

A. Background

1. Casto Landslide Mitigation

2. Devin Casto

3. 561 Palouse Rd Cle Elum WA 98922. 509-201-0841 inlandconstgroup@gmail.com

4. 05-09-22, revised 05-24-22

5. Public Works

6. Potential sheet pile wall to be constructed as soon as engineer can provide specs and materials can be procured. Earth reclamation per attached Appendix C figure 4 and concrete retaining wall will be constructed once the earth dries out enough for excavation.

7. No future plans beyond sheet pile wall, earth reclamation per attached Appendix C figure 4 and poured concrete retaining wall.

8. A geotech report was provided by Quality Geo NW (attached)

9. There are no other applications pending for governmental approvals

10. I already have an existing building permit for the concrete retaining wall and shop (BP-21-00925). I'm in the process of applying for an engineered grading permit.

11. The intention of this SEPA review is to acquire an engineered grading permit through Kittitas County Public Works. The work requiring the grading permit is to shore up a naturally occurring landslide that happened on my parcel and repair Palouse road that was affected by the landslide. The landslide will be mitigated in 2 ways. First, I intend to install a sheet pile wall that is being designed by MC Squared in Olympia. The sheet pile wall will be installed on the downhill side (north) of Palouse road so that Palouse Road can be rebuilt. The second method of mitigation is to install a poured concrete retaining wall at the base of the landslide and earth reclamation per attached Appendix C figure 4 once the earth has dried out enough for excavation to be completed. These systems are being installed to protect my house that is at the base of the landslide.

12. Project is located at 561 Palouse Road Cle Elum WA 98922. Traveling West on Upper Peoh Point Road, turn Left on Casassa. Continue .75 miles on Casassa and turn West on Palouse Road. Travel .3 miles on Palouse Road and access to 561 Palouse Road will be on the North side of Palouse Road. ACRES 5.69; WALMER SHORT PLAT 07-91, LOT 1; SEC 07, TWP 19, RGE 16. Parcel 953974. Site plan and exhibit map attached

B. Environmental Elements

1. Earth

- a. The general condition of the earth is hilly
- b. The natural steepest slope in the work area is roughly 2 horizontal to 1 vertical.
- c. The general type of soil in the work area is clay
- d. There are indications of unstable soil on the south side of Palouse Rd (uphill). A landslide occurred 10yrs +/- ago. That landslide was mitigated by reclaiming the land and installing a positive drain that daylight into the ditch on the south side of Palouse Rd. See attached Casto residence site plan and overview.
- e. The landslide is roughly 80' east to west and roughly 120' north to south. The depth of the landslide is estimated by Quality Geo NW as roughly 8' deep at the deepest point. Per the recommendations of Quality Geo NW my intention is to systematically remove and replace the earth in the slide area per their guidelines. See attached geotech report.
- f. I do not believe that erosion will be an issue as I'm doing this emergency project to stop erosion that's happening due to the landslide.
- g. 10%+/- of the work area will be covered with impervious surface (shop)
- h. Sheet pile wall, earth reclamation per attached Appendix C figure #4 and poured concrete wall are the proposed measures to control erosion

2. Air

- a. I do not anticipate any emissions other than common excavation equipment being emitted
- b. No
- c. None

3. Water

- a. Surface water;
 - 1) There's no surface water in the work area
 - 2) No

3) None

4) No

5) No

6) No

b. Ground Water;

1) No

2) No waste material will be discharged into the ground from septic tanks or other sources

c. Water runoff;

1) No additional storm water runoff is anticipated

2) No

3) No

d. I plan to reduce surface water with hydro seeding and planting natural vegetation to absorb water. Any ground water exiting curtain drains will continue to be mitigated to natural ground swales as needed and existing now.

4. Plants

a. The landslide work area natural vegetation consisted of fir trees, buck brush and natural grasses

b. None

c. I do not know of any endangered species in the work area

d. I intend to hydro seed, replant fir trees, bush brush and other natural vegetation

e. No noxious weeds are located in the landslide work area

5. Animals

a. Hawks, eagles, ravens, song birds, deer, elk, cougar and bear have been present near the work area

b. I'm not aware of any endangered species in or near the area.

c. It is likely that elk, and deer migrate through the near area

d. None

e. I'm not aware of any invasive animal species in or around the landslide work area

6. Energy and Natural Resources

a. None

b. No

c. None

7. Environmental Health

a. None known

1) None

2) None known

3) None

4) None known

5) None

b. Noise

1) None

2) There will be standard expected noise from excavators, bull dozers and compact excavation equipment to mitigate the landslide.

3) None

8. Land and Shoreline Use

a. Site and adjacent properties are all SFR. As of 05-09-22 there are 2 parcels that have no legal access because of the landslide. Although they have access from Buffalo Springs and Fawn Rd in Sky Meadows, I'm eager to stabilize and repair Palouse Rd

b. No

1) No

c. There is 1 existing SFR on the parcel

d. No demolition is scheduled

e. The current zoning is R-5

f. Rural residential

g. N/A

h. No

i. None

j. If landslide affects home, 4 people will be displaced

k. I plan to construct a sheet pile wall, earth reclamation per attached Appendix C figure 4 and poured concrete retaining wall to protect my home and family

l. None

m. None

9. Housing

a. None

b. None

c. None

10 Aesthetics

a. 20' is the tallest point on the retaining wall/shop

b. None

c. None

11. Light and Glare

a. None

b. No

c. None

d. No

12 Recreation

- a. Snowmobiling, dirt biking, hiking and snow shoeing
- b. No
- c. None

13. Historic and cultural preservation

- a. None
- b. There are no known landmarks, features or evidence of Indian or historic use that would be affected by this project
- c. The proposed project will not impact cultural and historic resources. Any project specific development will be subject to review for consistency with applicable local, state and federal laws and regulations
- d. None

14. Transportation

- a. Palouse Rd has been affected by the landslide. Sheet pile wall design, earth reclamation per attached Appendix C figure 4 and poured in place concrete retaining wall to stabilize and rebuild Palouse Rd
- b. No
- c. None
- d. No
- e. No
- f. None
- g. No
- h. None

15. Public Services

- a. No
- b. None

16. Utilities

- a. Electricity, water, septic system and internet are all available at the site
- b. Century Link and PSE have both had to relocate their primary services due to the naturally occurring landslide. I have also had to move and replace water lines that have been damaged.