

**SEPA ENVIRONMENTAL CHECKLIST**  
**UPDATED 2014*****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:*** [\[help\]](#)

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:*** [\[help\]](#)

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**

1. Name of proposed project, if applicable: [\[help\]](#)  
**Mundorf – 8<sup>th</sup> Street**

2. Name of applicant: [\[help\]](#)  
**Terry Mundorf**

3. Address and phone number of applicant and contact person: [\[help\]](#)

**Applicant:**

**Terry Mundorf: Phone (206) 451 - 4379  
Cell (425) 239 - 7673**

**Contact:**

**Jeff Mallahan  
Wetland Resources, Inc. : (425) 337 - 3174**

4. Date checklist prepared: [\[help\]](#)

**7/30/18**

5. Agency requesting checklist: [\[help\]](#)

**City of Mukilteo**

6. Proposed timing or schedule (including phasing, if applicable): [\[help\]](#)

**August 2018**

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain. [\[help\]](#)

**N/A**

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal. [\[help\]](#)

**Environmental information that has been prepared:**

- **A. Critical Areas Study and Mitigation Plan (Permittee-Responsible Watershed Approach)**
- **B. U.S. Army Corp of Engineers Nation Wide (NWP) 29 Permit**
- **C. U.S. Army Corp of Engineers Biological Evaluation (BE)**
- **D. U.S. Army Corp of Engineers JARPA**

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. [\[help\]](#)

**N/A, all permits have been issued.**

10. List any government approvals or permits that will be needed for your proposal, if known. [\[help\]](#)

**Clearing & Grading Permit from the City of Mukilteo  
Clearing & Grading Permit from the City of Everett  
USACE Nation Wide (NWP) 29 (Ref: NWS-2017-602)  
Approval of Biological Evaluation (BE)  
Approval of JARPA**

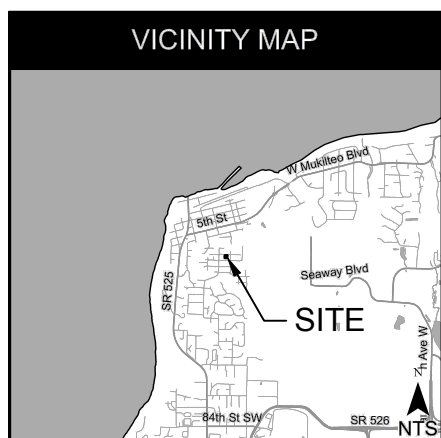
11. Give a brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies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

**The applicant, is proposing the future development of the property (.23 acres) for the construction of a single-family residence and associated infrastructure. Nearly ninety-six percent of the property is encumbered by the subject wetland and associated buffer, save for narrow strip of non-buffer area (437 square feet) along the western property boundary. As such, the on-site wetland and buffer restrict the applicant's economic use of the subject property. As a means of providing a developable lot for a new home to be built at a size commensurate to the existing neighborhood residences, the applicant is proposing to fill the on-site wetland and provide compensatory mitigation through off-site wetland creation in a high-value watershed. Lot development will result in permanent impacts to 3,432 square feet (0.079 acres) of Category IV wetland (City of Mukilteo and DOE rating).**

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. [\[help\]](#)

**The subject area is 0.23 acres in size, located west of the intersection of Campbell Avenue and 8th Street in the city of Mukilteo, WA. It is accessed via 8<sup>th</sup> St. The Public Land Survey System identifies the site as a portion of Section 4, Township 28N, Range 4E, W.M. It is also located in the Lake Washington / Cedar / Sammamish Watershed, which is part of WRIA 8.**

## VICINITY MAP



## B. ENVIRONMENTAL ELEMENTS

### 1. Earth

- a. General description of the site [help] (circle one): Flat, rolling, hilly, steep slopes, mountainous, other \_\_\_\_\_

**Generally slopes with a north-northeast aspect and undulations throughout.**

- b. What is the steepest slope on the site (approximate percent slope)? [help]

**6%**

- 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. [help]

**The following types of soils are mapped on the site:**

- **A. Alderwood gravelly sandy loam (0 to 8% slopes)**

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

**Not on-site. However, Snohomish County PDS Map Portal maps the slopes located on the north side of 8<sup>th</sup> Street as soil erosion hazard area. In addition, Snohomish County PDS Map Portal maps a ravine located just northeast of the subject property on the north side of 8<sup>th</sup> Street as steep slopes.**

- 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. [\[help\]](#)

**Ninety six percent of the subject property is encumbered by wetland and associated buffer. As such, these features restrict the applicant's economic use of the subject property. As a means of providing a developable lot for a new home to be built at a size commensurate to the existing neighborhood residences, the applicant is proposing to fill the on-site wetland and provide compensatory mitigation through off-site wetland creation in a high-value watershed. Lot development will result in permanent fill to 3,432 square feet (0.079 acres) of Category IV wetland (City of Mukilteo and DOE rating).**

- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe. [\[help\]](#)

**Preventative erosion control measures are proposed in the unlikely event erosion does occur. The first task will be to install BMP erosion and sedimentation controls, up slope of the catch basin on 8<sup>th</sup> Street. After work is completed, all areas of bare soil will be seeded with native grasses.**

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

**Approximately 35-40%, typical of single-family residential development on small lots in the City of Mukilteo (<0.25-acres).**

- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any: [\[help\]](#)

**Standard best management practices will be employed to reduce and/or control erosion, which may include:**

- **A. Silt Fence**
- **B. Grass Seeding**

## **2. Air**

- 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. [\[help\]](#)

**The types of emissions associated with this development would be of typical kinds associated with single-family residential development.**

- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe. [\[help\]](#)

Off-site emissions sources and climate change may have the potential to affect the proposal due to regional effects and specific effects at the local site, such as impacts to the aforementioned river systems and floodplains.

The Puget Sound Clean Air Agency has established local ambient air standards for six criteria air pollutants and the Agency monitors and reports on these air quality observations annually. These criteria air pollutants are:

Particulate Matter (10 micrometers and 2.5 micrometers in diameter)

- Ozone
- Nitrogen Dioxide
- Carbon Monoxide
- Sulfur Dioxide
- Lead

Efforts to address air quality in the region have successfully achieved attainment goals for several of the criteria pollutants; however, observation sites in King, Pierce and Snohomish counties continue to exceed the Puget Sound Clean Air Agency local PM<sub>2.5</sub> health goal for fine particulate matter. Observations at sites monitoring ozone indicate ozone levels remain a concern in the region. Carbon dioxide and methane are additional emissions of interest associated with climate change with the potential to affect weather conditions in the Snohomish/Island County region.

Potential impacts in the Pacific Northwest due to climate change have been assessed through the National Oceanic and Atmospheric Administration U.S. Global Change Research Program, and summarized in the 2009 report titled "Global Climate Change Impacts in the United States." The projected changes include declining springtime snowpack, reduced summer stream flows, warmer water temperatures, higher ambient temperatures and rising sea levels. Such changes could result in reduced water supplies, and thus the need to seek new sources or methods to meet future water demand.

- c. Proposed measures to reduce or control emissions or other impacts to air, if any: [\[help\]](#)

All passenger vehicles and construction related vehicles and equipment will be properly maintained and will comply with applicable emission control devices and federal and state air quality regulations for exhaust pipe emissions. Idling of combustion engines will be minimized and equipment will be turned off when applicable.

Erosion control and dust control measures will be provided as needed. Best management practices to limit deposition of soil on roadways will be implemented and active dust suppression measures will be evaluated and applied as necessary.

### 3. Water

- 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. [\[help\]](#)

**The project area contains one Category IV Wetland (A) per Washington Department of Ecology classification and City of Mukilteo rating. Wetland A is a small, forested, slope, Category IV wetland located along the eastern half of the site.**

**According to the WDFW Priority Habitats and Species Maps and the WDFW Salmonscape web application, the nearest occurrence of priority resident and anadromous fish habitat is in Japanese Gulch Creek approximately 0.4 miles to the east. This streams flows north-northeast and continues into the Puget Sound.**

- 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. [\[help\]](#)

**The project proposal includes filling the Category IV Wetland (A). As compensatory mitigation for fill of the low quality wetland on the subject site, the applicant is proposing to utilize the City of Mukilteo Critical Areas Mitigation Program (CAMP).**

- 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. [\[help\]](#)

**Lot development will result in permanent impacts to 3,432 square feet (0.079 acres) of Category IV wetland (City of Mukilteo and DOE rating). Fill material will be limited to gravel and native soil sourced locally. Total fill will be approximately 650 cubic yards. Fill material will be placed after the property has been completely cleared and during the grading phase of the project.**

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

**No**

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

**No**

- 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. [\[help\]](#)

**No**

b. Ground Water:

- 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. [\[help\]](#)

**No. The applicant will connect to Mukilteo Municipal 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. [\[help\]](#)

**None, the applicant will discharge waste water to the Mukilteo Municipal Sewer System.**

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. [\[help\]](#)

**All stormwater will be collected on site via downspouts to splash blocks and then directed to the City of Mukilteo stormwater system.**

- 2) Could waste materials enter ground or surface waters? If so, generally describe. [\[help\]](#)

**Waste materials are not anticipated to enter the ground or surface waters because of the methods use to collect and transport, as mentioned above.**

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

**Drainage patterns are not anticipated to change due to the collection systems currently in place (city sewer and stormwater collection systems).**

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

**The only measures proposed to control surface runoff is the on-site stormwater control methods mentioned above.**

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



a. Check the types of vegetation found on the site: [\[help\]](#)

☒ deciduous tree: alder, maple, aspen, other

☐ 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? [\[help\]](#)

**Dominant vegetation on-site site is a combination of native shrubs and small trees including Sitka willow and Nootka rose as well as a number of invasive species. A large portion of the property has been invaded with Himalayan blackberry and field bindweed, which has created a dense thicket across the site. Approximately 3,432 square feet of vegetation will be removed as part of the proposed wetland fill.**

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

[\[help\]](#)

**N/A**

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any: [\[help\]](#)

**Since a majority of the site is dominated by invasive species and will be filled as part of the project proposal, no measures are proposed to preserve on-site vegetation. However, the applicant is proposing to create a total of 5,162 square feet of wetland (1.5:1 creation to fill ratio) off site, as mitigation for the 3,432 square feet (0.079 acres) of permanent on-site wetland fill. Additionally, as compensatory mitigation for the loss of 6,609 square feet of regulated buffer area, the applicant is proposing to enhance a total of 6,649 square feet of buffer off site with an assemblage of native trees and shrubs (1:1 enhancement to impact ratio). The enhancement of the off-site degraded buffer area, and establishment of a structurally diverse assemblage of native plants, will improve the attenuation of floodflow, biofiltration function, and the quality of wildlife habitat provided within the off-site mitigation area.**

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

**Himalayan blackberry and field bindweed**

## 5. Animals

- 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: [\[help\]](#)  
birds: hawk, heron, eagle, songbirds, other:  
mammals: deer, bear, elk, beaver, other:  
fish: bass, salmon, trout, herring, shellfish, other \_\_\_\_\_

**No mammalian species were detected during our on-site investigations in 2016, although several species, including gray squirrels (*Sciurus spp.*) and raccoon (*Procyon lotor*), are expected to occur within the area. Avian activity was not strongly detected. However, given the habitat available nearby, it is expected that the following avian species use the area: American Crow (*Corvus brachyrhynchos*), American Robin (*Turdus migratorius*), Steller's Jay (*Cyanocitta stelleri*), Black-capped Chickadee (*Parus atricapilla*), Dark-eyed Junco (*Junco hyemalis*), northern flicker (*Colaptes auratus*), and Song Sparrow (*Melospiza melodia*).**

- b. List any threatened and endangered species known to be on or near the site. [\[help\]](#)

**None**

- c. Is the site part of a migration route? If so, explain. [\[help\]](#)

**No**

- d. Proposed measures to preserve or enhance wildlife, if any: [\[help\]](#)

**None**

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

**None**

## **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 needs? Describe whether it will be used for heating, manufacturing, etc. [\[help\]](#)

**Electric and gas, typical of new home construction.**

- b. Would your project affect the potential use of solar energy by adjacent properties?  
If so, generally describe. [\[help\]](#)

**No**

- 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: [\[help\]](#)

**None**

## **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. [help]

**No**

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

**N/A**

- 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.

**N/A**

- 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.

**The only hazardous or toxic chemicals to be used during the construction of this project are limited to those found in commonly used building materials for single-family residences.**

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

**N/A**

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

**Typically measures employed by construction contractors.**

## **b. Noise**

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

**The proposed project is located within a residential development, therefore, existing noise is limited to residential activities and won't affect the project.**

- 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. [\[help\]](#)

**Land clearing, grading, and access construction will be performed with heavy machinery on a short basis while the site is being developed. Heavy machinery includes: backhoe, front loader, excavator, heavy trucks, dump trucks, grader, and paver. Construction will occur during normal work hours of 8:00 am to 5:00 pm.**

- 3) Proposed measures to reduce or control noise impacts, if any: [\[help\]](#)

**N/A**

## **8. Land and shoreline use**

- 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. [\[help\]](#)

**The site is currently undeveloped and surrounding land use consists of single-family residential development. The proposed development will match current surrounding land use.**

- 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? [\[help\]](#)

**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, the subject site is located in a residential development.**

- c. Describe any structures on the site. [\[help\]](#)

**No structures currently existing on site.**

- d. Will any structures be demolished? If so, what? [\[help\]](#)

**No**

- e. What is the current zoning classification of the site? [\[help\]](#)

**RD 7.5 Single-Family Residential**

- f. What is the current comprehensive plan designation of the site? [\[help\]](#)

**Single-family Residential – High Density**

- g. If applicable, what is the current shoreline master program designation of the site? [\[help\]](#)

**N/A**

- h. Has any part of the site been classified as a critical area by the city or county? If so, specify. [\[help\]](#)

**No**

- i. Approximately how many people would reside or work in the completed project? [\[help\]](#)

**This amount is currently unknown. However, it will likely be the amount of an average family size.**

- j. Approximately how many people would the completed project displace? [\[help\]](#)

**None**

- k. Proposed measures to avoid or reduce displacement impacts, if any: [\[help\]](#)

**N/A**

- l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any: [\[help\]](#)

**The proposed land use is similar to the existing surrounding development and compatible with current zoning classification.**

- m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any:

**N/A**

## **9. Housing**

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing. [\[help\]](#)

**1 Single-family Residence, Income N/A**

- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing. [\[help\]](#)

**None**

- c. Proposed measures to reduce or control housing impacts, if any: [\[help\]](#)

**The proposed land use is similar to the existing surrounding development and compatible with current zoning classification.**

## 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? [\[help\]](#)

**The proposed height and exterior building material is of typical heights and materials associated with single-family residences.**

- b. What views in the immediate vicinity would be altered or obstructed? [\[help\]](#)

**None**

- c. Proposed measures to reduce or control aesthetic impacts, if any: [\[help\]](#)

**Proposed residential aesthetics will match surrounding structures.**

## 11. Light and glare

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur? [\[help\]](#)

**The type of lighting will be the same as what is typically used with single-family residences. During normal residential hours.**

- b. Could light or glare from the finished project be a safety hazard or interfere with views? [\[help\]](#)

**No**

- c. What existing off-site sources of light or glare may affect your proposal? [\[help\]](#)

**None**

- d. Proposed measures to reduce or control light and glare impacts, if any: [\[help\]](#)

**Proposed residential lighting will match surrounding structures.**

## 12. Recreation

- a. What designated and informal recreational opportunities are in the immediate vicinity? [\[help\]](#)

**The proposed residences is located in a residential community that abuts the Japanese Gulch trail system used by hikers and mountain bikers.**

- b. Would the proposed project displace any existing recreational uses? If so, describe. [\[help\]](#)

**No, since the proposed residence is not located where the trails are.**

- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any: [\[help\]](#)

**None, since the proposed development does not impact surrounding recreational opportunities.**

### **13. Historic and cultural preservation**

- 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 located on or near the site? If so, specifically describe. [\[help\]](#)

**None**

- 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. [\[help\]](#)

**None on-site. The mitigation site once housed a cemetery which was eliminated in the 1981. A Cultural Resources review and Archeological study has been preformed and no additional artifacts of cultural significance was identified on the subject site or mitigation site.**

- 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. [\[help\]](#)

**A Cultural Resources review and Archeological Study, including cosulation with local tribes and DAHP has been preformed on the subject and mitigation 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.

In the Cultural Resources review and Archelological Study prepared by Tierra ROW (Archaeological Report No. 2016-10, December 14, 2016) several factors were identified.

The DAHP predictive model probability calculations are based on known environmental factors and/or information derived from archaeological research and shows the project areas as having a low to moderate risk for the presence of archaeological materials. Precontact use of these areas appears to have been more concentrated on the shoreline. During the historic era, this area was likely logged at least once if not multiple times. Both areas were likely slightly modified or graded during their history.

Additional information from the Mukilteo Historical Society, including historical aerial photography of the area, showed that the entire parcel on which Highland Memorial Park Cemetery once sat had been cleared by 1969 and remained so until it was closed in 1981 (Summitt, personal communication 2016). The western portion of the cemetery (a portion of which is now a community garden) shows more upkeep and appears to have grave markers present in aerial photos. It is still possible that a burial may have been present in the portion of the cemetery to be affected by the current project. Given the depositional environment (mostly glacial), the soil type (moderately to highly acid), the history of post-Settlement logging practices, and the results of initial subsurface testing, it is unlikely that intact archaeological deposits will be located in the SFR construction area in Section 4. However, given location of a portion of the mitigation area within the boundaries of a historic cemetery, the extreme proximity of the remainder of the mitigation area to the cemetery, and the lack of information available regarding the cemetery, it is more likely that historic era materials may be located during work in the mitigation area.

Tierra recommends a finding of No Adverse Effect to cultural resources for the project area in Section 4, Township 28 North, Range 4 East, WM (the SFR construction area).

Tierra recommends monitoring of ground-disturbing activities to a depth of 1.8 m (6.0 feet) below the ground surface for the project area in Section 10, Township 28 North, Range 4 East, WM (the wetland mitigation area).

In the event that archaeological materials are encountered during the project, an archaeologist should immediately be notified and work should be halted in the vicinity of the find until the materials can be inspected and assessed. At that time, the appropriate persons are to be notified of the exact nature and extent of the resource so that measures can be taken to secure them. In the event of inadvertently discovered human remains or indeterminate bones, pursuant to Revised Code of Washington 68.50.645, all work must stop immediately and law enforcement should be contacted. Any remains should be covered and secured against further disturbance, and communication established with local police, the DAHP, and any concerned Tribal agencies.

## 14. Transportation



- 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. [\[help\]](#)

**Eighth Street is a residential street that serves the subject site. The main road that serves the residential neighborhood is Mukilteo Speedway.**

- 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? [\[help\]](#)

**The subject site is not currently served by public transit. However, public transit does serve Mukilteo Speedway.**

- c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate? [\[help\]](#)

**Proposed parking space will be of typical size associated with single-family residential driveways located in residential developments. The site currently does not facility parking, therefore, the proposal would not eliminate parking spaces.**

- 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). [\[help\]](#)

**N/A**

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

**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? [\[help\]](#)

**Vehicular trips will be of typical amounts associated with a single-family residence. Peak volumes would likely occur during typical work day commute hours.**

- 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: [\[help\]](#)

**None**

## 15. Public services

- 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. [\[help\]](#)

**The proposed project would only increase the need for public services by one family.**

- b. Proposed measures to reduce or control direct impacts on public services, if any. [\[help\]](#)

**None, since the increase in need of public services is minor.**

## 16. Utilities

- a. Circle utilities currently available at the site: [\[help\]](#)  
electricity, natural gas, water, refuse service, telephone, sanitary, septic system, other \_\_\_\_\_

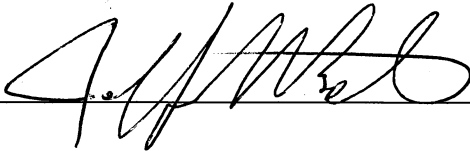
**Electricity, natural gas, water, refuse service, telephone, sewer.**

- 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. [\[help\]](#)

**Electricity, natural gas, water, telephone, sewer.**

## C. 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: \_\_\_\_\_

Name of signee:  
Jeff Mallahan

Position and Agency/Organization:  
Senior Ecologist  
Wetland Resources, Inc.

Date Submitted: August 14, 2018