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Geology and Earth Resources

Revised Permit Application
Torden Thomsen
5219 N Shirley St #100, Tacoma, WA 98407
DNR Permit #70-01095843

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.

The help links in this checklist are intended to assist users in accessing guidance on the checklist questions. Links are provided to the specific sections of the guidance applicable to the questions. However, the links may not work correctly on all devices. If the links do not work on your device, open the guidance at www.ecy.wa.gov/programs/sea/sepa/apguide/EnvChecklistGuidance.html and navigate to the appropriate section.

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: Steilacoom Revised Reclamation Permit Application
2. Name of applicant: Torden Thomsen
3. Address and phone number of applicant and contact person:
P.O. Box 8478
Lacey, WA 98509
360-456-6307
Ken Thomsen
4. Date checklist prepared: 8/23/16
5. Agency requesting checklist: Department of Natural Resources (DNR)
6. Proposed timing or schedule (including phasing, if applicable): Reclamation filling and grading to begin upon approval. Reclamation will be completed as suitable fill material is available (1-5 years).
7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain. Residential development is the approved subsequent use of the site, therefore reclamation activities including filling and grading to match adjacent boundary elevations will be completed to support future residential development. This SEPA checklist is limited to the reclamation filling and grading only.
8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal. Not applicable. This proposal is directly related to the filling and grading of a former surface gravel mine to match existing boundary elevations. Fill material will be monitored to ensure only clean inert fill is accepted, engineered fill placement plans will be followed to ensure compaction requirements are met, and stormwater will be managed within the mine depression using infiltration.
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. This SEPA checklist is being submitted to the DNR as a component of a Revised Reclamation Permit Application. Thurston County has approved the subsequent use of the site for residential development. No other governmental approvals are expected to be necessary.

10. List any government approvals or permits that will be needed for your proposal, if known. This SEPA checklist is being submitted to the DNR as a component of a Revised Reclamation Permit Application. Thurston County has approved the subsequent use of the site for residential development. No other governmental approvals are expected to be necessary.

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 proposed actions included filling and grading of the former surface gravel mining areas which have created a surface depression with approximately 7.5 acres of surface area and 20 feet of vertical drop below the prior mining surface. Filling and grading will be completed according to DNR approved Reclamation Permit requirements including engineered fill placement and compaction methods and stormwater handling practices. Filling and grading is to support subsequent use as residential development.

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. Google maps lists the address of the site as 9520 Steilacoom Rd SE, Olympia, WA 98513. The site is located north of Steilacoom Rd SE, west of Torden Ln SE, east of Ridgeview Dr SE, and south of Regency Loop SE, in a portion of Section 18, Township 18 North, Range 01 East. The site plan, vicinity map and topographic map included in the Revised Reclamation Permit Application which this checklist is a component of.

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site:

(circle one): Flat, rolling, hilly, steep slopes, mountainous, other Former gravel pit with approximately 2:1 slopes and topsoil berms along most of the pit boundaries.

b. What is the steepest slope on the site (approximate percent slope)? Currently slopes as steep as 2:1 exist on site. After the proposed filling and grading, the max slope will be a uniform 4% sloping north.

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. Gravel with sand

- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe. No. Former mine site subject to earthmoving activity. All sidewalls currently appear stable, and adjacent properties are relatively flat. Proposed filling and grading will further stabilize all soils.
- 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. Approximately 90,000 cubic yards of fill will be necessary to bring the site up to grade. This is based on the survey completed to generate the topographic map and sections included in the Revised Reclamation Permit application. Clean fill capable of structural compaction will be sourced from local construction projects.
- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe. No. The existing pit condition with stormwater infiltration will be maintained until the final lift of fill is placed, afterwhich the surface will be seeded, or covered in temporary erosion control material until vegetation can be established depending on the season.
- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? This proposal does not included construction of impervious surfaces.
- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any; The existing pit condition with stormwater infiltration will be maintained until the final lift of fill is placed, afterwhich the surface will be seeded, or covered in temporary erosion control material until vegetation can be established depending on the season.

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. Emissions will be limited to internal combustion engines used for delivery, grading, and compaction of fill.
- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe. None known at this time.
- c. Proposed measures to reduce or control emissions or other impacts to air, if any: Trucking will be limited to the greatest extent possible by importing fill from excavation projects as close to the site as possible. Also, compaction will be accomplished whenever possible using grading equipment tracking.

3. Water

a. Surface Water:

- 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. No waterbody in the immediate vicinity.

- 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. Not applicable. No waterbody in the immediate vicinity.
 - 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. No fill or dredge material placed in or removed from surface water or wetlands.
 - 4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. No. Stormwater will be infiltrated on site during filling and grading. Ponds will have the DNR Reclamation Permit required capacity to retain the 25-year, 24-hour precipitation event.
 - 5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan. 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. 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. No groundwater withdrawal. Stormwater will be allowed to infiltrate. There are no known surface conditions which would impact stormwater quality prior to infiltration, and import material will only be accepted from clean sites. Stormwater quantities will be dependent on the storm event.
 - 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. No waste material will be 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. Stormwater will be managed during filling and grading within the pit. Post-reclamation, a shallow, low grade, vegetated conveyance ditchline will be constructed to direct all runoff into an infiltration pond in the northeast corner of the property.

- 2) Could waste materials enter ground or surface waters? If so, generally describe. No waste materials are known to exist on site or will be placed on site during the proposed filling and grading activity.
- 3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe. The proposed filling and grading activity will restore native drainage patterns by filling the mined area back up to original grade. Native vegetation will be reestablished once filling is complete.

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any: The final reclaimed surface will replicate native conditions, therefore reducing runoff volumes and reestablishing native infiltration rates. During reclamation, the former pit mine will provide the DNR Reclamation Permit required 25-year 24-hour precipitation event retention capacity.

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? Invasive scotch broom will be removed from the topsoil berms surrounding the mining pit area. The mining pit to be filled is not supporting vegetation currently.

- c. List threatened and endangered species known to be on or near the site. No threatened or endangered species known. Site is surrounded by residential development.

- d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any: Final reclamation will include seeding of the final grade surface with native grasses to stabilize soils prior to subsequent residential development.

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

5. Animals [help]

DNR TRAX
check - no
T/E in section
CW, 10-4-16

- 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: hawk, heron, eagle, songbirds, other:
mammals: deer, bear, elk, beaver, other:
fish: bass, salmon, trout, herring, shellfish, other _____

Small songbirds and ravens have been observed.

- b. List any threatened and endangered species known to be on or near the site. No threatened or endangered species known. Site is surrounded by residential development.

- c. Is the site part of a migration route? If so, explain. [help]
Not known to be part of a migration route. Vert small portion of trees on the site and no trees within the mine pit area proposed for filling. Not shown on Washington Department of Fish and Wildlife Priority Habitat and Species.

- d. Proposed measures to preserve or enhance wildlife, if any:
Existing bare gravel surface will be filled, covered with topsoil and seeded.

- e. List any invasive animal species known to be on or near the site. No invasive animals observed or 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. Petroleum fuel will be used for equipment and trucking.
- b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe. No, filling to surrounding grades.
- 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: Trucking haul distances will be minimized by importing clean material from nearby construction sites to the greatest extent possible. Compaction will be accomplished by dozer tracking to the greatest extent possible.

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. This proposal includes handling of inert materials only. Fuel spills would only occur if damage equipment was damaged.

DNR
TRAX Sec 18
E/T/S Animal
Western Gray
Squirrel
CW 10-4-16
Most of WA
state in the
Pacific Flyway
migration
CW 10-4-16

- 1) Describe any known or possible contamination at the site from present or past uses.
None known. Past uses for rock mining and hauling off site could have resulted in minor fuel spills, but no spill events are 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 or suspected.
 - 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. None known or suspected.
 - 4) Describe special emergency services that might be required. No specific emergency services are known to be necessary.
 - 5) Proposed measures to reduce or control environmental health hazards, if any:
Proposed activities will include handling, placement, and compaction of inert materials only. No environmental health hazards are known to exist on site.
- b. Noise [\[help\]](#)
- 1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)? Large residential development to the south is currently under construction.
 - 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. Short term trucking and placement equipment noise will be created by the proposed project. These noise levels will be at or below the noise intensity of former mining operations.
 - 3) Proposed measures to reduce or control noise impacts, if any: Noise will be limited to daytime hours to the greatest extent possible.
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 is currently a surface gravel mine surrounded by residential development. The proposed project will close access to the gravel resource and prepare the site for future residential development.
 - 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 farmland or forest land on the site.

- 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. One container formerly used as a scale facility will be removed prior to filling activity.
- d. Will any structures be demolished? If so, what? No demolition conducted on site. Structure will be removed.
- e. What is the current zoning classification of the site? ME- Mineral Extraction
- f. What is the current comprehensive plan designation of the site? Lacy Urban Growth Area
- g. If applicable, what is the current shoreline master program designation of the site?
Not Applicable
- h. Has any part of the site been classified as a critical area by the city or county? If so, specify.
No.
- i. Approximately how many people would reside or work in the completed project? None at the time of project completion.
- j. Approximately how many people would the completed project displace? None.
- k. Proposed measures to avoid or reduce displacement impacts, if any: Not applicable.
- L. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any: Filling in preparation for subsequent use as residential development is in line with future land use as an urban growth area.
- m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any: Not applicable
9. Housing [[help](#)]
- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing. No housing would be provided as part of this project.
- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing. No housing will be eliminated.
- c. Proposed measures to reduce or control housing impacts, if any: Not applicable.

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? Filling to surrounding grade.
- b. What views in the immediate vicinity would be altered or obstructed? None.
- b. Proposed measures to reduce or control aesthetic impacts, if any: Not applicable.

11. Light and Glare [help]

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur? No light or glare impacts.
- 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 and glare impacts, if any: Not applicable.

12. Recreation

- a. What designated and informal recreational opportunities are in the immediate vicinity? None known.
- 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: Not applicable

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. No
- 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. No
- 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. Former mining activity has removed surface deposits. Proposed filling will not disturb additional areas on site.

DNR TRAX
No historical
or cultural
Cef, 10-4-16

- 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. Not Applicable.

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. Site is adjacent to Steilacoom Road SE.
- 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] Intercity Transit line 62B, 0.4mi to nearest stop at Deerbrush and Steilacoom Rd.
- c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate? No parking created or eliminated.
- 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? The completed project does not create a point of interest, therefore no public or regular private access is expected, so no transportation impacts are expected.
- 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. Intermittent trucking during filling activities only. Post project completion, no traffic impacts are expected.
- h. Proposed measures to reduce or control transportation impacts, if any: Not applicable.

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. Not applicable.

16. Utilities [help]

- a. Circle utilities currently available at the site:

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

- 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. None.

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 _____

Position and Agency/Organization _____

Date Submitted: _____