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:
   Interim Action Work Plan (IAWP) for Bioremediation Activities
   Boeing Developmental Center (DC; Site)
   Tukwila, Washington

2. Name of applicant:

The Boeing Company

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

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Seattle, WA 98108-4848
206-327-0404

4. Date checklist prepared:

1/28/2019

5. Agency requesting checklist:

Washington State Department of Ecology

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

Groundwater monitoring at the site is ongoing and there are no bioremediation injections planned at this time. However, because there is still groundwater with low contaminant concentrations, additional bioremediation injection treatments may be necessary in the future. The timing of potential bioremediation treatments is not known at this time.

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

No.

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

Existing environmental information is contained in the following reports:

Boeing. 2003. Letter: Completion of Groundwater Monitoring Program at AOC-03/04, Boeing Developmental Center, Tukwila, Washington. From James Bet, SSG Environmental Remediation, The Boeing Company, to Byung Maeng, Washington State Department of Ecology, Northwest Regional Office. May 7.

Boeing. 2002. Letter: Completion of Groundwater Monitoring Program at AOC-01/02, Boeing Developmental Center, Tukwila, Washington. From James Bet, SSG Environmental Remediation, The Boeing Company, to Byung Maeng, Washington State Department of Ecology, Northwest Regional Office. October 22.

Boeing. 2001. Developmental Center Groundwater Monitoring Plan. Safety, Health, and Environmental Affairs, The Boeing Company. February.

LAI. 2018a. 2017 Annual Report, AOC-05 Remedial Action, Enhanced Anaerobic Biodegradation of Gasoline-Range Petroleum Hydrocarbons, Boeing Developmental Center, Tukwila, Washington. Landau Associates, Inc. Prepared for The Boeing Company. June 15.

LAI. 2018b. 2017 Annual Report, SWMU-17 Remedial Action, Enhanced Anaerobic Bioremediation, Boeing Developmental Center, Tukwila, Washington. Landau Associates, Inc. March 27.

LAI. 2018c. Letter: May 2018 Semiannual Groundwater Monitoring Report, Boeing Developmental Center, Tukwila, Washington. From Kenneth Reid, LEG, Senior Geologist, and Clinton Jacob, PE, LG, Principal Engineer, Landau Associates, Inc., to Byung Maeng, Washington State Department of Ecology, Northwest Regional Office. July 16.

LAI. 2018d. Email message from Clint Jacob, PE, LG, Principal Environmental Engineer, Landau Associates, Inc., to Carl Bach, Project Manager, The Boeing Company. Re: DC lab switch. January 15.

LAI. 2015. Additional Reduction in SWMU-20 Groundwater Monitoring Program, Boeing Developmental Center, 9725 East Marginal Way South, Tukwila, Washington. From Clint Jacob, PE, LG,Landau Associates, Inc., to James Bet, The Boeing Company. March 18.

LAI. 2013. Proposed Cleanup Standards and Comparison to Site Data, Boeing Developmental Center, Tukwila, Washington. Landau Associates, Inc. Prepared for The Boeing Company. May 7.

LAI. 2010a. SWMU-17 Pilot Test Report, Boeing Developmental Center, Tukwila, Washington. Landau Associates, Inc. Prepared for The Boeing Company. May 14.

LAI. 2010b. Reduction – SWMU-20 Groundwater Monitoring Program (Revised to Address Ecology Conditional Approval), Boeing Developmental Center, 9725 East Marginal Way South, Tukwila, Washington. From Clint Jacob, PE, LG, Landau Associates, Inc., to James Bet, The Boeing Company. April 1.

LAI. 2007. AOC-05 Pilot Test Results, Enhanced Anaerobic Biodegradation of Petroleum Hydrocarbons, Boeing Developmental Center, Tukwila, Washington. From Clint Jacob, PE, and Benni Jonsson, Landau Associates, Inc., to Jim Bet, The Boeing Company. October 3.

LAI. 2006a. Evidence of Nitrate Reducing Conditions, AOC-05, Boeing Developmental Center, Tukwila, Washington. From Clint Jacob, PE, and Benni Jonsson, Landau Associates, Inc., to Jim Bet, The Boeing Company. June 19.

LAI. 2006b. Results of Indoor Air Sampling, SWMU-20 Building 9-90, Boeing Developmental Center, Tukwila, Washington. From Clint Jacob, PE, and Chip Halbert, PE, Landau Associates, Inc., to Jim Bet, The Boeing Company. March 14.

LAI. 2005. SWMU-20 Modeling Response to Comment and Remedial Action Update, Boeing Developmental Center, Tukwila, Washington. From Clint Jacob, PE, and Chip Halbert, PE, Landau Associates, Inc., to Jim Bet, The Boeing Company. August 18.

LAI. 2004. Evaluation Report, SWMU-17, SWMU-20, and AOC-05, Boeing Developmental Center, Tukwila, Washington. Landau Associates, Inc. Prepared for The Boeing Company. March 10.

LAI. 2002. Summary Report, Corrective Action, Boeing Developmental Center. Landau Associates, Inc. Prepared for the Boeing Company. February 27.

SAIC. 1994. RCRA Facility Assessment Report for Boeing Developmental Center, Tukwila, Washington, EPA ID No. WAD 09363 9946 and Boeing Military Flight Center, Seattle, Washington, EPA ID No. WAD 98847 5943. Prepared for U.S. Environmental Protection Agency. Prepared by Science Applications International Corporation. September.

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.

None. No injections are planned at this time.

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

None.

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 DC is a regulated facility under the Resource Conservation and Recovery Act (RCRA) with a facility identification number of WAD-09363-9946.The Washington State Department of Ecology (Ecology) is authorized by the US Environmental Protection Agency (EPA) to implement RCRA corrective action through its Model Toxics Control Act (MTCA) regulations. Boeing performed remedial actions at the DC under Ecology's Voluntary Cleanup Program (VCP). The facility consists of approximately 60 buildings on 164.4 acres, of which Boeing owns 94.5 acres (Landau Associates, Inc. [LAI] 2002, SAIC 1994).

The DC is an aircraft and aerospace research and development complex, primarily supporting projects for the US Department of Defense. Boeing has been operating on portions of this site since 1956 (SAIC 1994). Further remedial action is required in three areas at the DC (SWMU-17, SWMU-20 and AOC-05). Groundwater monitoring is ongoing and there are no bioremediation injections planned at this time. However, additional bioremediation injection treatments may be necessary in the future.

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.

The DC (site) is located at 9725 East Marginal Way South in Tukwila, Washington near Boeing Field and the Military Flight Center (Figure 1). The site is bounded by the Duwamish River on the west and East Marginal Way South on the east. The facility consists of approximately 60 buildings on 164.4 acres, of which Boeing owns 94.5 acres (Landau Associates, Inc. [LAI] 2002, SAIC 1994). The potential bioremediation injection work will occur in one or more of the three shaded areas in the center of the property labeled AOC-5, SWMU-17, and SWMU-20 (Figure 1)

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)?

While the site is generally flat, the steepest slopes (up to approximately 10 percent) occur along the sideslopes of the existing drainage swales in the project area.

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.

Sand and gravel fill material overlying sandy alluvial soil deposits.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe. No.

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.

No earthwork is anticipated at this time.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.
No.

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

The site is paved and no additional paving will occur as part of this project.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:
Not applicable.

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.

Emissions from vehicles is anticipated during routine groundwater monitoring events. Gasoline powered pumps are used during bioremediation activities, but no bioremediation work is currently scheduled, thus no emissions quantity was calculated.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe. None.

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

Carpooling when project needs can accommodate it and vehicles will be shut off when not in use.

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, the Duwamish River is adjacent to the roperty and runs along the western edge of the site and flows into Elliott Bay.

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.

None planned at this time.

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. None.

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. No.

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

The westernmost margin of the DC site is located along the Duwamish River and is within a 100-year floodplain (Figure 1). None of the actions discussed in this SEPA checklist (groundwater sampling and bioremediation injection) will occur in the 100-year floodplain.

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: [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 for drinking water. Groundwater will be extracted for the purposes of groundwater sampling at a rate equal to about 100 milliliters per minute and, when applicable, up to 10 gallons per minute for bioremediation purposes; not all bioremediation requires groundwater extraction and reinjection. Groundwater sampling would be extracted at less than 5 gallons per sample location. As no bioremediation work is currently scheduled, it is unknown how much water could be extracted for such purposes.

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.

Dechlorinated tap water, nitrate and/or lactate solution(s) would be discharged into the ground during bioremediation groundwater injections. The bioremediation injection discharge will occur at designated injection points (i.e. groundwater monitoring or injection wells).

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.

No water runoff is expected as part of this project.

2) Could waste materials enter ground or surface waters? If so, generally describe. No.

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:

Not applicable.

4. Plants [help]

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

____deciduous tree: alder, maple, aspen, other
____evergreen tree: fir, cedar, pine, other
____shrubs
____grass
____pasture
____crop or grain
____ Orchards, vineyards or other permanent crops.
____ wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
____water plants: water lily, eelgrass, milfoil, other
__X__other types of vegetation:

Landscape trees, shrubs, and grasses only. No unplanted plants exist at the site.

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

Not applicable. No plans to remove or alter vegetation at this time.

c. List threatened and endangered species known to be on or near the site. None.

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

None. No vegetation would be altered as part of the project.

e. List all noxious weeds and invasive species known to be on or near the site. None.

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

Rodents and birds typically found in urban areas may be present on or around the site.

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

Priority Habitats and Species (PHS) maps were reviewed online through the Washington Department of Fish & Wildlife (WDFW) website (WDFW website 2019[1]). These maps show that salmon, trout, and western pond turtles have been reported in the Duwamish River, which runs along the west site of the site. The DC is entirely covered by industrial structures, pavement, and small amounts of landscaping. The project does not involve alterations to any vegetated area, and will not occur adjacent to the Duwamish River. No

[1] WDFW website. 2019. PHS on the Web. http://wdfw.wa.gov/mapping/phs/. Washington Department of Fish & Wildlife. Accessed January 25.

excavation or construction will occur as part of the project. Therefore, no animals will be affected by the project.

c. Is the site part of a migration route? If so, explain. No.

d. Proposed measures to preserve or enhance wildlife, if any: None.

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.

Gasoline vehicles will be used to transport people and equipment to and from the site and rechargeable, battery operated and/or compressed gas operated sampling equipment will be used to extract groundwater during sampling events. Gasoline powered pumps would only be used during bioremediation activities, but no bioremediation work is currently scheduled.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe. No.

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any: Not applicable.

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.

Yes, potential worker exposure to petroleum hydrocarbons or chlorinated solvents during groundwater sampling and bioremediation injections.

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

Historically, the site has experienced contamination in soil, groundwater, stormwater and building materials. Previous contaminants of concern were heavy metals, polychlorinated biphenyls (PCBs), petroleum hydrocarbons, and chlorinated solvents. Currently, the project site contaminants of concern are petroleum hydrocarbons and chlorinated solvents.

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.

Not applicable. There are no activities planned for this project that involve work with or around hazardous chemicals or conditions.

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.

Not applicable. There are no activities planned that would store, use, or produce

toxic or hazardous chemicals.

4) Describe special emergency services that might be required.

No special emergency services will be needed with sampling or handling of contaminated groundwater or during bioremediation injections.

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

Potential onsite health hazards will be mitigated by implementation of a project-specific Health and Safety Plan. Site workers will have 40-hour hazardous waste training and will use appropriate personal protective equipment and decontamination procedures.

b. Noise

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

Noise associated with operations at the King County International Airport and Boeing Developmental Center are not expected to affect project activities.

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 is little to no noise anticipated as part of this project.

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

Not applicable.

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.

Current land uses at and around the site are light to heavy industrial. This proposal will not affect current or adjacent property land uses.

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.

The project site contains multiple access roads and buildings for manufacturing, offices, workers, and maintenance-related work.

d. Will any structures be demolished? If so, what? No.

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

Manufacturing Industrial Center/Heavy Industrial (City of Tukwila).

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

Manufacturing Industrial Center/Heavy Industrial (City of Tukwila).

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?

No people will reside in the completed project area. The project will not alter the number of people working at the site.

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:

The project is not anticipated to interfere with land uses or plans.

m. Proposed measures to reduce or control impacts to 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. 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: 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?

Not applicable – no structures are proposed.

b. What views in the immediate vicinity would be altered or obstructed? None.

c. 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?

None. Work will primarily occur during daylight hours.

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: Not applicable.

12. Recreation [help]

a. What designated and informal recreational opportunities are in the immediate vicinity? None.

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 [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. 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.

Not applicable. The project does not include excavation or removal or alteration of any structures.

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.

The DC is located west of East Marginal Way South (see attached map on Figure 1). The project would not alter access to the existing street system.

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?

Public transit buses serve East Marginal Way South, immediately east of the proposed project. The project would not impact the nearby public transit.

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

All required parking will be temporary parking in or directly adjacent to the project area. No parking spaces will be eliminated as a result of the project.

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?

No vehicular trips would be generated by the completed project.

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: 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]

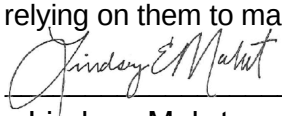
a. Circle utilities currently available at the site:
electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other stormwater drainage system

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.

No utilities will be installed as part of this project.

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 Lindsey Mahrt

Position and Agency/Organization Boeing Remediation Project Manager

Date Submitted: 3/15/19

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?

   Proposed measures to avoid or reduce such increases are:

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

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

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

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

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?

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

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?

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

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

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

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

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Legend

- AOCs
- SWMUs
- Facility Boundary
- 100-Year Floodplain

0 300 600

Scale in Feet

Notes

1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

LANDAU ASSOCIATES

Data Sources: Boeing; FEMA; Esri World Imagery.

Boeing Developmental Center Facility Tukwila, Washington	**Facility Boundary**	Figure 1