

# SEPA ENVIRONMENTAL CHECKLIST

## **Purpose of checklist:**

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

## **Instructions for applicants:**

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

## **Instructions for Lead Agencies:**

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

## **Use of checklist for nonproject proposals:**

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the [SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS \(part D\)](#). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements—that do not contribute meaningfully to the analysis of the proposal.

## **A. Background** [\[HELP\]](#)

1. Name of proposed project, if applicable:

*Issaquah Creek Habitat Enhancement Project – Timm Property* **MAIN FILE COPY**

**CRDE18-0105**

THE COMPANY

CHIEF OF POLICE

2. Name of applicant:

*Ryan Timm & Todd Swoboda*

3. Address and phone number of applicant and contact person:

*13032 - 231st Ave. S.E.  
Issaquah, WA 98027*

*Ryan Timm & Todd Swoboda - (812) 369-7991*

4. Date checklist prepared:

*April 15, 2018*

5. Agency requesting checklist:

*King County*

6. Proposed timing or schedule (including phasing, if applicable):

*August 2018 – during fish window as determined by WDFW.*

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

*Not presently.*

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

*Specific Project Information Form (SPIF-Section 7 ESA) and a JARPA form.*

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

*There are no known pending government approvals of other proposals.*

10. List any government approvals or permits that will be needed for your proposal, if known.

- *King County Clearing & Grading permit.*
- *King County - Shoreline Exemption.*
- *King County – Land Use Application.*
- *King County – Certification of Applicant Status*
- *King County - Affidavit Concerning Critical Areas Compliance.*
- *SEPA Checklist and Greenhouse Gas Emmissions Worksheet.*
- *WDFW – Hydraulic Project Approval.*
- *Army Corps of Engineers – 404 permit.*

- Washington State Department of Ecology – 401 Water Quality Permit.
- King County – Flood Hazard Certification

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

*The habitat enhancement project along the left streambank of Issaquah Creek consists of removing an unpermitted rock wall, ~34' long by 8' high by 3' thick with a 6' apron extending onto the lawn, and replacing it with a bioengineered streambank with large woody debris and boulders. Some of the habitat features are located just outside of the rock wall removal footprint.*

*The project has been designed to restore and enhance existing habitat that was impacted by an illegal installation of a rock wall that was intended as streambank protection. The project will restore natural habitat features to the left streambank of Issaquah Creek by adding LWD, boulders and native plantings.*

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

*Street Address: 13032 - 231st Ave. S.E., Issaquah, WA 98027*

*Section, Township & Range: NW -15-23-6*

*From I-90 take exit 17 toward E. Lake Sammamish Parkway S.E. Merge onto Front St. N. toward Issaquah/City Center. Take Issaquah–Hobart Road and in 4 miles turn right onto S.E. May Valley Road. In 0.4 miles turn right onto 230th Ave. S.E. and then take a slight right onto 231st Ave. S.E. Site is approximately 0.2 miles on the right.*

## **B. Environmental Elements** [\[HELP\]](#)

### **1. Earth** [\[help\]](#)

a. General description of the site:

(circle one):  Flat, rolling, hilly, steep slopes, mountainous, other \_\_\_\_\_

b. What is the steepest slope on the site (approximate percent slope)?

*45% on left streambank.*

- c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

*Mostly sand, clay and gravel consistent with depositional processes of Issaquah Creek within the channel migration zone. Residential lawn is located adjacent to the project area.*

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

*None known.*

- e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

*King County and the Washington Department of Fish and Wildlife has mandated the removal of the existing unpermitted 34-foot long rock wall (~272 square feet) on the left streambank of Issaquah Creek. Approximately 51 cubic yards of rock wall will be removed by a trackhoe excavator. The material will be moved to another area on the property that is outside of the 100-year floodplain.*

*The ~51 cubic yards of fill material will consist of imported clean topsoil from a local vendor that will be placed into the bioengineered coir lifts, six pieces of large woody debris (LWD), and six boulders. They will be placed with a trackhoe excavator supported by hand labor. The boulders, LWD and bioengineered streambanks will be placed within the OHWL and the bioengineered streambanks will extend above the OHWL and will be within the 100-year floodplain.*

*The grading of the new left streambank will match the adjacent upstream and downstream streambank profiles.*

- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

*Some minor erosion could occur during construction and considered temporary. WDFW will require that the work area be isolated from any stream flows.*

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

*None.*

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

*Best Management Practices (BMPs) will be employed to address any potential erosion that may occur. BMPs will be used to control erosion from any construction related runoff impacts. Silt fences will be installed on the perimeter of the work footprint area as it progressively enlarges and also around the entire work area. There will be at least two layers of silt fencing at all times. A silt fence will also be placed around the perimeter of the clearing limits. Jute mat will be used to stabilize bare earth areas. Bare earth areas will be seeded.*

## 2. Air [\[help\]](#)

- a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

*Minor dust and vehicle exhaust from construction activities are expected. There will be no long-term changes to background emission levels from this project.*

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

*No.*

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

*None.*

## 3. Water [\[help\]](#)

- a. Surface Water: [\[help\]](#)

- 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.

*Yes, Issaquah Creek (perennial) is adjacent to the project site. Issaquah Creek flows into the Lake Washington drainage system.*

- 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, in-water work will be performed in and adjacent to Issaquah Creek.*

- 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.

*Approximately 51 cubic yards of rock-wall material will be removed and replaced with 51 cubic yards of fill material that will consist of imported clean topsoil from a local vendor (placed into the bioengineered coir lifts), six pieces of large woody debris (LWD), and six boulders. They will be placed with a trackhoe excavator supported by hand labor. The boulders, LWD and bioengineered streambanks will be placed within the OHWL*

*and the bioengineered streambanks will extend above the OHWL and will be within the 100-year floodplain.*

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

*Flows will be diverted away from the work area located on the left streambank of Issaquah Creek. A cofferdam and plastic sheeting will be employed to dewater the work area and protect the stream from the work area.*

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

*Yes, the entire project area is located within the 100-year floodplain of Issaquah Creek.*

- 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.

*There will be no waste material discharged to surface waters.*

b. Ground Water: [\[help\]](#)

- 1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

*No groundwater will be withdrawn.*

- 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.

*There will be no waste material discharged.*

c. Water runoff (including stormwater):

- 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.

Precipitation would be the source of runoff at the project site. There is no stormwater generated from impervious surfaces currently or as a result of the project. Surface water will drain to Issaquah Creek.

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

With the implementation of Best Management Practices (BMPs), erosion control measures, and the natural filtration characteristics associated with the surrounding vegetation, no waste materials are anticipated to enter any ground or surface waters.

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

No.

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

*General Measures to Reduce Runoff Impacts*

1. BMPs will be used to control erosion from any construction related runoff impacts. Silt fences will be installed on the perimeter of the work footprint area where soils are exposed or spoils are staged. There will be at least two layers of silt fencing at all times.
2. Excavators will use vegetable oil in place of hydraulic fluid to minimize potential impacts to surface or ground waters in the case of an accidental spill. Spill prevention kits will be available on site for each machine in use.
3. Heavy equipment will be cleaned and inspected daily for fuel or lubricant leaks prior to entering the job site.

**4. Plants** [\[help\]](#)

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

- deciduous tree:  alder,  maple, aspen, other:  fir,  cedar,  hemlock
- evergreen tree: fir, cedar, pine, other
- shrubs
- grass
- pasture
- crop or grain
- Orchards, vineyards or other permanent crops.
- wet soil plants: cattail, buttercup, bullrush, 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?

*No vegetation will be removed as part of this project, rather native vegetation will be installed.*

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

*No threatened or endangered species of plants are known to be on site.*

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

*Native plants will be installed as part of the bioengineering component of the project.*

- e. List all noxious weeds and invasive species known to be on or near the site.

*Blackberry.*

## **5. Animals** [\[help\]](#)

- a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site.

Examples include:

birds: , , , , other:  
mammals: , , , , other:  
fish: bass, , , herring, shellfish, other \_\_\_\_\_

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

*ESA - Fall Chinook Salmon ESU.*

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

*Coho and Chinook salmon and cutthroat trout.*

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

*The primary objective of this project is to preserve and enhance fish and wildlife habitat on the site. Work will be performed on this project during periods where there will be minimal impacts to waterfowl and aquatic species due to limited presence. The project in itself is intended to improve habitat for fish and wildlife.*

- e. List any invasive animal species known to be on or near the site.

None known.

## 6. Energy and Natural Resources [\[help\]](#)

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

N/A

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

N/A

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

None.

## 7. Environmental Health [\[help\]](#)

- 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.

- 1) Describe any known or possible contamination at the site from present or past uses.

None known.

- 2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

None known.

- 3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

*Materials that are likely to be present on site include gasoline, diesel fuel, hydraulic fluid, and lubricants. An accidental spill of any of these fluids could occur during construction operations.*

- 4) Describe special emergency services that might be required.

None known.

- 5) Proposed measures to reduce or control environmental health hazards, if any:

None proposed.

**b. Noise**

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

None.

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

*There will be short-term increases in noise levels during construction activities between the hours of 7AM to 6PM. No long-term changes in noise levels are expected once the project has been completed.*

- 2) Proposed measures to reduce or control noise impacts, if any:

None proposed.

**8. Land and Shoreline Use** [\[help\]](#)

- a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

*The site and adjacent properties are currently rural residences. The proposal will not affect current land uses on nearby or adjacent properties.*

- b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

No.

- 1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:

No.

c. Describe any structures on the site.

*Single family residence.*

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

*A 34-foot long rock-wall will be removed that is located alongside Issaquah Creek.*

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

*RA-5*

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

*Rural.*

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

*Rural shoreline.*

h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

*Issaquah Creek has been designated as critical habitat for ESA species.*

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.*

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

*None.*

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any:

*None.*

**9. Housing** [\[help\]](#)

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

*None.*

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

*None.*

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

*None.*

**10. Aesthetics** [\[help\]](#)

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

*None.*

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

*None.*

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

*None.*

**11. Light and Glare** [\[help\]](#)

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?

No.

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

None.

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

None.

## 12. Recreation [\[help\]](#)

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

*The project site is located on private property. Recreational uses include fishing, nature observation, and wildlife viewing.*

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.

## 13. Historic and cultural preservation [\[help\]](#)

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers? If so, specifically describe.

None known.

b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

None known.

c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

*The Washington State Department of Archaeology and Historic Preservation records database was checked to ensure that no currently listed objects or places occur at this site.*

- d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

*A federal archaeological review and tribal consultation will be performed which will evaluate this site and determine what measures will be necessary to protect potential archaeological resources. The project site will be pre-screened with an archaeologist from the Army Corps of Engineers to determine whether any additional archaeological assessment study will be required.*

#### **14. Transportation [\[help\]](#)**

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

*The Issaquah-Hobart Road S.E. provides the primary access route to the property.*

- b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

*No.*

- c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?

*None.*

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

*No.*

- e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

*No.*

- f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?

*None.*

g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

No.

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

None.

**15. Public Services** [\[help\]](#)

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

No.

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

None.

**16. Utilities** [\[help\]](#)

a. Circle utilities currently available at the site:

electricity, natural gas,  water,  refuse service,  telephone, sanitary sewer,  septic system, other \_\_\_\_\_

c. 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.

None.

**C. Signature** [\[HELP\]](#)

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: \_\_\_\_\_

Name of signee \_\_\_\_\_

Position and Agency/Organization \_\_\_\_\_

Date Submitted: \_\_\_\_\_

## **D. Supplemental sheet for nonproject actions** [\[HELP\]](#)

(IT IS NOT NECESSARY to use this sheet for project actions)

Because these questions are very general, it may be helpful to read them in conjunction with the list of the elements of the environment.

When answering these questions, be aware of the extent the proposal, or the types of activities likely to result from the proposal, would affect the item at a greater intensity or at a faster rate than if the proposal were not implemented. Respond briefly and in general terms.

1. How would the proposal be likely to increase discharge to water; emissions to air; production, storage, or release of toxic or hazardous substances; or production of noise?

*There will be temporary increases in emissions and noise production from construction activities. Release of toxic or hazardous substances is highly unlikely.*

Proposed measures to avoid or reduce such increases are:

*Vegetable oil is being substituted for hydraulic fluid in all equipment doing in-water work.*

2. How would the proposal be likely to affect plants, animals, fish, or marine life?

*There will be temporal displacement of fish from along the streambank.*

Proposed measures to protect or conserve plants, animals, fish, or marine life are:

*Fish removal will take place prior to construction using protocols as outlined by NOAA. Fish will be relocated downstream of project area.*

3. How would the proposal be likely to deplete energy or natural resources?

*Not at all.*

Proposed measures to protect or conserve energy and natural resources are:

*The project is a habitat enhancement project.*

4. How would the proposal be likely to use or affect environmentally sensitive areas or areas designated (or eligible or under study) for governmental protection; such as parks, wilderness, wild and scenic rivers, threatened or endangered species habitat, historic or cultural sites, wetlands, floodplains, or prime farmlands?

*The project itself is a restoration action that will ultimately restore natural function to Issaquah Creek.*

*The proposed project will enhance habitat for fish and wildlife by increasing complexity to the streambank. The existing rock wall currently limits habitat availability and potential for fish and wildlife along the left bank of Issaquah Creek.*

Proposed measures to protect such resources or to avoid or reduce impacts are:

*To minimize impacts, flows will be diverted around the work area by placing temporary diversion structures in Issaquah Creek.*

5. How would the proposal be likely to affect land and shoreline use, including whether it would allow or encourage land or shoreline uses incompatible with existing plans?

*No change to land and shoreline use is anticipated.*

Proposed measures to avoid or reduce shoreline and land use impacts are:

*None proposed.*

6. How would the proposal be likely to increase demands on transportation or public services and utilities?

*The proposed project will not have any impacts on transportation or public services and utilities.*

Proposed measures to reduce or respond to such demand(s) are:

*None proposed.*

7. Identify, if possible, whether the proposal may conflict with local, state, or federal laws or requirements for the protection of the environment.

*The project will comply with all local, state, and federal laws or requirements to protect the environment.*

**Section I: Buildings**

Type (Residential) or Principal Activity (Commercial)	# Units	Square Feet (in thousands of square feet)	Emissions Per Unit or Per Thousand Square Feet (MTCO2e)			Lifespan Emissions (MTCO2e)
			Embodied	Energy	Transportation	
Single-Family Home.....	0		98	672	792	0
Multi-Family Unit in Large Building .....	0		33	357	766	0
Multi-Family Unit in Small Building .....	0		54	681	766	0
Mobile Home.....	0		41	475	709	0
Education .....		0.0	39	646	361	0
Food Sales .....		0.0	39	1,541	282	0
Food Service .....		0.0	39	1,994	561	0
Health Care Inpatient .....		0.0	39	1,938	582	0
Health Care Outpatient .....		0.0	39	737	571	0
Lodging .....		0.0	39	777	117	0
Retail (Other Than Mall).....		0.0	39	577	247	0
Office .....		0.0	39	723	588	0
Public Assembly .....		0.0	39	733	150	0
Public Order and Safety .....		0.0	39	899	374	0
Religious Worship .....		0.0	39	339	129	0
Service .....		0.0	39	599	266	0
Warehouse and Storage .....		0.0	39	352	181	0
Other .....		1,000.0	39	1,278	257	1574175
Vacant .....		0.0	39	162	47	0

**Section II: Pavement.....**

Pavement.....		0.00				0
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**Total Project Emissions:**

**1574175**

