AGENDA HAZARD MITIGATION COMMITTEE MEETING TUESDAY MAY 27th 2025 AT 6:00 P.M. TOWN BUILDING - 2 CASTLE VALLEY DR.

This meeting will be a hybrid meeting held electronically by Zoom and also in person at the anchor site the Town Building. If you have comments or concerns for the Committee please attend or email prior to the Meeting: townclerk@castlevalleyutah.com or call 259-9828 M-W 9AM-1PM. Thank you!

PLEASE NOTE: ** HOW TO JOIN THE ZOOM CONFERENCE CALL**

Meeting ID: 660 541 0108 Passcode: 84532

Option 1 Dial-in phone number (US): (253) 215-8782 follow prompts.

Option 2 Join the online meeting (must have computer speakers and microphone):

https://zoom.us/j/6605410108?pwd=Q05sYm5qQ0lpNlY5TVp2bTU5VnZjQT09

CALL TO ORDER AND ROLL CALL

- 1. Open Public Comment
- 2. Approval of the Minutes from:
- 1.28.2025
- 2.25.2025
- 3.25.2025
- 3. Discussion and possible action: Review of Pam Hackley's Water Advisory Committee work and additional information.
- 4. Sections: Potential Hazards with Goals, Probability analysis and mitigations.

Drought

Water Contamination

Subsidence:

ADJOURNMENT

HAZARD MITIGATION COMMITTEE MEETING DRAFT MINUTES TUESDAY JANUARY 28th 2025 AT 6:00 P.M. TOWN BUILDING - 2 CASTLE VALLEY DR.

This meeting was a hybrid meeting held electronically by Zoom and also in person at the anchor site the Town Building.

Committee Members Present: Mayor Duncan, Ron Drake, Colleen Thompson and Egmont

Members/ Officials on Zoom: Dorje Honer

Members Absent: Jeff Whitney

Residents present at Anchor site: Mary O'Brien

Residents on Zoom:

CALL TO ORDER AND ROLL CALL

M Duncan called the Meeting to order at 6:00 PM, Buck did roll call

- 1. Open Public Comment: None
- 2. The Committee reviewed the 2020 Hazard Mitigation Plan priorities and goals. Some of the goals have been met most have at least been started and/or are ongoing. Work continues on implementing the Rapid Disaster Assessment Plan. Still on the list is to get an easement to the green gate to the BLM from the Upper 80 and to repair/ armor the Castle Creek Culvert which will now be a more urgent priority after the flooding damage last summer. The Road Department SOPs will be presented to the Council soon. Various options were discussed on providing a backup generator. Fire mitigation in the greenbelt has stalled out because Utah Forestry, Fire and State Lands wanted to treat Russian olive stumps with herbicides. D Honer stated manual clearing and chipping maybe the best option. M Duncan added that going forward we need to get our priorities much more specific/detailed so we have a better chance of getting funding.
- 3. The Committee discussed the FEMA Plan Update requirements the changes were highlighted in yellow. Some of the changes would not apply to the Town. We will be getting feedback from the public on our priorities. Eventually we will go through a rating system of the potential hazard actions depending how doable/feasibly they are. There was discussion on how to bring in other stakeholders in the Valley outside of the Town. The Grand County Emergency Manager - Cora Phillips should be included in our meetings. We also need to reference other existing Plans (updated issues) i.e. EOP, General Plan etc. . Also we need to explain the process we went through in the decision not to participate in the National Flood Insurance Plan. Have we had any events that were declared a disaster? Review continued on the Plan updates that will need to be considered as we work through the Plan.

It was decided to have Meetings the 4th Tuesdays at 6PM. Next month Fire and Flood hazards and mitigation actions will be discussed. Egmont Honer was recruited to the Committee and Colleen Thompson will be asked to join as the Building Permit Agent.

ADJOURNMENT

| Meeting adjourned at 7:58 PM | |
|------------------------------|----------|
| Approved: | Attested |

| Jazmine Duncan, Mayor | Jocelyn Buck, Town Clerk |
|-----------------------|--------------------------|
| Committee Chair | Date: |

HAZARD MITIGATION COMMITTEE MEETING

<u>DRAFT MINUTES</u> <u>TUESDAY FEBRUARY 25th 2025 AT 6:00 P.M.</u> TOWN BUILDING - 2 CASTLE VALLEY DR.

This meeting was a hybrid meeting held electronically by Zoom and also in person at the anchor site the Town Building.

Committee Members Present: Mayor Duncan, Dorje Honer, Ron Drake, Colleen Thompson and Egmont Honer.

Members/ Officials on Zoom: Mason Kemp Utah Department of Emergency Management.

Members Absent: Jeff Whitney

Residents present at Anchor site: Greg Halliday and Susan Auer.

Residents on Zoom: Kate Carpenter

CALL TO ORDER AND ROLL CALL

M Duncan called the Meeting to order at 6:00 PM, Buck called role.

1. Open Public Comment

M Duncan explained the process of updating the Plan

Greg Halliday commented that the culverts throughout the Town are plugged up with tumbleweeds and need to be cleaned out to mitigate flooding.

2. Fire: Potential Hazards with Goals, Probability analysis and mitigations.

Goal was changed to "Maintain and improve fire resiliency in the Community"

The most current Community Wildfire Protection Plan needs to be added to this update.

Chief Drake will provide an updated list of fire incidents for the Plan. The list will now go back and start at 2010 forward. None were declared disasters. The new Rocky Mountain Power shut off protocol information was added. Fire probability was changed from seasonal to year round. The resource list in the appendix was updated. Risk assessment and Mitigation strategies were reviewed #13/14/16 were deleted and most of the other strategies were discussed but not changed. Added were:

- Permission from property owners up on the rim side for access to water
- Research extra siren s.
- Storage policy for fuels and hazardous materials could be a good candidate for the 5year goals list.
- Plan to help educate property owners along the green belt on fire vulnerability and defensive space.
- Have certified Fire Inspector perform structure inspections on request. We need to confirm availability.
- Provide information to residents that during high fire danger condition residents need to be aware of Rocky Mountain power enhanced safety settings and public safety shut offs and be prepared for outages.
- Create a Preparedness resource list for residents available on the Town website.

3. Flood: Potential Hazards with Goals, Probability analysis and mitigations.

Goal was changed to "Reduce potential damage from floods to infrastructure and property"

There was a discussion on the LIDAR projects in the County and when and how that information would be available. Spring runoff was added to Probability Analysis. Flood events list will be updated.

Risk Assessment and Mitigation strategy changes/additions:

#1Castle creek culvert replacement is underway

#3 deleted

#4 Keep upper crossing

#6 Replace easements with waivers

#7 deleted

#8 deleted

Added: Re-Channel wash by Lots 312/313/301/302

Assess vulnerabilities to lots potentially affected by floods

Evaluate culvert capacities throughout the Valley

Develop a cost share program with resident for flood mitigation projects on private property

It was also discussed having Bill Hulse the County floodplain manager look over the draft Flood portion draft.

Next month Duncan will review the Severe Weather section and Honer will review the Communications sections

Committee Adjourned at 8:20 PM

| Approved: | Attested: | |
|-----------------------|--------------------------|--|
| Jazmine Duncan, Mayor | Jocelyn Buck, Town Clerk | |
| Committee Chair | Date: | |

HAZARD MITIGATION COMMITTEE MEETING

DRAFT MINUTES

TUESDAY MARCH 25th 2025 AT 6:00 P.M.

TOWN BUILDING - 2 CASTLE VALLEY DR.

This meeting was a hybrid meeting held electronically by Zoom and also in person at the anchor site the Town Building.

Committee Members Present: Mayor Duncan, Dorje Honer, Ron Drake, Colleen Thompson and

Egmont Honer.

Members/ Officials on Zoom: Mason Kemp Utah DEM

Members Absent: Jeff Whitney

Residents present at Anchor site: Greg Halliday. Residents on Zoom: Pam Hackley and Bob Lipman

CALL TO ORDER AND ROLL CALL

M Duncan called the Meeting to order at 6:00 PM, Buck did roll call

1. Open Public Comment

Halliday reported he had been burning out the ditches on upper Chamisa. Bob Lipman wanted to bring attention to power line vulnerabilities in the Town. A lot of the fires in California were caused by powerlines. Old Town covenants required all powerlines be buried underground that should be addressed in the Plan. Also there are efforts underway by the BLM to address flood mitigation in upper Placer Creek that should be added to the Plan.

2. Review previous work

The Profile, Planning Process and Resources sections were discussed and updated.

There was a discussion on the current administration's direction for the future of FEMA. Rumor has it emergency response/aid maybe folded into the State's responsibility.

The Fire Sections edits were reviewed .Some of the benefits, financial and political viabilities that were missing were added .RMP's new enhanced safety settings information was added. We received the latest Fire District Community Wildfire Protection Plan. In the Flood section explanations from the Planning Commission's research into the requirements for the National Flood Insurance Plan was added. The construction of Low Water Crossing on Placer creek was completed and added. There was a lengthy discussion on culvert /stream bed "management "throughout the valley. Added were #16 Increasing stream bed capacity and #17 Pursue coordination with the BLM to do mitigation work.

*It was decided throughout the update "Risk assessments and Mitigation Strategies" change "Financial Viability" to "Financial Feasibility". Kemp added that we need to come up with a quantifiable definition of scale.ie. 1-5 or high to low. *Side note Kemp explained that there is Plan Update Element section were we do a status report on past priorities / goals to see what has been accomplished or dropped and/or why. This is maintained over the years plan to plan to keep a history of the Town's participation.

3. Severe Weather: Potential Hazards with Goals, Probability analysis and mitigations.

History of Events needs to be updated from Duncan's NOAA spreadsheet to include last year's flashfloods. Deleted were #2 Create an Emergency Operations Plan and train staff on power outage protocol was already done, #3 Fire and Emergency Medical Responders provide presence at Town building when communications are out now more communications options are available in the Valley made this unnecessary and#8 Power infrastructure map and grid available for Fire, Town and Mitigation RMP will not release this information. Moved #5 to Communications and added was #10 quarterly safety inspections of road signs.

4. Communications/ Power Outages: Potential Hazards with Goals, Probability analysis and mitigations.

This section was very mixed up and confusing, it was decided to divide it separating Communications (Egmont Honer will work on this for the April session) from Power Outages. Power Outages got a separate "Probability Analysis" and "Risk assessments and Mitigation Strategies".

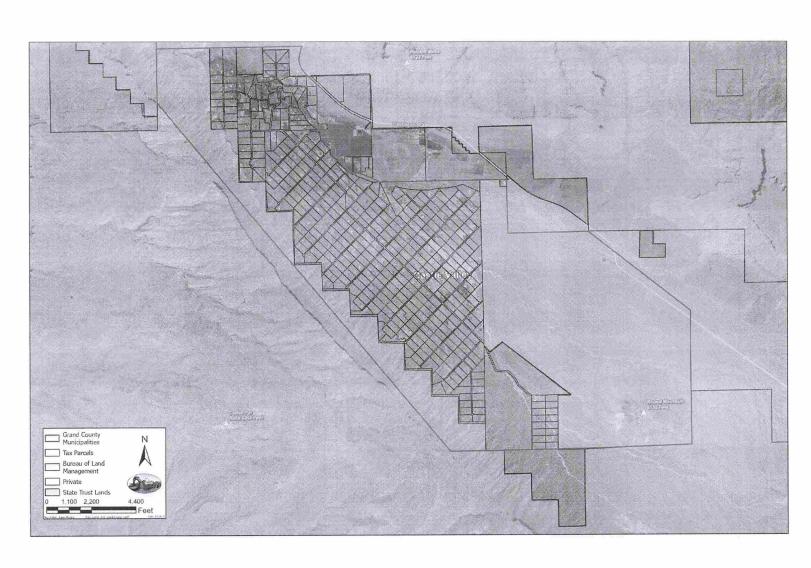
RMP fire setting information was added to the Power Outages section. There was long discussion/brainstorming on how to best update the Communications section. All the different communication companies and services were discussed along with their weaknesses in addition how power outages can affect communications in the Valley for several of the Hazards. It was decided to look into getting another radio frequency for Emergency Operations. Buck will find out from Gary Wilson if the Town can program its own radios. The State and Grand County is in the process of changing their frequency and radios the Town will need to upgrade our radios. Power Outage Strategies added;

Give out information on Power banks
Communications Strategies added:
Upgrade radios- find a grant
Develop an internal EOP communications Plan
Develop a Town wide communications Plan
Committee will work on ratings for these next month.
M Duncan asked to have the Water Committee look over the Drought and Water

ADJOURNMENT

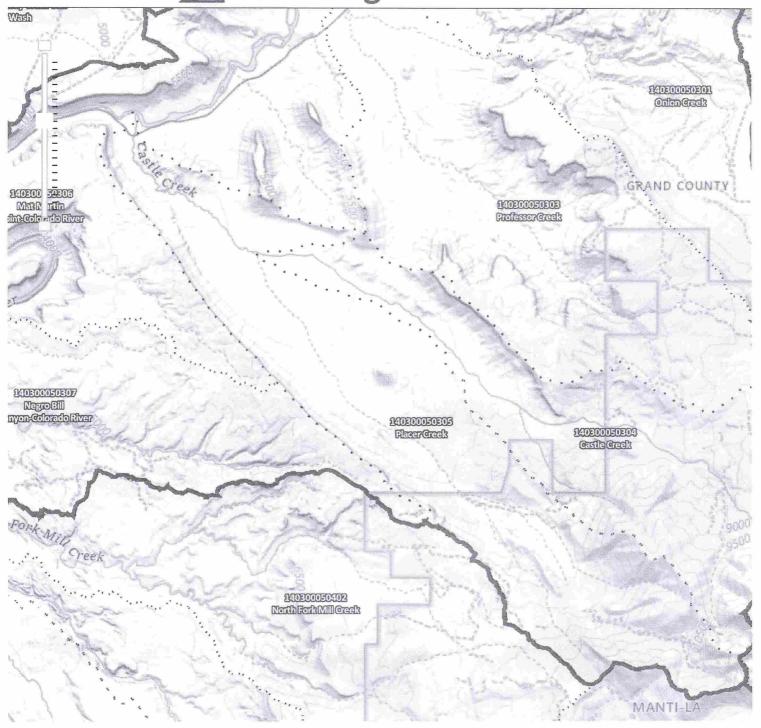
| Meeting adjourned at 8:06 PM | |
|------------------------------|--------------------------|
| Approved: | Attested: |
| Jazmine Duncan, Mayor | Jocelyn Buck, Town Clerk |
| Committee Chair | Date: |

Contamination and for Thompson to work on Subsidence for next month











Red Flag Days info, from NOAA Grand Junction office:

"A Red Flag Warning means warm temperatures, very low humidities, and stronger winds are expected to combine to produce an increased risk of fire danger."

https://www.weather.gov/lsx/redflagcriteria

"All three of the following criteria must be exceeded in order for Red Flag Warning conditions to be met"

Sustained 20 ft Winds: >15 mph Relative Humidity: < 25%

10 hr Dead Fuel Moisture: <9%

For Castle Valley region-

Season 2020 (Apr-Sept): 26 Red Flag Days Season 2021 (Apr-Sept): 22 Red Flag Days Season 2022 (Apr-Sept): 15 Red Flag Days Season 2023 (Apr-Sept): 20 Red Flag Days

- Information from Bruce Honeyman. You probably already know this-Bruce was the Fire Marshall in Boulder, CO for years. He actually lost his home in a fire in the foothills west of Boulder about 15 years ago, so he's been through this personally. He put together some information referring to a theoretical resort near Castleton. I can ask him if he would want to help with the HazMat Plan if you want me to. I don't know how busy he is these days. Here is an example of what he has worked on:
 - Attached is a spreadsheet that Bruce put together to look at the vulnerability of the Under Canvas project that shows several variables involved in fighting a fire at that site. It could be adapted to other scenarios too. He can explain the variables better than I can!
 - Also attached is a quick summary of some of his ideas about fighting a fire near Castleton.

Summary of Bruce's comments on fire containment at a resort development near Castleton:

A lightning-initiated fire is independent of the existence of a resort, as such, the threat of a lighting-started fire to CV is independent of a resort. But, clearly, the risk to a resort is substantial from the lighting-started fire

We could estimate the likelihood of a lightning fire starting on the western flank of the La Sals and it's relatively high, say once every four years. The problem we are confronted with is that a lightning fire start (something that, in principle, is quantifiable) has potentially a high consequence outcome, as recent fires show.

CV Comm Wildfire Plan shows Area Fire History since 2002 and how the fires were started

Here is a link to the CVCWP:

https://drive.google.com/open?id=1Dw2T32I7w7vYeAVvdjO1ck8p24vQjMYY&usp=drive fs

For a resort development, there are two primary sources of water: 1) an on-site cistern, which should be required as part of the development; and 2) water delivered via fire service water tenders. A resort will also have water available through on-site wells but the flow rate required for firefighting will vastly exceed the well's ability to produce water. A highly localized and low intensity fire could well be extinguished by well-produced water but the water distribution system that would be needed to protect the resort from such low intensity and localized fire would be quickly overwhelmed by any substantial fire.

The success of water delivery via tenders depends on 1) the rate tender filling; 2) the drive time for a tender from the water source to the at-fire distribution system (e.g., a 'porta-pond' with a dedicated attack engine supplying fire lines); 3) the tender emptying time; 4) the return trip time. Note that this is a three-vehicle configuration: 1) the supply engine; 2) the tender; 3) the attack engine. In addition to the water supply chain, firefighters need to be on site to operate hoses and suppress the fire.

For purposes of discussion, assume that the first large fill site is at the Castle Valley Fire District Station #1 on the La Sal Loop Road and that a 2,000 gal tender is housed at the station. Assume that the average speed of such a tender moving water up-grade is 15 mph. A 6-mile transit will take about 25 minutes. Crew assembly at the station will take 15 minutes depending on the time of day. This indicates that the arrival of the first tender could be 40 – 45 minutes after the initial emergency tone. Subsequent events required are the deployment of a porta pond, the arrival of an attack pumper and the establishment of a draft from the porta pond. Deploying a porta pond and emptying the tender could easily take another 15 minutes. This operation takes at least 4 personnel.

An attack engine pumping a 100 gpm would deplete the porta-pond with the 2,000 gal. from the first tender in 20 minutes. Clearly to maintain a flow rate of 100 gpm, a second 2,000 gal. tender

would need to arrive within the 20 minutes. If the return trip of the tender to the primary filling station takes 20 (downhill), the first tender 'relay' could easily take 1 ¼ hours. If the supply engine pumps at 250 gpm, the resupply of the tender would take roughly 10 minutes. Of course, other tenders will be in play but some will need to arrive from Moab. A continuous supply of water from a depot 6 miles from a resort site would require 6 tenders at a minimum.

A cistern at a resort that would act as a primary firefighting water supply should be at least 10,000 gallons (need to think more about this). The efficient distribution of water at the site (e.g., high pressure to multiple users—other engines, fire lines) will require a fire pumper with a substantial pump (e.g., a Type 3 engine). Depending on the origin and direction of the fire, the large cistern could substantially shorten the tender fill/transit/dump time but would still require a supply pumper at the cistern and attack pumpers at the fire line. The development of all of this firefighting infrastructure takes time and is crucial for the vital quick suppression of a fire.