King County
Department of Natural Resources and Parks
Parks and Recreation Division
King Street Center
201 South Jackson Street, Suite 5702
Seattle, WA 98104
http://www.kingcounty.gov/parks

SEPA Environmental Checklist

A. Background

1. Name of proposed project, if applicable:

Marymoor Park Stormwater Facility Improvements

2. Name of applicant:

King County Department of Parks and Natural Resources

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

Shazaad Jarrahian, Capital Project Manager
King County Parks and Recreation Division
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Seattle, WA 98104
KCParks.SEPA@kingcounty.gov
206-477-7372 (SEPA)

4. Date checklist prepared:

November 29, 2022

5. Agency requesting checklist:

King County Department of Natural Resources and Parks

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

Rain Garden component: The project is targeted to be constructed in 2024. All work for this project will adhere to the timing restrictions for construction that will be outlined in project permits to be secured. Construction will occur between May and September for ground disturbing activities, with follow-up planting restoration extending through October. Any

extension in the typical construction work window expected to be needed will be requested in permit application materials.

Channel Improvements component: The project is targeted to be constructed in 2024. All work for this project will adhere to the timing restrictions for construction that will be outlined in project permits to be secured. The prescriptive in-water work window established by the Washington Department of Fish and Wildlife (WDFW) for work in or adjacent to the Sammamish River is typically July 16 to October 15. Due to park use constraints, construction will be limited to starting in August and is expected to extend through end of September for ground disturbing activities, with follow-up planting restoration extending through October. Therefore, an extension in the typical construction work window is expected to be needed and will be requested in permit application materials**.**

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.

- *Geotechnical Data Report* (Aspect Consulting, February 2022)
- *Cultural Resources Report (*Willamette CRA June 2022) (Not posted)
- *Critical Areas Report Draft* (Confluence Environmental Company, June 2022)
- *ESA No Effect Letter Draft* (Confluence Environmental Company, July 2022)
- *Mitigation Plan Draft* (Confluence Environmental Company, July 2022)

These reports are available for review at http://www.kingcounty.gov/parks/publicnotices

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.

No.

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

- Clean Water Act (CWA) Section 404 Permit, US Army Corp of Engineers
- Section 7 Endangered Species Act (ESA) Compliance, US Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS)
- CWA Section 401 Water Quality Certification, Washington State Department of Ecology
- Coastal Zone Management (CZM) Act consistency Determination, Washington State Department of Ecology
- NPDES Construction Stormwater General Permit, Washington State Department of Ecology
- Hydraulic Project Approval (HPA), Washington Department of Fish and Wildlife (WDFW)
- Critical Areas Alteration Exception (CAAE), King County
- Grading Permit, King County

- Willowmoor Farm Historic District Landmark Approval, King County
- Non-building Culvert Structural Permit, King County

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.)

Rain Garden component is located within Marymoor Park (MMP), King County, Washington, east of the Sammamish River, south of NE Marymoor Way, and north and east of the Art Barn and Maintenance Facility. The Project proposes to install storm drainage diversion/conveyance piping, a pre-treatment vortex separator, a vegetated bioretention channel and planted rain garden (bioretention cell) and associated overflow outlet improvements to provide retrofit water quality treatment and infiltration of contributing impervious and pervious surfaces runoff. The drainage area to be intercepted includes the Marymoor Office Access Drive, Parking Lot area, Art Barn, Maintenance Building/Yard, and local access drives to those facilities. In total, the improvements will intercept runoff from about 8.7 acres of contributing park surfaces, of which, about 2.8 acres are currently existing impervious. Estimated peak runoff flows at the rain garden inlet conservatively range up to approximately 5.6 cubic feet per second (cfs) for the 100-year flood event (lower values apply to conveyance piping improvements). These improvements will capture, provide storage and bioretention soil mix (BSM) filtration treatment for, and infiltrate an estimated 99.5% or more of the annual runoff volume from the tributary drainage area.

The overall proposed design area of the rain garden is approximately 25,000 sf (0.57 ac). The maximum depth of storage impoundment in the rain garden will be less than 2.5 feet, although for frequent storms through the water quality event, the depth of short-duration water impoundment has been simulated to be less than 1 foot, with draw-down time expected to be less than 12 hours.

Channel Improvements component, is located within MMP, King County, Washington, east of the Sammamish River, north of NE Marymoor Way, and south of Parking Lot K. The Project proposes to replace two separate existing 18-inch corrugated metal pipe culverts under the west and east accesses to Parking Lot K with 8-foot wide by 3-foot high (internal dimensions) pre-cast box culverts (split box sidewalls for substrate installation), with bottom slabs embedded 1.25 feet (42 percent) below the restored streamed channel. The exposed culvert clear height is limited to 1.75 feet by road grade and channel invert elevations, but a substantial culvert cross-sectional area increase (from 1.8 square feet [sf] to 14.0 sf) and associated hydraulic capacity gain will result. Replacement culvert velocities will be reduced to less than 2.5 feet per second [ft/sec] for 100-year design flows of up to 35 cubic feet per second (cfs) for the east-west tributary channel. The Project will also install pre-cast headwalls and wingwalls at the box culvert end sections to retain the adjacent road embankment side slopes.

The existing channel section between the culverts will be regraded and restored for water quality and enhancement habitat benefits, and similar for short sections of the channel downstream of the west culvert and upstream of the east culvert at tie-in to the existing channel. Multiple existing 8-inch to 12-inch storm drain outfalls to the channel will be maintained except for the realignment/replacement of an existing outfall at the east crossing. The existing channel bottom width varies up to approximately 6 feet. It exhibits a very flat hydraulic gradient (approximately 0.1 percent), and the resulting maximum channel velocities are less than 1.5 ft/sec, which does not impart significant scour potential to the existing sand-size streambed substrate. The channel bed substrate will be excavated and replaced with a streambed

gravel/topsoil mix that will be planted with water tolerant native species to enhance seasonal filtration treatment and infiltration as collective water quality benefits. The channel banks will be regraded at 3:1 side slopes, with soil amendment provided and will be restored with native plantings. Beyond the channel banks, trees will be added along the south channel bank to provide added shading for water temperature reduction water quality benefits.

The project will over-excavate approximately 3,905 sf of the east-west drainage channel, which will be backfilled with appropriate stream sediment to within 0.5 feet of existing channel grades and replanted. Approximately 675 square feet of the adjacent wetland will be re-graded, compost-amended, and re-vegetated with native plants. Neither of these activities are expected to result in loss of channel or wetland acreage (there will be a small gain in channel area for its increased size).

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 Rain Garden component lies within T25N, R05E, Section 12 at Latitude 47.66361N and Longitude 122.11944 W. The King County unincorporated area parcel designation for the site is 1225059037, with a site address of 16325 NE Marymoor Way, King County, WA 98052.

The Channel Improvements component lie within T25N, R05E, Section 12 at Latitude 47.66417N and Longitude 122.12083 W. The King County unincorporated area parcel designation for the site is 1225059037, with a site address of 16325 NE Marymoor Way, King County, WA 98052.

See Figure 1 and Figure 2, attached at the end of this document for a map of the project sites.

Legal description: SW 1/4 OF SD SEC LESS ST HWY LESS POR LY NLY OF ST HWY ALSO SW 1/4 OF SE 1/4 LESS E 30 AC ALSO S 1/2 OF SE 1/4 OF SE 1/4 TGW POR OF E 30 AC OF SW 1/4 OF SE 1/4 LY SLY & ELY OF LN DAF - BEG PT ON W LN OF SD E 30 AC 200 FT NLY FR SW COR TH S 87-50-18 E PL W S LN OF SD E 30 AC 600 FT TH N 47-09-42 E 276.19 FT TH N 01-07-26 E 845.97 FT M/L TO PT 60 FT S OF N LN OF SD E 30 AC TH ELY 200 FT M/L PLW N LN OF SD E 30 AC TO E LN OF SD E 30 AC & TERM OF OF SD LN LESS RD LESS POR PER DEED REC #20200714001059

B. Environmental Elements

1. *Earth*

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)?

Per the Geotechnical Data Report provided by Aspect Consulting (Aspect, 2022), the project area is

generally flat, ranging in elevation from 35 to 40 feet.

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.

Based on the USDA Web Soil Survey, the types of soil generally found onsite, for both project elements, is Earlmont silt loam (0 to 1 percent slope, all areas are prime farmland) (US Department of Agriculture Web Soil Survey 2019, accessed June 2022).

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

Per the King County Critical Areas iMap Viewer, accessed June 2022, the project site is classified as a seismic hazard area (King County iMap, August 2018).

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.

The Channel Improvement component of the project will over-excavate approximately 3,905 square feet/126 cubic yards (CY) of the east-west drainage channel, which will be backfilled with approximately 139 CY of appropriate stream sediment and topsoil to within 0.5 feet of existing channel grades and replanted.

For the Rain Garden, approximately 0.57 acres/3,390 CY of soil will be excavated to construct the rain garden. Approximately 2,026 CY of drain sand and bioretention soil mix will be placed in the Rain Garden area.

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

Construction of the proposed project would be subject to some degree of erosion, but implementation of TESC measures during construction, as well as post-construction reseeding and general slope reparations, will prevent erosion both during construction and in the longer term.

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

There will be no impervious surfaces added as a result of the project.
Approximately 2.8 acres of the existing 8.7 acre contributing drainage basin are existing impervious surfaces and will remain after project construction is completed. This is about 32% impervious surface coverage.
The overall project site parcel is 177.2 acres and approximately 23.34 acres are covered with impervious surfaces which is approximately 13% coverage.

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

- Construction clearing/working limits will be established, and high visibility fence installed, and all clearing and grading will occur within this designated area
- Areas outside the construction limits will be left undisturbed.

- Silt fencing will be installed at the clearing limits that are downgradient from construction.
- Storm drain inlet protection in and near the construction zone will be provided.
- Existing trees to be preserved will be isolated using tree protection fencing.
- Stabilized construction exits (foreign object debris control mats) will be used to minimize sediment trackout, together with periodic roadway sweeping.
- Groundwater and storm runoff within the work area will be extracted using dewatering. sumps and pumped to adjacent upland vegetated flow dispersal and infiltration areas.
- All stockpiles will be protected from erosion when not in frequent use by plastic covering, and perimeter protection will be provided.
- Concrete/pavement cutting water will be collected for off-site disposal at a permitted site.
- A lined concrete washout area will be provided (or alternative washout at plant), and accumulated water and materials will be hauled off-site for disposal at a permitted site.
- Dust suppression methods (watering) will be implemented.
- Temporary seeding and mulching and biodegradable erosion control products will be used where needed for construction phase soils stabilization.
- Permanent stabilization measures will be used including exposed soil compost. amendment and revegetation plantings and 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.

The longterm operation of the project will not generate any GHGs. No new types of emissions will be created after the project is complete.
There may be minimal emissions from mobile construction equipment operation during construction that are limited to exhaust from construction equipment and dust. Dust will be mitigated by watering.
The project will also be planting 24 new trees which will provide carbon sequestration as they mature.

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

There are no known sources of off-site emissions or odor that will affect the project.

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

Emissions will not result from the project; therefore, no measures are proposed.

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.

Yes, an unnamed drainage ditch (Ditch 1) begins east of the Channel Improvements project area, flows west through the study area, and discharges into the Sammamish River. WDNR's Water Type GIS mapped this ditch as a non–fish-bearing watercourse

(WDNR 2021). WDFW's SalmonScape mapped it as having no salmonid fish use (WDFW 2022).

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

Yes, the proposed project will permanently regrade Ditch 1. However grading activities will not result in loss of ditch area and will in fact slightly increase the ditch area. The ditch will be lined with appropriate streambed sediment and soil and replanted with native vegetation after regrading is completed.

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.

There will be approximately 1 cubic yard (CY) of wetland soil removed from, and 6 CY of compost placed into, Wetland 1 as a result of the project.

There will be approximately 125 CY of ditch soil removed from, and 107 CY of streambed material, 32 CY of excavated soils, and 14 CY of compost placed into, Ditch 1 as a result of the project.

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

Yes, as part of construction of the Channel Improvements component of the project, there will be installation of temporary pumps and force main used to isolate the work area and bypass any upstream channel flows (run-on) around the work area during the culvert's installation and channel improvements construction.

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

The proposed project is not located in a 100-year floodplain as currently mapped by FEMA.

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, the project does not include any discharging of waste materials to surface waters.

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.

The project will not withdraw water from a well.

Water will be discharged to groundwater as part of the project. A key purpose/objective of the Project improvements is to maximize the treatment and infiltration function of the

improvements to reduce untreated surface water discharge loadings conveyed directly as surface flow to the Sammamish River under existing conditions. These improvements will benefit water quality though passive treatment of runoff through select soil layers prior to infiltration, reduction of waterfowl fecal coliform loadings with reduced water levels in the channel improvement reach, and beneficial reduction in water temperatures achieved through conversion of a portion of the surface water discharge to groundwater.

Runoff discharge volumes to the Project improvements and to shallow groundwater through infiltration have been estimated for the improvements design through tributary drainage subbasins MGS Flood continuous simulation hydrologic modeling analysis. A summary of the average annual runoff and infiltration volumes estimated from that analysis is provided as follows (using 40-inch annual Puget East precipitation time series):

- Rain Garden/Bioretention Cell Improvements – For the 8.7 acre (ac) tributary drainage subbasin (2.8 ac impervious), the average annual runoff volume to the rain garden/bioretention cell improvements that will be fully infiltrated by project improvements is simulated to be approximately 8 acre-feet per year (ac-ft/yr). An additional 12.5 ac-ft/yr of baseline infiltration to groundwater is simulated to occur within the pervious (predominantly outwash) soils within the tributary drainage subbasin, which will be maintained with the project improvements.

- East-West Channel/Culvert Improvements – For the 50.7 ac tributary drainage subbasin (18.4 ac impervious) at the west Parking Lot K access culvert, the average annual runoff volume to the channel/culvert improvements is simulated to be approximately 93 ac-ft/yr. Of that total, less than roughly 3 ac-ft/yr is estimated to seasonally infiltrate within the improved channel section during late spring through early fall during periods of lower seasonal groundwater levels. During late fall through early spring, groundwater levels rise such that they exceed the bottom elevation of the channel during a good portion of that period, and therefore, no significant fall/winter months infiltration is expected to occur (higher groundwater is expected to typically recharge the channel through interflow during that period). An additional 24 ac-ft/yr of baseline infiltration to groundwater is simulated to occur within the pervious (predominantly till) soils within the tributary drainage subbasin, which will be maintained with the project improvements.

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 into the ground from a septic tank or other sources.

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.

The proposed project will not generate stormwater. The project will collect and treat stormwater from existing impervious surfaces in Marymoor Park.

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

There are no known sources of waste materials that will occur as a result of this project that may enter ground or surface waters.

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

The proposed Rain Garden will locally affect drainage patterns in the vicinity of the Marymoor Office Access Drive, Parking Lot area, Art Barn, Maintenance Building/Yard, and local access drives to those facilities by grading lands to route storm drainage from these facilities to the vegetated bioretention channel and planted rain garden (bioretention cell) and associated overflow outlet improvements. This will achieve the goal of providing retrofit water quality treatment and infiltration of contributing impervious and pervious surfaces runoff. In total, the improvements will intercept runoff from about 8.7 acres of contributing park surfaces, of which, about 2.8 acres are currently impervious.

The proposed Channel Improvements will not alter drainage patterns.

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

None proposed.

4. Plants

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

__X__deciduous tree: alder, maple, aspen, other
____evergreen tree: fir, cedar, pine, other
__ __shrubs
__X__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?

The project will mainly remove and alter mowed grasses. Up to two deciduous trees will be removed to construct the Rain Garden.

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

The Washington Department of Natural Resources (WADNR) list of Natural Heritage Features by Section Township Range (current as of January 12, 2021) does not indicate the presence of a feature within T25N R05E S12. No other threatened or endangered plant species are know to be on or near the site.

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

For the Rain Garden component of the project, the bioretention channel and rain garden will be installed with primarily native plantings. Emergent species will be used in the lowest elevation areas.

For the Channel Improvements component of the project, the streambed will be planted with water tolerant native species to enhance seasonal filtration treatment and infiltration as collective water quality benefits. The stream banks will be restored with native plantings, and beyond the channel banks, trees will be added along the south bank to provide added shading for water temperature reduction and water quality benefits.

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

Per the King County iMap, accessed June 2022, the known noxious weeds near the project site are Tansy Ragwort (*Senecio jacobaea*), Purple Loosestrife (*Lythrum salicaria*), and Garden Loosestrife (*Lysimachia vulgaris*).

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:

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

No specific animal species identified but some birds and mammals have been observed on site.

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

The U.S.Fish and Wildlife Services (USFWS) Information for Planning and Consultation (IPaC) database, reviewed June 2022, lists the following threatened or endangered species as potentially occurring in the project area: North American wolverine (*Gulo gulo luscus*), marbled murrelet (*Brachyramphus marmoratus*), streaked horned lark (*Eremophila alpestris strigata*), yellow-billed cuckoo (*Coccyzus americanus*), Bull Trout (*Salvelinus confluentus*), monarch butterfly (*Danaus plexippus*). However, no suitable habitat occurs within the project area for these species. WDFW confirmed during a January 2022 site visit that the ditch where Channel Improvements are proposed does not provide habitat for fish.

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

The project site is located within the Pacific Flyway migration route which extends from Alaska to Patagonia, and is used by waterfowl, eagles, hawks, falcons, songbirds, Sandhill cranes, and shorebirds. Migrating and nesting birds within the project area will be protected under the Migratory Bird Treaty Act.

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

As no impacts to wildlife are anticipated as a result of the project, no mitigation measures are proposed.

The native vegetation being planted as part of this project will improve habitat at the project site.

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

No invasive animals identified have been identified on or near the site.

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.

The completed project will not have any energy needs.

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

No, the project will not affect the potential use of solar energy by adjacent properties.

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:

No energy conservation measures are proposed as part of the project.

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.

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

There are no known or possible contaminations at the site.

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.

Per the Washington Department of Ecology's "What's in My Neighborhood" database reviewed in June 2022, no known or suspected contaminated sites are located on or immediately adjacent to the project site.

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.

No toxic or hazardous chemicals will be stored, issued, or produced as a result of the project.

4) Describe special emergency services that might be required.

The project will not require any special emergency services.

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

No environmental health hazards are anticipated as a result of the project; therefore, no measures are proposed.

b. Noise

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

Existing noise in the project area is generally associated with recreational activities in the park.

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.

On a short-term basis, the noise would be associated with construction and equipment. On a long-term basis, there would be no additional noise associated with the completed project.

In accordance with King County Noise Ordinance 12.86.520, construction for the project would occur between 7:00 am and 7:00 pm on weekdays and 9:00am to 7:00 pm on weekends.

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

Construction equipment will have mufflers and exhaust equipment to conform to regulations regarding construction noise.

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.

The current use of the site is a public park. Adjacent property uses are mini warehouses, industrial parks, and warehouses, major arterials and state routes. The proposal will not affect current land uses on nearby or adjacent properties.

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

Yes, in 1904, the first 80 acres of Marymoor Park were purchased and developed as a hunting lodge. Over time, more land was purchased, totaling 420 acres, and a showplace farm was developed. This operation was a complex of 28 buildings utilized as milking sheds, calving and horse barns, blacksmith shop, round birdhouse, boathouse, and homes for employees. The property was bought and sold over the years and continued to be used for farming, until 1963, when King County bought the property for use as a park.

No land of long-term commercial significance or any acres in farmland or forest land tax status will be converted as a result of the project.

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:**

   The project is not anticipated to affect or be affected by working farms or forest lands.

c. Describe any structures on the site.

Structures in the vicinity of the Rain Garden include parking lots, trails, Art Barn, and Maintenance Building/Yard.

The Channel Improvements site includes two 18-inch corrugated metal pipe culverts under the west and east accesses to Parking Lot K.

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

No structures will be demolished as a result of the Rain Garden component of the project. The Channel Improvements will remove the existing corrugated metal culverts and install two 8-foot-wide by 3-foot-high pre-cast box culverts.

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

Per the King County Zoning Map (Updated: December 5, 2013), accessed June 2022, the site is zoned as R-1, residential, for a mix of predominantly single detached dwelling units and other development types, with a variety of densities and sizes in locations appropriate for urban densities.

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

Per the King County Comprehensive Plan Land Use (effective July 2020), accessed June 2022, the site is designated as King County Open Space System.

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

The project site is not in a designated shoreline jurisdiction.

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

Yes. King County defines critical areas, or areas of critically environmental sensitivity, as areas at high risk for steep slopes, erosion, landslides, earthquakes, flooding, coal mines, or aquatic water features such as wetlands or lands adjoining aquatic areas such as streams, rivers, and other water bodies (King County, 2016).

Per the King County Critical Areas iMap Viewer, accessed June 2022, the project site is mapped within a seismic hazard area (King County iMap, August 2018).

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

There will be zero people that would reside or work in the completed project.

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

No people will be displaced by the completed project.

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

The project will not result in any displacement impacts; therefore, no measures are proposed.

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

No measures are proposed.

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

The project will not impact any agricultural and forest lands; therefore, no measures are proposed.

9. Housing

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

No housing units will be provided as a result of the project.

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

No housing units will be demolished as result of the project.

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

The project will not impact housing; therefore, no measures are proposed.

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?

The new culverts proposed to be installed for the Channel Improvements component of the project will be 3 feet high. No structures are proposed for the Rain Garden component of the project.

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

There are no views in the immediate vicinity that would be altered or obstructed as a result of the project.

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

No aesthetic impacts are anticipated as a result of the project; therefore, no measures are proposed.

11. Light and Glare

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

There will be no light or glare as a result of the project.

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

No, there will be no light or glare as a result of the project, so there are no safety hazards.

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

There are no off-site sources of light or glare that will affect the project.

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

No light and glare are anticipated as a result of the project; therefore, no measures are proposed.

12. Recreation

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

Marymoor Park is King County's largest, oldest, and most popular park, with more than 3 million annual visitors. Among the recreational facilities available are various sports facilities (baseball, soccer, tennis, etc.), rock climbing, a 40-acre off-leash dog park, areas for outdoor movies and concerts, regional trails, picnicking areas, areas for flying remote control planes, and much more.

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

No, the project will not displace any existing recreational uses.

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

Due to park use constraints and to reduce impacts to recreation at the Channel Improvements site, construction will be limited to starting in August and is expected to extend through end of September for ground disturbing activities, with follow-up planting restoration extending through October.

Construction of the Rain Garden is not anticipated to affect recreational uses in the park.

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? If so, specifically describe.

There are four historic properties located in and adjacent to the project area that are eligible for listing in national, state, and/or local preservation registers. The Clise Mansion (45KI191), the Marymoor Dutch Farm Windmill (45KI192), and a pre-contact village site (45KI9) are all near, but not within the project area. These buildings and archaeological deposits are eligible for listing in local, state, and federal registers. The Maintenance Shop and Art Barn historical buildings adjacent to the project area are recorded as part of the King County Landmark Willowmoor Farm Historic District, which encompasses the south half of the project. The project will have no negative impacts on any of these eligible properties.

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.

Parks completed a Cultural Resources Assessment for the Marymoor Parks Stormwater Improvements Project (Roush et al. 2022). This assessment included background study of the project's natural and cultural setting, as well as methods and results of shovel probe survey that occurred across the project area. No significant cultural materials were observed. The archaeologists identified scattered historic debris within fill deposits in many of the shovel probes; however, the debris was not recorded as a site because the items are not in original context. The archaeologists did record a low, linear, convex-surface berm in the work area as site 45KI1627. The berm aligns with a historic road shown on a 1908 map of Willowmoor Farm and seen on 1936 aerial imagery. As described above, this portion of the project lies within the Willowmoor Farm Historic District boundary; however, the professionals recommended 45KI1627 as not eligible for listing in the National Register of Historic Places or other preservation register, and that the berm does not contribute to the Willowmoor Farm Historic District. Therefore, the project will have no negative impacts on any landmarks, features, or other evidence of Indian or historic use or occupation.

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.

Methods used to assess potential impacts to cultural and historic resources at or near the project area included research, communication, and field investigation. Prior to fieldwork, Parks' consultant reviewed the state's digital repository for architectural and archaeological resources and reports for information about archaeological sites, historic properties, and previous cultural surveys. Historical maps and aerials images were reviewed to understand the development history of the work area. Also prior to fieldwork, Parks informed the federally-recognized Muckleshoot Indian Tribe, the Snoqualmie Tribe, the Stillaguamish Tribe of Indians, the Suquamish Tribe, and the Tulalip Tribes, and the non-federally-recognized Duwamish Tribal Organization about the project and solicited information about the history of the project area, as well as invited tribal visits during field investigations. As reported on in Roush (2022), Parks conducted systematic shovel probe and pedestrian survey of all of the project work areas. The entire vertical and horizontal extent of the project areas were surveyed in 67 shovel probes excavated at 10 meter intervals. In addition to the shovel probes, Parks also ensured that ground disturbance related to critical areas testing, water monitoring well installation, and pilot infiltration testing activities were monitored by archaeologists.

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.

Negative impacts to historic properties are not anticipated as part of this project. No permits related to cultural resources are required ahead of construction. The project will require a Certificate of Appropriateness from the King County Landmarks Commission. Project ground disturbance in the Rain Garden Improvement portion of the work area, where a sub-surface obstruction was encountered and where a buried surface was identified, will be monitored during construction following King County Parks' standard Monitoring and Inadvertent Discovery Plan (MIDP) with provisions for discovery during both monitored and unmonitored construction.

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.

The site is accessible and located on NE Marymoor Way. Anticipated route would follow West Lake Sammamish Pkwy NE, and NE Marymoor Way.

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?

King County Metro serves the area near the project. The closest transit stop is located at Bear Creek Pkwy and 16th Ave NE, approximately 0.5 miles from the project site.

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

There will be no additional or eliminated parking spaces 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, the project will not require any new or improvements to existing roads, streets, pedestrian, bicycle, or state transportation facilities.

The east and west accesses to Parking Lot K will be restored after construction of the Channel Improvements are completed.

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

No, the project will not use water, rail, or air transportation.

h. 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 would not generate any new vehicular trips.

i. 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, the project will not interfere with, affect, or be affected by the movement of agricultural and forest products.

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

There are no transportation impacts as a result of the project, therefore no measures are proposed.

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.

The project will not result in the increased need for public services.

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

The project will not affect public services; therefore, no measures are proposed.

16. Utilities

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

There are existing water, power, and communication lines that run parallel to the west access to parking lot K at the Channel Improvements site and a water line that parallels the Rain Garden site.

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.

There are no new utilities proposed for the project. The existing water line, power and communications lines at the Channel Improvements will be temporary relocated during construction and then permanently re-installed to span the new culvert crossing in order to provide identical service post-construction.

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: DocuSigned by: 864B056FD2B34B5... **Date:** 11/29/2022

Name of Signee: Shazaad Jarrahian
Position/Agency: Capital Project Manager, King County Parks and Recreation Division