

Scatter Creek Reach Assessment Mapbook

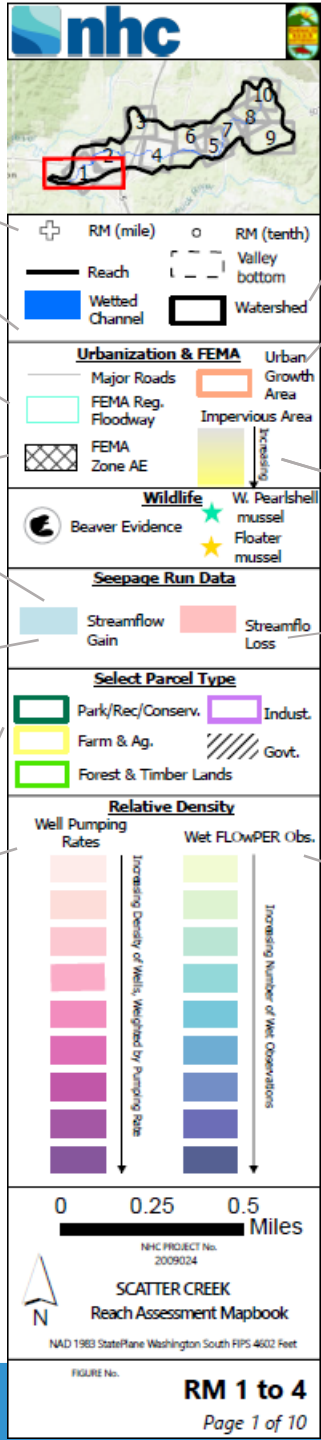
Scatter Creek Local Strategy Plan

Author: Northwest Hydraulic Consultants

Legend

Explanation

- From 2024 delineated channel centerline (NHC)
- Delineated wetted area from February 2024 aerial (NHC)
- Regulatory Floodway (strict no-rise requirements within floodway)
- ZONE AE flood zone (1% annual chance of flooding, no-rise analysis)
- Areas that have been mapped as both gaining and losing areas in repeat seepage run surveys
- Areas that have only been mapped as gaining streamflow in repeat seepage run surveys
- Includes conservation easements
- Density of groundwater wells weighted by pumping rates. Darker pink colors represent areas with relatively higher groundwater pumping rates (Dataset: Thurston County wells, pumping rates in acre-feet per year)



Scatter Creek basin area (Thurston County GIS)

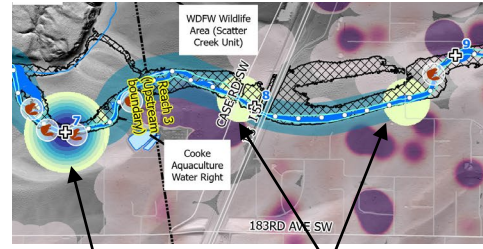
Town and adjacent unincorporated growth area identified by the County to receive urban growth in the future. Outside of the boundary only rural growth is permissible. (Thurston County GIS)

Impervious surface areas from National Land Cover Dataset (2019)

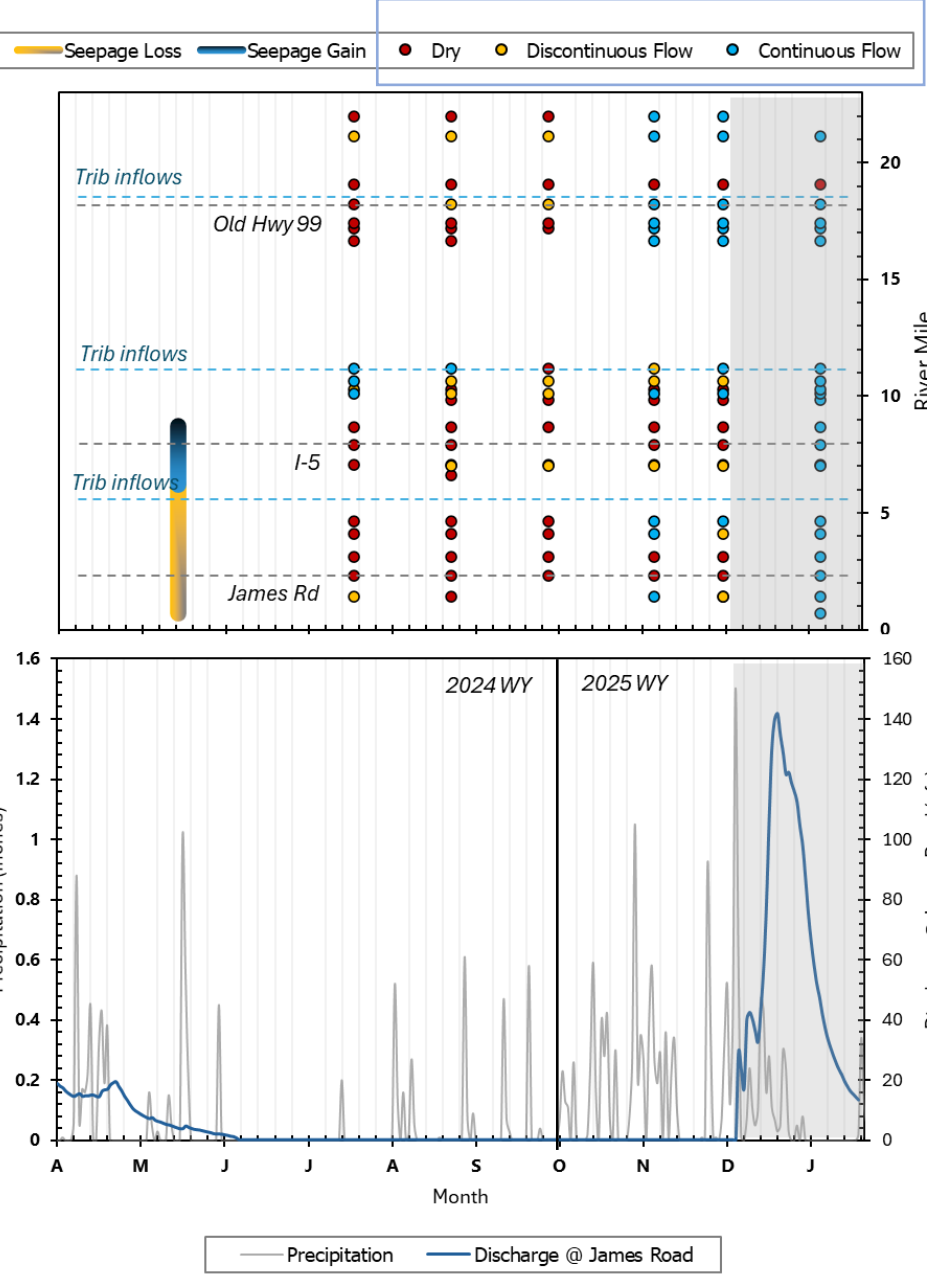
Mussel survey from the Office of the Chehalis Basin 2023 Report

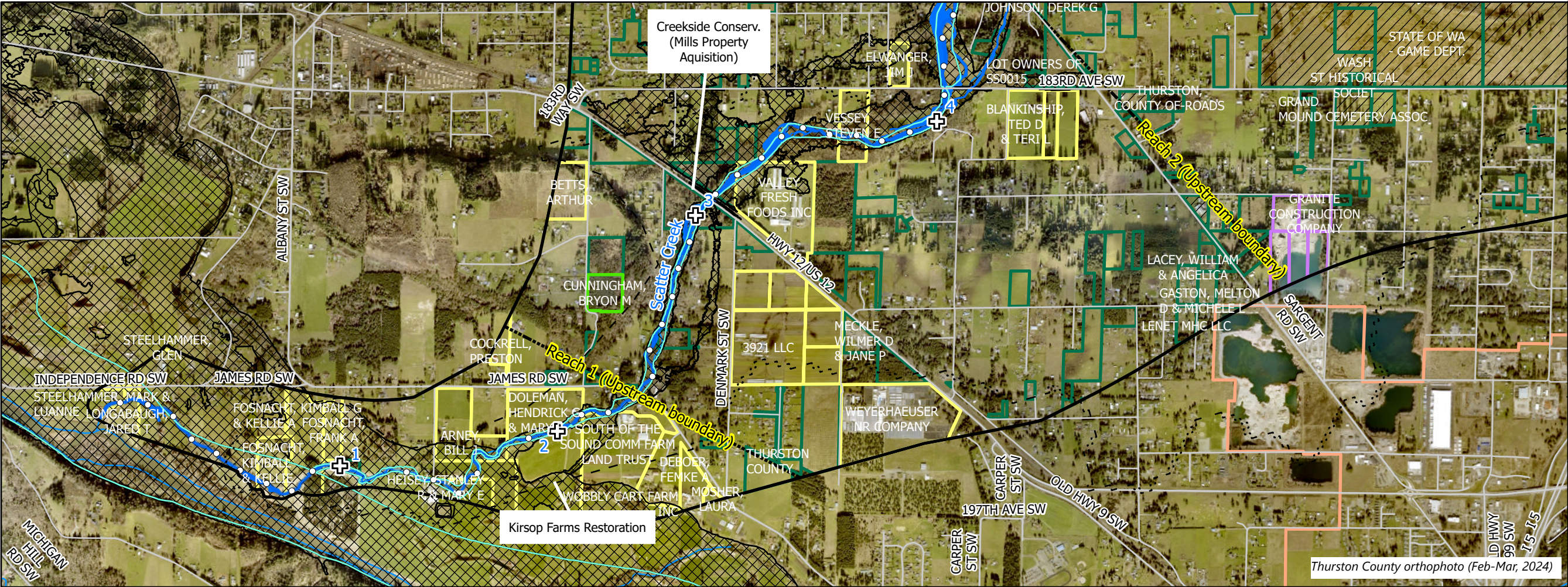
Areas that have only been mapped as losing streamflow to groundwater in repeat seepage run surveys

Circles with darker blue centers represent FLOWPER stations with more wet observations ("Continuous Flow" or "Discontinuous Flow" in plot to the right, example is RM 18.8) whereas light green circles represent FLOWPER stations with fewer wet observations (more "Dry" relative to wet observations, example is James Rd). FLOWPER time series used from July 2024 to January 2025.



FLOWPER Dataset





RM (mile)

Reach

Wetted Channel

RM (tenth)

Valley bottom

Watershed

Urbanization & FEMA

Major Roads

FEMA Reg. Floodway

FEMA Zone AE

Urban Growth Area

Impervious Area

Increasing

Wildlife

Beaver Evidence

W. Pearlshell mussel

Floater mussel

Seepage Run Data

Streamflow Gain

Streamflow Loss

Select Parcel Type

Park/Rec/Conserv.

Farm & Ag.

Forest & Timber Lands

Indust.

Govt.

Relative Density

Well Pumping Rates

Wet FLOWPER Obs.

Increasing Density of Wells, Weighted by Pumping Rate

Increasing Number of Wet Observations

0

0.25

0.5

Miles

N

NAD 1983 StatePlane Washington South FIPS 4602 Feet

RM 1 to 4

Page 1 of 10

RM (mile)

Reach

Wetted Channel

RM (tenth)

Valley bottom

Watershed

Urbanization & FEMA

Major Roads

FEMA Reg. Floodway

FEMA Zone AE

Urban Growth Area

Impervious Area

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Wildlife

Beaver Evidence

W. Pearlshell mussel

Floater mussel

Seepage Run Data

Streamflow Gain

Streamflow Loss

Select Parcel Type

Park/Rec/Conserv.

Farm & Ag.

Forest & Timber Lands

Indust.

Govt.

Relative Density

Well Pumping Rates

Wet FLOWPER Obs.

Increasing Density of Wells, Weighted by Pumping Rate

Increasing Number of Wet Observations

0

0.25

0.5

Miles

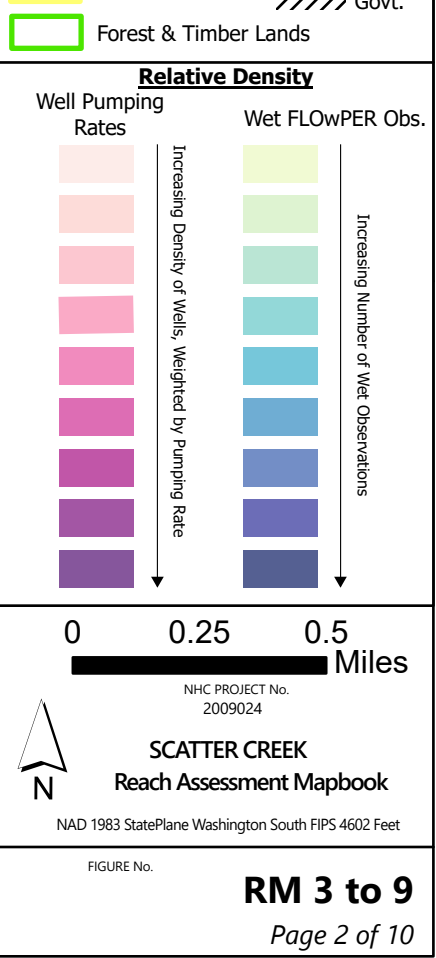
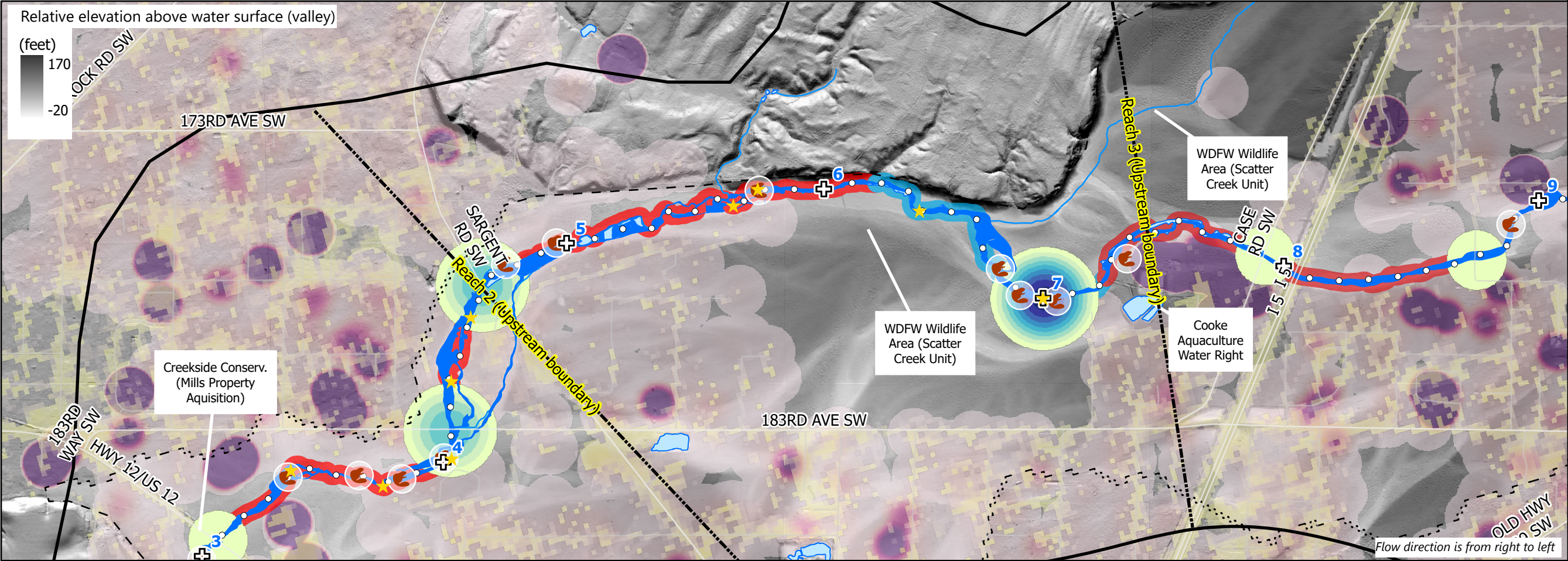
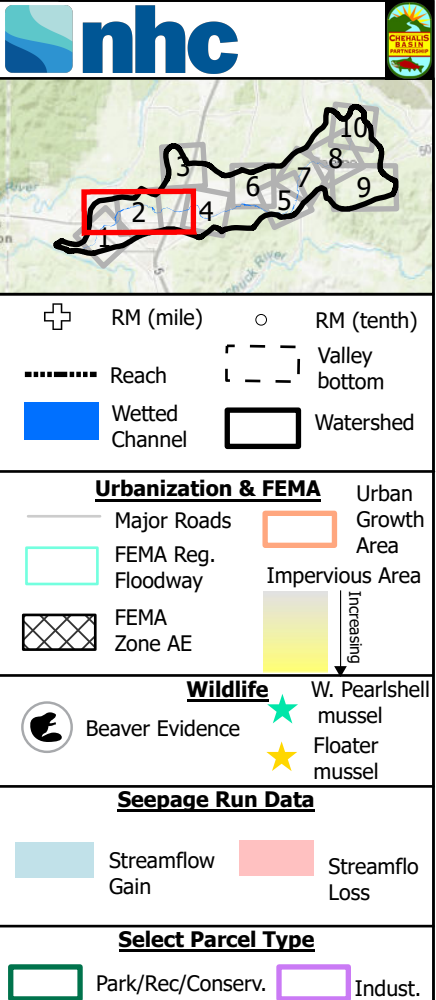
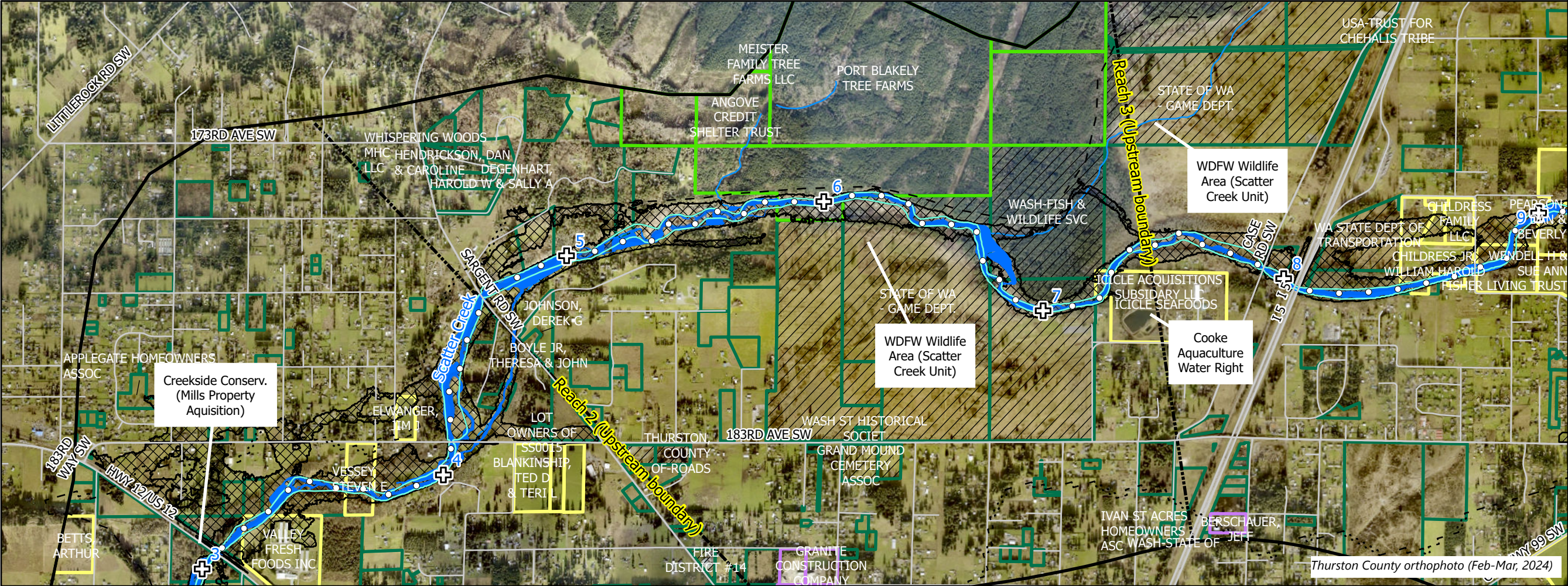
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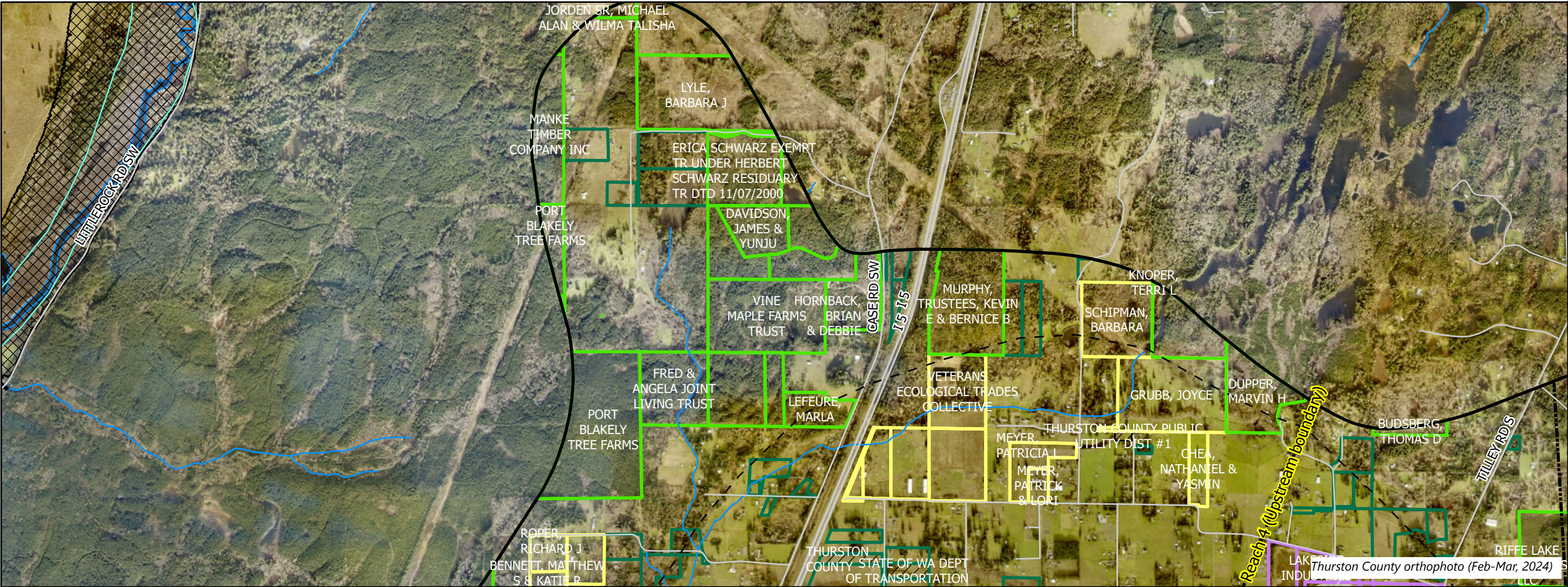
NAD 1983 StatePlane Washington South FIPS 4602 Feet

RM 1 to 4

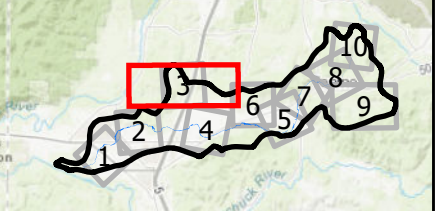
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RM (mile)

Reach

Wetted Channel

RM (tenth)

Valley bottom

Watershed

Urbanization & FEMA

Major Roads

FEMA Reg. Floodway

FEMA Zone AE

Urban Growth Area

Impervious Area

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Wildlife

Beaver Evidence

W. Pearlshell mussel

Floater mussel

Seepage Run Data

Streamflow Gain

Streamflow Loss

Select Parcel Type

Park/Rec/Conserv.

Farm & Ag.

Forest & Timber Lands

Indust.

Govt.

Relative Density

Well Pumping Rates

Wet FLOWPER Obs.

Increasing Density of Wells, Weighted by Pumping Rate

Increasing Number of Wet Observations

0

0.25

0.5

Miles

N

NAD 1983 StatePlane Washington South FIPS 4602 Feet

SCATTER CREEK

Reach Assessment Mapbook

FIGURE No.

RM 0 to 0

Page 3 of 10

Well Pumping Rates

Wet FLOWPER Obs.

Increasing Density of Wells, Weighted by Pumping Rate

Increasing Number of Wet Observations

0

0.25

0.5

Miles

N

NAD 1983 StatePlane Washington South FIPS 4602 Feet

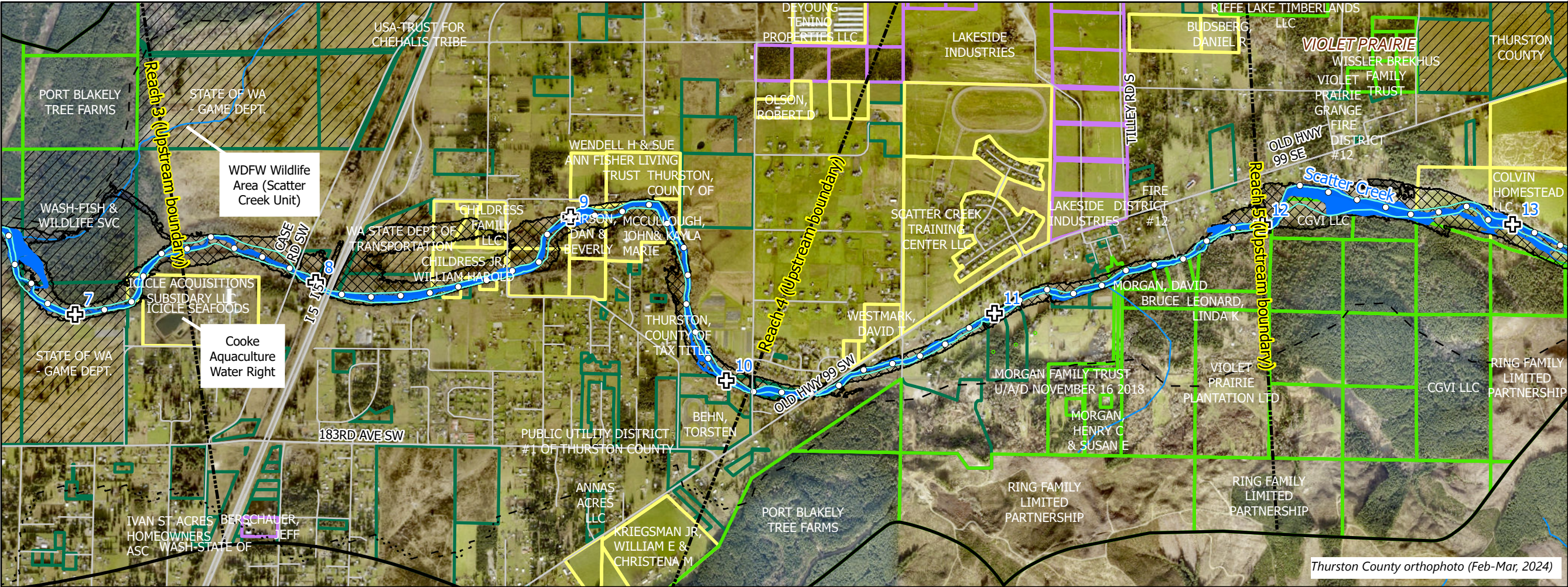
SCATTER CREEK

Reach Assessment Mapbook

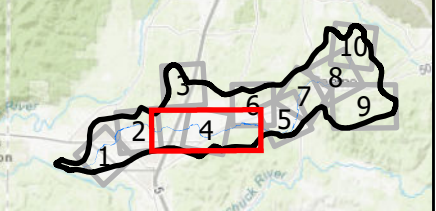
FIGURE No.

RM 0 to 0

Page 3 of 10







RM (mile)

Reach

Wetted Channel

RM (tenth)

Valley bottom

Watershed

Urbanization & FEMA

Major Roads

FEMA Reg. Floodway

FEMA Zone AE

Urban Growth Area

Impervious Area

Increasing

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Beaver Evidence

W. Pearlshell mussel

Floater mussel

Seepage Run Data

Streamflow Gain

Streamflow Loss

Select Parcel Type

Park/Rec/Conserv.

Farm & Ag.

Forest & Timber Lands

Indust.

Govt.

Relative Density

Well Pumping Rates

Wet FLOWPER Obs.

Increasing Density of Wells, Weighted by Pumping Rate

Increasing Number of Wet Observations

0

0.25

0.5

Miles

N

NAD 1983 StatePlane Washington South FIPS 4602 Feet

SCATTER CREEK

Reach Assessment Mapbook

FIGURE No.

RM 7 to 13

Page 4 of 10

Well Pumping Rates

Wet FLOWPER Obs.

Increasing Density of Wells, Weighted by Pumping Rate

Increasing Number of Wet Observations

0

0.25

0.5

Miles

N

NAD 1983 StatePlane Washington South FIPS 4602 Feet

SCATTER CREEK

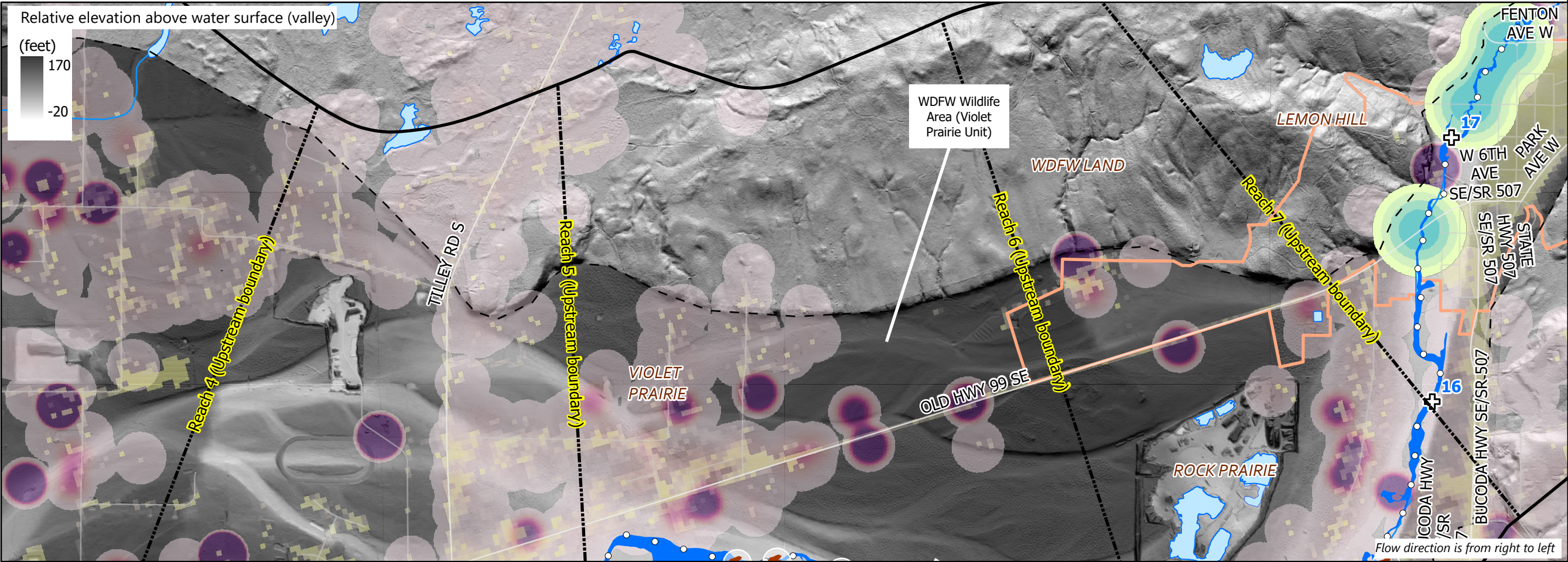
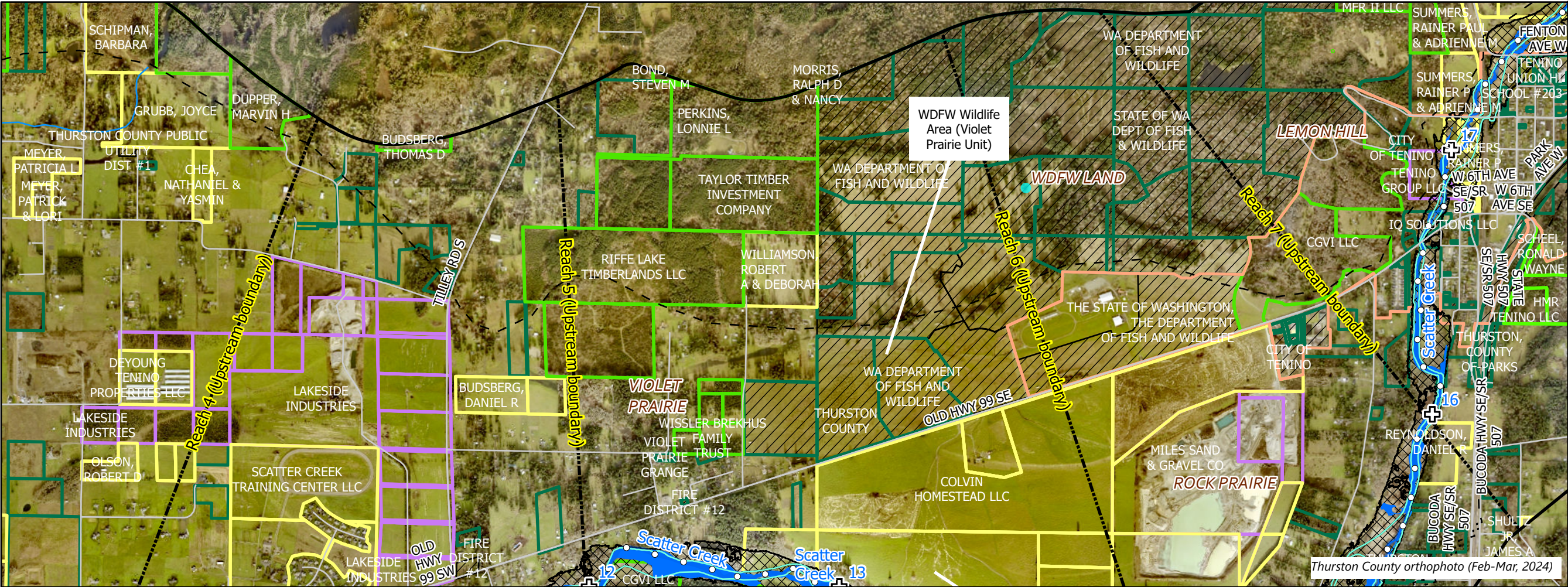
Reach Assessment Mapbook

FIGURE No.

RM 7 to 13

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nhc

CHILLICOTHE BASIN

1 2 3 4 5 6 7 8 9 10

RM (mile) RM (tenth)
Reach Valley bottom
Wetted Channel Watershed

Urbanization & FEMA
Major Roads Urban Growth Area
FEMA Reg. Floodway Impervious Area
FEMA Zone AE Increasing

Wildlife
Beaver Evidence W. Pearlshell mussel
Floater mussel

Seepage Run Data
Streamflow Gain Streamflow Loss

Select Parcel Type
Park/Rec/Conserv. Indust.
Farm & Ag. Govt.
Forest & Timber Lands

Relative Density
Well Pumping Rates
Increasing Density of Wells, Weighted by Pumping Rate
Wet FLOWPER Obs.
Increasing Number of Wet Observations

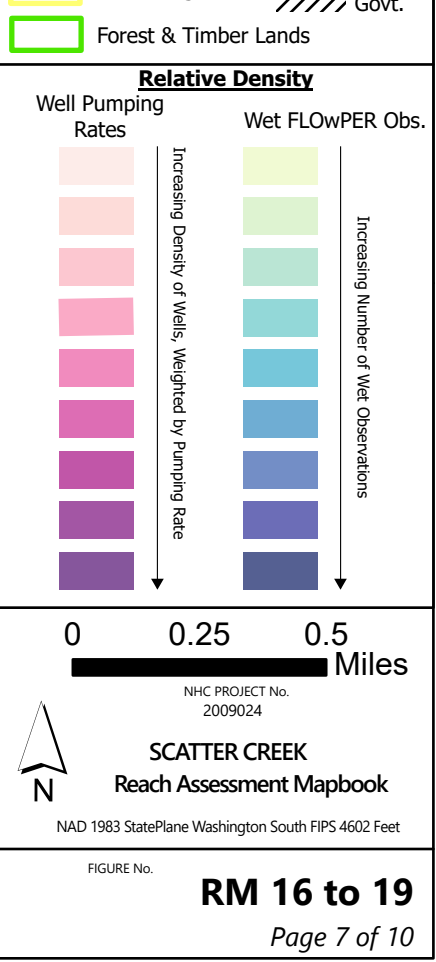
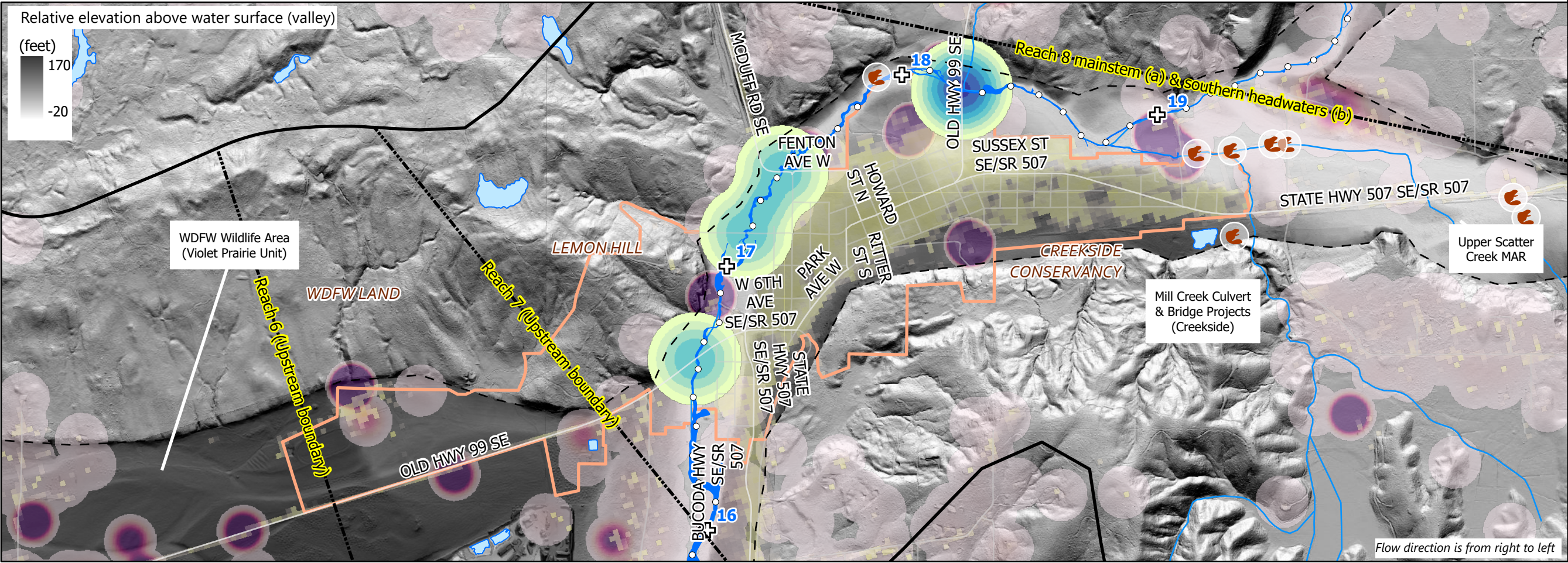
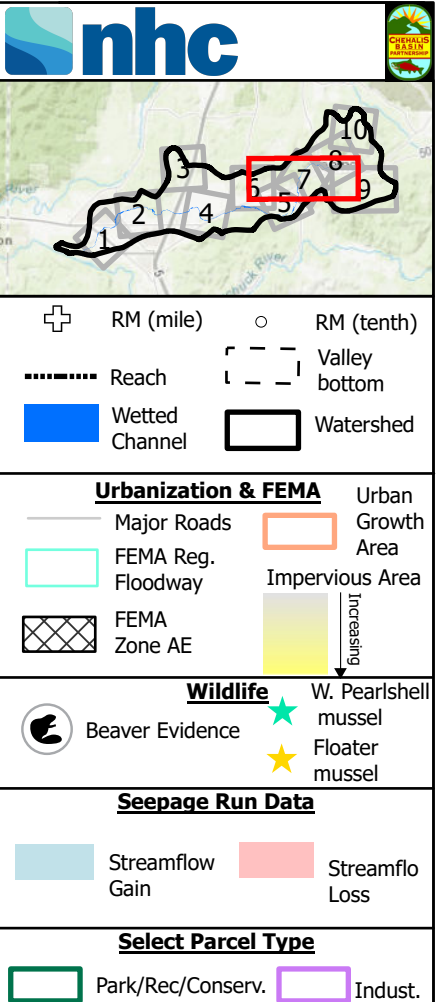
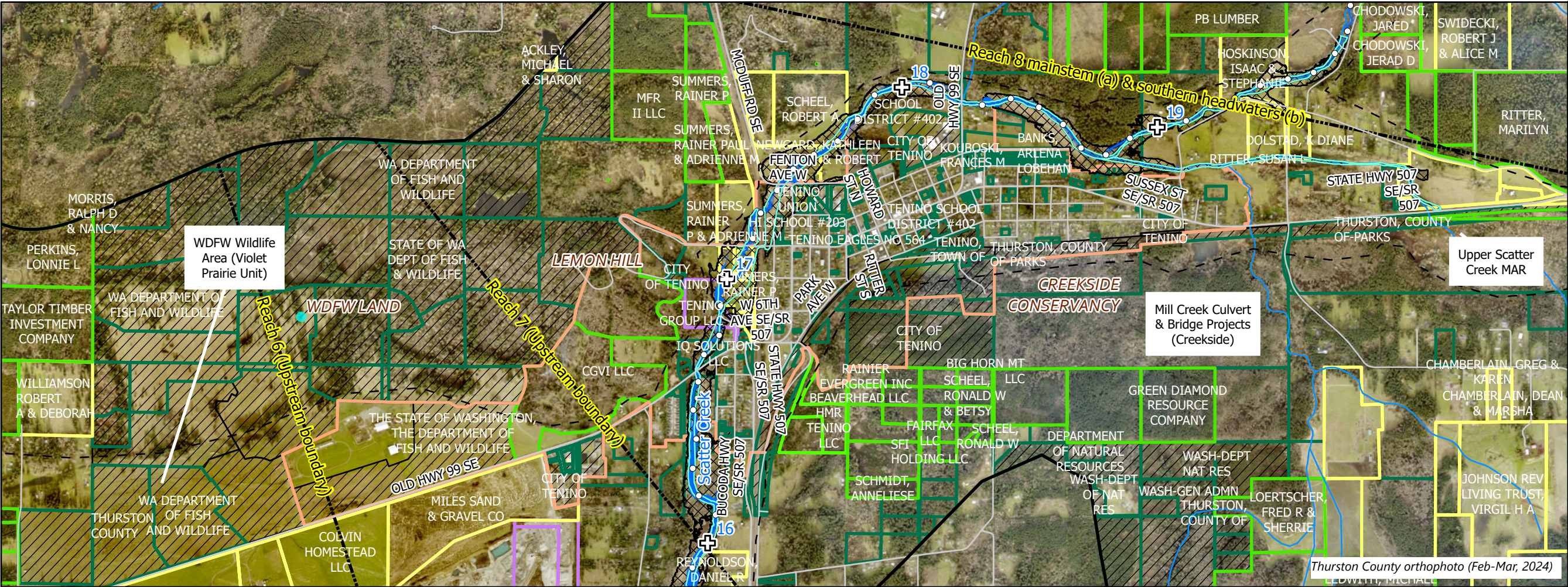
0 0.25 0.5 Miles

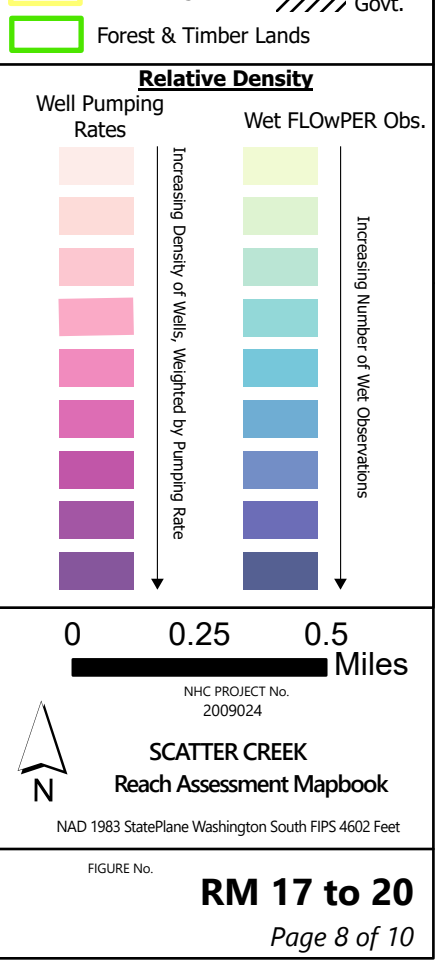
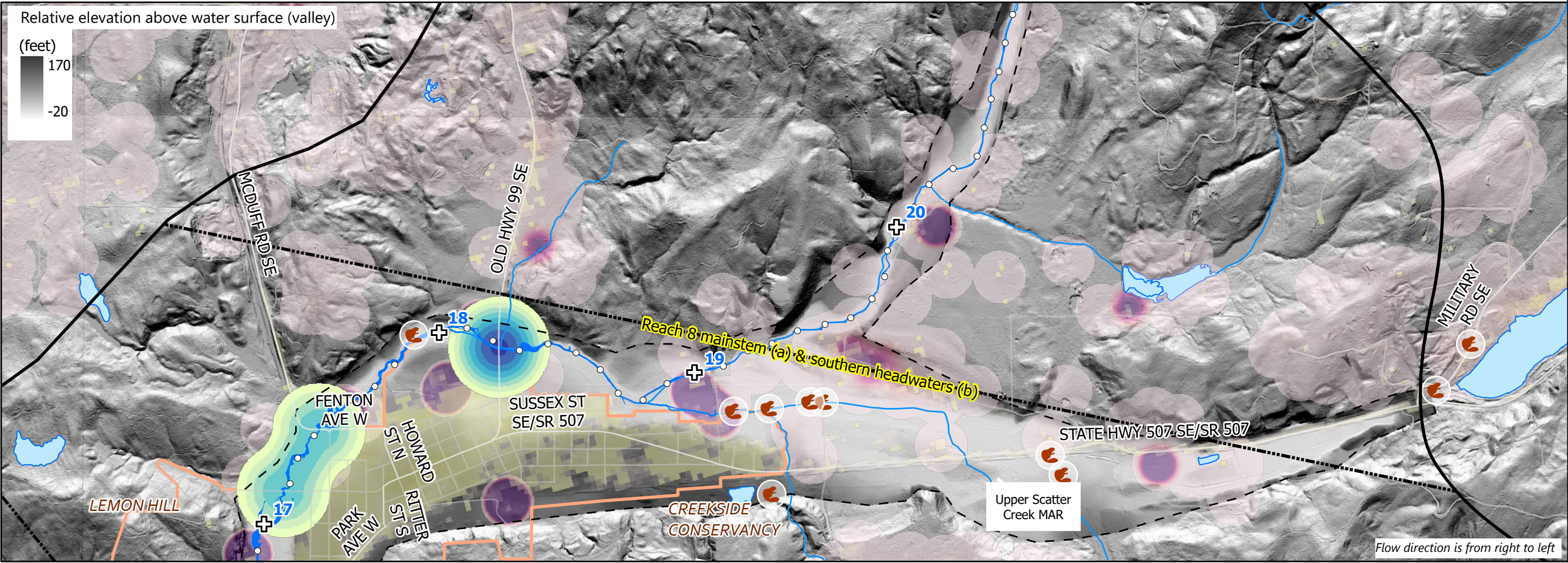
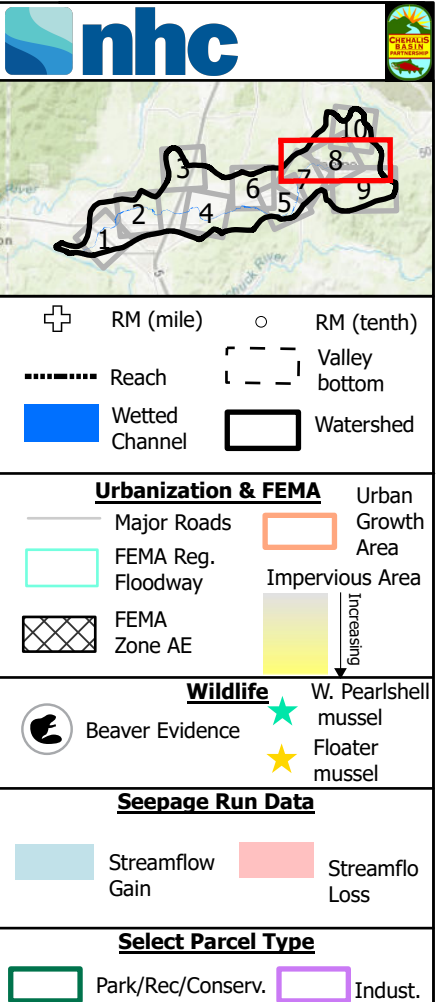
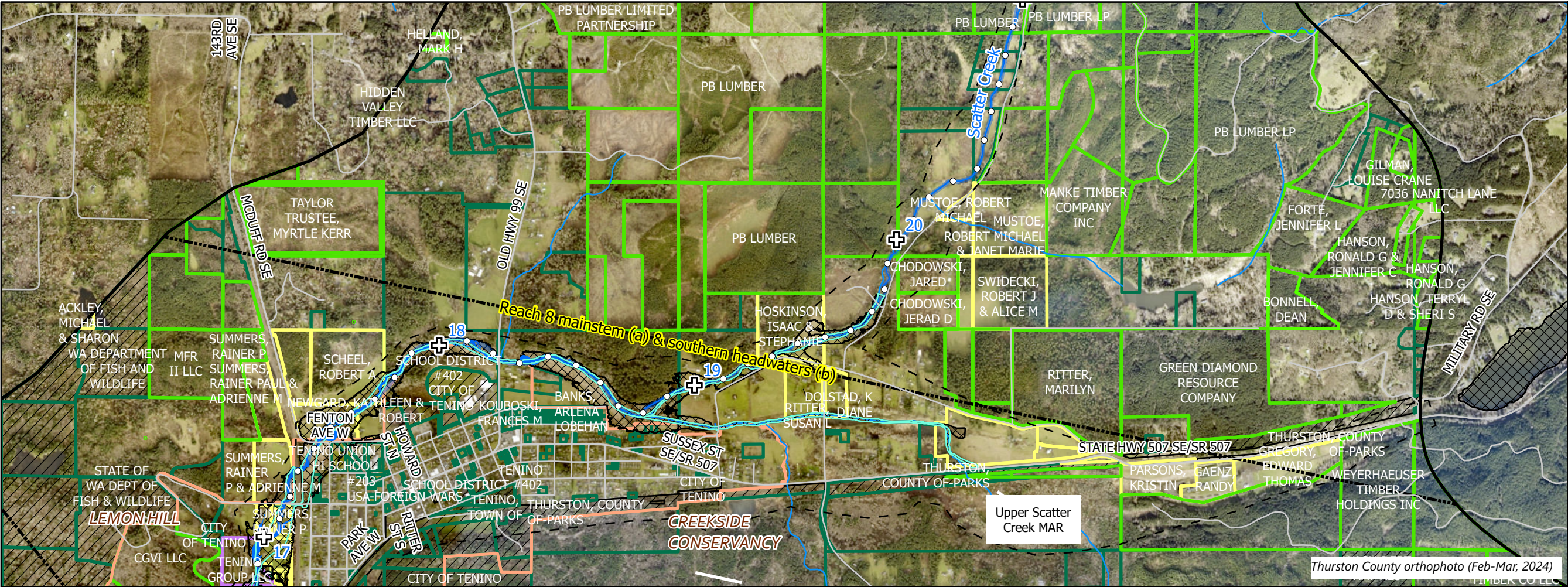
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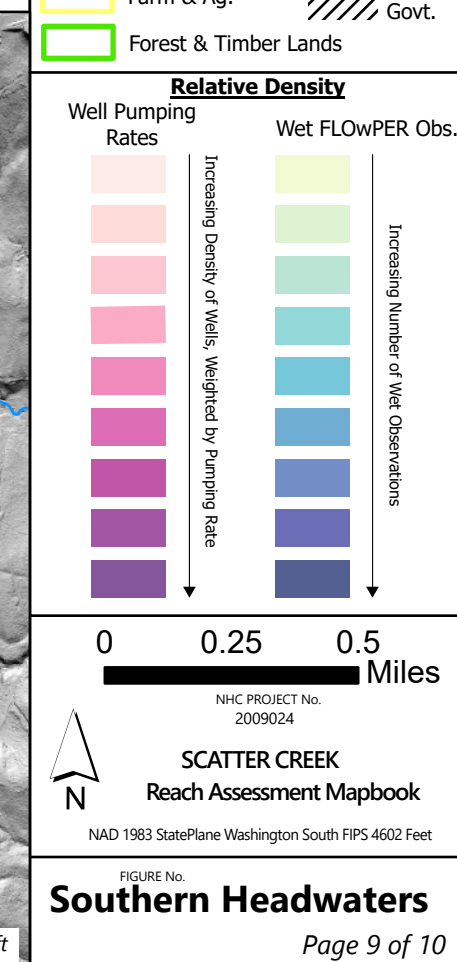
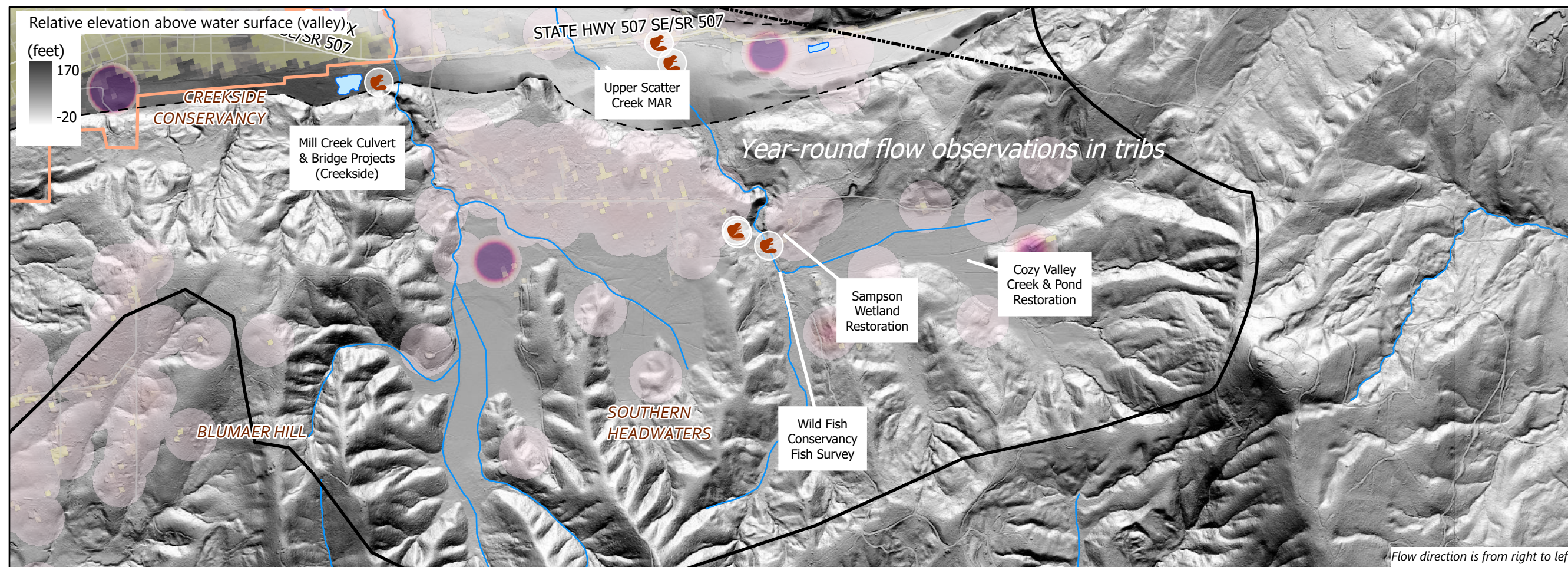
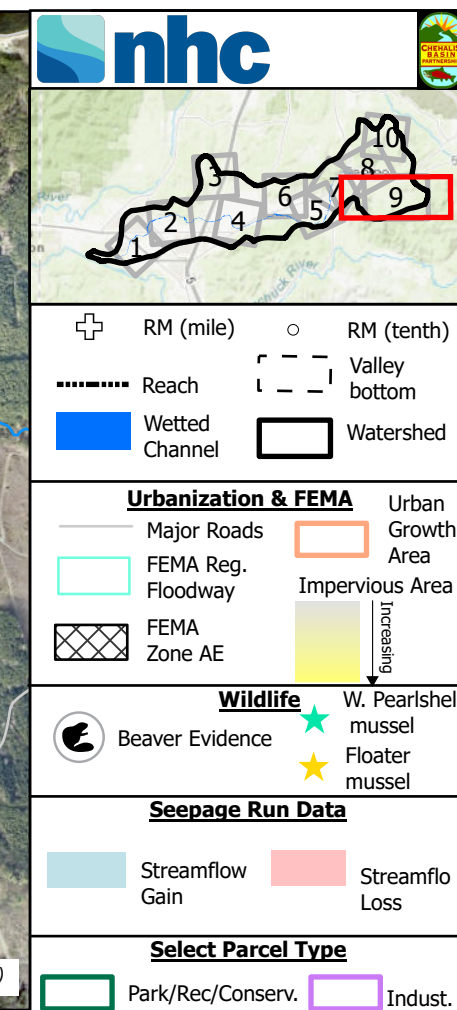
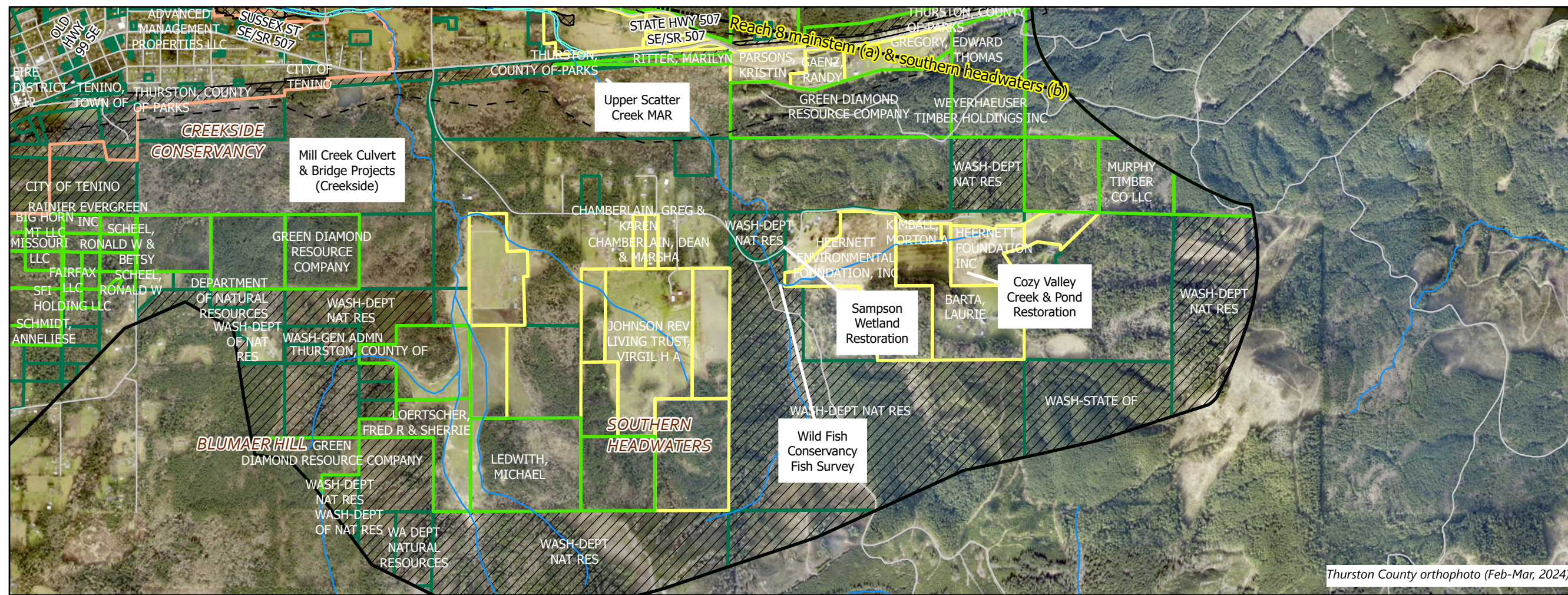
SCATTER CREEK
Reach Assessment Mapbook

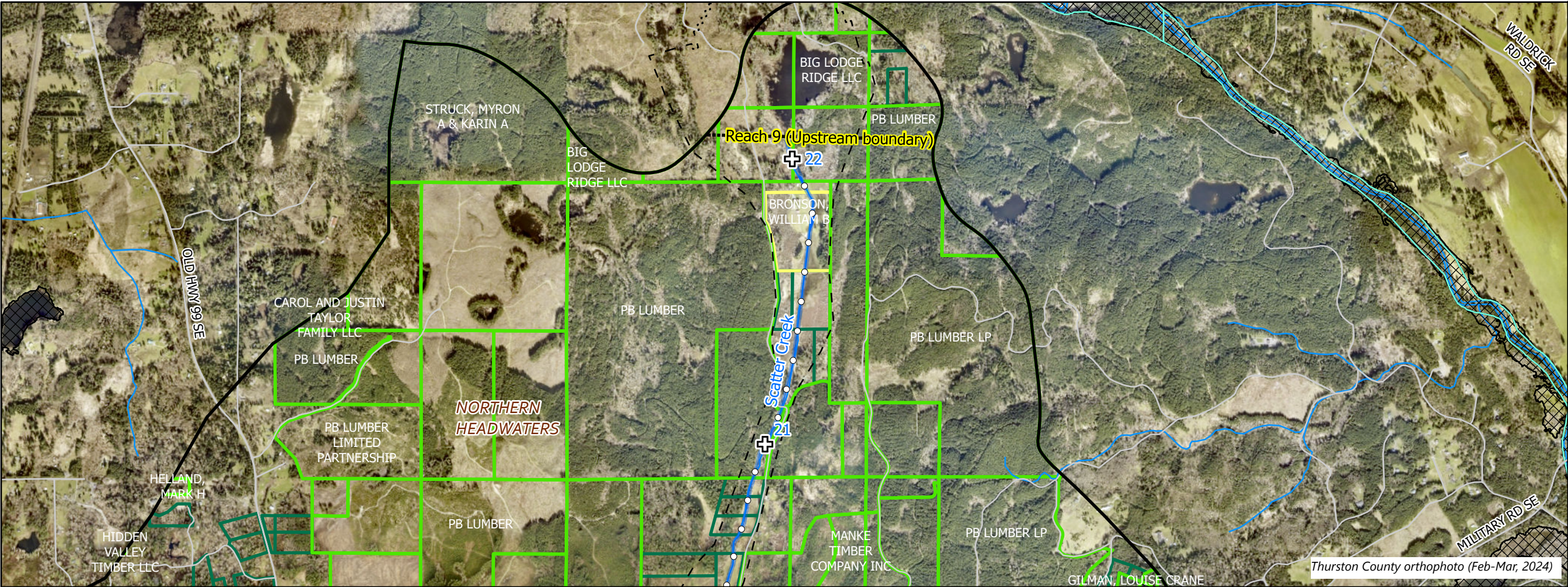
NAD 1983 StatePlane Washington South FIPS 4602 Feet

FIGURE No. **RM 16 to 17**
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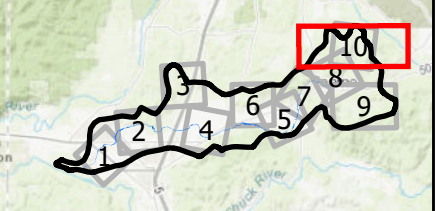












RM (mile)

Reach

Wetted Channel

RM (tenth)

Valley bottom

Watershed

Urbanization & FEMA

Major Roads

FEMA Reg. Floodway

FEMA Zone AE

Urban Growth Area

Impervious Area

Increasing

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Beaver Evidence

W. Pearlshell mussel

Floater mussel

Seepage Run Data

Streamflow Gain

Streamflow Loss

Select Parcel Type

Park/Rec/Conserv.

Farm & Ag.

Forest & Timber Lands

Indust.

Govt.

Relative Density

Well Pumping Rates

Increasing Density of Wells, Weighted by Pumping Rate

Wet FLOWPER Obs.

Increasing Number of Wet Observations

00.250.5

Miles

N

NAD 1983 StatePlane Washington South FIPS 4602 Feet

FIGURE No.

RM 21 to 22

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Relative elevation above water surface (valley)

(feet)

170

-20

Well Pumping Rates

Increasing Density of Wells, Weighted by Pumping Rate

Wet FLOWPER Obs.

Increasing Number of Wet Observations

00.250.5

Miles

N

NAD 1983 StatePlane Washington South FIPS 4602 Feet

FIGURE No.

RM 21 to 22

Page 10 of 10

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