certified to remove these types of materials and can do so safely. Permit conditions required a COR or SECOR certified contractor; this certification is a qualifying mechanism recognizing that the contractor has been evaluated by a certified auditor and meets provincial standards. 3) Designated haul routes were established specifically with phase one re-entry in mind; the intention was to provide designated routes to ensure the safety of those working and living in the demolition areas. 4) A utility management plan has been created for each site (through each demolition permit) to avoid gas leaks. 5) Utility management meetings are hosted by the RMWB weekly to ensure clear communication. 6) Extensive discussions occurred with industry experts on propane tanks and City of Edmonton Fire Department Chief Special</td>
<td>1) Private security, safety enforcement officers, and transportation compliance officers will be in the demolition areas and will be able to report and stop work if gas cylinders or vaporous materials are being handled incorrectly as per the demolition permit. 2) Ongoing meetings with each utility provider have allowed for ongoing monitoring of mitigation measures and have established a standard communications process.</td>
<td>RMWB/Contractors</td>
<td>1) Residents can call the pulse line if they have concerns or see cylinders they need to be removed.</td>
<td>•Demolition permit information: <a href="http://www.rmwb.ca/News-Room/RMWB-Wildfire-Information/Rebuilding-the-Community/Demolition-Permitting.htm">http://www.rmwb.ca/News-Room/RMWB-Wildfire-Information/Rebuilding-the-Community/Demolition-Permitting.htm</a>  •Haul routes map (see attached maps)  •Utility management plan (site specific plans)</td>
</tr>
<tr>
<td>Corresponding Label</td>
<td>Hazard Identification</td>
<td>Risk Description</td>
<td>Mitigation</td>
<td>Validation of Mitigation</td>
<td>Party responsible for mitigation of risk</td>
<td>Gaps/ Next Steps</td>
<td>Related Documents</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------------------</td>
<td>-----------------</td>
<td>------------</td>
<td>--------------------------</td>
<td>----------------------------------------</td>
<td>-----------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Water Damaged Basements Potential Hazards - chemical, biological</td>
<td>Recent heavy rain and firefighting mitigation may have caused some basements of fire-damaged homes to flood. These areas have experienced backed up basements previously during heavy precipitation events.</td>
<td>Operations to ensure hazards relating to propane tanks are limited during debris removal through visual inspections and hazard identification checklists</td>
<td>1) Residents have access to extended hours for the dump to remove household goods. Tipping fees have been waived for residents. 2) Residents may access the Bagster program (a waste management program) to remove damaged goods due to flooding. The municipality will deliver and pick up the waste free of charge and dispose of it in accordance with waste legislation. This information will be available at the welcome centre and in the re-entry packet. 3) HVAC trucks are available and readily accessible to remove water from basements at no charge to residents. The wet debris will be disposed of in accordance to waste legislation. 4) Pre-established messaging for flooding has been developed due to recent flooding events in the area and is available on the RMWB website. 5) The PULSE line is available for residents to report basement backups during storms. 6) Insurance Bureau of Canada is available locally to provide insurance assistance to residents in the event of backed up basements. 7) Silt socks have been placed around catch basins to mitigate debris entering and clogging the drainage system. 8) RMWB will monitor weather events to prepare for any heavy rainfalls. Preparation will include extra staffing for PULSE line and confirmation that HVAC trucks are on standby.</td>
<td>1) The PULSE line is available for residents to report flooded basements or to request information about other flooding supports. 2) HVAC trucks are available and readily accessible to remove water from basements at no charge to residents. The wet debris will be disposed of in accordance with waste legislation.</td>
<td>RMWB/Contractors/Insurance</td>
<td>1) An increase in demolition activities is not expected to increase the likelihood of basement flooding. 2) Residents can call the PULSE line to report any flooded basement issues. 3) A recent flooding event in the RMWB was quickly mitigated and the REOC was reactive to assist with clean up from this event.</td>
<td>• The following information is available to the public: Information regarding basement back up and flooding is available <a href="http://www.rmwb.ca/News-Room/How-to-Respond-to-Basement-Flooding.htm">http://www.rmwb.ca/News-Room/How-to-Respond-to-Basement-Flooding.htm</a> • Information regarding household cleanup after a flooding event is availablehttp://www.albertahealthservices.ca/Advisories/needle-cleaning-house.pdf</td>
</tr>
<tr>
<td>Corresponding Label</td>
<td>Hazard Identification</td>
<td>Risk Description</td>
<td>Mitigation</td>
<td>Validation of Mitigation</td>
<td>Party responsible for mitigation of risk</td>
<td>Gaps/ Next Steps</td>
<td>Related Documents</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------------------</td>
<td>------------------</td>
<td>------------</td>
<td>--------------------------</td>
<td>---------------------------------------</td>
<td>----------------</td>
<td>------------------</td>
</tr>
<tr>
<td>8</td>
<td>Utilities</td>
<td>Potential Hazards - physical, social</td>
<td>All utilities companies have confirmed that they are able to provide all services for the proposed Phase 1 re-entry area upon determination of a re-entry date. There is a risk that services may be disrupted during demolition activities if the contractors fail to shut down services properly during construction.</td>
<td>1) A utilities management plan is required as a condition for each demolition permit. Each utility provider must sign off on the disconnection of utilities prior to demolition occurring. 2) The RMWB has cut and proactively cut and capped the utilities that are connected to the main line services in Abasand and Beacon Hill; this helps to isolate the possibility of disruption of services during ongoing demolition activity 3) At the end of the permit, the contractor must demonstrate that the utilities are properly capped and the utilities plan was followed. 4) There is a weekly utilities meeting with relevant stakeholders to ensure communication lines are flowing and information is being shared. 5) It has been confirmed by the utility provider that they are able to resume service to residents in the areas proposed for Phase 1 re-entry.</td>
<td>1) Utility companies will be present at the welcome center 2) There will be a roaming relight program. Residents can place a placard in their window to indicate they need a re-light. 3) Utility information is available in the re-entry package</td>
<td>Utility Companies - ATCO Electric, ATCO Gas, Shaw, Telus, RMWB Engineering</td>
<td>1) Residents can call the PULSE line to report any issues with utilities. 2) Residents may also call their service provider for repairs and response.</td>
</tr>
<tr>
<td>Corresponding Label</td>
<td>Hazard Identification</td>
<td>Risk Description</td>
<td>Mitigation</td>
<td>Validation of Mitigation</td>
<td>Party responsible for mitigation of risk</td>
<td>Gaps/ Next Steps</td>
<td>Related Documents</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------------------</td>
<td>------------------</td>
<td>------------</td>
<td>--------------------------</td>
<td>----------------------------------------</td>
<td>-----------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>Destroyed Vehicles</td>
<td>- It is noted that there are no fire damaged vehicles within the green zones of these two communities. However, there are damaged vehicles within the restricted areas behind the perimeter fencing of these communities. These areas are restricted and manned by security.</td>
<td>Considering that access to restricted areas are manned by security, the risk to returning residents is minimal. Further, a Vehicle Removal Plan for the sections that are proposed as remaining restricted has been developed. Any burnt vehicles parked on the street following the fire have been removed. Any other burnt vehicles are outside the Phase 1 re-entry areas and are within the fenced areas</td>
<td>As the Phase 1 re-entry area has not been directly impacted from the fire, the identified risk is not present in these spaces. Municipal Law Enforcement verified burnt vehicles were not present in these neighborhoods on August 5, 2016. However, there are plans in place to mitigate the risk of the damage vehicles within the restricted areas: 1) A Vehicle Removal Plan (VRP) has been developed, which includes working with the insurance companies to ensure a claim form is completed, tow companies are granted access to remove vehicles, enforcement of safety requirements (vehicles covered for transport) and vehicles will be directed to a mobile crushing station or to one of the existing crushing locations in RMWB. Vehicles without insurance or where the owner or insurance company cannot be located will be removed by the RMWB and towed to a designated storage lot. 2) The restricted areas that contain damaged vehicles is manned 24 hours a day by security and as such, returning residents would not have access to be in close proximity. 3) Further, the vehicles in the restricted areas have been fenced and tarped to prevent airborne contaminants while they are being removed from the community and from being disturbed by residents. This approach has significantly mitigated the risk to human health.</td>
<td>1) These vehicles will be under ongoing monitoring by Municipal Law enforcement and private security hired by the RMWB 2) Municipal Law Enforcement and private security will continually monitor the fencing and tarping to ensure the vehicles remain secure.</td>
<td>RMWB, IBC</td>
<td>1) If the timelines associated with the VRP are not met, physical risks to residents will be mitigated through continual monitoring of these vehicles by private security contracted by the Municipality and Municipal Law Enforcement and continued manning of restricted areas.</td>
<td>• Municipal Law Enforcement confirmed there are no burned vehicles in these neighborhoods on August 5, 2016.</td>
</tr>
<tr>
<td>Corresponding Label</td>
<td>Hazard Identification</td>
<td>Risk Description</td>
<td>Mitigation</td>
<td>Validation of Mitigation</td>
<td>Party responsible for mitigation of risk</td>
<td>Gaps/ Next Steps</td>
<td>Related Documents</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------------------</td>
<td>------------------</td>
<td>------------</td>
<td>--------------------------</td>
<td>----------------------------------------</td>
<td>-----------------</td>
<td>------------------</td>
</tr>
<tr>
<td>10</td>
<td>Availability of Essential Services and Community Space</td>
<td>This hazard refers to how residents of Abasand and Beacon Hill will access essential services such as groceries and transit, as well as the availability of public spaces to gather (e.g. community centers, spiritual spaces, and athletic spaces).</td>
<td></td>
<td>1) Contact with each business to confirm their ability or limitation to re-opening 2) Back to Business Resource Centre open to support businesses</td>
<td>RMWB/AHS</td>
<td>1) Public Outreach to businesses that are not available for re-opening on re-entry day 2) Small and Medium Business Financial Support Available</td>
<td>• Transit route through Abasand and Beacon Hill: <a href="http://www.rmwb.ca/Municipal-Government/municipal_departments/Public-Operations/Wood-Buffalo-Transit.htm">http://www.rmwb.ca/Municipal-Government/municipal_departments/Public-Operations/Wood-Buffalo-Transit.htm</a></td>
</tr>
<tr>
<td>11</td>
<td>Public Buildings/Space (Destroyed Carwash in Abasand, Simons &amp; Lucas Park in Abasand, Ecole Boreal in Abasand, Good Shepherd School in Beacon Hill) - A number of public buildings and spaces were either fire damaged or in close proximity to extensive fire damage.</td>
<td>Initially risk was identified for these public buildings and spaces as they were recognized as areas within Phase 1 re-entry and could potentially be used as public gathering places or areas regularly frequented. These buildings and spaces have been encircled or have protective barrier placed to mitigate physical harm to residents.</td>
<td></td>
<td>1) Destroyed structures have been encircled by fencing and have been sprayed with a second application of tackifier. 2) Double fencing has been placed as a physical barrier on the side of the public buildings that share a border with a destroyed property 3) Parks and outdoor recreation areas which have been inspected by safety codes officers and deemed unsafe for use have been indicated as closed on the Municipal website and have signs at their entrance points stating their closure. 4) Parks and outdoor recreation areas which have been inspected by safety codes officer and deemed safe for use have been listed as open on the Municipal website and have signs at their entrance points stating they are open for use.</td>
<td>RMWB</td>
<td>1) Structures deemed unsafe for use will continue to be monitored by private security, municipal law enforcement, field safety officers and municipal operations field teams to ensure the fencing and signage remain in place and continue to provide the barrier of safety for residents. 2) As these public buildings, parks and outdoor recreation spaces are remediated, inspected by safety codes and deemed safe for use, the municipal website will be updated, fencing will be removed and appropriate ‘open for use’ signs will be placed.</td>
<td>• Parks and Recreation Areas: <a href="http://www.rmwb.ca/Municipal-Government/municipal_departments/Public-Operations/Parks---Trails/Parks_OutdoorRecreation.htm">http://www.rmwb.ca/Municipal-Government/municipal_departments/Public-Operations/Parks---Trails/Parks_OutdoorRecreation.htm</a></td>
</tr>
<tr>
<td>Corresponding Label</td>
<td>Hazard Identification</td>
<td>Risk Description</td>
<td>Mitigation</td>
<td>Validation of Mitigation</td>
<td>Party responsible for mitigation of risk</td>
<td>Gaps/ Next Steps</td>
<td>Related Documents</td>
</tr>
<tr>
<td>---------------------</td>
<td>-----------------------</td>
<td>------------------</td>
<td>------------</td>
<td>--------------------------</td>
<td>----------------------------------------</td>
<td>-----------------</td>
<td>------------------</td>
</tr>
<tr>
<td>12</td>
<td>Transport Routes/Demolition Areas - It is acknowledged that the transport routes that will be used while hauling debris out of Abasand will cross through the proposed reoccupied area.</td>
<td>The risk of this hazard is that debris may enter into the reoccupied area (e.g. dust, physical debris) and may pose physical and/or health risks.</td>
<td>1) It is noted that during removal of debris from these neighborhoods, it is required that the loads be wet, securely covered and reduced speed zones adhered to, to ensure minimal risk of debris. 2) Modified transit routes and designated haul routes have been established.</td>
<td>1) Residents can report improper transportation to the PULSE line. 2) Continual roaming security by private security hired by RMWB and Municipal Law Enforcement will be done to monitor compliance with haul route requirements and may issue stop-work orders if found to be non-compliant.</td>
<td>RMWB/Transit</td>
<td>1) RMWB may restrict parking if route is found to have heavy traffic to ensure good flow of traffic movement.</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Residents front-facing/in close proximity to destroyed property (Physical, Chemical Hazards) - Residents in close proximity or front-facing homes with extensive damage may be exposed to physical and psychosocial hazards at a higher level than residents farther from the fire-damaged homes and structures.</td>
<td>Residents may have concerns given the proximity of homes to destroyed properties. While the number of front facing homes has been limited in Phase 1, some homes do front-face onto destroyed properties. This risk was identified in the original recommendations by the CMOH to ensure that residents have an opportunity for a thorough risk assessment of their home.</td>
<td>1) Pink placards will be placed on residences that are front facing to destroyed properties, the purpose of the placards will advise why it was received and reassure that there may not be anything wrong with the house but that an inspection service is advisory. These placards provide the resident the opportunity for Environmental Public Health (EPH) to perform an inspection of their property considering their closer proximity to damaged homes. The inspection is a visual inspection and will not offer environmental testing. 2) Contractors must notify adjacent properties of demolition work as per the demolition permit; neighbours in adjacent homes behind, beside and across from destroyed properties. 3) Catch basin silt socks have been placed around storm drains in the neighbourhoods of Abasand and Beacon Hill. 4) Residents will be provided with Alberta Health Services' information document &quot;Living Safety in Neighbourhoods During Fire Demolition &amp; Remediation&quot;, the document has a number of options available to 1) Placement of placards and distributing the Re-Entry package door to door by RMWB Municipal Operations Department prior to re-entry of the residents. 2) Recovery team is in regular contact with AHS regarding residents who may not be in pink placard homes, and direct phone calls are made to these residents by Recovery staff. 3) The PULSE line (staffed by RMWB staff with a variety of backgrounds) continually captures FAQs and links in the RMWB staff to provide up to date information as new questions arise.</td>
<td>RMWB/AHS</td>
<td>1) Psychosocial programs are being created to support residents. 2) Placement of placards and distributing the Re-Entry package door to door by RMWB Municipal Operations Department prior to re-entry of the residents. 3) Recovery team is in regular contact with AHS regarding residents who may not be in pink placard homes, and direct phone calls are made to these residents by Recovery staff. 3) The PULSE line (staffed by RMWB staff with a variety of backgrounds) continually captures FAQs and links in the RMWB staff to provide up to date information as new questions arise.</td>
<td>• Pink Placard; will provide information regarding the where to contact for an EPH inspection: Available Upon Request • AHS Living Safely in Neighbourhoods During Fire Demolition and Remediation: <a href="http://www.albertahealthservices.ca/assets/wf/eph/wf-eh-living-neighbourhood-fire-demo.pdf">http://www.albertahealthservices.ca/assets/wf/eph/wf-eh-living-neighbourhood-fire-demo.pdf</a></td>
<td></td>
</tr>
<tr>
<td>Corresponding Label</td>
<td>Hazard Identification</td>
<td>Risk Description</td>
<td>Mitigation</td>
<td>Validation of Mitigation</td>
<td>Party responsible for mitigation of risk</td>
<td>Gaps/ Next Steps</td>
<td>Related Documents</td>
</tr>
<tr>
<td>---------------------</td>
<td>----------------------</td>
<td>------------------</td>
<td>------------</td>
<td>------------------------</td>
<td>-----------------------------------------</td>
<td>-----------------</td>
<td>------------------</td>
</tr>
<tr>
<td></td>
<td>residents to protect their health. 5) Welcome Centers will be established in these communities for the first two days of reoccupations. AHS Mental Health staff will be on site to provide written and verbal information as to the resources available in the RMWB. Further, Red Cross will also be on site and can provide verbal and written information to residents as to the ongoing supports they will provide in the community. 6) The PULSE line will continue to be manned in effort to link concerned residents with resources.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


Risk Executive Summaries
Human Relations

Risk Description:
While Phase 1 areas have not been directly impacted by fire, returning residents may experience a high level of stress, anxiety and other emotional challenges due to the physical nature of their neighbourhoods. While their home is still standing, a friend’s or neighbour’s home may not be intact.

Mitigation Measures:
On top of the existing supports that residents may have through their employment or other means, the following mitigations have been established to help address the emotional challenges of residents as they return to the Phase 1 areas:

- Prior to re-entry, an orientation/information session will be held with the residents of homes in the eligible areas. The information session will provide an opportunity for questions to be asked and for information to be given to help alleviate concerns that residents may have.
- Welcome packages will be delivered to each home prior to re-entry. These packages will include information on the psycho-social supports that are available to them through a variety of government and non-government organizations.
- Welcome Centres will be established in these communities for the first two days of re-entry. AHS mental health staff will be on site to provide written and verbal information on the services that are locally available. Red Cross representatives will also be on site to provide similar information as required.
- Messaging will be placed throughout Phase 1 areas on electronic and printed signs.
- The Pulse Line will continue to be staffed to help link residents with the resources they require.
- Municipal Law Enforcement and private security personnel will be conducting roaming patrols to assist in any security related matters.
- Psychosocial programs are being implemented.

The mitigation measures listed above will be validated by the number, type and frequency of calls received by the Pulse Line, Municipal Law Enforcement, and the RCMP. Pulse Line staff are linked into the daily RMWB situational awareness process to share information regarding frequently arising topics/concerns brought forward by residents. Private security personnel fill out incident report logs. These logs are reviewed by municipal staff and assessed for common themes and gaps that need to be addressed. Psychosocial well-being and family/relationship concerns are part of this and plan that will be created to address specific incidences as they arise.

List of relevant supporting documents:
- Re-entry Information Booklet (available to public - http://www.rmbw.ca/Assets/Departments/Communication/RMWB+Re-Entry+Information+Booklet.pdf)
Ash, Dust and Debris from Damaged Structures

Risk Description:

- Ash, dust and debris were created by the fire and will be disturbed during clean-up. To understand how the ash and soil may need to be handled during clean-up, samples of ash and soil from burned and unburned areas in Fort McMurray were collected and analyzed.
  - Ash samples from the communities of Abasand, Beacon Hill and Waterways showed concentrations of dioxins and furans, metals, and polycyclic aromatic hydrocarbons were present that exceeded Alberta’s Tier 2 Human Direct Soil Contact guidelines. The exceedances of these contaminants were not unexpected and variability in the concentrations from site-to-site correlated with the burnt materials on each property.
  - Some of these contaminants have a high toxicity potential if residents are in contact with them (e.g. skin or inhalation), there is a need to minimize exposure during clean-up and restoration
  - Subsequent chemical testing of soil did not identify the presence of contaminants moving from the ash into soil at concentrations exceeding Alberta Tier 2 Human Direct Soil Contact guidelines. However, as clean-up activities will take time, mitigation measures outlined below will take into account the potential for soil contamination. While asbestos was not found in any of the samples, the potential for asbestos to be present remains and the mitigation measures outlined below have taken that into consideration.

- The volume of structural ash in Abasand and Beacon Hill is higher than other neighbourhoods in Fort McMurray due to the total number of properties lost in each neighbourhood (Abasand – 1164 and Beacon Hill – 476).
  - This higher volume will result in an extended clean-up and increase the timeframe and likelihood that residents may be exposed to ash, dust and debris.
  - Single points of access to the neighbourhoods limit the ability to separate haul routes from residential routes, introducing traffic safety hazards that need to be managed.

Mitigation Measures:

The ash, dust and debris at the sites of destroyed homes present a potential public health hazard through either direct contact or inhalation during demolition and cleanup activities. The unburned debris within the areas of Abasand and Beacon Hill have the potential to contain chemical, biological and/or physical hazards. Several measures are already in place or will be expanded to reduce the likelihood of exposure scenarios occurring, including:

- The RMWB covered all of the ash and debris in these neighborhoods with tackifier, and additional tackifier was re-applied where the original tackifier was disturbed by sifting operations and on all of the ash and debris facing Phase 1 homes. The application of tackifier reduces the likelihood of dust and ash displacement.
- Fencing was installed and surrounds destroyed areas. Double fencing was installed on the side of public buildings that share a border with a destroyed property
- Green spaces and vegetation on public and private property remains intact in many areas, serving as a natural barrier or buffer for the movement of ash, dust and debris.
- Signage has been installed along haul routes and at entry points to all damaged neighbourhoods, alerting the public to the potential ash, dust or other hazards from demolition. The reader boards notify residents of the demolition activity, a reduced speed limit (30 km/h) and where to get additional information.
• Alberta Health Services’ information document “Living Safely in Neighbourhoods During Fire Demolition & Remediation” is available online and will be included in the RMWB welcome packets placed on each green home (Phase 1) door. It outlines a number of options available to help residents protect their health when they are in their homes.
• Speed limits along haul routes have been reduced to 30 km/h to mitigate ash disbursement during transport.
• Rumble guards or similar track-out devices will be installed at demolition area exits in Abasand and Beacon Hill before the haul routes become shared roads with residents (see site map). These devices will help to limit the track-out of ash, dust and debris onto public road ways, promote safety through reduced speeds and help to control dust in the area. The area around the rumble guards will be cleaned regularly by RMWB Operations.
• The RMWB will perform routine street maintenance in Abasand and Beacon Hill in addition to the mandatory cleaning (demolition condition requirement) by contractors at each of their demolition sites.
• Silt socks have been installed on storm drains to limit the amount of ash or other contaminants entering catch basins; a RMWB contractor monitors and cleans the catch basin silt socks to ensure their effectiveness.
• The playground structures and surface areas below (included in Phase 1 re-entry) in Abasand and Beacon Hill have been cleaned three times since the fire event. The RMWB Parks Department cleaned the structures twice with a Hotsy Pressure Washer which is a method of cleaning with high pressure using hot water. They were also cleaned once by a contractor hired by the RMWB with soap and water. The play structures will be cleaned once with the Hotsy Pressure Washer prior to resident re-entry.
  o Play structures with gravel surface areas will have the gravel replaced and/or washed prior to residents returning.
  o Air monitoring devices (EBAM) have been placed in close proximity to the play structures/recreation areas which would be open for the Phase 1 re-entry in Abasand and Beacon Hill (see site maps for EBAM locations).
• Site-specific orientation will be required for the areas of Abasand and Beacon Hill prior to Phase 1 re-entry. The orientation is intended for all contractors, security and municipal employees working within Abasand and Beacon Hill and will offer insight into site-specific requirements and obligations that must be adhered to while operating within these areas. Items covered in orientation will include, but are not limited to, speed requirements, designated haul routes, debris hauling requirements (covered loads), safe debris handling (wetting material), incident reporting process, stop work orders and enforcement.
  o A certificate of completion will be provided to orientation participants.
  o Vehicles entering into Abasand and Beacon Hill will be required to have a placard in their vehicle demonstrating they’ve completed the orientation and are aware of the site safety requirements.
  o Violation of site specific requirements can lead to loss of access to work in the areas of Abasand and Beacon Hill.
• Resident Town Hall/Information sessions will be offered to residents prior to the Phase 1 re-entry. The information session will outline safety, incident reporting, enforcement, living safely in a demolition/construction area, mental health supports and allow for questions and answers.

Contractor On-Site Demolition Measures
Prior to the commencement of demolition activities, all contractors or homeowners must obtain a demolition permit from the RMWB. Detailed information about the permit application and a checklist can be found on the RMWB website. The contractor must provide the following information in their application:

- Site Plan: Location of all damaged building(s) and indication of which building(s) are to be demolished.
- Route Haul Plan: A list of trucks being used, a Traffic Accommodation Plan, and a Road Maintenance Plan, as required.
- Schedule: Must include equipment mobilization dates, intended demolition start date, intended demolition end date, and hours of demolition, and time schedule for over-dimensional truck travel.
- Stockpiling Plan: If demolished materials are not to be removed immediately, provide a plan indicating the location of stockpiled material, the time period that stockpiling will take place and erosion mitigation plans.
- Copy of current certificate of property title and, as needed, additional documents.
- Site Cleanup Plan: The Site Cleanup Plan must identify the environmental concerns on the demolition site and outline acceptable procedures for debris handling and removal, specifically the removal of the following:
  - Site Cleanup Guidelines (Phase 1, Phase 2 and notes)
  - Ash/dust and contaminated water control
  - Hazardous materials (containment and TDG requirements)
  - Separating and handling of concrete, metals and other materials (pre-landfill or processing area)
  - Soil removal of 2-inches is required
- A completed Hazards Checklist, including how they will be mitigated, must be included in the site cleanup plan.
- Utilities Management Plan is required to outline the methods that will be used to disconnect utilities (gas, electricity, and telephone/internet) from the destroyed properties.
- Certificate of Recognition: the applicant must provide a Certificate of Recognition (COR), Small Employer Certificate of Recognition (SECOR) or a similar industry certification demonstrating the applicant’s health and safety management system meets provincial standards.

Permit applications are reviewed by the Planning and Development Department, which includes the Development Control and Permitting and Safety Codes branches. Should more information be required, the Planning and Development Department will contact the applicant and request further information, which can be provided over the phone or in person.

Specific ash/dust-related management activities include:

- To mitigate the risk of ash/dust-related activities, contractors are required to wet material prior to removal. As outlined in the Demolition Permit Information Package, Checklists and Application Form, contractors will use a hose with a fine-spray nozzle and must apply water to the worksite prior to and during debris removal.
  - Care must be used to avoid excessive water use in order to prevent water runoff.
  - Ash/dust and debris must be transported to and disposed of at a Class 2 landfill. The ash/dust and debris must be transported and covered in accordance with provincial requirements.
If property lines are shared by a demolished and standing structure, additional dust control measures are required (i.e. tarped fencing).

- One location in the Phase 1 re-entry area requires additional control measures and has been identified on the Abasand map.

- Air and bulk ash samples were collected and analyzed for asbestos content. However, individual contractors and homeowners are required to identify if asbestos is a site-specific hazard during the demolition permit hazard identification.

- Notification of neighbours in adjacent homes behind, beside and across from the demolition site is required as outlined in the Demolition Permit Information Package, Checklists and Application Form. In the event that property owners are using multiple contractors for demolition, each contractor is required to provide notice to the adjacent homes.

- Containing all loads during transportation (i.e. wetted loads covered by a tarp);
  - Excessive use of water must be avoided in order to prevent runoff during transportation.

- Water runoff controls and silt socks; and

- Street cleaning requirements after demolition and disposal to be performed by the contractor as required as a permit condition. The RMWB will perform street sweeping as necessary within Abasand and Beacon Hill.

Many of the burnt homes in Abasand and Beacon Hill will be demolished and cleaned up by SPECS contractors, who follow an established workflow as part of their demolition process. The SPECS process (available at www.specs.ca) is summarized below:

1. Prior to performing work on-site, the contractor is required to obtain demolition permits and utility disconnect permits. Steel removal from properties will be completed by using excavators, which will pick out the pieces of steel and load into haul trucks for transport to an off-site recycling facility.
2. Surface soil and ash will be excavated, transported and disposed of at a Class 2 landfill facility.
3. Utilities (both deep and shallow) will be cut and capped (if required) to ensure no damage to the services during foundation removal.
4. Concrete in the foundations, sidewalks and driveways will be broken up into smaller manageable pieces, loaded into trucks and hauled away for recycling.
5. The remaining excavation will be sloped and a berm installed at the surface to prevent water entry.
6. Residents who sign up for backfill will have the excavation filled with suitable backfill material and track packed.

While the mitigation measures discussed above will greatly reduce the likelihood of the creation of additional ash, dust or other hazardous conditions, the removal of surface soil and ash represent the greatest potential for the re-suspension of hazardous ash into the air.

A suite of validation tools will be employed to confirm the efficiency of the mitigation measures;

1. Contractor requirement to adhere to demolition permit conditions.
2. RMWB requirement to monitor and enforce permit conditions.
3. Residents’ ability to observe and report concerns and/or violations to neighbourhood on-site response team.
Mitigation Validation Tools:

On-site response teams consisting of a RMWB Development Compliance Officer and RMWB as well as Provincial Occupational Health & Safety Officer are available 24/7 at site offices in Abasand and Beacon Hill. The teams will actively monitor contractors and enforce safety obligations, and will be able to respond to resident concerns immediately.

Contractor

- Required to adhere to demolition permit conditions
- A COR/SECOR certification ensures competent contractors as this certificate indicates that their practices have met provincial standards as confirmed by a certified auditor
- Site-specific orientation will ensure that the contractor fully understands the guidelines and expectations with regards to site-specific safety within Abasand and Beacon Hill.

RMWB

- Visual inspections and patrols of Abasand and Beacon Hill are being conducted by RCMP, MLE, Safety Codes Officers, Development Compliance Officers, Commercial Vehicle Enforcement Officers, Environmental Compliance Officers and Private Security;
  - RCMP Officers will be performing roaming patrols in the areas of Abasand and Beacon Hill, conducting radar speed enforcement and will resume regular duties normally provided within the neighbourhoods.
  - Municipal Law Enforcement Officers will be performing roaming patrols to ensure compliance with all municipal bylaws, provincial acts and legislation, and will answer inquiries, initiate investigations and finalize complaints.
  - Safety Codes Officers examine plans, issue building permits and inspect construction and mechanical systems for residential and commercial buildings, ensuring compliance to appropriate codes, policies and bylaws. Additionally, they prepare permit conditions and notices to alert contractors or homeowners of deficiencies in design or construction. The officers will follow up on conditions and notices to ensure deficiencies are corrected. Safety Codes Officers will be providing approval to contractors who wish to use alternative methods for site closeout (i.e. not backfilling).
  - Development Compliance Officers are performing the pre- and post-demolition inspections. They ensure compliance to the conditions of the demolition permit and have the authority to issue stop work orders for condition violations.
  - Commercial Vehicle Enforcement Officers will be patrolling the RMWB landfill, Highway 63 and damaged areas on a 24/7 basis to enforce compliance with municipal and provincial regulations, which includes watching for properly secured and overweight loads, valid and appropriate class of license, registration and insurance.
  - RMWB Environmental Compliance Officers will ensure that any soil that needs to be removed is done appropriately and that contaminated soil is disposed of properly and not used for backfill.
  - Contracted security officers will be present at various security checkpoints in Abasand and Beacon Hill, performing roaming patrols and visual observations and assisting all other officers in reporting trespassing, suspicious behavior and non-compliance of conditions and regulations.
Occupational Health & Safety Officers will inspect construction sites to ensure equipment and materials do not present a safety or health hazard to workers, investigate complaints related to health and safety, and enforce health and safety laws and regulations.

Residents

Orientation and information sessions will be provided to residents to clearly outline the requirements that contractors are required to adhere to and to inform them of the reporting channel (Pulse Line) for suspected violations of demolition permits.

Air Quality Monitoring

There are multiple forms of air quality monitoring in these neighbourhoods and across Fort McMurray.

- SPECS Due Diligence Downwind Monitoring Program and Handheld Air Monitoring During Fire Debris Removal – this monitoring program gathers sampling during site activities. A baseline survey was established to allow for direct read equipment to be used for ongoing activities.
- Temporary environment-proof beta-attenuation (EBAM) monitors operated by Alberta Environment and Parks and Wood Buffalo Environmental Association – these monitors will measure particulate matter (PM$_{2.5}$) 24/7 and send notifications to Alberta Environment and Parks, Alberta Health, Alberta Health Services and the RMWB dedicated email for Phase 1 re-entry if the Ambient Air Quality Objective for PM$_{2.5}$ is exceeded. Monitors have been positioned (see site maps) in green spaces of communities where residents may gather. Data from the monitors will be available on-line at: (http://aemeris.aemera.org/library/Dataset/Details/712)
- Continuous air quality monitoring stations operated by the Wood Buffalo Environmental Association – these stations monitor ambient air quality conditions for the whole community of Fort McMurray. While these stations do not monitor local dust production, they can provide information about the general state of air quality and should conditions change, the information will be reviewed by RMWB to see if on-site demolition activities should be temporarily suspended. Data from these monitors are available at: (http://www.wbea.org).
- Playgrounds and public recreational areas will be monitored and assessed to ensure the facilities remain safe for use during demolition activities.
  - Ongoing monitoring of perimeter fencing will be done by private security guards and monitored by the RMWB Manager of Corporate Security.
  - EBAM Air Monitoring system(s) will remain in place in Abasand and Beacon Hill for the duration of demolition clean up - these monitors will measure particulate matter (PM$_{2.5}$) every hour and send notifications to Alberta Environments and Parks, Alberta Health, Alberta Health Services and RMWB dedicated Phase 1 email (which is monitored by RMWB Re-entry project leads)
  - RMWB Parks teams will continue to provide regular maintenance services to the areas such as equipment safety inspections, garbage pickup, lawn maintenance, trail and parking lot maintenance.
- Pink Placards will be placed on properties which are front- or rear-facing to destroyed properties; the placard will provide additional information available to help residents protect their health.

After Clean-Up:
The RMWB is working with the Government of Alberta to conduct additional soil sampling in public spaces in burned and unburned public areas following clean-up and debris removal to confirm that soil in these areas does not have contamination above Alberta Tier 1 and 2 Soil Guidelines for Residential/Parkland uses.

**List of relevant supporting documents:**

- Demolition Permit information – includes a risk assessment conducted by the contractor for every site (available to public - [http://asset.rmwb.ca/files/Demolition-Information-Package.pdf?160725](http://asset.rmwb.ca/files/Demolition-Information-Package.pdf?160725))
- Location of ash and soil sampling and results are available at: [http://www.alberta.ca/environmental-monitoring-fort-mcmurray.aspx](http://www.alberta.ca/environmental-monitoring-fort-mcmurray.aspx)
- Ambient Air Quality Monitoring Plan – MAML Survey (Fort McMurray, AB Wildfire) (available upon request)
Falling & Fallen Trees

Risk Description:
The Regional Municipality of Wood Buffalo has completed an assessment of trees in the Phase 1 areas in Abasand and Beacon Hill. There are no fire-damaged trees in these areas, however there are fire-damaged trees along the access routes to these areas. These trees have been assessed and deemed safe.

To help ensure homes are safe, a fire break has been created in the forested areas behind homes. By creating this break, there are no trees in the forested areas in close proximity to Phase 1 homes.

The demolition activities are not expected to significantly increase this risk other than the potential for inadvertent damage to trees associated with heavy equipment operation.

Mitigation Measures:
While the trees in Phase 1 areas have been deemed safe, the RMWB has a plan in place for mitigation related to this hazard:

- A contractor has been retained to remove trees that have fallen within the restricted areas.
- Trail systems in the area have been clearly marked as closed to discourage the public from entering impacted forested areas.
- Trees in open areas and public spaces have been assessed and any downed trees have been removed.
- Remaining standing trees will be monitored by RMWB Parks and Safety Codes personnel.
- Green spaces and vegetation on public and private property remains intact in many areas, serving as a natural barrier or buffer for movement of ash, dust and debris.
- The Insurance Bureau of Canada has worked with home owners to remove dangerous trees from their property.

Each home in the Phase 1 re-entry has had a rapid damage assessment completed by an RMWB Safety Codes Officer. The assessment focused on exterior risk and fallen trees would have been identified during this process.

The above mentioned mitigation will be validated via the following means:

- Visual Inspection
  - Private security personnel will record and report unsafe conditions through to RMWB staff
  - Residents can report unsafe conditions to the Pulse Line

List of relevant supporting documents:

- Information regarding the trail networks and recreation areas (available to public - http://www.rmwb.ca/Municipal-Government/municipal_departments/Public-Operations/Parks--Trails/Parks_OutdoorRecreation.htm?pagemode=HTML&FullPageView=False)
- Confirmation of contract regarding tree removal (available upon request)
- Rapid damage assessment (available to public - http://firemap.rmwb.ca/)
Forest Ash

Risk Description:
There were no burned trees in the Phase 1, however residents in Phase 1 may come in contact with forest ash as they return to their homes and it may become airborne during clean-up or demolition activities.

Recent heavy rain has mitigated some of the risk associated with forest ash in the Phase 1 areas and further test results from forest ash samples did not exceed provincial guidelines. Consultation with Agriculture and Forestry has confirmed that the health risk is low.

Mitigation Measures:
While the health risks associated with forest ash has been deemed low, mitigation measures (similar to those utilized for structural ash) have been put in place.

An on-site response team will be located in site offices in Abasand and Beacon Hill; the team will have RMWB Development Compliance Officers and RMWB as well as Provincial Occupational Health & Safety Officers available 24/7. The team will ensure that the obligations of contractor are being met, ensure RMWB presence in the communities for monitoring and enforcement and allow for rapid response to residents’ concerns.

Some Abasand and Beacon Hill residences are located near or are adjacent to forested green belts or public land; there is potential for forest ash to be on or near their property. Based on the potential risk of forest ash, the contractor is required to ensure that they adhere to the conditions of the RMWB Demolition Permit.

- Ash/dust control practices (e.g., wetting the ash) are required as demolition permit conditions
- Notification of adjacent properties behind, besides and across from the demolished structure is required
- All loads containing ash or debris must be covered for transportation.
- Street cleaning requirements during demolition will be performed by the contractor as required as a permit condition; the RMWB will perform street sweeping as necessary within Abasand and Beacon Hill.
- Stop-Work orders will be issued for permit condition violations.

Additional mitigations include:
- Distribution of ash-related information (Living Safely in Neighbourhoods During Fire Demolition & Remediation, HEPA filters).
- 30 km/h speed limit on haul routes to avoid stirring up and spreading ash or dust, and loss of debris.
- Perimeter fencing to limit access to burned forest areas.
- Silt socks have been installed on storm drains and will be monitored to prevent ash and other contaminants from entering catch basins.
- Public spaces have been cleaned and sanitized, or marked as closed and have been fenced off.
The above mentioned mitigation will be validated by the following means, (additional details about how these were validated was provided under the Structural Ash section):

- Visual Inspection
  - Development Compliance Officers ensuring permit stipulations are met
  - Mobile private security patrols will report issues through to RMWB staff
  - Law enforcement personnel
  - Safety Codes Officers inspecting demolition and construction activities
  - Residents will report concerns to the Pulse line
- Air quality monitoring stations operated by the Wood Buffalo Environment Association
- Commercial vehicle enforcement conducted by the RMWB or provincial officials.

List of relevant supporting documents:
- Contractor Demolition Permit risk assessment as per permit application
- Living Safely in Neighbourhoods During Fire Demolition & Remediation
Potable Water
All intact waterlines in Abasand and Beacon Hill have been flushed. Alberta Health Services (AHS) and Alberta Environment and Parks have confirmed that water quality has been restored to provincial drinking water quality. AHS lifted the boil water advisory for Abasand, Beacon Hill and Waterways on August 17, 2016. However, some water mains and service connections in several heavily damaged areas of the Abasand, Beacon Hill and Waterways neighbourhoods have not been flushed, do not have active water services and are currently out of service. These water mains and service connections are not in Phase 1 areas.

Municipal staff will be flushing and rehabilitating these water mains and service connections moving forward. Refer to the link below for maps detailing buildings with and without water service.

List of relevant supporting documents:
- Existing messaging (available to public - http://www.rmwb.ca/News-Room/RMWB-Wildfire-Information/Status--Boil-Water-Advisory.htm)
Propane Cylinders, Vapours & Unexploded Ammunition

Risk Description:
In consultation with the City of Edmonton Fire Department Chief of Special Operations, a RCMP explosives expert and propane industry experts, the RMWB was alerted to the potential risks of explosion associated with propane gas cylinders and unexploded ammunition in areas that require demolition.

Phase 1 areas were not directly impacted by fire, therefore the potential for this hazard to occur in these areas is low. However, Phase 1 areas are adjacent to destroyed areas where potential risk exists.

Harmful vapours may be trapped under layers of debris in the adjacent destroyed areas and demolition activities may disturb or release these vapours, presenting a possible chemical or physical hazard.

Mitigation Measures:
The RMWB demands that contractors permitted to conduct demolition activities are Certificate of Recognition/Small Employer Certificate of Recognition (COR/SECOR) certified. The COR/SECOR certification aids in ensuring competent contractors; contractors have demonstrated their practices have met provincial standards as confirmed by a certified auditor. The certification process also requires companies to ensure their health and safety management system meets provincial standards, including adherence to the Occupation Health and Safety Code (contains specific sections on Demolition (Part 30) and Hazard Assessment, Elimination and Control (Part 2)).

Additional mitigation includes:
- Contractors are responsible to work with homeowners on hazard identification checklist and provide within demolition permit applications site clean-up guidelines for how any hazards on site will be mitigated.
- Recreation areas near demolition activities have been closed.
- Designated haul routes that limit the exposure to residents.
- A site-specific utility management plan has been created as part of the Demolition Permit process.
- Controlled resumption of natural gas supply to the Phase 1 areas
- Stop Work Orders

The above mentioned mitigation will be validated through the presence of private security personnel, RMWB Safety Compliance Officers and RMWB Transportation Compliance Officers in and around the demolition areas. Weekly meetings are held with the utility providers to maintain open lines of communication and therefore allow for an efficient issue identification and mitigation process.

List of relevant supporting documents:
- Contractor demolition permit risk assessment as per demolition permit process
• Haul route maps
• Utility Management Plan
**Water-Damaged Basements**

**Risk Description:**
Power outages may have caused basements to flood due to sump pumps failing to remove water (including groundwater) from homes. Recent heavy rains may have also caused basements to flood and infiltration of water into homes could cause mold to grow.

While the Phase 1 areas do not have fire-damaged homes in them, fire-damaged homes in the surrounding restricted areas may also have standing water in them due to sump pump failure or heavy rainfall.

It is reasonable to assume that some residents have accessed their homes and have been able to assess whether they have water-related damage in their basements. However, the ability of residents in Phase 1 areas to mitigate water-related damage to their homes is limited due to current access restrictions.

**Mitigation Measures:**
To minimize the potential risks associated with flooded basements, the following measures are in place:

- HVAC trucks are available to remove standing water from homes – insurance companies have been made aware of the risk of standing water and as such have the ability to assist their clients in arranging for removal of the water. Where the property is uninsured, the RMWB would provide HVAC services to ensure resident safety.
- The landfill has extended hours and tipping fees have been waived for residents.
- A Bagster program has been implemented to assist residents with the removal of waste. Waste will be picked up free of charge and disposed of in an appropriate manner.
- Silt socks have been placed to help prevent debris from entering catch basins.
- If the flooding is the result of an insurable event, the Insurance Bureau of Canada has a local presence and will be able to provide assistance as required.
- Weather forecasts are being monitored to prepare for heavy rainfall. In the event that heavy rainfall is expected, additional resources will be made available on the Pulse Line and HVAC trucks will be put on standby.
- Messaging regarding flooding has already been created and is readily available.

Existing fencing will mitigate the risks associated with water in fire-damaged homes.

The above-mentioned mitigations will be validated through the calls being received at the Pulse Line and regular patrols of Phase 1 areas for re-entry by both private security companies and staff from the RMWB Public Works Department.

A recent flooding event in the RMWB was quickly mitigated and the REOC quickly assisted with clean up.

**List of relevant supporting documents:**
- Information regarding basement back up and flooding (available to the public - [http://www.rmwb.ca/News-Room/How-to-Respond-to-Basement-Flooding.htm](http://www.rmwb.ca/News-Room/How-to-Respond-to-Basement-Flooding.htm))
- Information regarding household cleanup after a flooding event (available to the public - [http://www.albertahealthservices.ca/Advisories/ne-pha-cleaning-house.pdf](http://www.albertahealthservices.ca/Advisories/ne-pha-cleaning-house.pdf))
Utilities

Risk Description:
Electricity and water are already being delivered to the homes in Phase 1 areas. During response efforts, natural gas was turned off to all residences. Residents are required to have ATCO Gas reconnect their services.

Provision of these services may be interrupted during demolition activities should the contractors fail to conduct their work appropriately.

Mitigation Measures:
Similar to the previously restricted areas, and to ensure the safe re-introduction of natural gas to these homes, a plan has been developed to restore natural gas service. The plan was previously successful in safely providing natural gas to homes in a timely fashion. As part of the plan, ATCO representatives are required to manually turn on the gas at each home after conducting a safety inspection.

To help mitigate utility interruption inadvertently caused by demolition activities and to ensure safety for those living and working in the area, a Utilities Management Plan is required as part of the demolition permit process and requires that all utilities be capped in a safe manner once demolition is complete.

The RMWB cut and capped 700 connections to the main sewer line that would have a greater impact to the sanitary system within the communities; remaining cut and capping of individual homes will be performed by contractors as part of the demolition.

Weekly meetings are held with utility providers to ensure open lines of communication and prompt issue identification and mitigation.

The effectiveness of the mitigation measures will be known by the utility-related concerns that are made to the Pulse Line and via site inspections during the demolition process by Safety Compliance Officers.

List of relevant supporting documents:
- Re-entry Information Booklet (available to public - http://www.rmwb.ca/Assets/Departments/Communication/RMWB+Re-Entry+Information+Booklet.pdf)
- Contractor demolition permit risk assessment as per permit application
Destroyed Vehicles

Risk Description:
As the Phase 1 areas have not been directly impacted by the fire, destroyed vehicles are not present in these areas. On August 5, 2016, Municipal Law Enforcement personnel physically inspected the Phase 1 areas and confirmed that destroyed vehicles are not present. Destroyed vehicles are present in other areas of the communities that are not being proposed for re-entry at this time. Any destroyed vehicle that was parking on the street during the fire has been removed. Any other destroyed vehicles that are present in the neighbourhoods are behind the fencing.

Mitigation Measures:
As the identified risk is not present in the Phase 1 areas, a mitigation strategy for these areas is not required. However, the following mitigation measures will occur in the areas that are proposed to remain restricted at this time:

- An order to remove damaged, destroyed and/or abandoned vehicles was put into place on August 19, 2016
  - Pursuant with Emergency Management Act the RMWB has ordered that all vehicles that were damaged, destroyed or abandoned as a result of the fire will be removed and disposed of by contractors or agents of the RMWB.
  - A vehicle removal plan has been created regarding destroyed vehicles. This plan includes, but is not limited to, wrapping the vehicles in a tarp prior to leaving the restricted areas and taking them to a crushing station where they will be disposed of in a safe manner.
- Security will continue to patrol the restricted areas and control access at the gates.

To help ensure the effective mitigation of the potential risks, the vehicle removal process will be monitored by Municipal Law Enforcement staff and private security personnel.

List of relevant supporting documents:
- Order to Remove Damaged, Destroyed and/or Abandoned Vehicles
- Vehicle removal plan
Availability of Essential Services and Community Space

Risk Description:
Community members were dependent on the businesses located in the already re-occupied areas such as Downtown Fort McMurray and Gregoire. However, it is noted that some businesses that were available in restricted areas before the fire such as convenience stores, gas stations and social services (churches and daycares) are looking to reopen upon re-entry.

Mitigation Measures:
Residents will be able to shop in their local grocery stores (located downtown), have access to their local banking institutions, and use their local pharmacy. Parks and community gathering spaces are proposed to be available should the Phase 1 re-entry plan be approved.

Modified public transportation will be available in the Phase 1 re-entry areas to support access to the community spaces within the neighbourhoods and access to the amenities that are located downtown, such as grocery stores, banks and pharmacies.

List of relevant supporting documents:
N/A
Public Buildings/Space

(Destroyed Carwash in Abasand, Simon & Lucas Park in Abasand, École Boréal School in Abasand and Good Shepherd School in Beacon Hill)

Risk Description:

Destroyed Car Wash
The destroyed car wash is not located in close proximity to the Phase 1 homes however it is in close proximity of the commercial businesses being proposed for Phase 1.

Simon & Lucas Park
Simon & Lucas Park is located within Abasand. Alberta Health Services – Environmental Public Health has identified this park as a potential risk. It is 100 metres from Phase 1 houses and 20 meters away from the Highview Cemetery which is within the Phase 1 re-entry area. The Highview Cemetery is completely fenced and is included in Phase 1 re-entry to provide community access to the cemetery.

École Boréal
École Boréal School is located in Abasand and is proposed for re-entry as an area that could be potentially used as a public gathering place, as the School Board has chosen not to re-open in September. Alberta Health Services – Environmental Public Health has identified its proximity to burnt structures as a potential risk based on the likelihood of youth gathering in the areas surrounding the school.

Good Shepherd School
Good Shepherd School is located in Beacon Hill and is proposed for re-entry as an area that could be potentially used as a public gathering place, as the School Board has chosen not to re-open in September. Alberta Health Services – Environmental Public Health has identified its proximity to burnt structures as a potential risk based on the likelihood of youth gathering in the areas surrounding the school.

Mitigation Measures:

Damaged Car Wash
Destroyed structures have been encircled by fencing and have been sprayed with a second application of tackifier. Double fencing has been placed as a physical barrier around the car wash to provide an additional layer of security and mitigation. Additionally, the REOC Planning Team is in frequent contact with the business owner regarding their plan for demolition.

Simon & Lucas Park
The park has been inspected by Safety Codes Officers and Municipal Parks staff and has been deemed unsafe for use. As such, in addition to the cemetery fencing adjacent to Simon & Lucas Park, the park has been fenced and is clearly marked as closed.
École Boréal and Good Shepherd School
While École Boréal is located in Abasand and Good Shepherd is located in Beacon Hill, the same mitigation measures have been applied to both schools as the conditions are the same. A second layer of tackifier has been applied to all destroyed structures in proximity to the schools and double fencing has been installed between the school grounds and destroyed structures to mitigate the potential risk.

AHS was in agreement with these mitigation practices.

List of relevant supporting documents:
- Information on Municipal Parks (http://www.rmwb.ca/Municipal-Government/municipal_departments/Public-Operations/Parks---Trails/Parks_OutdoorRecreation.htm)
Transport Routes/Demolition Areas

Risk Description:
Demolition in the restricted areas will increase the normal volume of traffic in the Phase 1 areas. In addition, the type of traffic will change from primarily residential/personal vehicle to commercial/industrial traffic. Both the increase in the volume of traffic and the change in the type of traffic have the potential to cause risk to the residents due to the increased potential for motor-vehicle accidents and the loads that they will be carrying.

Mitigation Measures:
Phase 1 areas have single access routes and mitigations have been put in place to reduce the risk to residents.

Designated haul routes have been established to restrict demolition-related traffic to specific roadways, minimizing the interaction of residents and demolition activity wherever possible. Additionally, the demolition traffic may be carrying forest and structural ash – separate risks that have been identified and have individual mitigations associated with them as outlined in other executive summaries.

Specific mitigation measures on these haul routes includes:

- Reduced speed limits to 30 km/h
- Electronic signs posting the speed of oncoming traffic
- Rumble guards to limit the track out of demolition debris, slowing traffic, and controlling particulate matter
- Presence of Municipal Law Enforcement and private security personnel
- Development permit stipulations regarding street sweeping. Should the resulting cleaning activities not be sufficient, additional municipal resources will be allocated.

The mitigations will be verified in the following ways:

- Daily street debris inspections by RMWB Public Works staff of the designated haul routes
- Resident concerns as they have been reported to the Pulse Line
Residents Front- or Back-Facing Destroyed Areas

Risk Description:
Residents may have concerns given the proximity of homes to destroyed properties. While the number of front-facing or back-facing homes is limited in Phase 1, some homes do face destroyed properties. This risk was identified in the original recommendations from the CMOH to ensure that residents have an opportunity to complete a thorough risk assessment of their home.

Mitigation Measures:
To address this concern, the following initiatives have been developed:

- Pink placards will be placed on residences that are front and/or back facing to destroyed properties. These placards provide the resident the opportunity for an Alberta Health Services inspection of their property, given the close proximity to damaged homes.
  - The placard will include contact information for Environment Public Health to schedule an inspection with a public health inspector, Pulse Line, Community Wellness Line and a statement explaining why a pink placard was received.
- Contractors must notify adjacent properties which are behind, besides and across from the demolished property.
- Silt socks have been placed around catch basins.
- Alberta Health Services’ information document “Living Safely in Neighbourhoods During Fire Demolition & Remediation” will be available for residents online as well as in information packages. The document has a number of options available to help residents protect their health.
- Welcome Centres will be established for the first two days of reoccupation. AHS Mental Health staff will be on site to provide written and verbal information regarding the resources that are available to them. Red Cross personnel will also be on site and can provide verbal and written information regarding the on-going supports that are available to them.
- The Pulse line will continue to be staffed in effort to link residents with resources.

Validation of these initiatives will occur in the following ways:

- Placement of the pink placards and delivery of the re-entry package will be completed prior to re-entry.
- REOC is in regular contact with AHS regarding residents who may not be in pink placard homes, and direct phone calls are made to these residents by REOC staff.

List of relevant supporting documents:
- Pink Placard and supporting documents
Maps
Information Centre
Open 8am - 8pm
August 31, September 1 & 2
Information Centre
Open 8am - 8pm
August 31, September 1 & 2