

Krista Einarsson
Harry Wheldon
Rachel Glessner
Shae Holmes
ENVIR 480

Outline of Mini Wash Pack Project

Primary research question/project objective

Within our project we will be preparing materials, a cost budget analysis, an environmental impact, and draft a grant letter for a mini wash pack at Mercer court for the UW farm. Our project will help in finalizing the design and details of instalment for a mini wash pack. It is not within our scope to write the final grant letter as the application due date is past the timeline of our project. We hope to write a finalized grant draft that can then be submitted by the UW farm when the CFS grant application is open. Receiving the grant money and physically installing the mini wash pack will also be out of our scope as we are working remotely, and the authorization of the grant money will be past the timeline of the quarter.

Timeline to get project done:

4/23

- ☐ Prepare List of Materials for Wash Pack (*Complete*)
- ☐ Research the requirements and deadlines for CSF grant (*Complete*)

4/30

- ☐ Estimate potential cost of all materials and instalment of Wash Pack
- ☐ Contact Carrie M. Cone and ask if she would be our staff budget administrator for the CSF grant (*Complete*)
- ☐ Research/ calculate mileage between CUH and Mercer Court

5/7

- ☐ Discuss plans with Rob Lubin of HFS
- ☐ Research/ calculate fossil fuel savings by precipitants for driving to and from CUH to Mercer Court
- ☐ Call AllFence, UW Surplus, Ballard Rescue, etc., to try and see if they have materials/ ask expected costs of materials.

5/14

- ☐ Research/Calculate environmental impact comparisons of Mercer Court produce post-washpack with current UW suppliers (Charlie's Produce, US Foods).
- ☐ Research/calculate time savings/ efficiency of wash pack

5/21

Types of Research that needs to be done:

- Sourcing washpack materials and estimating cost **(Krista)**
- Finalized washpack design **(Rachel)**
- Cost estimation for fencing **(Rachel)**
- Estimation of time savings from reduced travel to CUH **(Harry)**
- Estimation of fuel savings and reduced environmental impact from reduced travel to CUH. **(Harry)**
- Environmental impact and sustainability of Mercer Court produce (post-washpack) compared to other produce purchased by uw (from Charlie's or US Foods) **(Shae)**
- Requirements for CSF grant (and/or other grants) **(Krista)**
- Potential recycling of water used by washpack for irrigation **(Harry)**
- How to properly write a letter of intent for grant and draft. **(Shae)**

List of Mini Wash Pack Materials:

- (7ft) 3 basin stainless steel sink
- Handwashing sink
- Fold down table to instal on fence
- Foldable fence boarding structure underneath the stairs
- Locking component for fence
- 4 connection brackets to connect to hoses (?)
- Garden hose
- Whiteboard to attach on fence
- Shelving units for tools
- Door stop(?)

Questions for Perry: (4/30/20)

1. Make/Model of truck used to transport produce from Mercer Court to CUH. This will help calculate fuel cost savings as well as pollution reduction.
2. Based off of our first meeting, the estimations given for weekly travel time to and from Mercer that would be eliminated with the new wash pack was 3, 15-30 minute trips. I was wondering if that is exclusively road time or would it also include loading/unloading of the truck? If not, I was thinking an estimation for time loading/unloading the truck could also be used in an estimation for savings due to the new wash pack, as this time would be eliminated. This would also include the time it would take to pack the produce for transport. I don't know if this process is very quick or not, so it might not be necessary to include in a time savings evaluation, but I thought I would ask.
3. In our first meeting we also discussed potentially using the water from the wash pack to irrigate crops, which would save on water. The estimation at the time given for water use of the wash pack was 250 gallons, 3 times a week. I was wondering if 100% of this water

could be recycled for irrigation, and if not, roughly what percent would be? If we determine an estimation for the amount of water to be reduced, that could then be used to determine potential monetary savings. I was going to calculate water cost at Mercer court based off of the residential rates for the city of Seattle. Let me know if this would be an inaccurate way of measuring it; I'm assuming that would be the rates for the water from Mercer Court but I'm 100% sure. If using the residential rates is a good idea, then my last question would be about what category of usage the farm might fall into. The price for each 100 cubic feet of water (CCF) is based on CCF per month, the categories being: 0-5 CCF per month, >5-18 CCF per month, and >18 CCF per month.

4. If water will be diverted from the wash pack to be used for irrigation, will any new materials need to be purchased? Like tubing or fittings?
5. Is there anything else on the materials list for the mini wash pack we may be missing so we can effectively include all the materials into the cost analysis?
6. What specific foods would you like to be compared environmentally impact wise with Charlie's Produce or US foods? We already are doing the transportation impact, so I was just curious if you wanted that similar thing for comparing the UW farm and one of the other produce places or if it was a different type of environmental impact you wanted?