

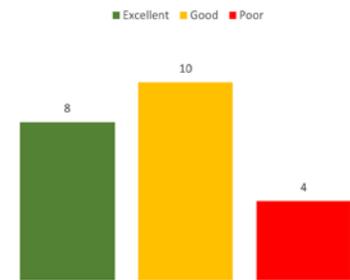
Value Study Idea Ratings

The Taylor Creek Value Study took place in mid-June. The Value Study team consisted of an expert panel recommended by the Value Study consultant firm and reviewed by SPU, SPR, and Friends of Dead Horse Canyon. In August 2023, SPU held two community meetings (one in-person, one virtual) to share the initial Value Study concepts to help inform which concepts to explore in more detail. At each meeting, we shared the Value Study ideas, provided a brief description and asked attendees to rate each idea as "Excellent," "Good," or "Poor." We also discussed ideas in more detail with small groups and collected comments for each ranking. Below are the proposed ideas organized by category, along with charts illustrating the number of ratings we received for each idea. Ideas were rated as "Excellent," "Good," or "Poor." All comments provided in association with responses are included below each idea.

Control Erosion in Canyon

Idea CE-01: Place only timber frame structures strategically along banks of creek to help shore banks in areas without large wood structures.

This idea proposes to install timber frame structures along areas of the bank that are eroded regardless of whether there is a proposed large wood structure planned in the channel adjacent to the timber frame. The timber frame acts as a wall of sorts providing support to the bank and new vegetation. Without a corresponding wood structure in the channel, there is risk that high flows could undermine the timber frame and wash out vegetation.



Comments (Excellent)

- This in combo w/ boulders has been a quick + naturalizing solution along Cedar River in Renton/ Maple Valley
- Seems practical and cost effective
- Focus on stopping sediment from house + street above Taylor Creek
- This seems good to me but I think the restoration/ conversation experts should have the final word on erosion control methods

Comments (Good)

- Could be useful in specific spots where bank stabilization is most important.
- The placement of timber frame structures along the banks of the creek appear far simpler and less invasive than placement of the large wood structures.
- Large woody structures... requiring much larger equipment, etc.
- Ok, but why not with woody structures
- Sounds practical if it works
- Maybe as a short term patch
- Seem like a partial solution for targeted areas rather than a full project use
- With boulders ALSO is better idea in combo but how to get them in?
- Meh. I have concerns that timber storage would impact wildlife and the look of the creek

Comments (Poor)

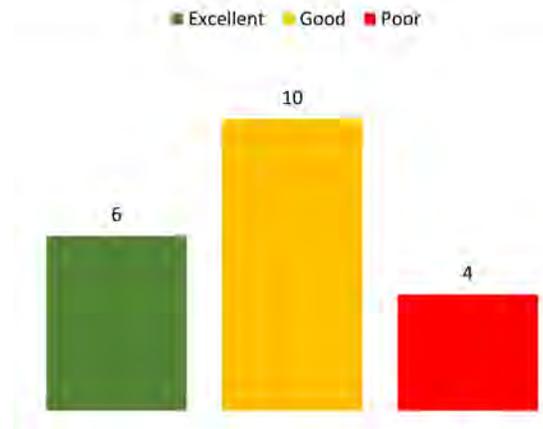
- Where are your criteria for appropriate urban park design. Can't control [illegible] in a vacuum
- Possibly unhelpful BUT could hear more!
- With climate change those 100 year storms are occurring more frequently. Rain storm several years ago washed away beach and flooded area where demolished home stood

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Idea CE-05: Create constructed storage wetland at location of the historic wastewater treatment facility in the East Fork

This idea is intended to create some of the benefits of having a headwater wetland, similar to the one that is located upstream in the west fork of Taylor Creek. A wetland has many benefits such as treating stormwater, providing storage of both water and sediment, slowing flows and providing unique wetland habitat. A constructed wetland would also require periodic maintenance, complex permitting requirements and concerns regarding slope stability from surrounding neighbors.



Comments (Excellent)

- Would provide some sediment control in the E. Channel where the problem is worse and would provide a method to improve water quality coming from that fork.
- Perfect sense of use of storm water basin to avoid future land slides flooding and has the most impact (positive) in our ecosystem
- Makes sense as part of project scope
- Best for our future!
- Great for wildlife!! For water management/stormwater, how/where would access be needed to construct + impact?
- Pluses: Wetland, complex process & maintenance could lead to ongoing investment/ connection of community

Comments (Good)

- I love this idea. Another entrance to park! Would increase property value in area
- I like the idea of reusing an existing structure. Doesn't address slope future
- I feel like this could work but worried it would further erode the area that the wetland is
- Not sure of feasibility & realism
- Would like to hear more on this
- A partial solution for a [illegible]. Don't understand the difference between [illegible]
- This makes most sense for dealing with fluctuations related to storms

Comments (Poor)

- Doubts about this
- Oh I don't like this what you are saying. I feel poorly about CE-05. I like looking at the cave near there!
- Storage wetland sounds lovely BUT that area is very steep & lots of clay in hillside. Would this destabilize property above on the hill?

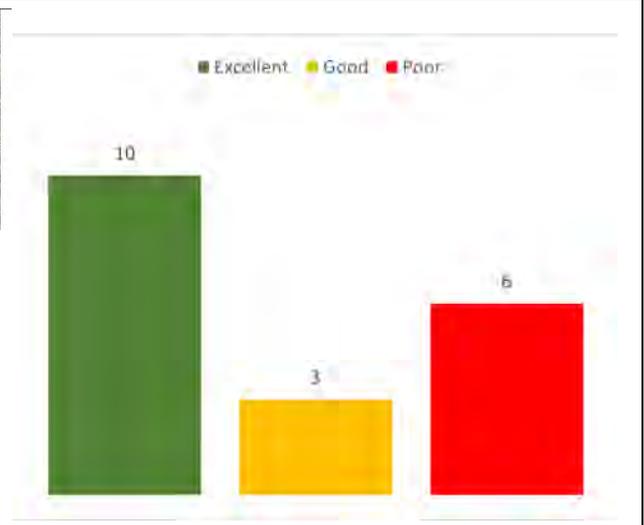
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Minimize Construction Impact

Idea MC-02: Access only along channel from downstream and upstream directions as appropriate

This idea eliminates any need for a temporary road into the canyon by using the channel itself as the "road" by bringing materials and equipment directly up the channel. Currently, there is only one location to access the channel, near the trailhead at Holyoke Way S. so everything would come in and out from this point.



Comments (Excellent)

- Especially if it is possible to re-establish the old access road that exists at the upper end of the canyon.
- Like. No road and habitat degraded
- Zipline - damage to habitat
- The combo of MC-02 & MC-06 seem like a great compromise. Given that the stream is a disaster already, this allows using it as the "roadway" while rebuilding/fortifying as you back out to the start again. *(comment included for both MC-02 and MC-06)*
- I like the idea of using existing access points that don't damage the canyon or trees or wildlife
- Yes huge impact to the creek but it needs massive restoration anyways great plan as long as old growth less impact to the forest is more important than the cost and time savings

Comments (Good)

- Concern about damaging the stream bed and needing to do more work to rehab it later
- Good because less damage thru road. Streambed restoration also after

Comments (Poor)

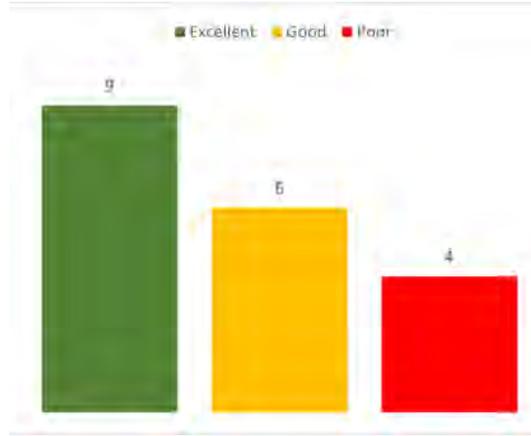
- Seems very disruptive to neighborhood and trailhead
- Concerned about destroying or poisoning stream
- "Road" implies permanent
- ALL BAD
- Concern about destruction of ecosystem and natural habitat
- How would this not overly impact the creek bed + ruin plant + animal habitats? Not good to me!

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Idea MC-06: Assemble mechanical equipment in the canyon for use and disassemble to remove

This idea focuses on utilizing smaller equipment that can be hand carried up the channel, then assembled in place to assist with bringing in and placing materials (such as wood structures or boulders). This method would have less impact to surrounding vegetation than utilizing larger machines but be time consuming and significantly increase the duration of the work.



Comments (Excellent)

- Opportunity to minimize safety risks to contractors while optimizing placement of wood structures for maximum sediment capture
- Additional enhancements could be achieved by placing timber frames at strategic locations & strategic planting
- The combo of MC-02 & MC-06 seem like a great compromise. Given that the stream is a disaster already, this allows using it as the "roadway" while rebuilding/fortifying as you back out to the start again. *(comment included for both MC-02 and MC-06)*
- Less impact to the forest is more important than the cost and time savings
- The least impact to the canyon long-term the better! I would like for the trail to stay open during construction
- Love this - makes a ton of sense for the area and project goals
- Sounds feasible and less expensive/ damaging

Comments (Good)

- I prefer to limit mechanical equipment in the canyon as much as possible. However, okay to use limited temporary mechanical equipment as necessary.
- Good but is this the time extension worth it?
- Less impact > time + cost
- Makes sense!
- Assembling equipment to do work that has limited impact on plants + terrain, but NO road!

Comments (Poor)

- Not a good idea to me!
- ALL BAD
- This is an obfuscation of managing entire park for humans + ecosystem

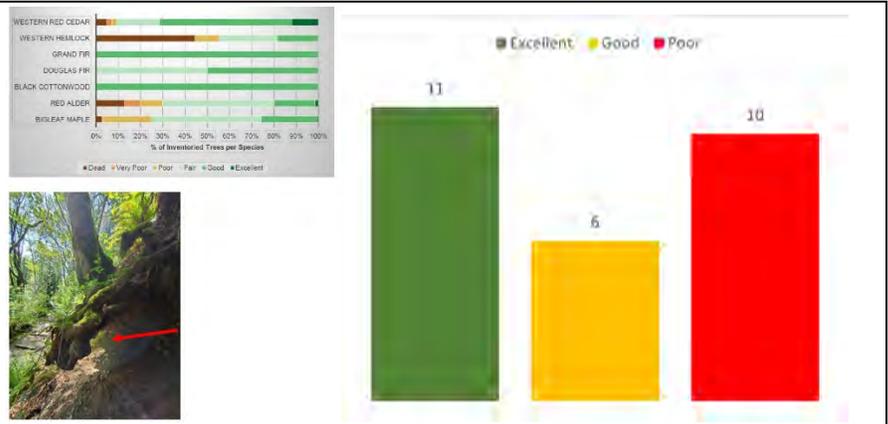
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Materials Delivery Logistics

Idea MD-01: Use identified hazard trees on site as a source for logs and rootwads

This idea proposes to cut down trees that are viewed as hazards to users of the trail into the canyon, and to use those trees in (or as part of) the wood structures in the creek. Doing so would reduce risk to people on the trail and could be a cost savings (and convenience) by using onsite materials. This would result in removing a portion of the tree canopy and there could be additional vegetation disturbance.



Comments (Excellent)

- This is common sense.
- Excellent in combination with other methods, because it doesn't seem that there are enough hazard trees that would do the job.
- Excellent - if hazard trees are dead and dangerous
- As long as the trees are safely removed and the slope is re-stabilized, seems like a no-brainer to use material that is already in the canyon to simplify construction logistics.
- Safety for hikers and use of hazardous trees anyway
- Several trees fall across 68th Ave S & Holyoke every fall/winter. Would be great to be proactive & remove them
- Two birds one stone
- Great use of resources
- Great use of native materials also materials already in place
- I think y'all know best and whatever makes the most sense to the experts is how you should proceed

Comments (Good)

- Good to use as much as possible.
- Great idea to remove hazardous trees
- Interesting and resourceful idea, however dead trees are incredibly vital for a thriving forest and provide habitat for other organisms
- I like this but have concerns about how trees would be chosen, worry about "hazard" being applied too broadly
- Good to use hazard trees BUT who determines if a hazard? Some tagged trees are healthy ancient evergreens - please protect all that can be saved
- Unrealistic based on # of trees in this condition pacifying the community with this one NOT very good

Comments (Poor)

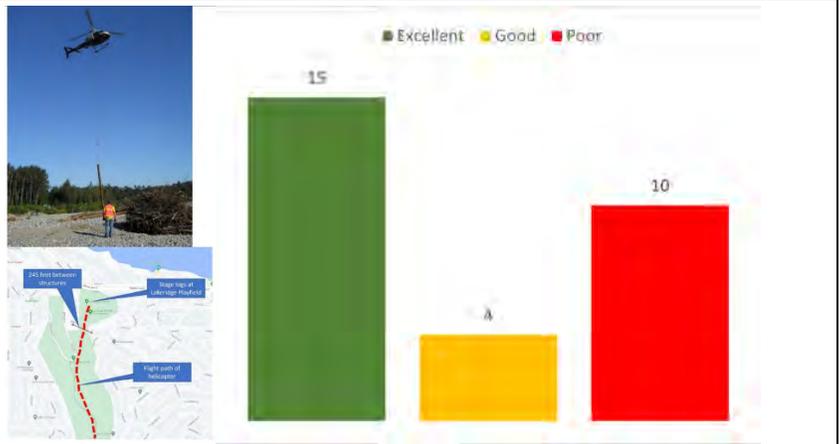
- Risk of opportunistic "logging" by identifying a hazard tree simply to provide more wood for the project, it definitely will remove canopy.
- Recommend leaving at risk trees that will naturally fall into the ravine over time alone
- No selected tree removal. Why? How many are you referring to? BAD IDEA
- I don't like the idea of cutting large old growth trees down. What will be the selection requirement
- May be good if limited to truly hazardous but [illegible]
- What is considered hazardous? Who decides that? We need to keep as many of the older trees as possible
- Would be concerned at what is defined as hazard trees
- As long as only truly hazardous trees are removed maybe downed trees can be used over time as they fall
- Really concerned about what constitutes "hazardous" too subjective

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Idea MD-02: Use helicopter delivery for materials

This idea proposes using a helicopter to get the large wood and other materials into the canyon during the winter. The helicopter would need to utilize the newly renovated Lakeridge Playfield for log staging and then fly the materials into the canyon where they would be stockpiled in several locations for later use. While the actual helicopter use is expected to be around one week, preparing and restoring the playfield could take up to 3 months.



Comments (Excellent)

- It's been done locally before
- Excellent -- assuming playground and basketball courts stay open. Seems like least impact to canyon
- Safety would obviously be a concern for the team delivering materials in winter months with weather issues. Sound could be an issue for the neighborhood but assume it would be limited to a few days of material delivery.
- Best idea of the bunch, more precise location delivery, much shorter time frame for delivery, much less impact on the forest and ecosystem than any other proposed method.
- Excellent to use as much as possible to minimize other adverse impacts on the park.
- This is my first choice.
- I like suggestions by FODHC to use helicopters and minimize cost.
- The helicopter solution is the least damaging to the trees and would only shut the park for 2 weeks
- Best choice
- Least damaging to trees
- According to the scientific panel this option will cause the least damage to trees. Is a common practice that has been done before, and won't take too much time
- Having seen helicopter forestry in action lots of really long stuff - and lots of it - can be moved well. Stockpiling for future needs makes sense
- Scientific panel felt most strongly for this option + due to time frame this is an ideal/ less harmful idea

Comments (Good)

- Damage to canopy
- Good, less destructive option, temporary closure of playfield
- Wish this would work but the risk to old growth everyone is concerned about seems too high?
- Good to use helicopter in canyon w/ less destructive land moving options

Comments (Poor)

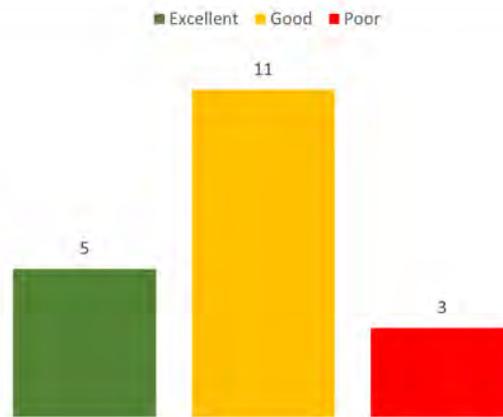
- Not at all interested, there for helicopter delivery of walking bridge and it had its problems.
- Seems environmentally wasteful with CO2 emissions + noise
- We should avoid disrupting the park/ playground. The community needs and uses that space
- Sounds unwieldy, dangerous and expensive
- We just lost access to the park for construction, would reconsider if we could fence off and keep a portion open
- The noise and closure of the playfield makes this idea a no go
- Helicopter was used 23 yrs ago to deliver lumber/ actually efficient
- Obnoxious

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Idea MD-06: Use small tracked vehicle (ATV) to haul logs and other materials along existing trail

This idea proposes to use ATVs and carts to transport materials into the canyon on the existing trail with minimal to no modifications but may present challenges with getting the materials from the trail to the creek, or taking longer to deliver because there would only be enough room for one way travel.



Comments (Excellent)

- Seems much less intrusive + destructive
- Low impact
- This seems like a good way forward to me but obviously you are the experts
- May take longer, but less impact is worth it

Comments (Good)

- Potentially use some of these ideas for other parts of the project (could work well in some places & not others)
- Wants least intrusive option
- Better than a road, but noise could be an issue for adjacent homes. Ideally the material movement could be limited to a handful of days, staging the materials in appropriate places.
- seems like a feasible option, unsure about disruptions
- better than a road, but ATVs could be loud - community and habitat impacts during construction
- better than building a road, takes much longer time and closure of park than MD-02
- It's better to have as little disturbance as possible. ATV would be the better option
- Definitely a good option, however what type of damage would happen to the trail? What would it need to be restored?
- Minimal impact but needs [to be] combined with other ideas like MC-06

Comments (Poor)

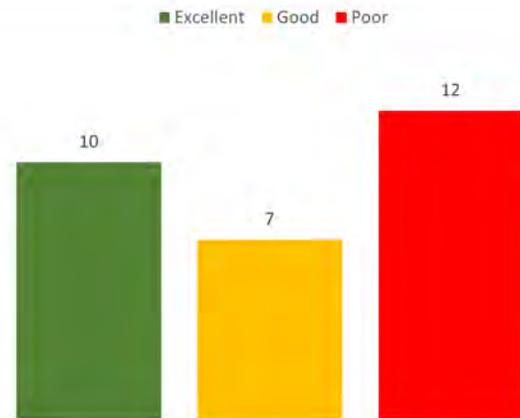
- No. Damage to trail & too loud
- Still damage to trail? Ecosystem

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Idea MD-08: Buy a property in the right location and install slide or highline for material delivery

This idea involves purchasing a property along the rim of the canyon, tearing down any buildings, and using a slide or a highline to get materials from the top of the canyon to the channel. Property acquisition, permitting and demolition would take a minimum of 3 years



Comments (Excellent)

- Give homeowner incentive to sell
- Property can be redeveloped - getting money back from the property after the project
- Turn this property into a public access point
- LOVE THIS especially given that there are abandoned + derelict properties in perfect locations
- Yes! But only those that want to sell OR the condemned house with collapsed roof on 69th Ave S.
- Love this idea
- Love this idea. It gives the park an additional entrance and more opportunity for recreation.
- Unpopular opinion - I love this idea. Especially if its the abandoned house on 69th
- Absolutely - if it makes sense in the larger context of the whole project

Comments (Good)

- Could be good for person who sells, but could have impacts to nearby neighbors
- better than a road but logistical challenges are numerous and might cause more damage to the forest
- potentially use some of these ideas for different parts of the project (could work well in some places and not well in others)
- Pro: new access to creek for public; con: gotta get lucky
- Only if there is a willing volunteer I think this is a great idea. Having a new small park would raise property values
- Only if voluntary or abandoned
- This is a good idea but will take FOREVER - SPU will be the subject of nasty misinformation campaigns

Comments (Poor)

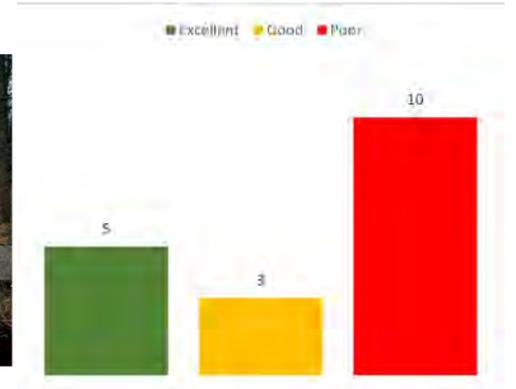
- Seems like this could damage the forest, and the slope stability where these are used. Would cause impacts to adjacent homeowners, devaluing the homes until the construction is complete.
- I can't imagine a full lot's dwelling missing
- This should be clarify we as owners we have the option to sell. Not condemn
- This is a ridiculous option with no recourse for property owners. Hate it!
- High impact on surrounding neighborhood
- You still need other ideas like M-02 and M-06 to make this work. So I question what unique value this idea has
- Value Study Report suggests sale/condemnation. Please make a commitment that condemnation is off the table
- If eminent domain is used otherwise it's a good idea
- No, absolutely not. The city does not need to buy anything
- The "slide" aspect of these two ideas is too destructive

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Idea MD-10: Use pack animal delivery for materials

This idea proposes to use pack animals or draft horses to transport materials into the canyon on the existing trail. This could take advantage of the existing trail (with modifications) and may present challenges with getting the materials from the trail to the creek, or taking longer to deliver because there would only be enough room for one way travel. Extensive trail restoration would be required.



Comments (Excellent)

- Excellent to avoid machine automation if possible.
- Fun!
- City Light has the machines to bring in new logs. Also, use the problem trees in the area. Timber frame structures
- Excellent idea
- Your criteria do not include how to enhance appropriate human use in canyon

Comments (Good)

- Really trendy and a lot of media for it, but wouldn't advance the project or what is necessary.

Comments (Poor)

- Seems like a slow process which would extend the construction process and park closure and will do more damage.
- Better than building a road, for sure but logistically difficult and more impactful than other options.
- Do not use animals for work
- Danger for animals/ moving injured animals
- Damage to trail and wildlife
- Too destructive
- I'm familiar with the canyon, it could be unsafe for animals
- You talk about salmon but not human use

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Idea MD-12: Use winches and hoists to assist with material delivery

This idea proposes to use winches and cables to move materials up the creek channel from Holyoke Way S. and then aid manual placement. This method may be suited to move smaller wood or logs into the channel and may increase the construction duration.



Comments (Excellent)

- An excellent partial solution to be used in conjunction with other measures
- Low impact to the rest of the environment
- Seems less disruptive
- Where applicable this seems totally reasonable
- Good, reliable, low-tech option

Comments (Good)

- Might cause more damage to the stream channel than optimal ideas
- Wants least intrusive option
- potentially use some of these ideas for different parts of the project (could work well in some places and not well in others)
- Could cause more damage - neutral on this idea
- better than a road but logistical challenges are numerous and might cause more damage to the forest
- Seems like a solid middle option would love to know more
- Worth exploring

Comments (Poor)

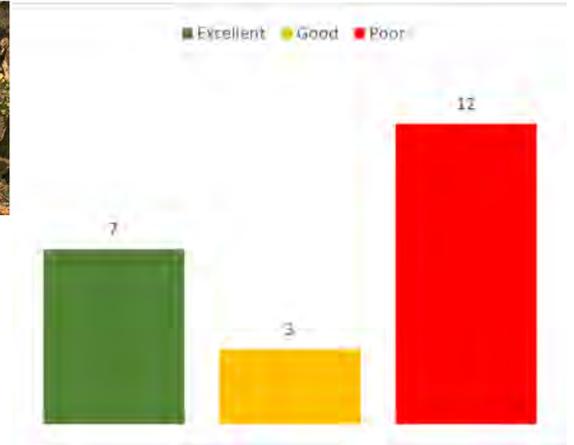
- Could be opportunity for risk (i.e. dropping materials)

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Idea MD-21: Use existing easements to establish slide or highline to bring in material

This idea involves using existing utility easements along the rim of the canyon and using a slide or a highline to get materials from the top of the canyon to the channel. While this idea does not require lengthy property acquisition, the location of the existing easements presents a challenge to getting materials throughout the canyon. The width of the easements presents another challenge for large equipment that would need to be situated at the top of the steep slope.



Comments (Excellent)

- Seems like a given for this project - fewer impacts
- Likes this idea the best as a solution - engineering
- Makes sense + minimally damaging
- Absolutely if this gets material to needed locations. Won't work for the entire length.
- Love this. Is the most "good faith" and utilizes assets SPU clearly as rights for/ does not shift the trouble to others
- Sounds great!

Comments (Good)

- Potentially use some of these ideas for different parts of the project (could work well in some places and not well in others)
- Similar to MD-08
- Combine w/ other suggestions this could work - but standalone it will take forever

Comments (Poor)

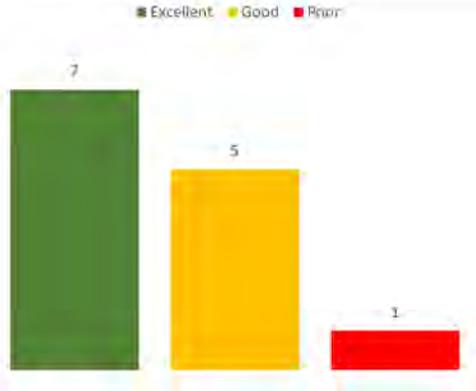
- Seems like this could damage the forest, and the slope stability where these are used. Would cause impacts to adjacent homeowners, devaluing the homes until the construction is complete.
- Want to keep canopy as much as possible
- Seems potentially damaging to trees as well as ground dwelling animals
- The whole thing is a bad idea. I think this will disrupt residents and wildlife. The trail is fine as is, as there are plenty of trails in Seattle to walk
- Damaging to trees
- Sounds like it is still high impact on surrounding neighbors, not clear where this would be.
- I think if it impacts private properties this is a bad idea. Regardless of easements
- Realistic staging in areas noted?? Impact to neighborhoods
- Takes too long. Potentially highly damaging
- The "slide" aspect of these two ideas is too destructive

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Idea MD-22: Use logs spanning channel, built as you go, to move materials up the streambed

This idea proposes constructing a skid road of logs up the channel, and spanning the channel, to act as a road to bring in materials with winches and a spider excavator would place the materials into the channel. This may be less labor intensive than hand carrying and could accommodate larger logs; the skid road would be difficult to construct and use within the 2-month required work window.



Comments (Excellent)

- Site by site organization and reuse is attractive to me.
- Seems like an efficient process with potentially minimal impact depending on how the skid road logs are brought in at the beginning.
- This has an advantage of keeping trail open
- Requires great skill & care but combined with ideas like MC-06 and MD-12 this is promising to be minimally destructive
- In theory, a really good idea of [illegible] access & realistic concerns for [illegible]
- Another great, low-tech solution that is tried and true

Comments (Good)

- Novel idea, could be used in specific parts of the canyon where other methods are less amenable but will require some highly specialized skills from the contractor.
- Low damage to trail environment
- This seems like a great partial solution - not feasible for the entire creek

Comments (Poor)

- Will take forever and face a lot of resistance from Friends of Dead Horse

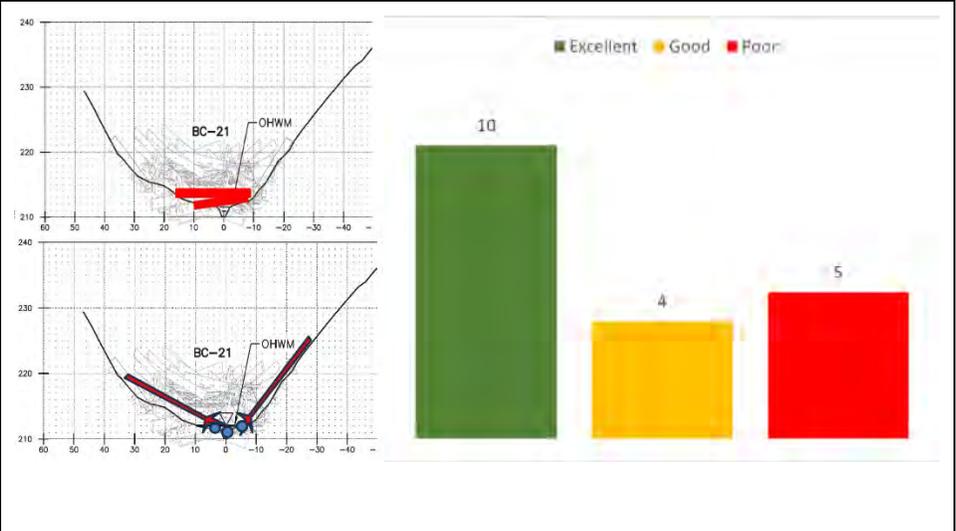
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Retain Sediment in Canyon

Idea RS-06: Use smaller structures initially and return in future years to increase placements where required

This idea proposes to install smaller accumulations of wood at more locations throughout the channel. Additional wood would need to be stockpiled on the channel banks for future installation after a period of monitoring. Several different wood configurations are possible, two are shown below. This idea would require ongoing monitoring and future construction efforts in the canyon within a few years.



Comments (Excellent)

- Boulders could be used to enhance or replace the structures.
- Better fish passage, smaller impact on ecosystem, scalable
- Essential creeks are dynamic - this isn't one and done. Must have longer term commitment
- Yes, this preserves trees
- Excellent idea - incremental approach
- Love this, especially the multiyear monitoring and commitment it would entail. Could build a real connection with the community.
- Most practical, effective
- Excellent opportunity to assess result less damage + cost

Comments (Good)

- Good if the City thinks it can get a reasonable amount of time from the initial work before having to increase placements again.
- RS-06 and RS-07: Neutral on both based on information presented.
- This seems like a decent long-term commitment to this project.

Comments (Poor)

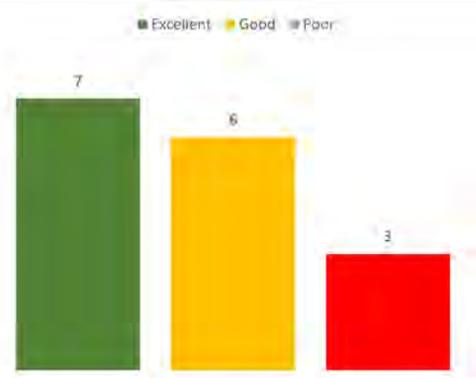
- Seems like it would create future closures for the park and potentially on-going construction rather than solving it the first time.
- Seems like "kicking the can down the road". Sediment overflow will still definitely happen and another round of clean up will be required years later without having solved the problem
- We don't like this idea
- I don't like the idea of having to come back
- This idea is the worst. It only punts the project down the road

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Idea RS-07: Use boulders or boulder clusters to help retain sediment

This idea is to use large boulders as the sediment retaining structures in the channel. The boulders could be installed to form steps which may be better for upstream fish passage but could be difficult to deliver and install (each boulder between 1,000-3,000 pounds).



Comments (Excellent)

- Uses existing materials, appearance more like existing streambed, less likely to wash away, fish passable
- Good + Excellent but how get additional boulders in + environmental impact of that?
- Creates more habitat for salmon babies and critters
- Will give salmon hatchlings more opportunity at hiding
- Boulders + logs used along Cedar River in Renton has already started to naturalize nicely

Comments (Good)

- RS-06 and RS-07: Neutral on both based on information presented.
- Seems like a fair idea and easier to use the material that exists rather than hauling it in. Simplify the construction process and minimize cost of new materials.
- makes sense to use as much as possible since the boulders should last longer than wood structures. However, the wood structures may be more fish friendly.

Comments (Poor)

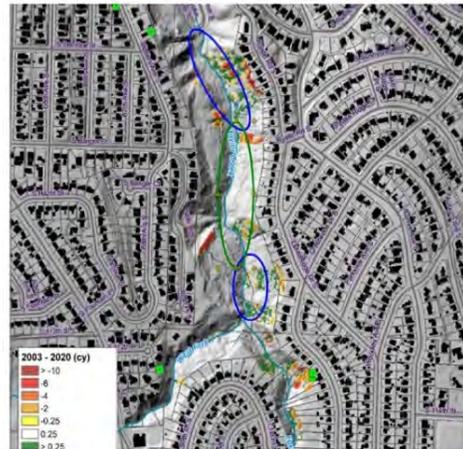
- You do not provide sufficient info on appropriate urban park [illegible] to evaluate options
- What damage will be done to get them in?

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- Email the project manager at Katie.Wilson@seattle.gov

Idea RS-08: More strategic machine placement of log structures in fewer locations ("hot spots")

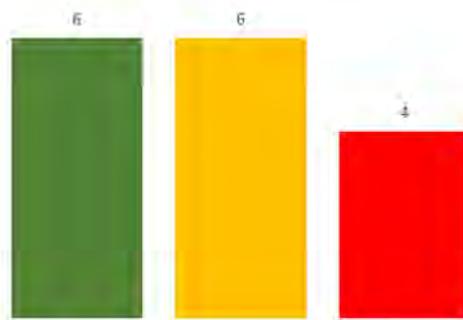
Description: This concept is to install wood structures only in the locations that appear to be experiencing the worst erosion (lower and mid-ravine). This would target the worst areas of erosion and provide support to the banks and channel for vegetation establishment and may require additional smaller structures to be installed over time to ensure that a lot of sediment isn't continuing to be deposited downstream.



**DEM Differencing
2003 to 2016/2020**

-  LARGER MACHINE PLACED STRUCTURES TO PROVIDE INITIAL CAPACITY AT 'HOT SPOTS'
-  USE SMALLER STRUCTURES INSTALLED OVER SEVERAL YEARS TO GRADUALLY BUILD CAPACITY

■ Excellent ■ Good ■ Poor



Comments (Excellent)

- Excellent idea. Targeting hotspots is a good plan, it could lessen the problem and give other options for how to continue supporting the canyon
- Like
- The gradual approach to the problem is smart
- Great to have fewer + more select structures so most of creek remains natural
- Would love to see movement that is careful + thoughtful

Comments (Good)

- If well monitored over time this would provide valuable information about how well this solution is working and would allow for improvements/tweaks over time. As long as the construction impact was mitigated as much as possible with on-going maintenance.
- The less machine placement of logs the better.
- I don't know what type of machine is being used for placement.
- Sounds ok but where is still less clear
- Seems like should only be used in targeted areas. The creek would benefit from attention along its length - not just little spots

Comments (Poor)

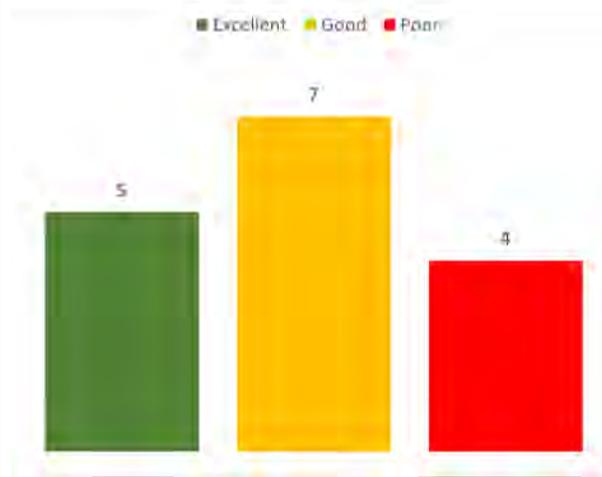
- Machinery increased damage to environment
- No, there are better options
- Would this mean road into lower canyon?

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Idea RS-13: Place dredged material from the delta back into the channel upstream

This idea simply puts the excavated gravel from the delta (planned work) back in the channel in the canyon as far upstream as possible. This would improve fish passage into the lower channel from the lake but may be difficult to permit and reintroduces loose gravels to the channel upstream that could be easily eroded and transported downstream.



Comments (Excellent)

- Makes perfect sense
- I think if transporting this material doesn't pose too big a problem using materials already in the delta seems good
- Makes sense and is environmentally friendly to use material that would otherwise be a waste. Reusing this material is smart
- Wonderful. Why not? Probably more expensive to bring materials from a farther location

Comments (Good)

- How will lake levels impact this?
- Need more info
- Saves purchase gravel. Permit issues?
- Is this fish friendly?
- This seems like it would include loads of road oils + other chemicals. Testing first! Fish safe?
- I like this idea best. However, I am concerned about how often & what damage will be done to the canyon

Comments (Poor)

- Doesn't seem to solve the problem if the gravel is reintroduced.
- Feels like trying to bail water from a leaking boat
- Sounds like gravel won't prevent erosion

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