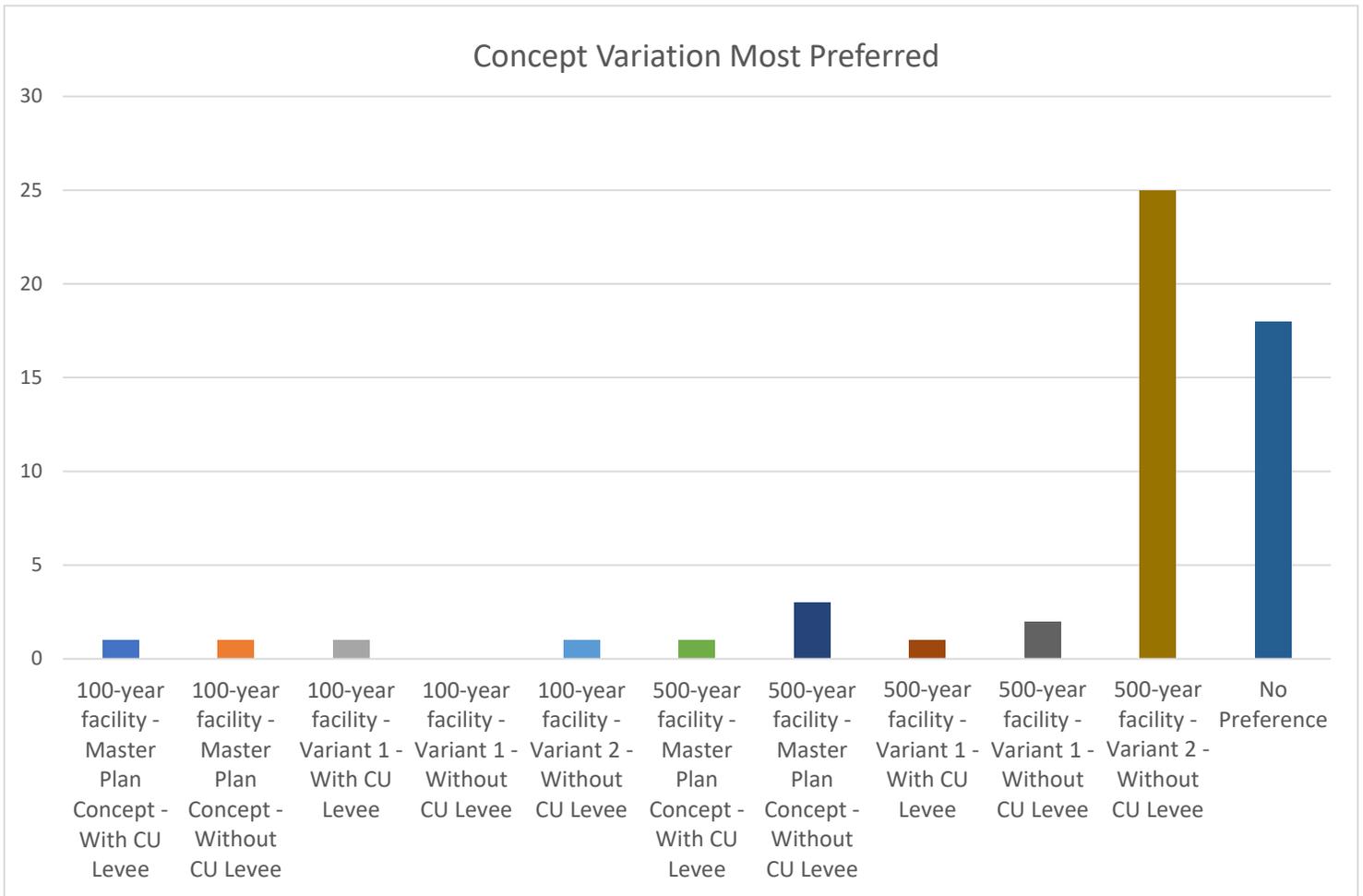


## South Boulder Creek Flood Mitigation Project

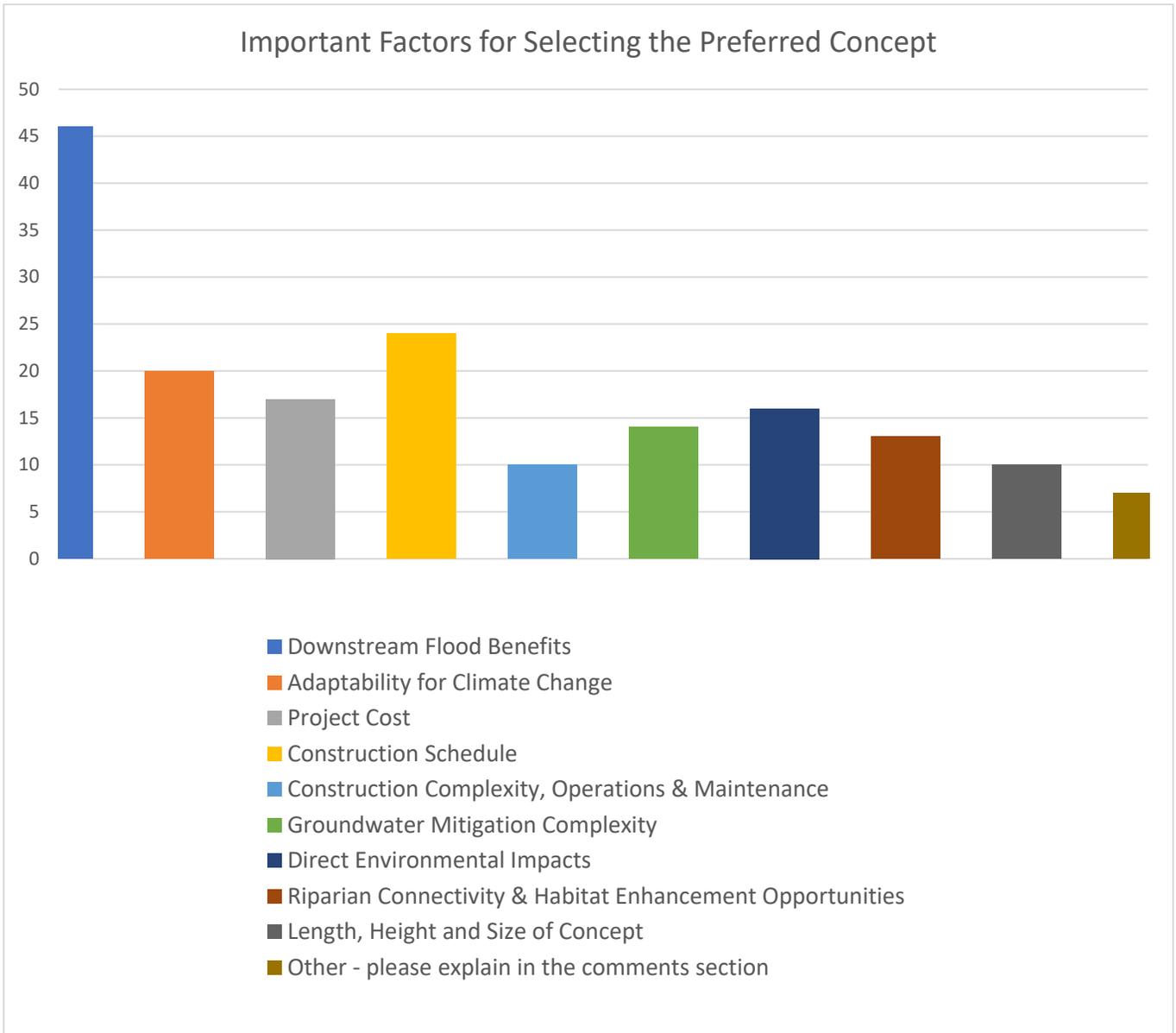
June 7, 2018 Open House Questionnaire Results

City staff hosted a second public open house on June 7, 2018 to provide the community with additional information and status of the South Boulder Creek flood mitigation project and present an evaluation of the project design concepts being considered. A questionnaire was provided to those in attendance and was also made available on Be Heard Boulder for ten days following the event. The purpose of this questionnaire was to receive feedback on the project concept variations. Fifty-eight (58) members of the community completed the questionnaire.

The table below illustrates which concept variation was preferred best by the community.



The table below indicates which factors were important to the community when choosing the concept variation they liked best. Respondents were able to select more than one factor.



In addition to selecting which concept variation was liked best and the factors that went into that selection, community members were asked to provide comments on why they made their selection.

**Please provide any additional comments on why you made your selection:**

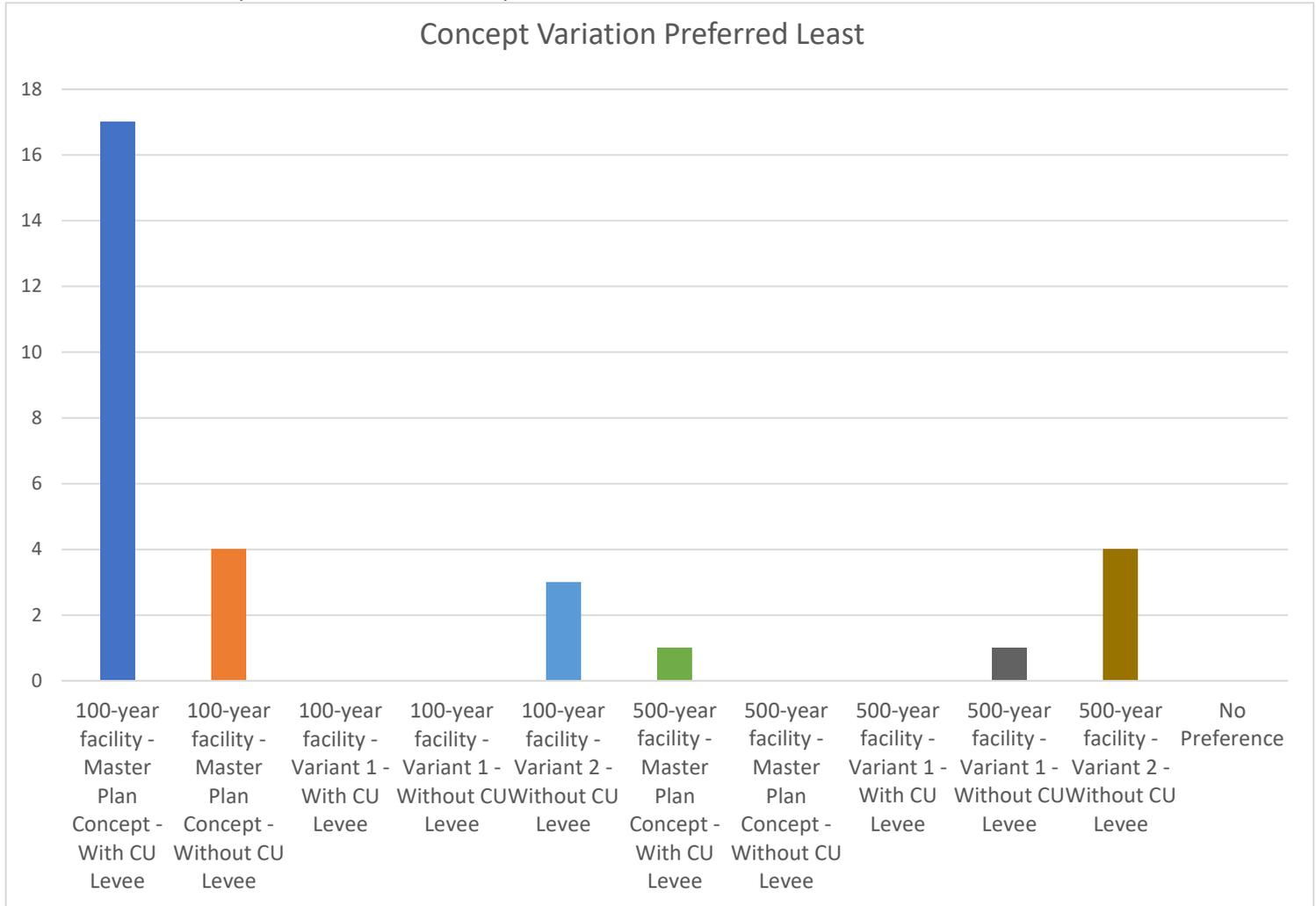
- Best protection for flood mitigation. Easiest to improve or upgrade in the future if more storage capacity is needed.
- I value speed and safety. Please move forward expediently with a plan that will protect our neighborhood from a 100-year flood event.
- Respondent likes the 500-year facility option. Also provided a public safety checkbox.
- I completely trust the expert to move forward with this project. I have listened to the engineers for several years now and know they have our best interest in mind. Please move forward ASAP.
- ASAP! Thanks for all your study. Please expedite!!
- Please don't worsen groundwater problem to moderate surface water flooding.
- When, how, and where are the concerns of the downstream residents considered? i.e. residents along Dry Creek Ditch #2. The most contentious part of Hogan-Pancost was groundwater, I'm NSHO.
- I sympathize with those impatient at the time frames involved. Is there any way to bring CU representatives into these public presentations? Because all options seem to provide approx. the same protection to housing, I would support any option that could be agreed to and constructed most quickly. I do agree the city should be more aggressive if necessary in dealing with the university.
- Chose the option you're going to pick quickly and get 'er done!
- also like 500-year facility - variant 2
- Repairs habitat and protects the largest # of people and structures.
- I would like to see CU turn land back over to City to preserve and restore this whole area as riparian, wildlife and recreational habitat
- Not wed to any one option. What matters to me is that floodwaters are prevented from overtopping US36 in the 100-yr. storm event and that the option can be implemented as soon as possible.
- Minimal impact and cost. Don't waste more \$ than necessary for a deficient solution.
- I do not think that the OSMP-owned State Natural Area should become a basin for capturing flood waters -- thereby degrading this important habitat and the rare and threatened species that live there.
- I have been involved since the beginning, and 500 yr Variant II, without the CU levee, is the best for all. I would not be averse to the 100-year Variant II, which might be marginally cheaper, but it should include the restriction under Hwy 36
- Not qualified to evaluate engineering designs. Decision must consider ongoing vulnerability and danger to 3500 people along with known climate change issues, and solution most likely to be agreeable to all decisional parties, including CU.
- I am unqualified to choose the best option
- As a flood victim downstream from the project, my driving concern is get on with preliminary design and construction. We have no interim protections available to us and the waiting is like playing Russian Roulette. Not to mention asking my "preference" (or any lay person) is a crazy

question since no one except for staff and consultant professionals can make the recommendations that the elected officials must then choose from. Soccer moms and dads that oppose this project can "prefer" the most complicated and expensive option thus delaying or disrupting the project... Just sayin'

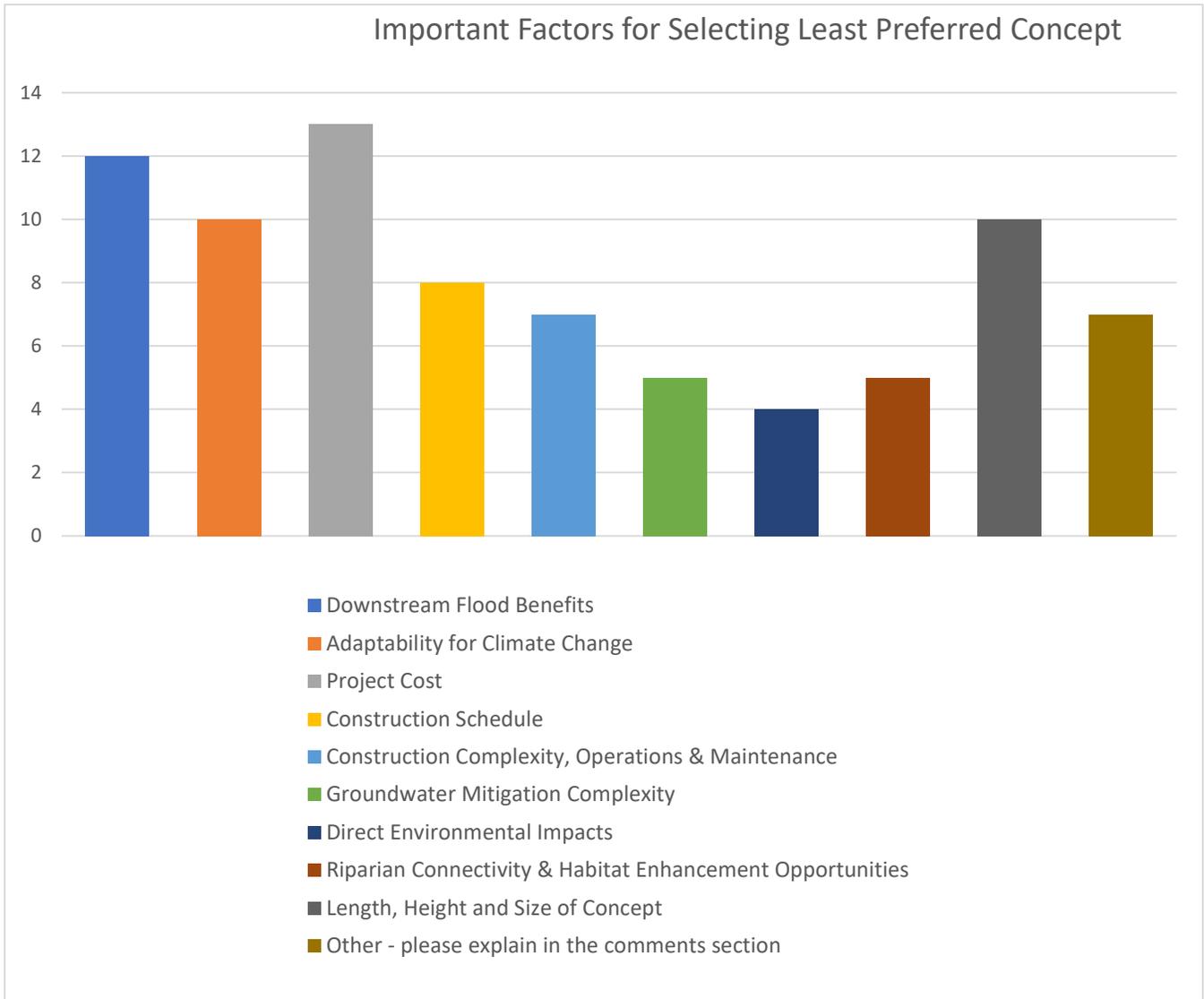
- Most if not all communities planning for future flooding have gone to 200 or 500-year plans. 100-year plan would be of little benefit to those of us in Country Club Park.
- 100-year mitigation does not protect enough. Other cities are using 250 or 500 years.
- Keeps the lake, simplest to maintain
- Groundwater flooding will likely be AGGRAVATED with any detention pond! These factors cannot be separated. Studies and SOLUTIONS must consider existing groundwater flow, as well as new pathways with water table raise ~ 20ft by detention pond.
- The environmental issues are significant for me. I like Variant 2 the best \*assuming\* it is acceptable to OSBT and OSMP staff.
- It has been five years, please just do something!
- I think concept #2 is the most reasonable plan. The CU levee removal gives water more room to be temporarily held.
- In the Sept. 2013 flood in Boulder, the Frasier Meadows Retirement Community and residents directly south of FM's campus were deluged with devastating damages to property, a loss of stability in feeling safe in our homes, and a sense of continued hopelessness as we impatiently await positive measures to be taken to prevent another such traumatic disaster.
- I am not a hydraulic engineer or flood expert. However, I do trust Boulder's engineers and water board experts. They and CU and City Council should select the best approach - NOT a bunch of us private citizens with our personal points of view.
- Please chose one and get started!
- I trust that the engineers will choose the right variant... just get it done NOW!

Conversely to the first table, community members were asked which concept they liked the least.

The following table illustrates which concept variation was liked least by the community. Thirty (30) out of the 58 respondents answered this question.



The table below indicates which factors were important to the community when selecting which concept variation they liked least. Respondents were able to select more than one factor.



Again, community members were asked to provide feedback on why they made their selection.

**Please provide any additional comments on why you made your selection:**

- Your charts indicate that this is the least good option for many reasons.
- least favorable comparison with my "best" selection
- Least mitigation
- "One chance to get this right. Best solution is land exchange with CU and reclaim and protect this property for public use, flood safety, and environmental protection. Respondent does not favor any 100-year facility options."
- if 500-year facility - Variant 2 can be done as fast as other options, it appears to be a no-brainer. If not, I would change my answer to whichever can be done most expeditiously. Cost difference seems negligible.
- "The structure should retain flow from Viele Channel so that does not contribute to flooding along Dry Creek Ditch #2. Flood control along Dry Creek Ditch #2 needs to be addressed! This can be partially and inexpensively addressed by; 1. cleaning and maintaining the ditch; 2. Add a small berm at the north side of the Manhattan Middle School fields to retain some of the flood water. This can be further addressed (more expensive) by; 3. lining and widening the ditch (this would assist with groundwater issues); 4. re configuring the topography of MMS fields so that it will better serve as a flood retention basin. A berm at only 1-2 feet high would likely significantly reduce flooding at Aztec Dr. Items 1 and 2 should be performed now. Items 3 and 4 would be part of Phase II"
- Way too expensive
- I do not think that the OSMP-owned State Natural Area should become a basin for capturing flood waters -- thereby degrading this important habitat and the rare and threatened species that live there.
- I fear that CU will not be willing to accept this revision as it appears more invasive.
- I am unqualified to choose an option
- See my comment above
- My #1 priority is saving of life and property.
- Any plan with a siphon is safety and maintenance nightmare.
- All the versions that retain the CU levee seem problematic for environmental issues. The original Master Plan versions do least to benefit downstream neighbors.

**Additional Comments about the flood mitigation project:**

- This needs to be handled in a manner that represents serious recognition of physical and geotechnical conditions, and NOT with City - Cu politics
- I wonder about downstream interactions with Boulder Creek
- ~ Need more research, data and mitigation regarding groundwater. Need to include in Phase 1 the Viele Channel and Anderson Ditch. Need to include maintenance and upgrades to all drainage ways that are part of the area in which the ""Phases 1, 2 & 3"" of the SBC Flood Mitigation Plan are being addressed. For Phase 3 golf course detention, additional factors of Howard Ditch, the concrete box channel under Arapahoe Ave. and the open channel through 5847 Arapahoe Ave. need to be mentioned, included and addressed.

- Please do what will benefit the highest number of households with the least environment impact.
- I have no real engineering preferences, I'm not a hydrologist so I don't know the pros and cons. I also don't live in the flood plain, so I have no skin in the game. As a taxpayer, I vote for the lowest cost solution. I would not support any of the 500-year plans, that's over engineering and it would make more sense to use the money to simply buy insurance. Rather than attempt to protect against black swan events, we should just insure ourselves to cover those rare events.
- Thank you for the excellent info provided today.
- Thank you for all your time and patience. Presenting this over and over must not be easy. you are doing a great job!!!
- Appreciate all the hard work staff continues to do. Thank you. I support moving forward and quickly with this project.
- I am very happy to see that city staff adopted a town all presentation format, and also that serious variations from the original Alt. D are being considered.
- I appreciate the efforts the city employees put into the design and presentation of the options. I hope the political representatives will be as diligent.
- Reminder Emails would be good too!"
- You need to fast track this. An outside end date of 2022 is absurd, and I think reflects that some are not considering this to be the truly urgent health and safety issue that it is. Please protect Boulder residents, shave off every day/week/month/year from this process that you can!
- As a retired engineer who has been following this issue since Flatirons Gravel owned the (now) CU South property, I have little hope that a solution will be achieved in the near term. You need to first write a REQUIREMENTS DOCUMENT that clearly defines the storm event that is being used as a baseline, how to define the flow to be considered, what level of mitigation must be achieved and what constraints are in place (Viele Channel, existing mitigation, et al). Once all parties have agreed to the stated requirements, you can then pursue a solution.
- As the engineer said: ""one of the biggest challenges is to allow groundwater to migrate as it does today"" I don't think anyone knows how to do this or will begin to know this until 2020. We must not put the cart before the horse.
- Need to continue having the community-members' panel."
- I'm disappointed that you are not addressing the water retention at Foothills & Baseline. Or the drainage ditch wall height which is the reason so many N of Baseline flooded. I understand it's in phase 2, but that's so far down the line as to be of little importance to current residents. It's very disappointing!
- This has been so studied and yet we are not even to Preliminary Design. It is unthinkable that the flooding vulnerability of these residents has been known for so long, and yet the City/City Council has not acted, yet they swear to protect the safety of its residents.
- I don't know which option is best but the powers that be need to make a decision and get on with it for safety's sake. It's been 5 years since the flood and the effects of global warming are increasing!
- We are already 4.5 years into this discussion and it seems to drag on... The greatest responsibility of Boulder City government is to protect the health, safety and welfare of its citizens. It is explicitly the City Charter in at least five places. This is a known threat to our very

lives! We can't keep having repetitious processes (open houses, "listening sessions, etc.) eating up valuable staff and consultant time delaying the project. Please move forward quickly!

- Needs to be done ASAP!
- CU levee must go in any case: It's just in the wrong place.
- I am generally concerned with the city's casual approach to data collection through questionnaires (including this one... ). The samples are not systematic, and the loudest voices have the most say.
- "Our priorities are: 1. an immediacy of action for flood mitigation ASAP involving an ASSESSMENT of the problem, a feasible PLAN and ACTION taken! Is most frustrating to be totally dependent and to have little, if any assurance, that anything productive will occur during the next five years or even longer. Uncertainty and realistic sense of peril dominate our thoughts, and each heavy rain locally brings fear and tension in our minds and hearts. With regard to the SBC flood mitigation project, the words of two former US Presidents carry a strong message: "The most practical kind of politics is the politics of decency." - Theodore Roosevelt "There are risks and costs to action. But they are far less than the long-range risks of comfortable inaction." - John F. Kennedy"