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Regulatory Program



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INTERIM APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in the Interim Approved Jurisdictional Determination Form User Manual.

SECTION I: BACKGROUND INFORMATION

A. COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (AJD): 7 February 2019

B. ORM NUMBER IN APPROPRIATE FORMAT (e.g., HQ-2015-00001-SMJ): NWS-2018-725

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: Washington

County/parish/borough: King

City: Kenmore

Center coordinates of site (lat/long in degree decimal format): Lat. 47.7765167, Long. -122.2636167.

Map(s)/diagram(s) of review area (including map identifying single point of entry (SPOE) watershed and/or potential jurisdictional areas where applicable) is/are: ☒ attached ☐ in report/map titled

☐ Other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with this action and are recorded on a different jurisdictional determination (JD) form. List JD form ID numbers (e.g., HQ-2015-00001-SMJ-1):

D. REVIEW PERFORMED FOR SITE EVALUATION:

☒ Office (Desk) Determination Only. Date: 31 January 2019.

☐ Office (Desk) and Field Determination. Office/Desk Dates: Field Date(s):

SECTION II: DATA SOURCES

Check all that were used to aid in the determination and attach data/maps to this AJD form and/or references/citations in the administrative record, as appropriate.

☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant. Title/Date: Project Drawings/June 2018.

☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.

☐ Data sheets/delineation report are sufficient for purposes of AJD form. Title/Date:

☐ Data sheets/delineation report are not sufficient for purposes of AJD form. Summarize rationale and include information on revised data sheets/delineation report that this AJD form has relied upon:

Revised Title/Date:

☐ Data sheets prepared by the Corps. Title/Date:

☐ Corps navigable waters study. Title/Date:

☒ CorpsMap ORM map layers. Title/Date:

☐ USGS Hydrologic Atlas. Title/Date:

☐ USGS, NHD, or WBD data/maps. Title/Date:

☐ USGS 8, 10 and/or 12 digit HUC maps. HUC number:

☒ USGS maps. Scale & quad name and date: Historical Topographic Explore; Seattle 1992; Seattle 1958; Edmond 1968.

☒ USDA NRCS Soil Survey. Citation: 30 January 2018.

☒ USFWS National Wetlands Inventory maps. Citation: 30 January 2018.

☐ State/Local wetland inventory maps. Citation:

☐ FEMA/FIRM maps. Citation:

☐ Photographs: ☐ Aerial. Citation: or ☐ Other. Citation:

☐ LiDAR data/maps. Citation:

☐ Previous JDs. File no. and date of JD letter:

☐ Applicable/supporting case law:

☐ Applicable/supporting scientific literature:

☐ Other information (please specify):

SECTION III: SUMMARY OF FINDINGS

Complete ORM "Aquatic Resource Upload Sheet" or Export and Print the Aquatic Resource Screen from ORM for All Waters and Features, Regardless of Jurisdictional Status – Required

A. RIVERS AND HARBORS ACT (RHA) SECTION 10 DETERMINATION OF JURISDICTION:

☐ "navigable waters of the U.S." within RHA jurisdiction (as defined by 33 CFR part 329) in the review area.

• Complete Table 1 - Required

NOTE: If the navigable water is not subject to the ebb and flow of the tide or included on the District's list of Section 10 navigable waters list, DO NOT USE THIS FORM TO MAKE THE DETERMINATION. The District must continue to follow the procedure outlined in 33 CFR part 329.14 to make a Section 10 RHA navigability determination.

B. CLEAN WATER ACT (CWA) SECTION 404 DETERMINATION OF JURISDICTION: "waters of the U.S." within CWA jurisdiction (as defined by 33 CFR part 328.3) in the review area. **Check all that apply.**

☐ (a)(1): All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide. (Traditional Navigable Waters (TNWs))

• Complete Table 1 - Required

☐ This AJD includes a case-specific (a)(1) TNW (Section 404 navigable-in-fact) determination on a water that has not previously been designated as such. Documentation required for this case-specific (a)(1) TNW determination is attached.

☐ (a)(2): All interstate waters, including interstate wetlands.

• Complete Table 2 - Required

☐ (a)(3): The territorial seas.

• Complete Table 3 - Required

☐ (a)(4): All impoundments of waters otherwise identified as waters of the U.S. under 33 CFR part 328.3.

• Complete Table 4 - Required

☒ (a)(5): All tributaries, as defined in 33 CFR part 328.3, of waters identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.

• Complete Table 5 - Required

☒ (a)(6): All waters adjacent to a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3, including wetlands, ponds, lakes, oxbows, impoundments, and similar waters.

• Complete Table 6 - Required

☐ Bordering/Contiguous.

Neighboring:

☐ (c)(2)(i): All waters located within 100 feet of the ordinary high water mark (OHWM) of a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3.

☐ (c)(2)(ii): All waters located within the 100-year floodplain of a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3 and not more than 1,500 feet of the OHWM of such water.

☐ (c)(2)(iii): All waters located within 1,500 feet of the high tide line of a water identified in paragraphs (a)(1) or (a)(3) of 33 CFR part 328.3, and all waters within 1,500 feet of the OHWM of the Great Lakes.

☐ (a)(7): All waters identified in 33 CFR 328.3(a)(7)(i)-(v) where they are determined, on a case-specific basis, to have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.

• Complete Table 7 for the significant nexus determination. Attach a map delineating the SPOE watershed boundary with (a)(7) waters identified in the similarly situated analysis. - Required

☐ Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.

☐ (a)(8): All waters located within the 100-year floodplain of a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3 not covered by (c)(2)(ii) above and all waters located within 4,000 feet of the high tide line or OHWM of a water identified in paragraphs (a)(1)-(a)(5) of 33 CFR part 328.3 where they are determined on a case-specific basis to have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.

• Complete Table 8 for the significant nexus determination. Attach a map delineating the SPOE watershed boundary with (a)(8) waters identified in the similarly situated analysis. - Required

☐ Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.

C. NON-WATERS OF THE U.S. FINDINGS:

Check all that apply.

- ☐ The review area is comprised entirely of dry land.
- ☐ Potential-(a)(7) Waters: Waters that DO NOT have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.
- **Complete Table 9 and attach a map delineating the SPOE watershed boundary with potential (a)(7) waters identified in the similarly situated analysis. - Required**
- ☐ Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.
- ☒ Potential-(a)(8) Waters: Waters that DO NOT have a significant nexus to a water identified in paragraphs (a)(1)-(a)(3) of 33 CFR part 328.3.
- **Complete Table 9 and attach a map delineating the SPOE watershed boundary with potential (a)(8) waters identified in the similarly situated analysis. - Required**
- ☐ Includes water(s) that are geographically and physically adjacent per (a)(6), but are being used for established, normal farming, silviculture, and ranching activities (33 USC Section 1344(f)(1)) and therefore are not adjacent and require a case-specific significant nexus determination.
- ☒ Excluded Waters (Non-Waters of U.S.), even where they otherwise meet the terms of paragraphs (a)(4)-(a)(8):
- **Complete Table 10 - Required**
- ☐ (b)(1): Waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of the CWA.
- ☐ (b)(2): Prior converted cropland.
- ☐ (b)(3)(i): Ditches with ephemeral flow that are not a relocated tributary or excavated in a tributary.
- ☒ (b)(3)(ii): Ditches with intermittent flow that are not a relocated tributary, excavated in a tributary, or drain wetlands.
- ☐ (b)(3)(iii): Ditches that do not flow, either directly or through another water, into a water identified in paragraphs (a)(1)-(a)(3).
- ☐ (b)(4)(i): Artificially irrigated areas that would revert to dry land should application of water to that area cease.
- ☐ (b)(4)(ii): Artificial, constructed lakes and ponds created in dry land such as farm and stock watering ponds, irrigation ponds, settling basins, fields flooded for rice growing, log cleaning ponds, or cooling ponds.
- ☐ (b)(4)(iii): Artificial reflecting pools or swimming pools created in dry land.¹
- ☐ (b)(4)(iv): Small ornamental waters created in dry land.¹
- ☐ (b)(4)(v): Water-filled depressions created in dry land incidental to mining or construction activity, including pits excavated for obtaining fill, sand, or gravel that fill with water.
- ☐ (b)(4)(vi): Erosional features, including gullies, rills, and other ephemeral features that do not meet the definition of tributary, non-wetland swales, and lawfully constructed grassed waterways.¹
- ☐ (b)(4)(vii): Puddles.¹
- ☐ (b)(5): Groundwater, including groundwater drained through subsurface drainage systems.¹
- ☐ (b)(6): Stormwater control features constructed to convey, treat, or store stormwater that are created in dry land.¹
- ☐ (b)(7): Wastewater recycling structures created in dry land; detention and retention basins built for wastewater recycling; groundwater recharge basins; percolation ponds built for wastewater recycling; and water distributary structures built for wastewater recycling.
- ☐ Other non-jurisdictional waters/features within review area that do not meet the definitions in 33 CFR 328.3 of (a)(1)-(a)(8) waters and are not excluded waters identified in (b)(1)-(b)(7).
- **Complete Table 11 - Required.**

D. ADDITIONAL COMMENTS TO SUPPORT AJD:

¹ In many cases these excluded features will not be specifically identified on the AJD form, unless specifically requested. Corps Districts may, in case-by-case instances, choose to identify some or all of these features within the review area.

Jurisdictional Waters of the U.S.

Default field entry is "N/A". Delete "N/A" and fill out all fields in the table where applicable for waters/features present in the review area.

Table 1. (a)(1) Traditional Navigable Waters

(a)(1) Waters Name	(a)(1) Criteria	Rationale to Support (a)(1) Designation Include High Tide Line or Ordinary High Water Mark indicators, when applicable.
N/A	Choose an item.	N/A

Table 2. (a)(2) Interstate Waters

(a)(2) Waters Name	Rationale to Support (a)(2) Designation
N/A	N/A

Table 3. (a)(3) Territorial Seas

(a)(3) Waters Name	Rationale to Support (a)(3) Designation
N/A	N/A

Table 4. (a)(4) Impoundments

(a)(4) Waters Name	Rationale to Support (a)(4) Designation
N/A	N/A
N/A	N/A

Table 5. (a)(5) Tributaries

(a)(5) Waters Name	Flow Regime	(a)(1)-(a)(3) Water Name to which this (a)(5) Tributary Flows	Tributary Breaks	Rationale for (a)(5) Designation and Additional Discussion. Identify flowpath to (a)(1)-(a)(3) water or attach map identifying the flowpath; explain any breaks or flow through excluded/non-jurisdictional features, etc.
Blueberry Creek	Perennial	Sammamish River	No	See attached map flowpath map
N/A	Choose an item.	N/A	Choose an item.	N/A
N/A	Choose an item.	N/A	Choose an item.	N/A
N/A	Choose an item.	N/A	Choose an item.	N/A

Table 6. (a)(6) Adjacent Waters

(a)(6) Waters Name	(a)(1)-(a)(5) Water Name to which this Water is Adjacent	Rationale for (a)(6) Designation and Additional Discussion. Identify the type of water and how the limits of jurisdiction were established (e.g., wetland, 87 Manual/Regional Supplement); explain how the 100-year floodplain and/or the distance threshold was determined; whether this water extends beyond a threshold; explain if the water is part of a mosaic, etc.
Wetland D	Blueberry Creek	Bordering
Wetland H	Blueberry Creek	Bordering
Wetland I	Blueberry Creek	Bordering
Wetland J	Blueberry Creek	Bordering

Table 7. (a)(7) Waters

SPOE Name	(a)(7) Waters Name	(a)(1)-(a)(3) Water Name to which this Water has a Significant Nexus	Significant Nexus Determination Identify SPOE watershed; discuss whether any similarly situated waters were present and aggregated for SND; discuss data, provide analysis, and summarize how the waters have more than speculative or insubstantial effect on the physical, chemical, or biological integrity of the (a)(1)-(a)(3) water, etc.
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Table 8. (a)(8) Waters

SPOE Name	(a)(8) Waters Name	(a)(1)-(a)(3) Water Name to which this Water has a Significant Nexus	Significant Nexus Determination Identify SPOE watershed; explain how 100-yr floodplain and/or the distance threshold was determined; discuss whether waters were determined to be similarly situated to subject water and aggregated for SND; discuss data, provide analysis, and then summarize how the waters have more than speculative or insubstantial effect the on the physical, chemical, or biological integrity of the (a)(1)-(a)(3) water, etc.
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Non-Jurisdictional Waters

Default field entry is "N/A". Delete "N/A" and fill out all fields in the table where applicable for waters/features present in the review area.

Table 9. Non-Waters/No Significant Nexus

SPOE Name	Non-(a)(7)/(a)(8) Waters Name	(a)(1)-(a)(3) Water Name to which this Water DOES NOT have a Significant Nexus	Basis for Determination that the Functions DO NOT Contribute Significantly to the Chemical, Physical, or Biological Integrity of the (a)(1)-(a)(3) Water.
N/A	Wetland A	Lake Washington/Sammamish River	Identify SPOE watershed; explain how 100-yr floodplain and/or the distance threshold was determined; discuss whether waters were determined to be similarly situated to the subject water; discuss data, provide analysis, and summarize how the waters did not have more than a speculative or insubstantial effect on the physical, chemical, or biological integrity of the (a)(1)-(a)(3) water.
N/A	N/A	N/A	See MFR in the administrative record for this project for Similarly Situated Waters and Significant Nexus Determination dated 7 February 2019 for rationale to support a finding of no significant nexus.
N/A	N/A	N/A	N/A

Table 10. Non-Waters/Excluded Waters and Features

Paragraph (b) Excluded Feature/Water Name	Rationale for Paragraph (b) Excluded Feature/Water and Additional Discussion.
Ditch	(b)(3)(ii) Ditch has intermittent flow and is not a relocated tributary, excavated in a tributary, nor drains a wetland. Utilized historical topographical maps from USGS, Seattle 1992, Seattle 1958, Edmond 1968
N/A	N/A

Table 11. Non-Waters/Other

Other Non-Waters of U.S. Feature/Water Name	Rationale for Non-Waters of U.S. Feature/Water and Additional Discussion.
N/A	N/A

CENWS-ODR

Reference: NWS-2018-725; Kenmore, City of (68th Ave NE Improvements)

MEMORANDUM FOR RECORD

SUBJECT: **Similarly Situated Waters and Significant Nexus Determination**

The waters specified in table 9 require a determination whether they are similarly situated. Under this step, the agencies apply factors in the determination of when waters evaluated under paragraph (a)(8) of the 2015 Clean Water Rule should be considered either individually or in combination for purposes of a significant nexus analysis. A determination of “similarly situated” requires an evaluation of whether a group of waters in the region that meet the distance thresholds set out under paragraph (a)(8) can reasonably be expected to function together in their effect on the chemical, physical, or biological integrity of downstream traditional navigable waters, interstate waters, or the territorial seas. Similarly situated waters can be identified as sufficiently close together for purposes of this paragraph of the regulation when they are within a contiguous area of land with relatively homogeneous soils, vegetation, and landform (e.g., plain, mountain, valley, etc.).

A water has a significant nexus when any single function or combination of functions performed by the water, alone or together with similarly situated waters in the region, contributes significantly to the chemical, physical, or biological integrity of the nearest water identified in paragraphs (a)(1) through (3).

1. Subject Wetland

- a. Soils: Based on the USDA Soil Survey Data, soils at and immediately around the project area of the Wetland A are mapped as Everett very sandy loam 8 to 15 percent (somewhat excessively drained) and Urban land with non-hydric soil inclusions.
- b. Vegetation: Wetland A 0.06 of an acre (2,084 square feet) category IV is a depressional Palustrine emergent (PEM) wetland.
- c. Landform: Wetland A is located in irregular plains landform. The wetland flows into a drainage channel that flows into an (a)(1) water, the Sammamish River, which is located in a flat plains.
- d. Proximity: Wetland A is 2,539 horizontal feet to the nearest tributary, Swamp Creek.

2. Similarly Situated Characteristics

- a. NWS-2018-725 Single Point of Entry (SPOE) basin is delineated in the attached figure. The SPOE is located in the Mud Creek basin of Kenmore, Washington, it is part of the greater Lake Washington - Cedar River drainage, encompassing the land area in which water drains to Lake Sammamish, Bear Creek, Sammamish River and out into Lake Washington.

- b. Similarly situated waters would be PEM, and seasonally-flooded wetlands found elevated above the 100-year floodplain in an irregular plain landforms between 1,500 and 4,000 horizontal feet of the Ordinary High Water Mark (OHWM) of a (a)(5) tributary that drains to the Sammamish River and are located in areas that have been identified of having excessively drained soils, similar land forms of irregular plains and land coverage.

3. Similarly Situated Waters Identified

Using the NWI Maps, and ORM maps, only the subject Wetland A and Wetland 6 are similarly situated wetlands totaling approximately 0.35 of an acre were identified. These waters are identified in the attached figure.

1. Wetland 6 is 0.29 acre Fresh Water Emergent (PEM1C) that shares all the same landform, vegetation, and soil drainage characteristics as the subject Wetland A, and as it is approximately 1,913 horizontal feet away from unnamed tributary to Swamp Creek.

Five wetlands (wetlands 1-5) were excluded because they were located outside the range of 1,500 and 4,000 horizontal feet of the Ordinary High Water Mark (OHWM) of a (a)(5) tributary that drains to the Sammamish River. These waters are identified in the attached figures.

1. Wetland 1 is 1.45 acre Fresh Water Forested/ Shrub (PSCC) that shares all the same landform, vegetation, and soil drainage characteristics as the subject Wetland A, and as it is approximately 240 horizontal feet away from unnamed tributary to Scriber Creek.
2. Wetland 2 is 1.32 acre Fresh Water Forested/ Shrub (PFOC) that shares all the same landform, vegetation, and soil drainage characteristics as the subject Wetland A, and as it is approximately 474 horizontal feet away from Scriber Creek.
3. Wetland 3 is 1.01 acre Fresh Water Forested/ Shrub (PFOC) that shares all the same landform, vegetation, and soil drainage characteristics as the subject Wetland A, and as it is approximately 830 horizontal feet away from Swamp Creek.
4. Wetland 4 is 0.67 acre Fresh Water Forested/ Shrub (PSCC) that shares all the same landform, vegetation, and soil drainage characteristics as the subject Wetland A, and as it is approximately 791 horizontal feet away from unnamed tributary to Swamp Creek.
5. Wetland 5 is 1.63 acre Fresh Water Emergent (PEM1C) that shares all the same landform, vegetation, and soil drainage characteristics as the subject Wetland A, and as it is approximately 787 horizontal feet away from unnamed tributary to Swamp Creek.

Other wetlands in the SPOE basin were excluded because they were not situated within the same land cover, landform class, and soil drainage class.

CENWS-ODR

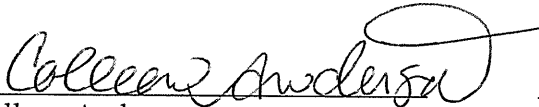
SUBJECT: NWS-2018-725; Kenmore, City of (68th Ave NE Improvements)

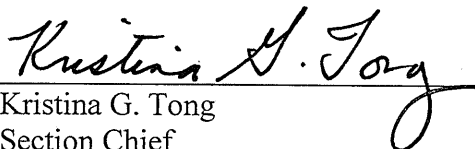
4. Significant Nexus Determination

The subject water either alone or in combination with other similarly situated waters in the region, do not significantly affect the chemical, physical, or biological integrity of Lake Washington or the Sammamish River, nearest (a)(1) water based on the discussion below:

After analysis of the information from topographic maps, National Hydrography data (ERI & USGS), the National Flood Hazard data and considering the very small wetland area (only 0.35 of acre). Wetland A and Wetland 6, do not provide a significant contribution to flow, sediment and toxin trapping, nutrient recycling, retention and attenuation of flood waters, export of organic matter, or export of food resources at a level that would significantly affect the downstream (a)(1) water.

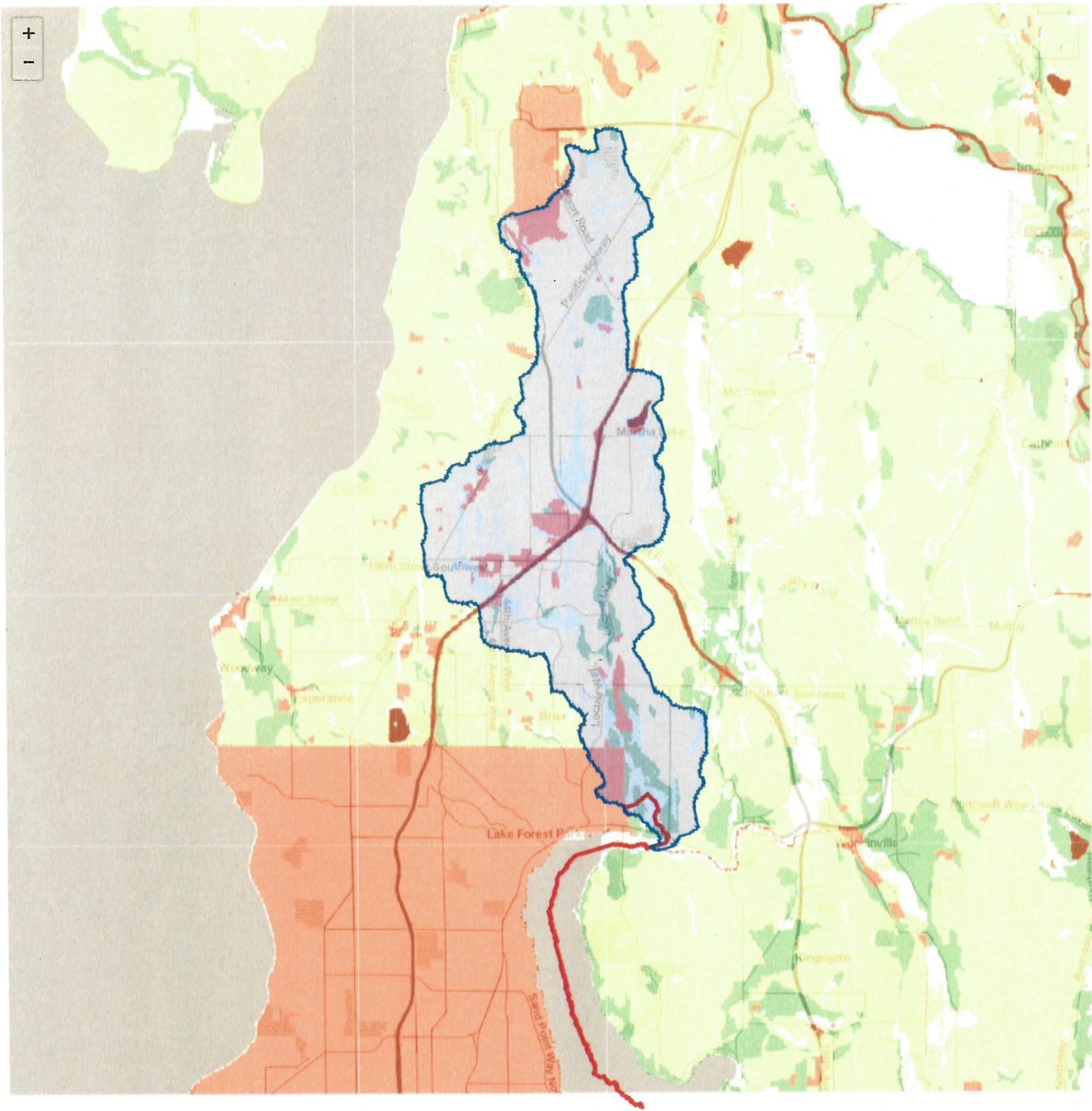
5. Conclusion: The effects are less than speculative or insubstantial. Because there is not a significant nexus between Wetland A and the nearest TNW, Wetland A is not a water of the U.S.

 2/7/19
Colleen Anderson
Project Manager Date

 2/7/19
Kristina G. Tong
Section Chief Date

Attachments:

SPOE Map
National Wetland Inventory Map
Soil Survey
Flow Path
USGS Topographic Map
Review Area Map



Legend

- Well Drained
- Moderately Drained
- Poorly Drained
- N/A or Unknown

2 km
1 mi

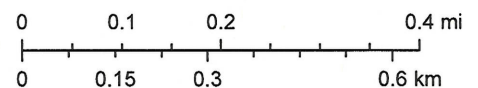
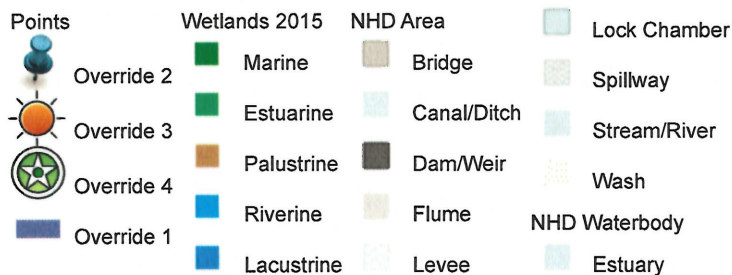
[Changelog](#) | [Feedback](#)

Wetland 1 & 2



January 11, 2019

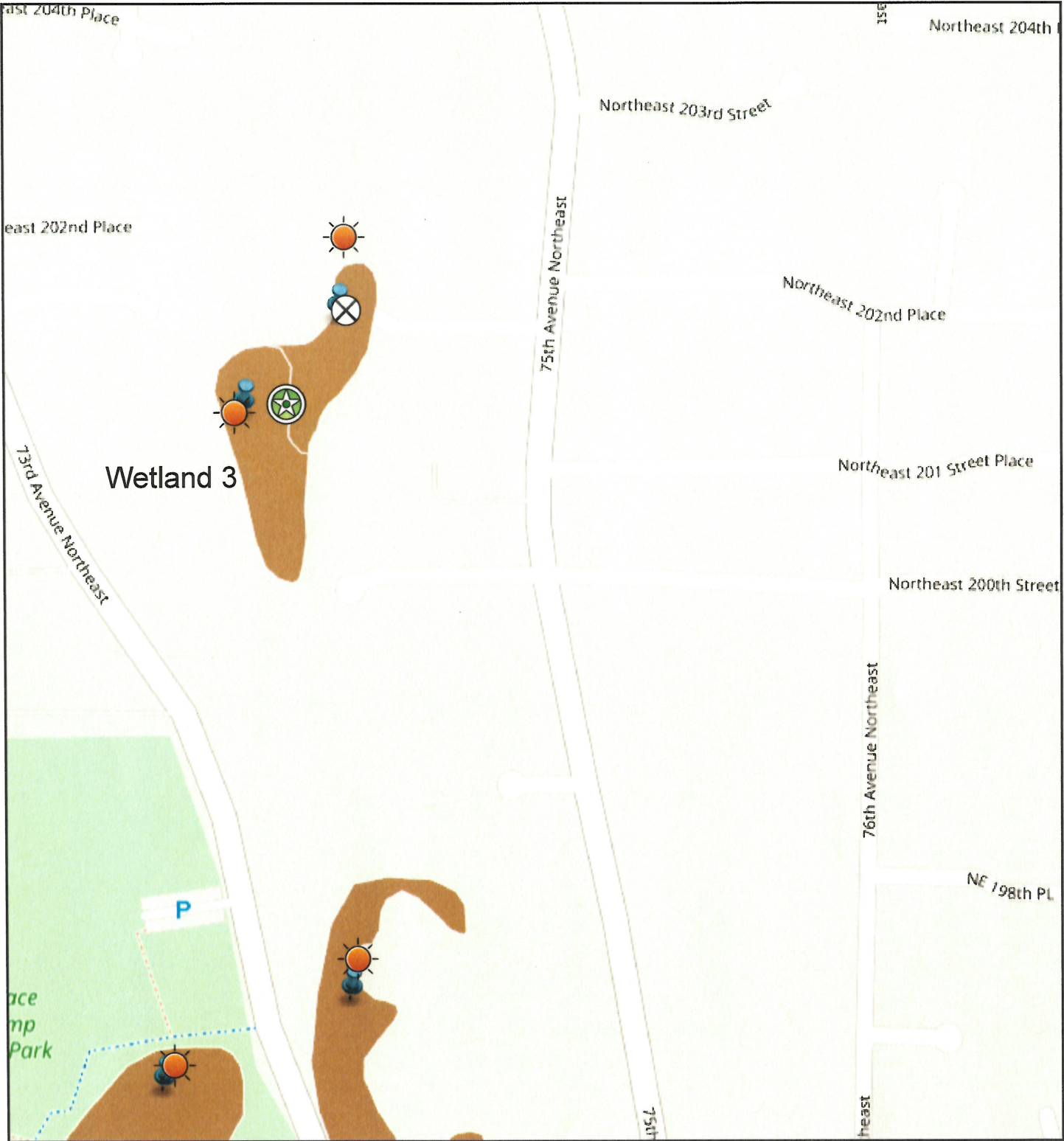
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TNM – National Hydrography Dataset. Data Refreshed August, 2018.,
Source: USGS, EPA

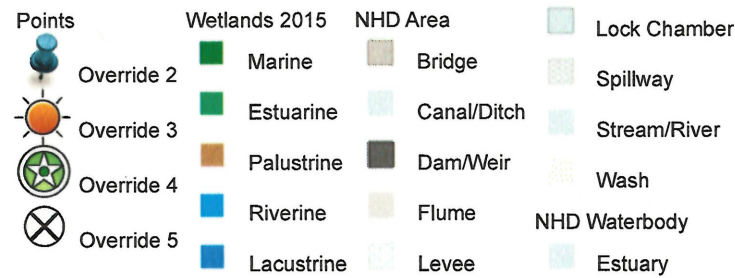
Clean Waters Rule

Wetland 3



January 11, 2019

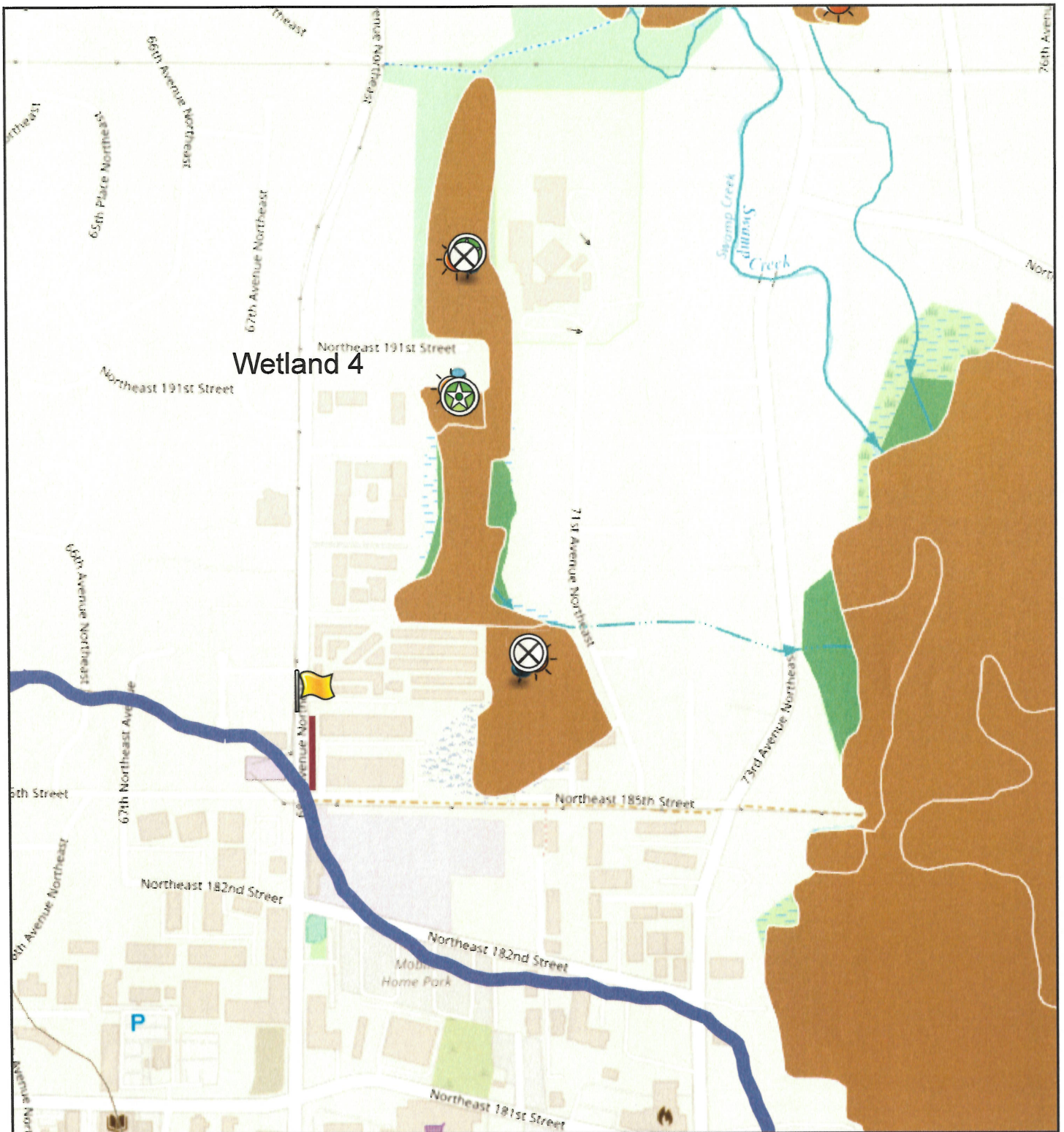
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Source: USGS, EPA

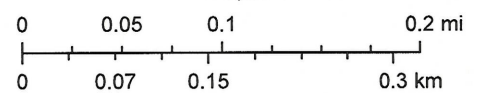
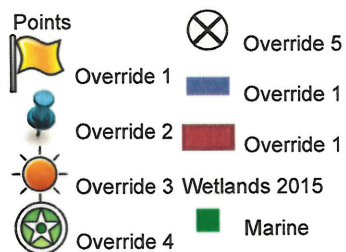
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Wetland 4



January 11, 2019

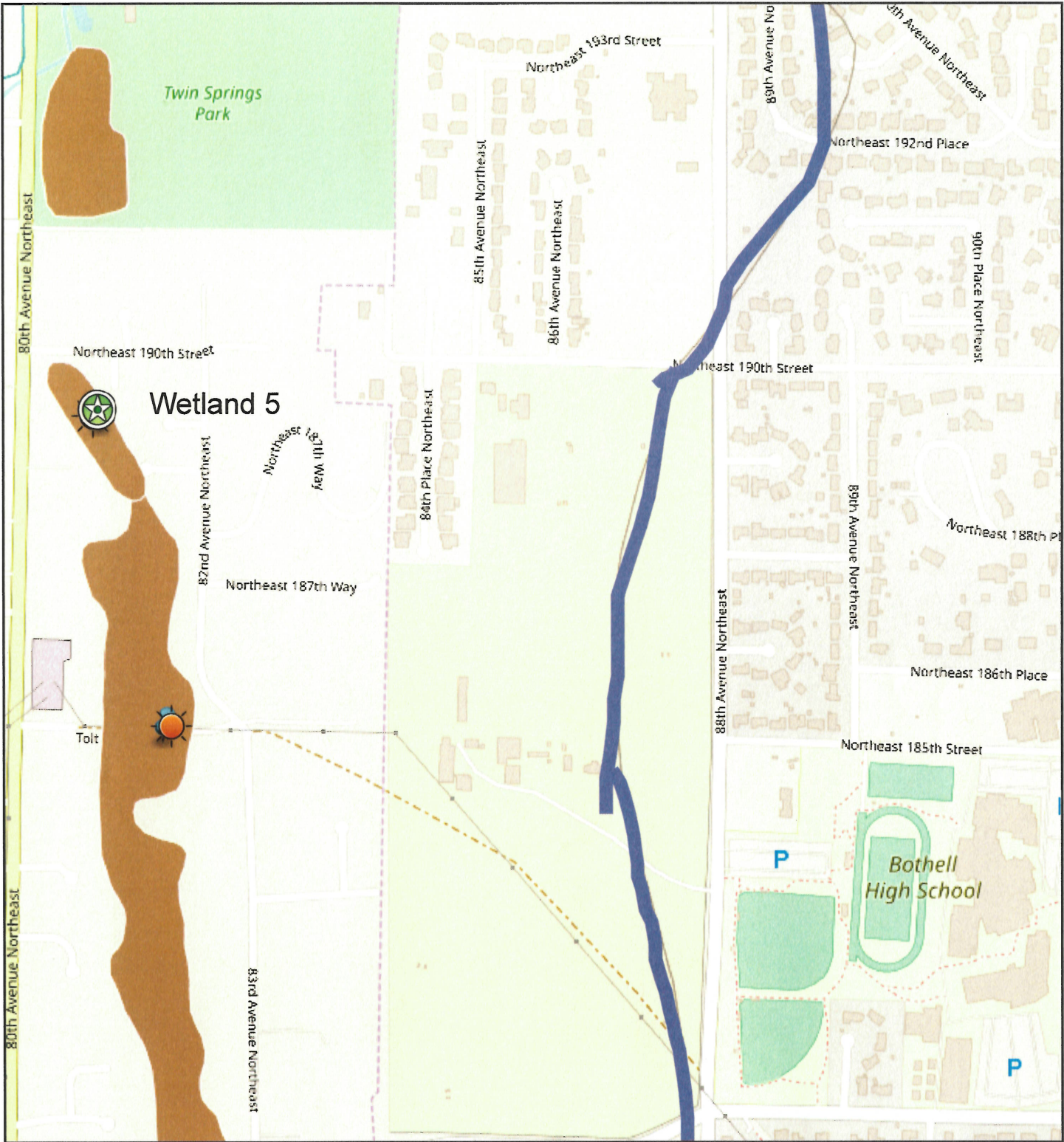
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Source: USGS, EPA

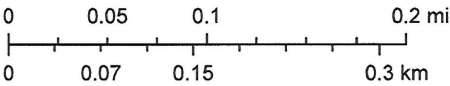
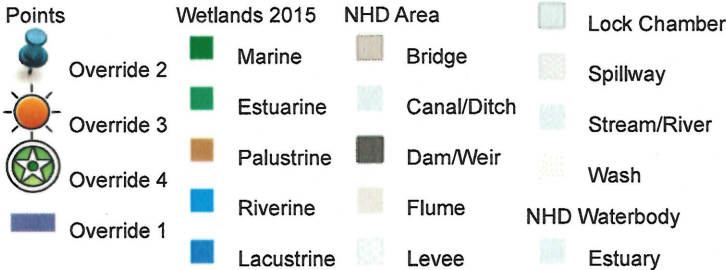
Clean Waters Rule

Wetland 5



January 11, 2019

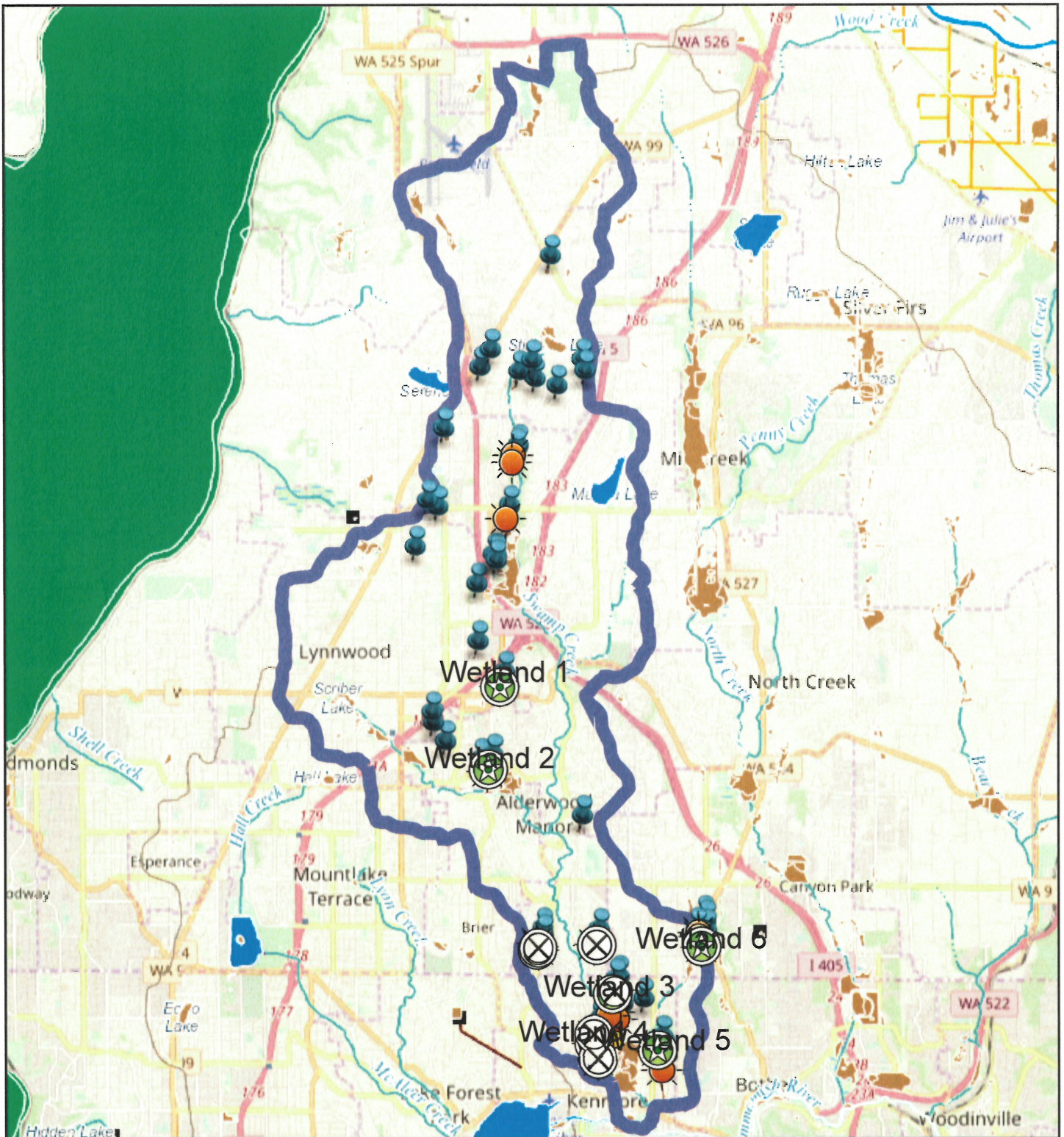
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Source: USGS, EPA

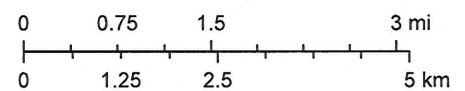
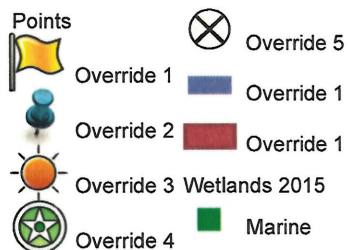
Clean Waters Rule

Wetlands/ SPOE



January 11, 2019

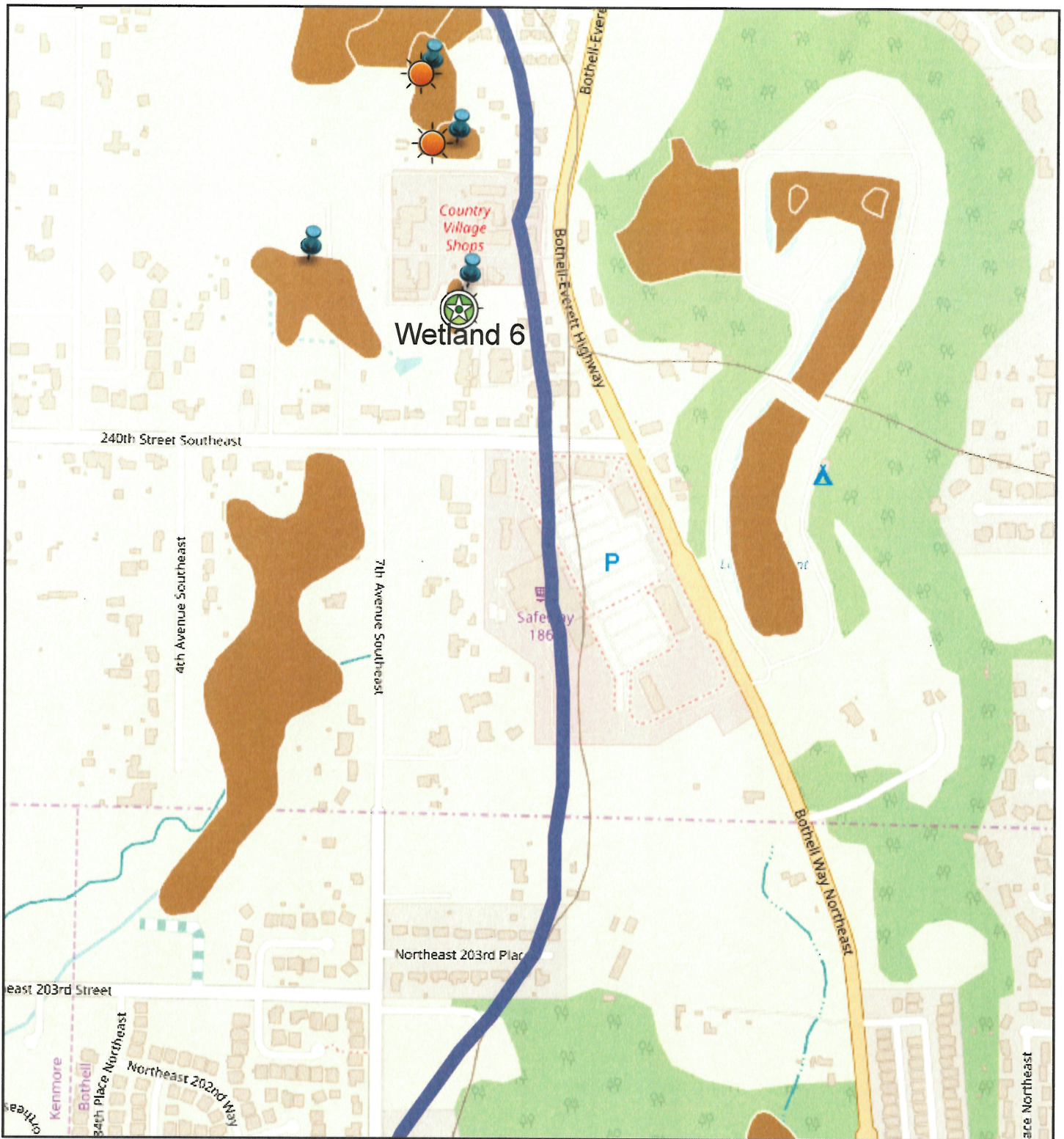
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Source: USGS, EPA

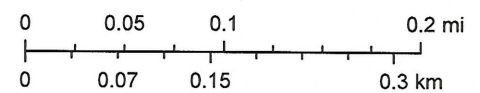
Clean Waters Rule

Wetland 6



January 11, 2019

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 TNM - National Hydrography Dataset. Data Refreshed August, 2018.,
 Source: USGS, EPA

Clean Waters Rule



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Area of Interest (AOI)

Soil Map

Soil Data Explorer

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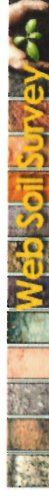
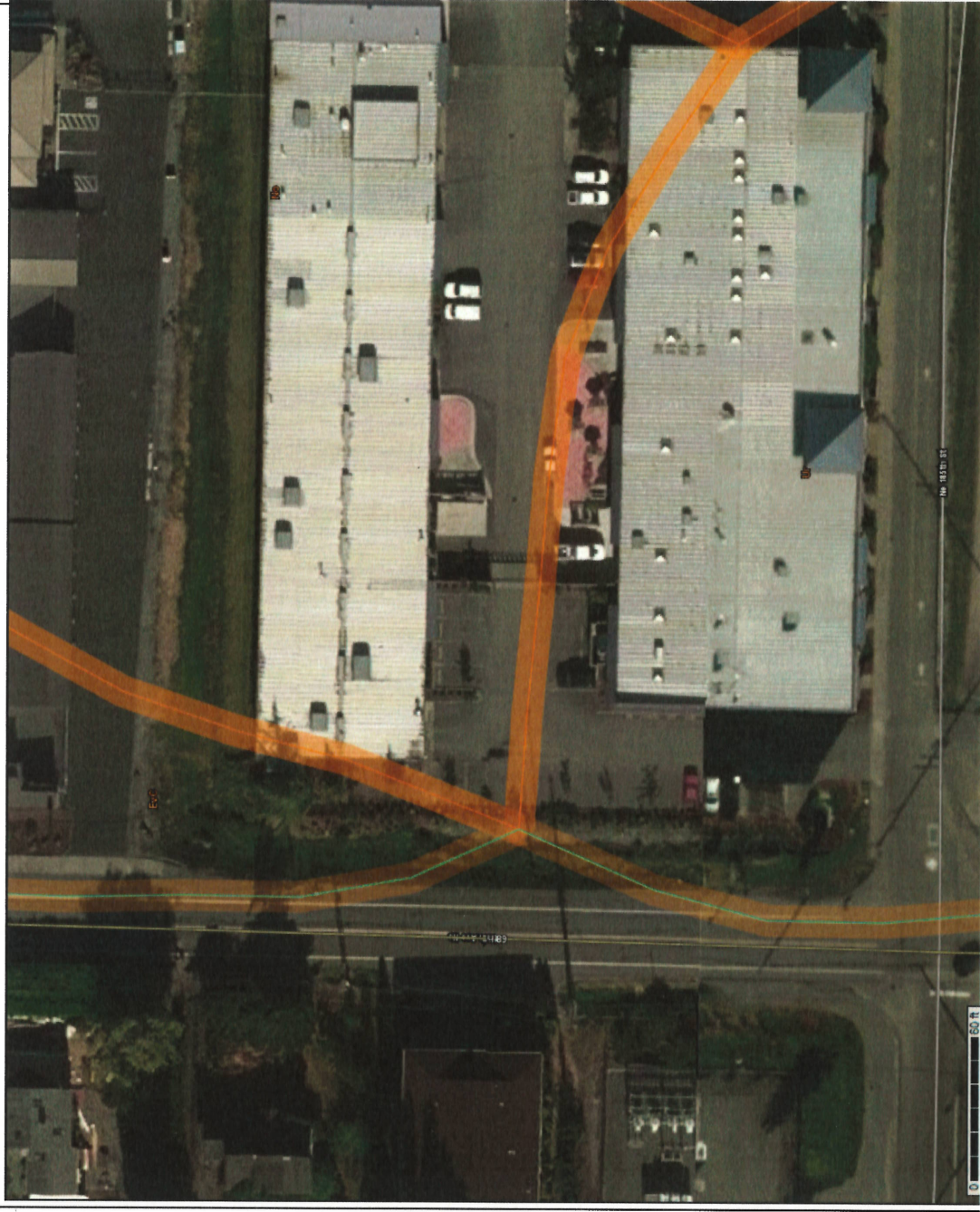
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Map Unit Legend

Soil Map

Map navigation tools: [Home](#), [Back](#), [Forward](#), [Print](#), [Scale](#) (not to scale), [Legend](#), [Layers](#), [Full Screen](#)



A A A

King County Area, Washington

Ur—Urban land

Map Unit Composition

Urban land: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Urban Land

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8

Hydric soil rating: No

Data Source Information

Soil Survey Area: King County Area, Washington

Survey Area Data: Version 14, Sep 10, 2018

King County Area, Washington

EvC—Everett very gravelly sandy loam, 8 to 15 percent slopes

Map Unit Setting

National map unit symbol: 2t62b

Elevation: 30 to 900 feet

Mean annual precipitation: 35 to 91 inches

Mean annual air temperature: 48 to 52 degrees F

Frost-free period: 180 to 240 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Everett and similar soils: 80 percent

Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Everett

Setting

Landform: Kames, eskers, moraines

Landform position (two-dimensional): Shoulder, footslope

Landform position (three-dimensional): Crest, base slope

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Sandy and gravelly glacial outwash

Typical profile

Oi - 0 to 1 inches: slightly decomposed plant material

A - 1 to 3 inches: very gravelly sandy loam

Bw - 3 to 24 inches: very gravelly sandy loam

C1 - 24 to 35 inches: very gravelly loamy sand

C2 - 35 to 60 inches: extremely cobbly coarse sand

Properties and qualities

Slope: 8 to 15 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Somewhat excessively drained

Capacity of the most limiting layer to transmit water (Ksat): High
(1.98 to 5.95 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water storage in profile: Low (about 3.2 inches)

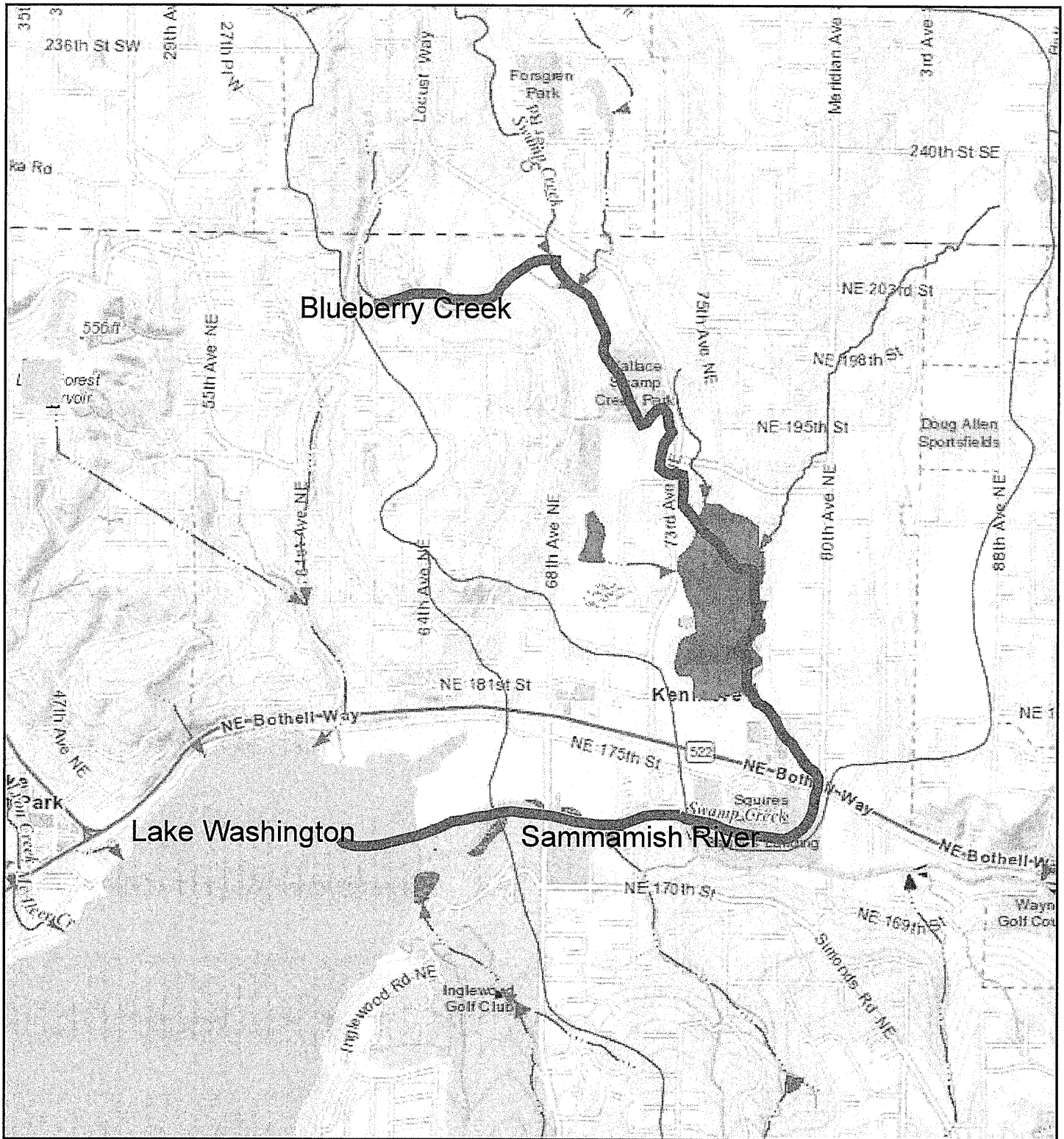
Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4s

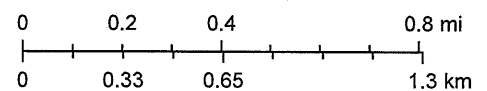
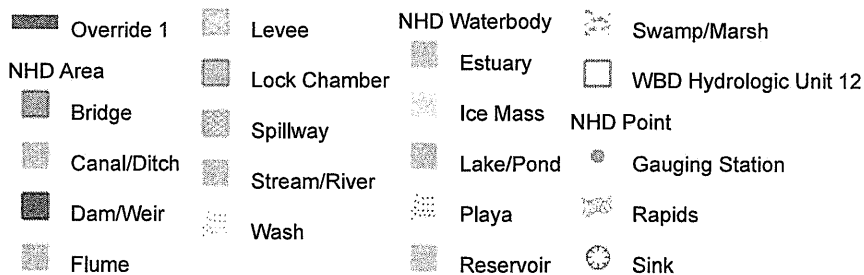
Hydrologic Soil Group: A

Blueberry Creek flowpath



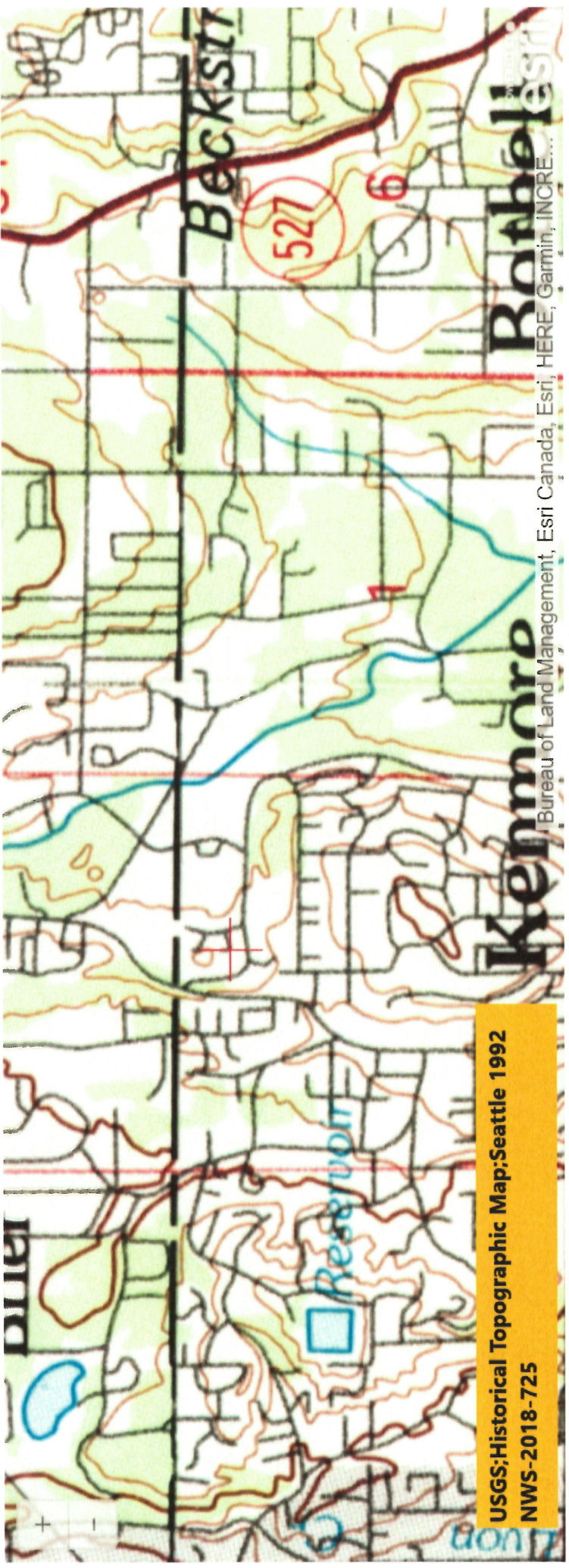
January 30, 2019

1:24,319



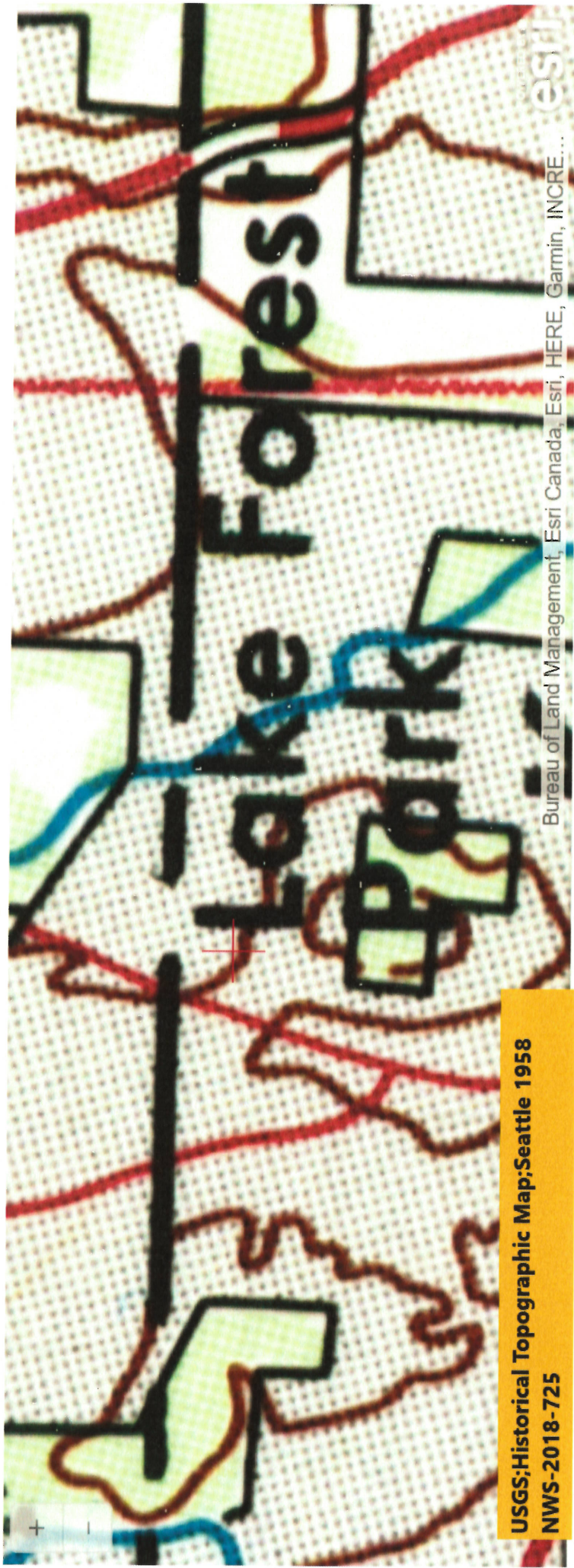
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community, USGS TNM - National Hydrography Dataset. Data Refreshed January, 2019., Source: USGS, EPA

Clean Waters Rule

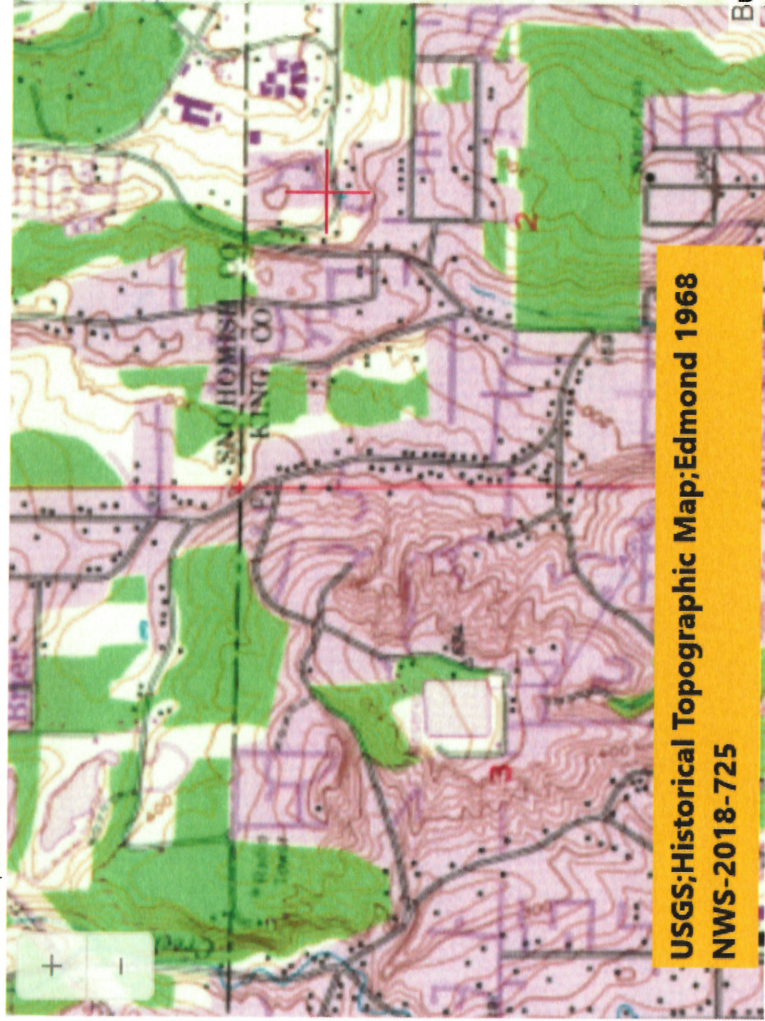


USGS:Historical Topographic Map:Seattle 1992
NWS-2018-725

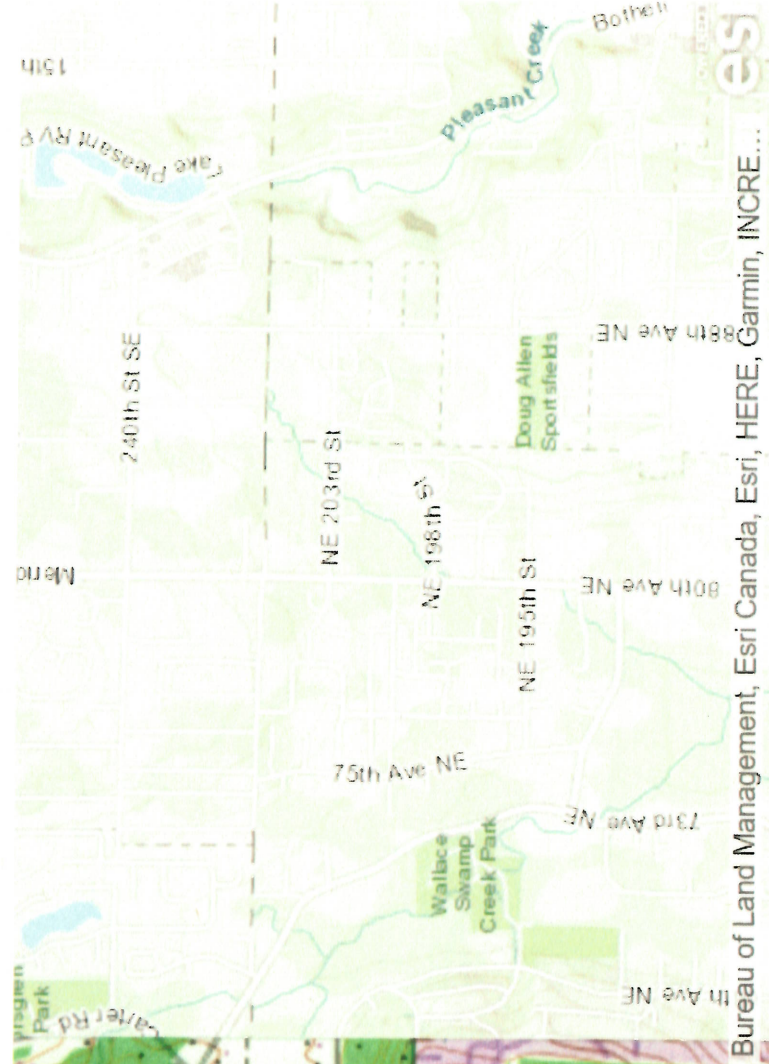
Kenmore
Beckstrom
Reservoir
Bureau of Land Management, Esri Canada, Esri, HERE, Garmin, INCRE...

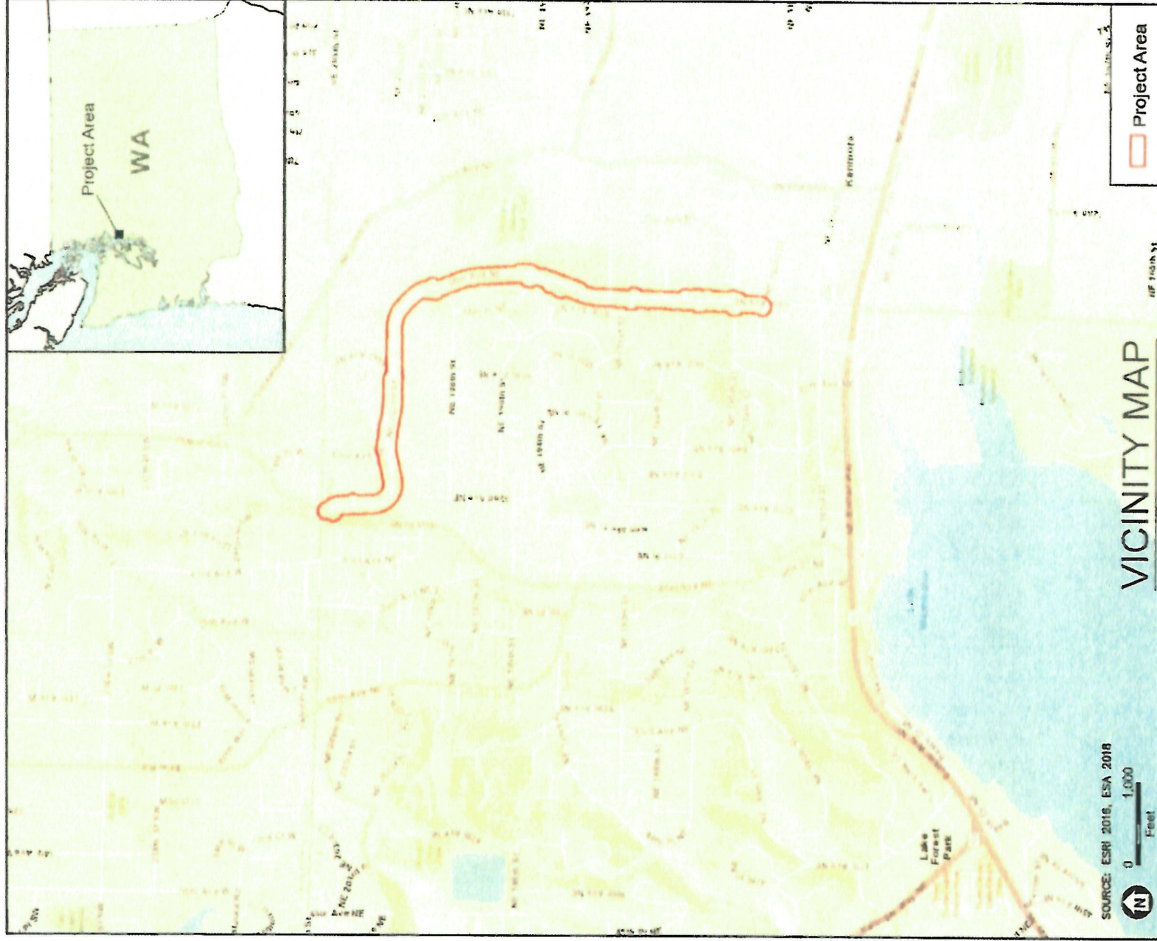


Historical Map Scales



Historical Map Scales





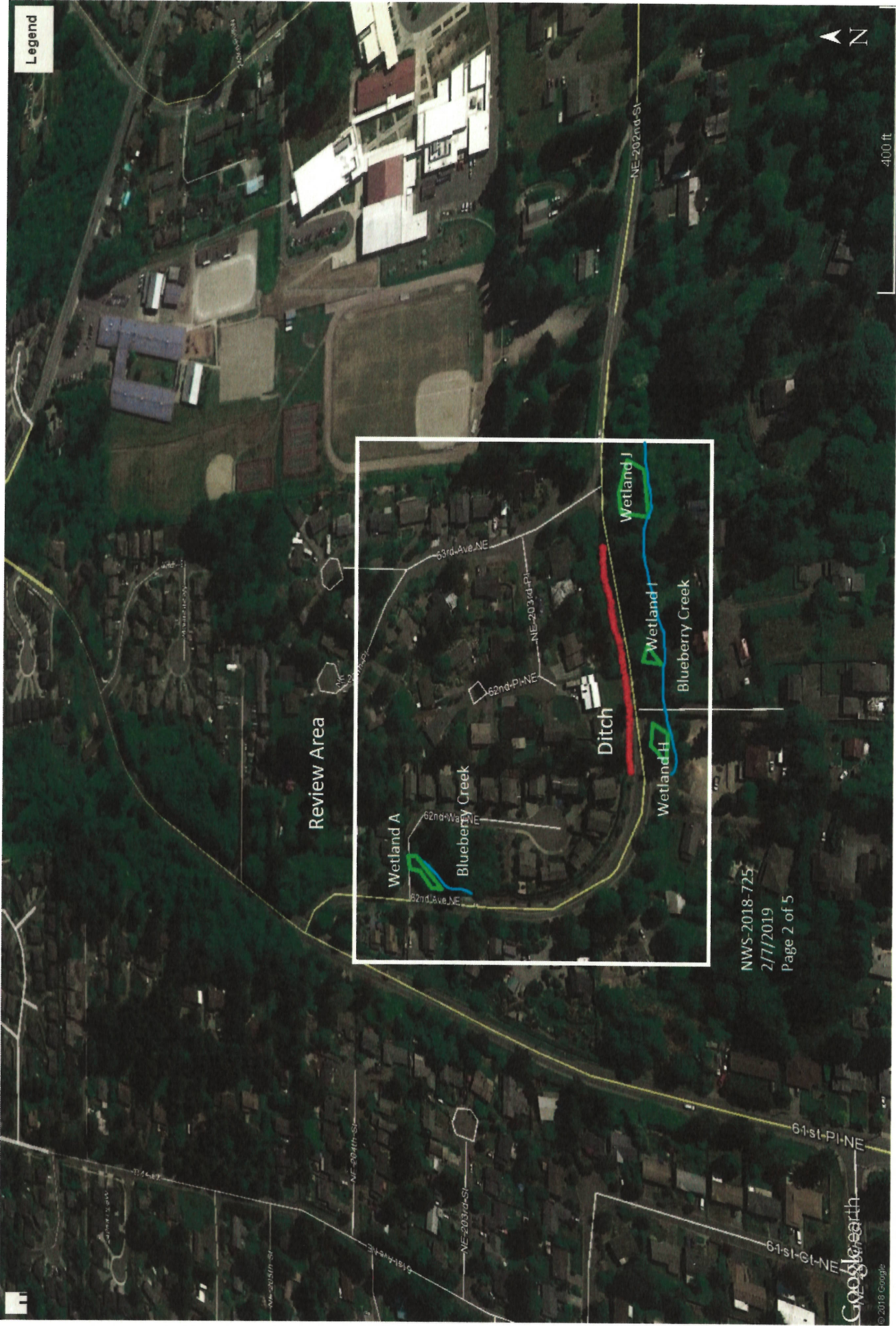
PROPOSED PROJECT: City of Kenmore 68th Avenue NE Pedestrian and Bicycle Improvements Project

APPLICANT: City of Kenmore
REFERENCE: TBR **NWS-2018-725**

LOCATION ADDRESS: 68th Ave NE and NE 202nd Street
IN: The City of Kenmore
COUNTY: King **STATE:** WA

LAT/LONG:
Northern Terminus: 47° 46' 35.46" N, 122° 15' 49.02" W
Southern Terminus: 47° 45' 41.35" N, 122° 14' 58.46" W

NWS-2018-725
2/7/2019
Page 1 of 5



Legend



400 ft

Review Area

Wetland A

Blueberry Creek

Ditch

Wetland H

Blueberry Creek

Wetland I

Wetland J

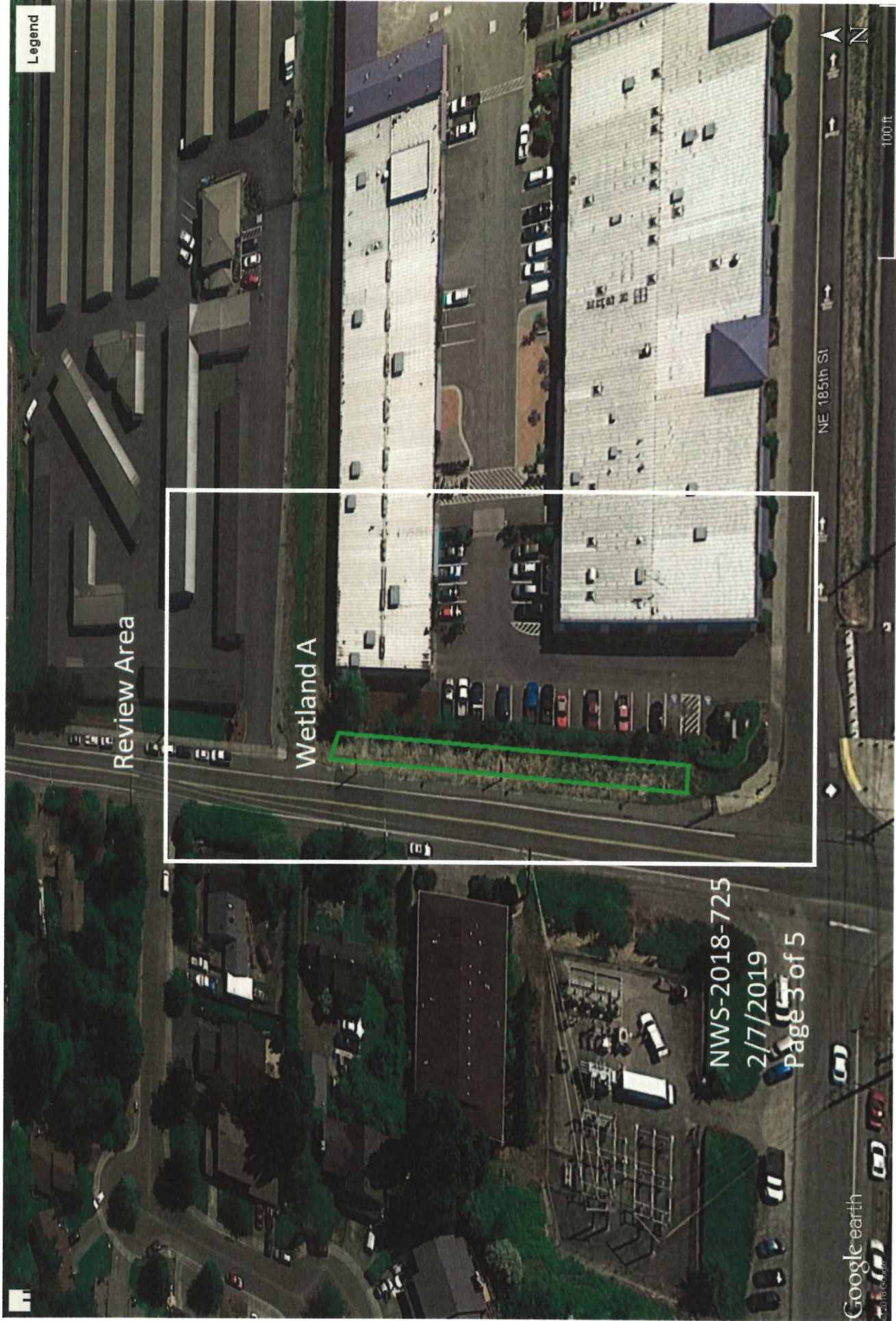
NWS-2018-725

2/7/2019

Page 2 of 5

Google Earth

© 2018 Google



Legend

Review Area

Wetland A

NE 185th St

100 ft

NWS-2018-725
2/7/2019
page 3 of 5

Google earth

2021-11-10

APPROXIMATE EDGE OF POTENTIALLY
JURISDICTIONAL DITCH

NE 202ND ST

WETLAND J
OUTLET TO
STREAM

BLUEBERRY
CREEK

WETLAND I

WETLAND H

NE 202ND ST AT 63RD AVE NE N 0 25 50
DETAIL PLAN VIEW Feet

EXISTING CONDITIONS - DITCH

PROPOSED PROJECT: City of Kenmore 68th
Avenue NE Pedestrian and Bicycle Improvements
Project

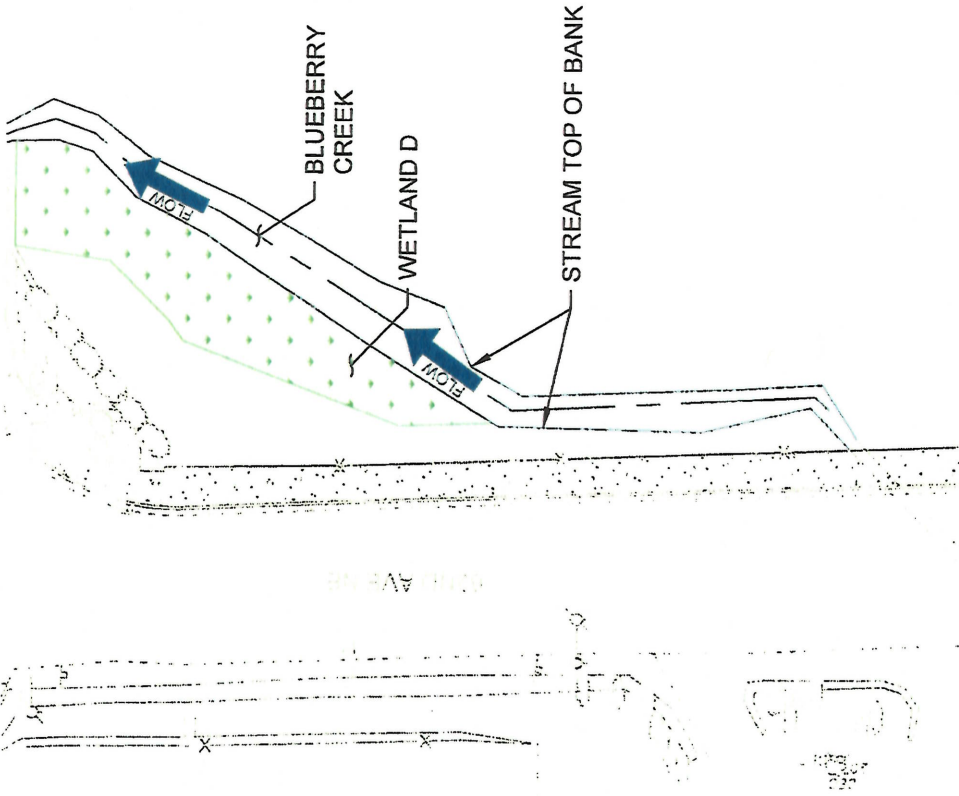
APPLICANT: City of Kenmore
REFERENCE: TBD

NWS- 2018 - 725

LOCATION ADDRESS: 68th Ave NE and NE 202nd Street
IN: The City of Kenmore
COUNTY: King **STATE:** WA

LAT/LONG:
Northern Terminus: 47 46' 35.46" N, 122 15' 49.02" W
Southern Terminus: 47 45' 41.35" N, 122 14' 58.46" W

NWS-2018-725
2/7/2019
Page 4 of 5



62ND WAY NE AT 62ND AVE NE
DETAIL PLAN VIEW

68TH AVE NE AT NE 185TH ST
DETAIL PLAN VIEW

EXISTING CONDITIONS

PROPOSED PROJECT: City of Kenmore 68th Avenue NE Pedestrian and Bicycle Improvements Project

APPLICANT: City of Kenmore

REFERENCE: TBD **NWS- 2018 - 7215**

LOCATION ADDRESS: 68th Ave NE and NE 202nd Street
IN: The City of Kenmore
COUNTY: King **STATE:** WA

LAT/LONG:
Northern Terminus 47 46' 35.46" N, 122 15' 49.02" W
Southern Terminus: 47 45' 41.35" N, 122 14' 58.46" W