



DEVELOPMENT SERVICES DEPARTMENT  
ENVIRONMENTAL COORDINATOR  
450 110<sup>th</sup> Ave NE., P.O. BOX 90012  
BELLEVUE, WA 98009-9012

### OPTIONAL DETERMINATION OF NON-SIGNIFICANCE (DNS) NOTICE MATERIALS

The attached materials are being sent to you pursuant to the requirements for the Optional DNS Process (WAC 197-11-355). A DNS on the attached proposal is likely. This may be the only opportunity to comment on environmental impacts of the proposal. Mitigation measures from standard codes will apply. Project review may require mitigation regardless of whether an EIS is prepared. A copy of the subsequent threshold determination for this proposal may be obtained upon request.

File No. [10-114857-LO](#)

Project Name/Address: [An Residence Streambank Stabilization](#)

Planner: [Carol L. Orr](#)

Phone Number: [425-452-2896](#)

**Minimum Comment Period:** [August 26, 2010](#)

Materials included in this Notice:

- Blue Bulletin
- Checklist
- Vicinity Map
- Plans
- Other:

**ENVIRONMENTAL CHECKLIST**

5/21/2010

If you need assistance in completing the checklist or have any questions regarding the environmental review process, please visit or call Development Services (425-452-6800) between 8 a.m. and 4 p.m., Monday through Friday (Wednesday, 10 to 4). Assistance for the hearing impaired: Dial 711 (Telecommunications Relay Service).

**BACKGROUND INFORMATION**

Property Owner: Steve An (An Mu Sin and An Yang Suk)

Proponent: Steve An

Contact Person: Brad Thiele, Northwest Environmental Consulting, LLC  
(If different from the owner. All questions and correspondence will be directed to the individual listed.)

Address: 3639 Palatine Ave N, Seattle, WA 98103

Phone: 206-234-2520 and (206) 634-9193 (mobile)

Proposal Title: Steve An Streambank Stabilization

Proposal Location: 16 Cascade Key, Bellevue, WA 98006-1002  
NW ¼ Section 16, Township 24R, Range 05E  
47.56973 N Latitude / -122.18369 W Longitude  
Tax Parcel #6065300080  
Property is located south of intersection of Newport Key and Cascade Key off 118th Ave SE.

(Street address and nearest cross street or intersection) Provide a legal description if available.

Please attach an 8 ½" x 11" vicinity map that accurately locates the proposal site.

Give an accurate, brief description of the proposal's scope and nature:

1. General description:

Coal Creek enters the Steve An property from its southeast corner and meanders through the property to exit under Cascade Key in the northwest corner of the property. A footbridge crosses Coal Creek to connect the northeastern part of the property with the residence and patio, which are located on the west side of the creek (Sheet 1). The home is an owner-occupied, single-family residence with landscaping.

Steve An is proposing a stream bank stabilization project along Coal Creek at 16 Cascade Key. The project will remove approximately 100 linear feet of a failing rockery and replace it with a stepped back bank made of cabled logs and larger toe rocks. Logs will be placed on top of the original rockery for approximately 100 feet of the east stream bank. The west bank will be constructed of cabled logs except for approximately 30 feet where larger toe boulders will be placed. The project will include planting the stream bank with willow stakes and native plantings. In addition, 1,590 square feet of property will be designated as a Native Growth Protection Area. [Installation of a retaining wall within a critical steep slope structure setback and installation of a patio within the stream buffer.](#)

2. Acreage of site: 0.54 acre (23,700 SF)

3. Number of dwelling units/buildings to be demolished: None

4. Number of dwelling units/buildings to be constructed: None

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5. Square footage of buildings to be demolished: Not applicable
6. Square footage of buildings to be constructed: Not applicable
7. Quantity of earth movement (in cubic yards): Estimated 10 cubic yards of existing rocker will be removed for a stepped back stream bank. Excess soil will be spread over existing upland surfaces on the property or removed.
8. Proposed land use: Residential (no change from present use)
9. Design features, including building height, number of stories and proposed exterior materials: Not applicable
10. Other:

Estimated date of completion of the proposal or timing of phasing:

Work will be accomplished in July/August 2010. Work may not commence until all applicable permits have been approved and issued.

Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

No further activity is planned.

List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

JARPA permit application  
Biological Evaluation

Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain. List dates applied for and file numbers, if known.

None known Clear/Grade Permit for work within a Critical Area: 10-114855-GH

List any government approvals or permits that will be needed for your proposal, if known. If permits have been applied for, list application date and file numbers, if known.

Corps of Engineers Section 404 Permit  
Washington Department of Fish and Wildlife Hydraulic Project Approval  
City of Bellevue Critical Areas Ordinance Compliance

Please provide one or more of the following exhibits, if applicable to your proposal.  
(Please check appropriate box(es) for exhibits submitted with your proposal):

- Land Use Reclassification (rezone) Map of existing and proposed zoning
- Preliminary Plat or Planned Unit Development  
Preliminary plat map
- Clearing & Grading Permit  
Plan of existing and proposed grading  
Development plans

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- Building Permit (or Design Review)
  - Site plan
  - Clearing & grading plan
- Shoreline Management Permit
  - Site plan

A. ENVIRONMENTAL ELEMENTS

1. Earth

- a. General description of the site:  Flat  Rolling  Hilly  Steep slopes  Mountains  Other
- b. What is the steepest slope on the site (approximate percent slope)?

The site is generally flat. However, the streambanks of Coal Creek have portions that are near vertical. A steep slope is present on the east side of the property

- c. What general types of soil are found on the site (for example, clay, sand, gravel, peat, and muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.

Soils at the site are mapped as Alderwood gravelly sandy loam (AgD) on 15 to 30% slopes. No hydric soils (wetland) soils were identified on the site. Agricultural soils are not applicable.

- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

Streambank soils along Coal Creek at the site are potentially destabilized by the flowing water in the creek, especially during high storm flows. This potential is the reason for the proposed stabilization activities.

Streambank stabilization was previously completed to maintain the existing rockery and prevent erosion, which was severe on the east bank and which had eroded the soil from behind the rockery on the west bank and caused sinkholes behind the rockery. These rockery improvements did not receive required permits and are failing on the east bank.

The proposed streambank stabilization is intended to improve the stability of the streambank and will include native plantings. The stabilization is being designed to maintain an existing pool in the stream channel. This pool is being created by a group of large rocks placed during construction of the original rockery that is turning the water toward the opposite (east) bank. This group of rocks created the original bank erosion that the owner tried to stop by building the unpermitted rockery.

- e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

Grading will involve pulling back soils to provide for a stepping back of the streambank. Some backfilling using the graded soils will be required behind the toe rocks and logs that will be placed for improved streambank stability.

- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.  
 Temporary erosion and sedimentation controls will be required prior to work, per BCC 23.76  
 Erosion and runoff carrying soil particles into Coal Creek is a potential impact during construction.

- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

The proposal will not alter the coverage of the site in terms of impervious surface.  
 Impervious surfaces will be modified on site due the construction of the patio on the east stream bank. Impervious surface coverage will be recalculated under permit review.

- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

Soils placed on the step back rockery areas will be covered with coir fabric for added stability and reduction of erosion potential as the native plants increase coverage of the stabilized slopes. Other erosion control measures

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will be used as appropriate during construction and will remain in place until soils have stabilized.

## 2. AIR

- a. What types of emissions to the air would result from the proposal (i.e. dust, automobile odors, and industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

Some minor amount of dust may be generated by grading for the step back rockery and removal. Work will generally be done by hand, so emissions from construction equipment are not expected other than a few truck trips on local roads delivering materials, such as large rocks and logs.

- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

None known.

- c. Proposed measures to reduce or control emissions or other impacts to the air, if any:

Soil stabilization measures following grading will reduce any longer term potential for fugitive dust emissions from the site.

## 3. WATER

### a. Surface

- (1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

Coal Creek flows through the property. The proposal involves stabilizing streambanks associated with Coal Creek. Downstream, Coal Creek discharges to Lake Washington. [Coal Creek is a fish bearing stream](#)

- (2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If Yes, please describe and attach available plans.

Yes, work will be done immediately adjacent to Coal Creek. Placement of toe boulders and some logs will be below the Ordinary High Water Mark.

- (3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

Up to about 10 cubic yards of large 3-man toe rocks will be placed at the toe of the streambank within the OHWM of Coal Creek. Other dredge or fill within Coal Creek is not proposed.

- (4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

No surface water withdrawals or diversions are proposed.

- (5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

Yes, parts of the parcel are within the 100-year floodplain of Coal Creek. See Sheet 4 attached.

- (6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No discharges of waste materials to surface waters are proposed.

### b. Ground

- (1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description.

No ground water will be withdrawn and no water will be discharged to the ground water.

- (2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals...; agricultural; etc.) Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

Not applicable.

c. Water Runoff (Including storm water)

- (1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

The proposal does not involve any changes in source, collection, or disposal of stormwater.

- (2) Could waste materials enter ground or surface waters? If so, generally describe.

No waste materials will be generated by the proposal.

d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:

The design will maintain an existing pool in the stream, a habitat feature generally lacking in the lower reaches of Coal Creek. Riparian plantings will provide additional shading of Coal Creek as well.

Coir fabric will be used to stabilize streambank soils as live stakes and other vegetation colonize the streambanks.

#### 4. Plants

a. Check or circle types of vegetation found on the site:

- deciduous tree: alder, maple, aspen, other
- evergreen tree: fir, cedar, pine, other
- shrubs
- grass
- pasture
- crop or grain
- wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other
- water plants: water lily, eelgrass, milfoil, other
- other types of vegetation

b. What kind and amount of vegetation will be removed or altered?

The mitigation plan involves removal of English ivy from riparian areas along the streambank. Some existing ornamental vegetation will be removed by grading associated with the step back rockery.

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c. List threatened or endangered species known to be on or near the site.

None known.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

The mitigation plan will enhance 1,600 square feet of riparian buffer and plant approximately 100 linear feet of streambanks (see Sheet 5 Planting Plan). The project will incorporate native plantings, including 10 shore pine, more than 80 willow stakes and native shrubs, and removal of invasive English Ivy from approximately 1,600 feet of riparian buffer.

## 5. ANIMALS

a. Check or circle any birds and animals which have been observed on or near the site or are known to be on or near the site:

Birds: hawk, heron, eagle, songbirds, other: water fowl and song birds owls, woodpeckers, doves, jays

Mammals: deer, bear, elk, beaver, other: Small mammals coyote, raccoon, chipmunk, squirrel, rabbit opossum, and other small mammals such as voles

Fish: bass, salmon, trout, herring, shellfish, other: & shrews

b. List any threatened or endangered species known to be on or near the site.

Steelhead and Chinook salmon use Coal Creek. Bald Eagles are known to be near the site.

c. Is the site part of a migration route? If so, explain.

Coal Creek serves as a migration route for movements of resident and anadromous fish.

d. Proposed measures to preserve or enhance wildlife, if any:

The project will maintain an existing scour pool just north of the first bend in Coal Creek. Scour pools are beneficial habitat features that are generally lacking in the lower reaches of Coal Creek.

Enhancement of the riparian area with native plantings will provide habitat benefits to songbirds, small mammals, and other wildlife.

## 6. Energy and Natural Resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy need? Describe whether it will be used for heating, manufacturing, etc.

No energy will be used.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No.

c. What kinds of energy conservation features are included in the plans of the proposal? List other proposed measures to reduce or control energy impacts, if any:

None are needed or proposed.

## 7. Environmental Health

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

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No.

(1) Describe special emergency services that might be required.

None.

(2) Proposed measures to reduce or control environmental health hazards, if any.

None are needed or proposed.

b. Noise

(1) What types of noise exist in the area which may affect your project (for example, traffic, equipment, operation, other)?

Not applicable.

(2) What types and levels of noise would be created by or associated with the project on a short-term or long-term basis (for example, traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Construction will occur during typical daytime working hours. Because the work will be generally done by hand, noise impacts would be very limited to handheld and operated equipment.

Noise shall comply with BCC 9.18

(3) Proposed measures to reduce or control noise impacts, if any:

None are needed or proposed.

**8. Land and Shoreline Use**

a. What is the current use of the site and adjacent properties?

Single-family residential

b. Has the site been used for agriculture? If so, describe.

The existing house on the property was built in 1972. Prior agricultural use is unlikely.

c. Describe any structures on the site.

A single-family residence is on the property.

d. Will any structures be demolished? If so, what?

No.

e. What is the current zoning classification of the site?

Residential.

f. What is the current comprehensive plan designation of the site?

Residential.

g. If applicable, what is the current shoreline master program designation of the site?

Not applicable. The property is not within the shoreline zone.

h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

Yes, Coal Creek is an environmentally sensitive area. A steep slope critical area exists just east of the property line.

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i. Approximately how many people would reside or work in the completed project?

None.

j. Approximately how many people would the completed project displace?

None.

k. Proposed measures to avoid or reduce displacement impacts, if any:

None are needed or proposed.

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

None are needed or proposed. [The proposal shall also undergo Clear/Grade Review and Utilities Review.](#)

## 9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

Not applicable.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

Not applicable.

c. Proposed measures to reduce or control housing impacts, if any:

None.

## 10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

Not applicable.

b. What views in the immediate vicinity would be altered or obstructed?

None.

c. Proposed measures to reduce or control aesthetic impacts, if any:

None are proposed.

## 11. Light and Glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

None.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

Not applicable.

c. What existing off-site sources of light or glare may affect your proposal?

None.

d. Proposed measures to reduce or control light or glare impacts, if any:

None are needed or proposed.

## 12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?

Not applicable.

b. Would the proposed project displace any existing recreational uses? If so, describe.

No.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

None are needed or proposed.

## 13. Historic and Cultural Preservation

a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

None are known.

b. Generally describe any landmarks or evidence of historic, archeological, scientific, or cultural importance known to be on or next to the site.

None are known.

c. Proposed measures to reduce or control impacts, if any:

None are needed or proposed.

## 14. Transportation

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.

Access to the site is via Newport Key and Cascade Key. 118th Avenue SE provides access to Newport Key.

b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

Not applicable.

c. How many parking spaces would be completed project have? How many would the project eliminate?

Not applicable. No change to existing parking spaces.

d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).

No.

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e. Will the project use (c)ur in the immediate vicinity of) water, r air transportation? If so, generally describe.

No.

f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

None.

g. Proposed measures to reduce or control transportation impacts, if any:

None are needed or proposed.

#### 15. Public Services

a. Would the project result in an increased need for the public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.

No.

b. Proposed measures to reduce or control direct impacts on public services, if any.

None are needed or proposed.

#### 16. Utilities

a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.

The site is served with typical urban utility services. However, the proposal does not involve changes or use of urban services.

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

The completed proposal does not use utility services, but will require water and electricity during construction.

#### Signature

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature Brad Z

Date Submitted 6/4/2010

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# 16 Cascade Key

## Vicinity Map

Applicant: Steve Mu Sin An  
Permit # 10-114857-LO  
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