

Lewis County, Washington
Shoreline Master Program

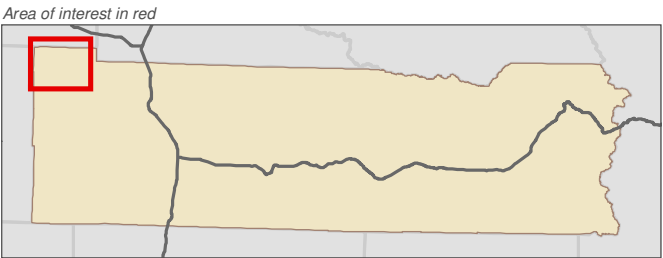
Map 10A - Surficial Geology
Figure 1

Date: 6/3/2014

Surficial Geology

- Alluvium
- Basalt flows and flow breccias, Crescent Formation
- Marine sedimentary rocks
- Mass-wasting deposits, mostly landslides
- Nearshore sedimentary rocks
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA

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Miles
1:48,000

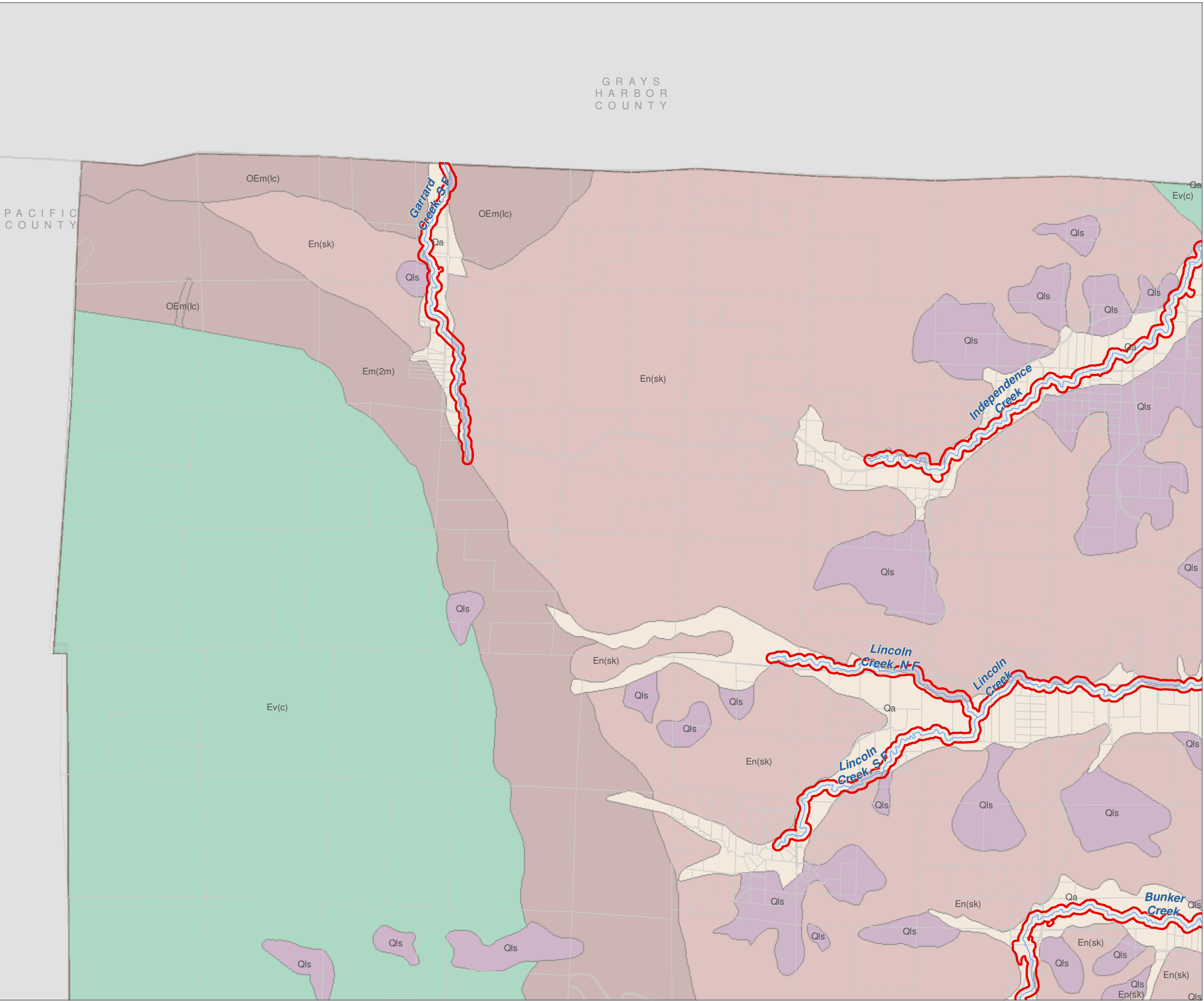


Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP
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Lewis County Coalition



City of Morton City of Winlock



Lewis County, Washington
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Map 10A - Surficial Geology
Figure 2

Date: 6/3/2014

Surficial Geology

- Alluvium

Alpine glacial outwash, pre-Fraser

Basalt flows and flow breccias, Crescent Formation

Continental glacial outwash, Fraser-age

Continental glacial outwash, gravel, Fraser-age

Marine sedimentary rocks

Mass-wasting deposits, mostly landslides

Nearshore sedimentary rocks

Terraced deposits
- SMA Rivers & Streams

SMA Lakes

Highways

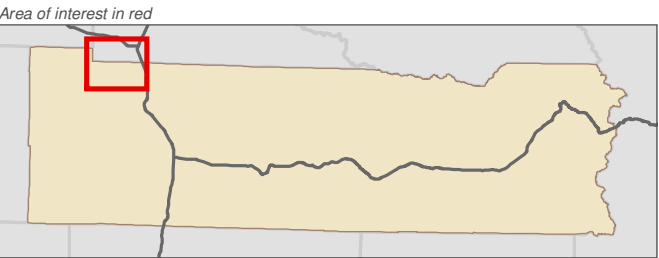
Parcels

SMA Jurisdiction

City

UGA

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Miles
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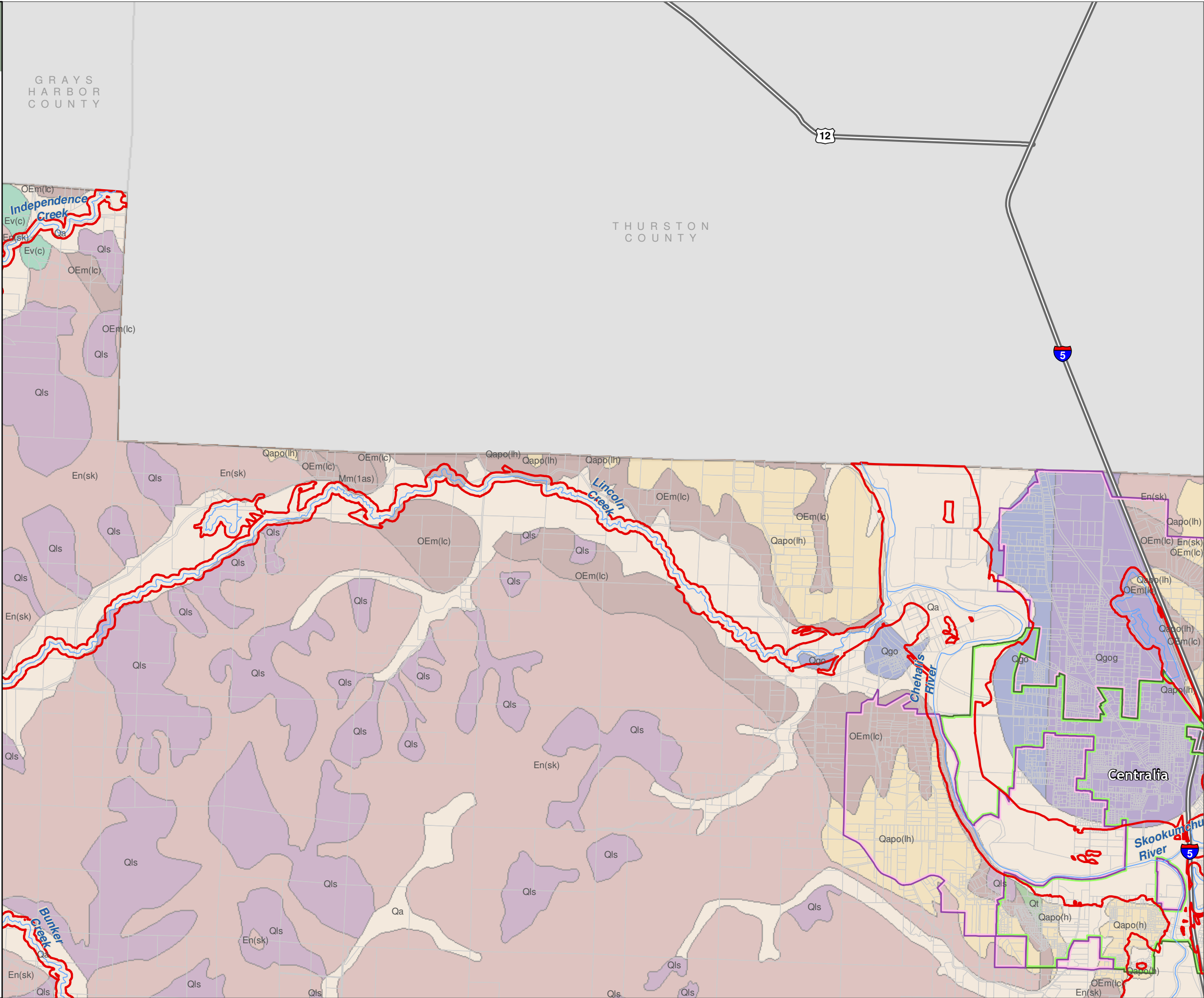
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Map 10A - Surficial Geology
Figure 3

Date: 6/3/2014

Surficial Geology

- Alluvium

Alpine glacial outwash, pre-Fraser

Andesite flows

Continental glacial outwash, gravel, Fraser-age

Marine sedimentary rocks

Mass-wasting deposits, mostly landslides

Nearshore sedimentary rocks
- SMA Jurisdiction

City

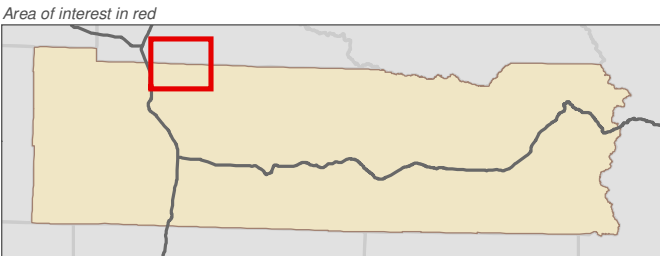
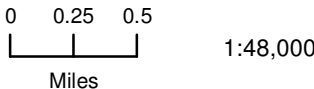
UGA

SMA Rivers & Streams

SMA Lakes

Highways

Parcels



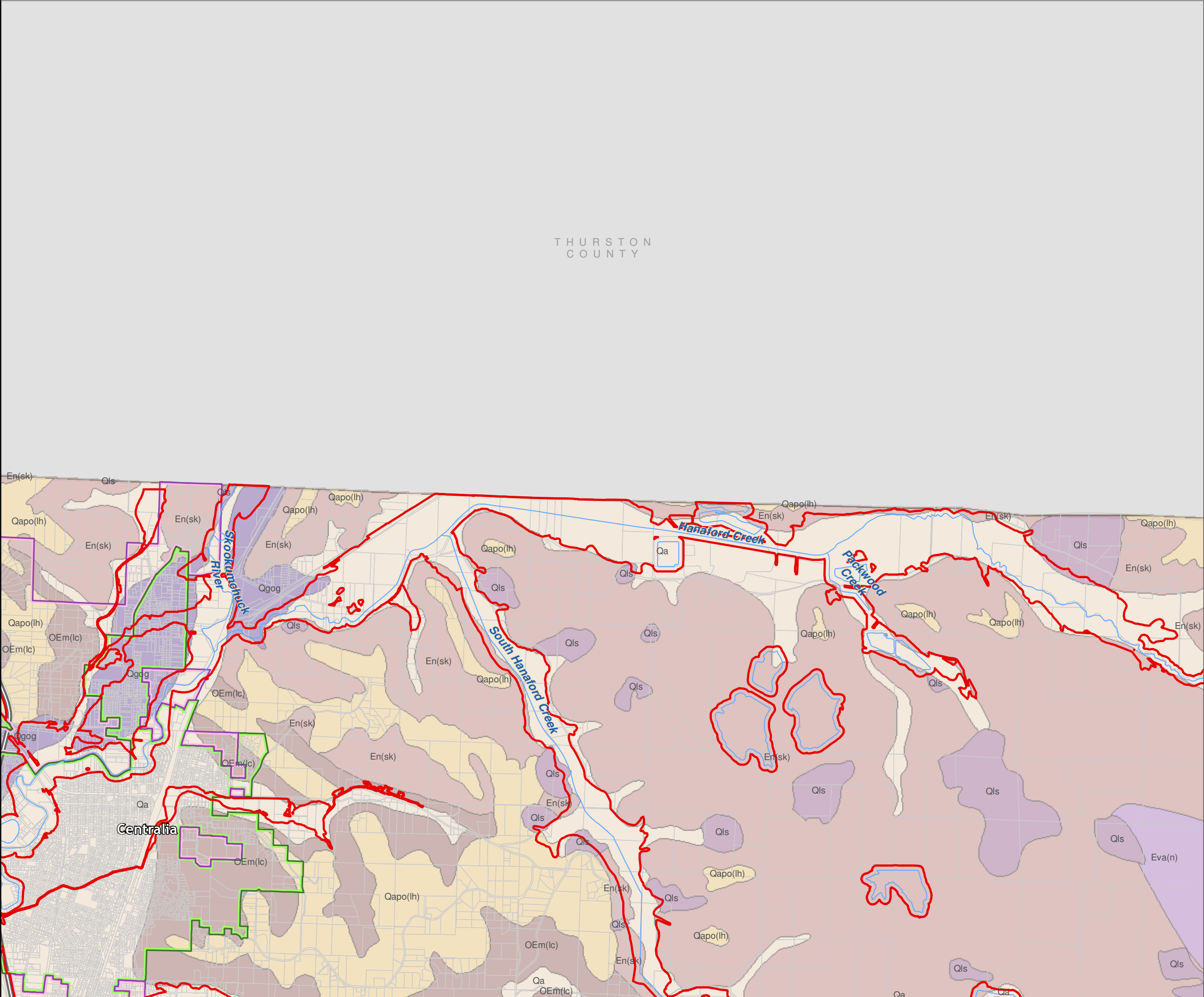
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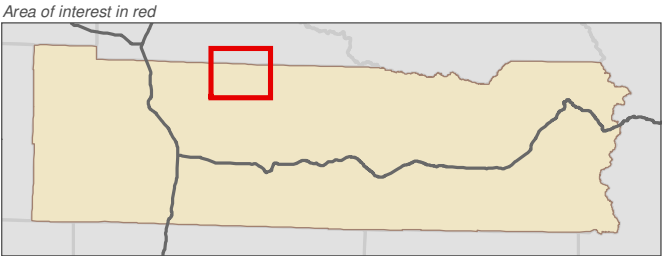
Map 10A - Surficial Geology
Figure 4

Date: 6/3/2014

Surficial Geology

- Alluvium
- Alpine glacial outwash, pre-Fraser
- Andesite flows
- Continental sedimentary deposits or rocks
- Mass-wasting deposits, mostly landslides
- Nearshore sedimentary rocks
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA

0 0.25 0.5
Miles
1:48,000

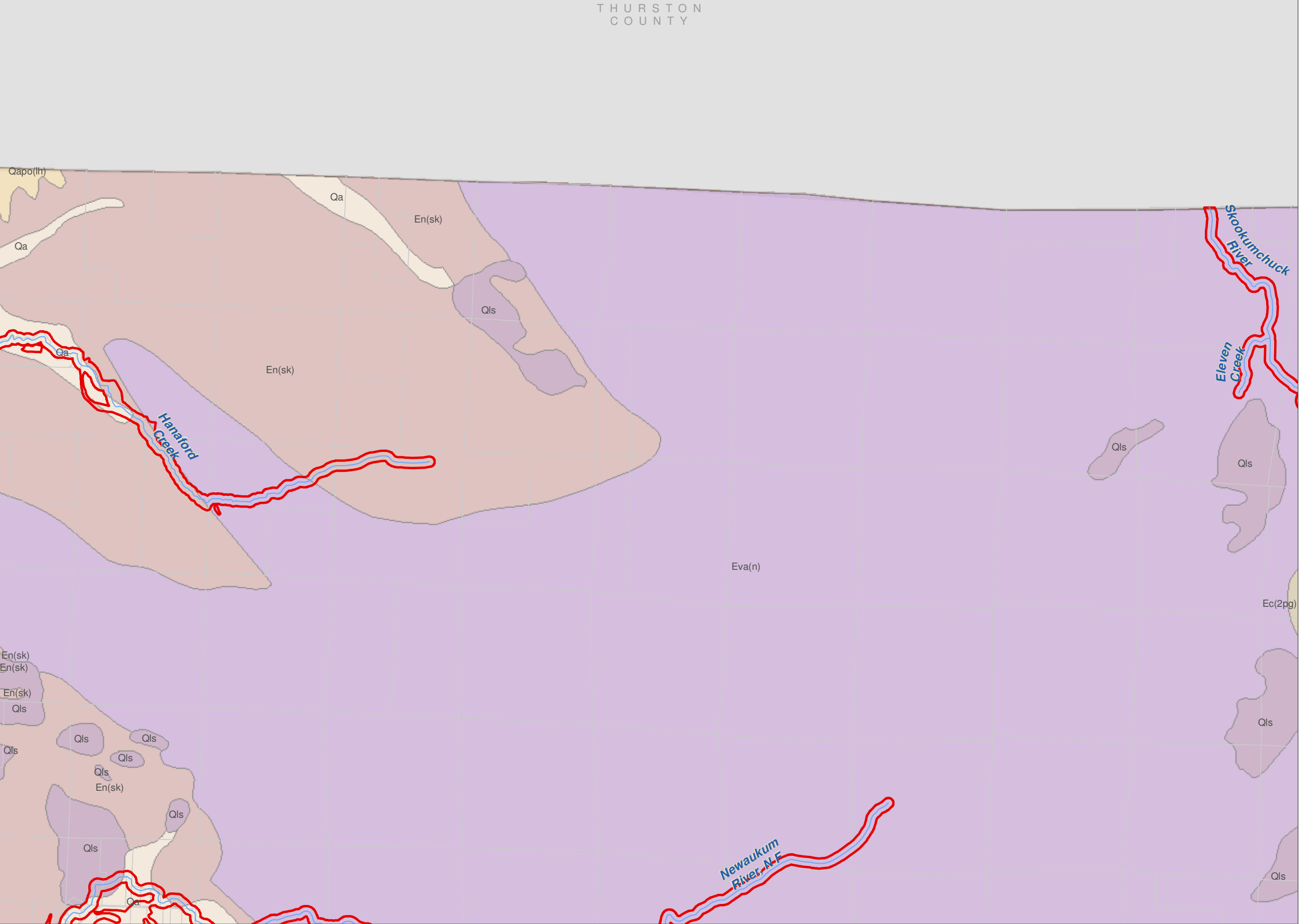


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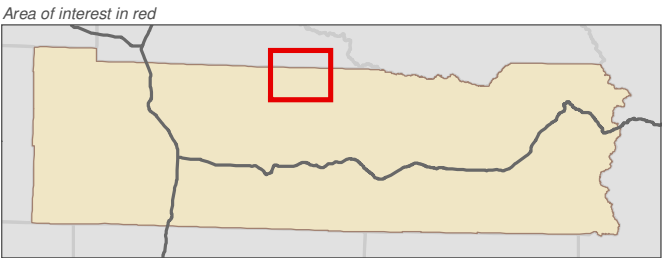
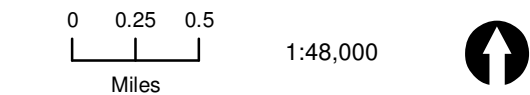
Lewis County, Washington
Shoreline Master Program

Map 10A - Surficial Geology
Figure 5

Date: 6/3/2014

Surficial Geology

- Alluvium
- Andesite flows
- Continental sedimentary deposits or rocks
- Mass-wasting deposits, mostly landslides
- Volcaniclastic deposits or rocks
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA



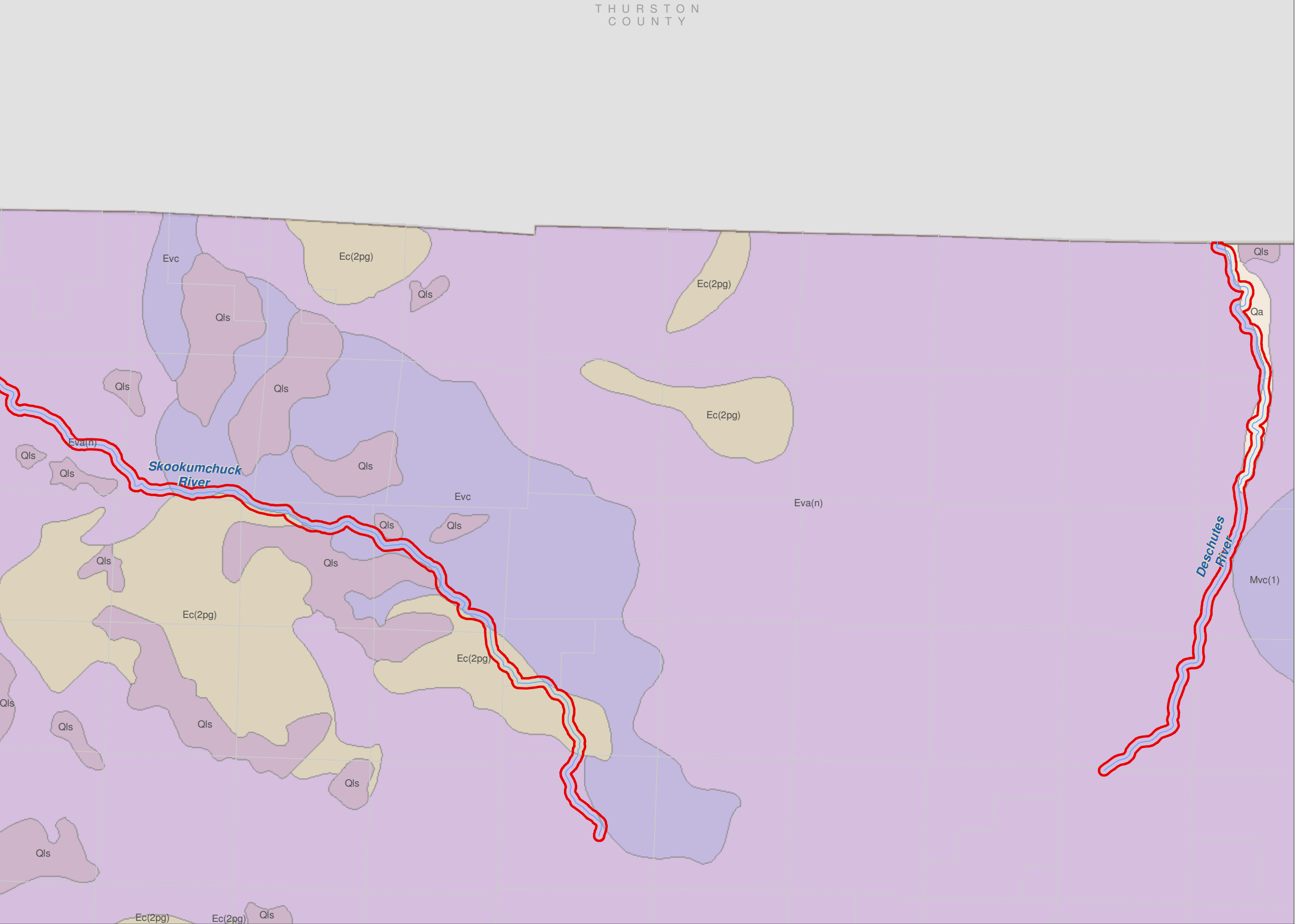
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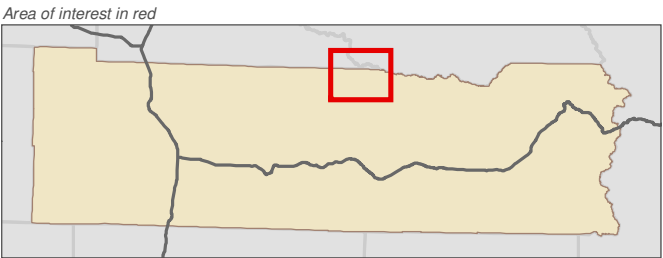
Map 10A - Surficial Geology
Figure 6

Date: 6/3/2014

Surficial Geology

- Alpine glacial drift, pre-Fraser
- Andesite flows
- Basaltic andesite flows
- Continental sedimentary deposits or rocks
- Mass-wasting deposits, mostly landslides
- Volcaniclastic deposits or rocks
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA

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Miles
1:48,000

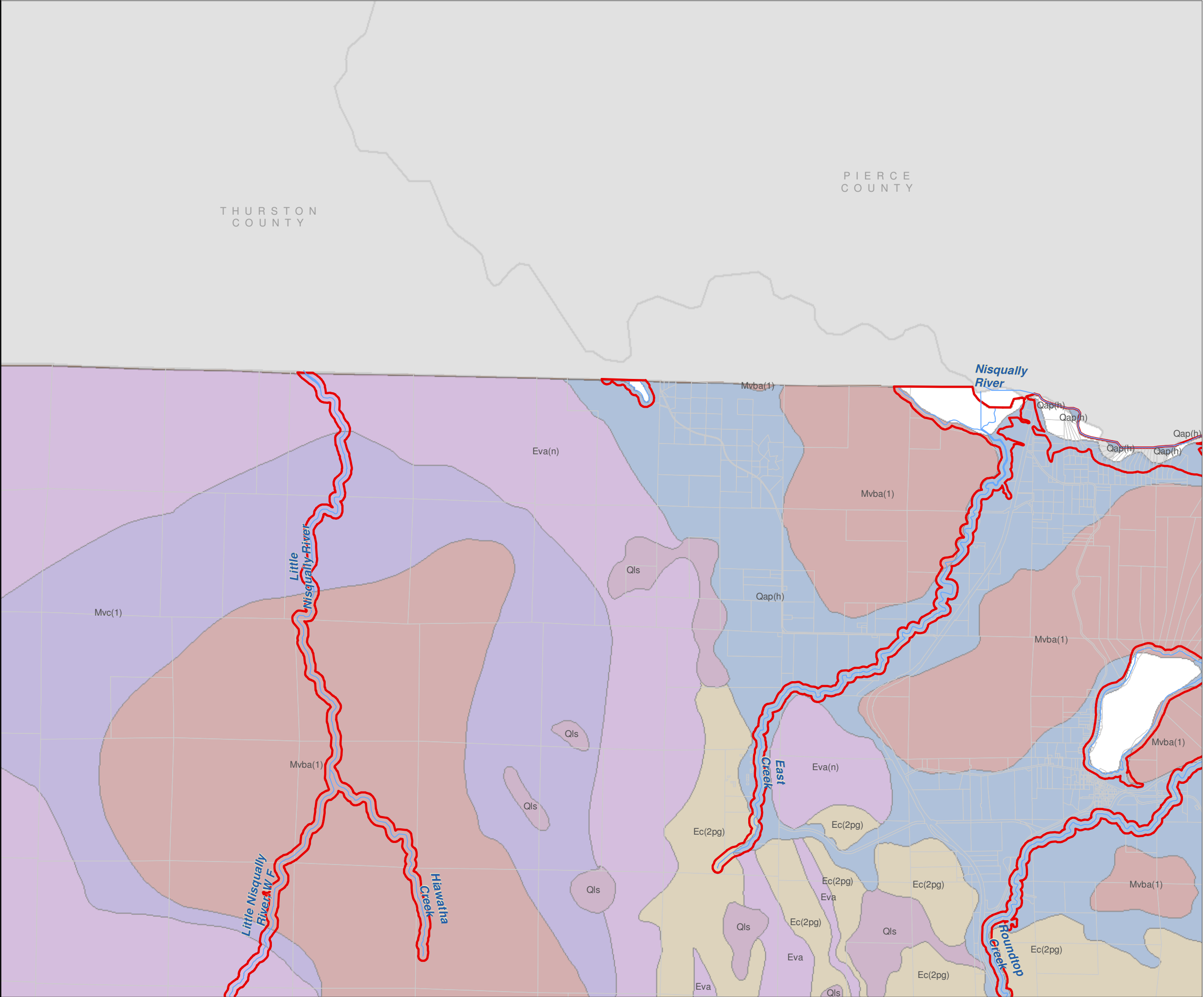


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Shoreline Master Program

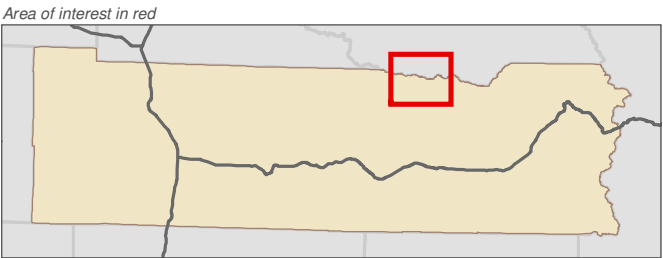
Map 10A - Surficial Geology
Figure 7

Date: 6/3/2014

Surficial Geology

- Alpine glacial drift, Fraser-age
- Alpine glacial drift, pre-Fraser
- Basaltic andesite flows
- Continental sedimentary deposits or rocks
- Intrusive andesite
- Mass-wasting deposits, mostly landslides
- Volcaniclastic deposits or rocks
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA

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Miles
1:48,000

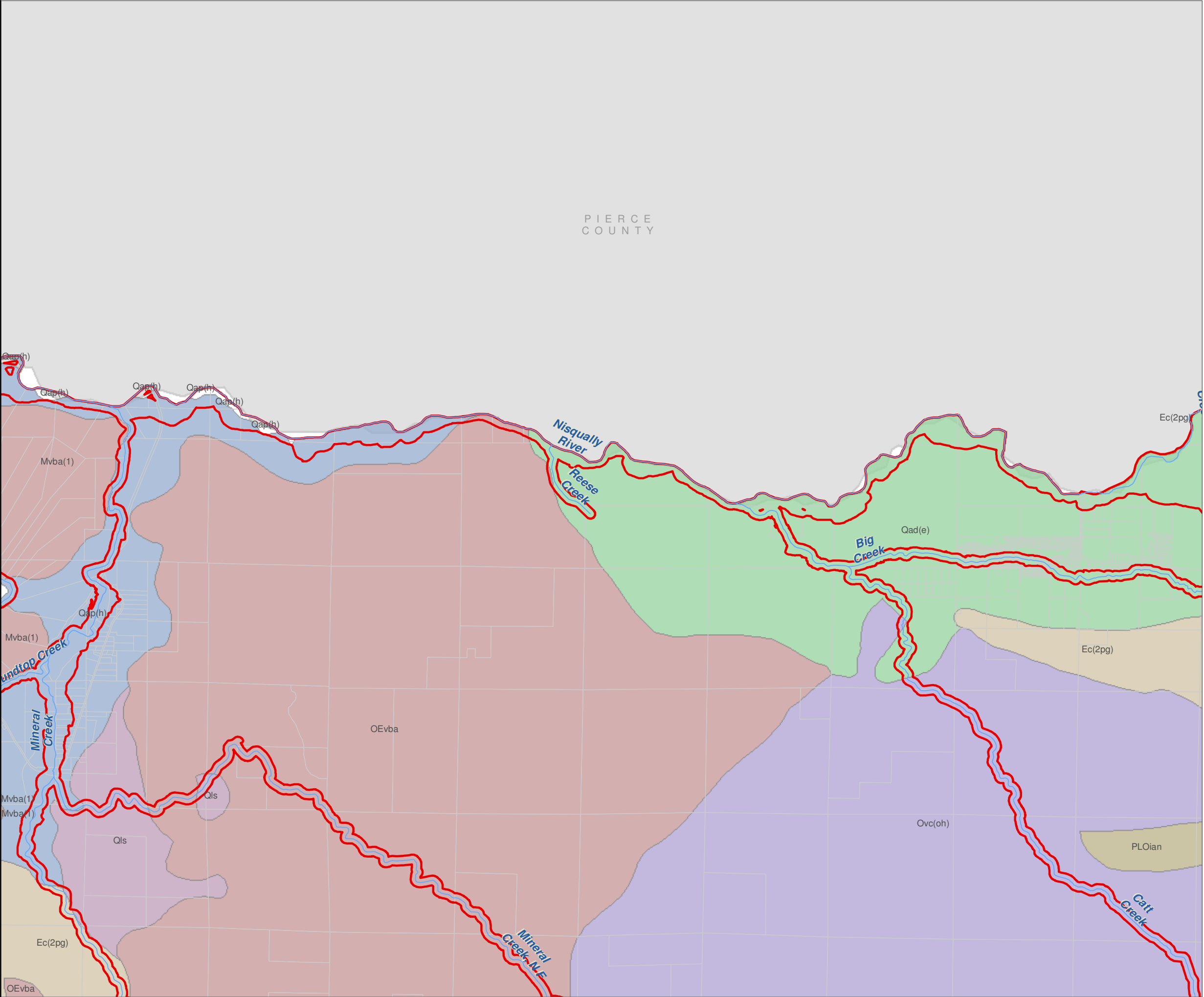


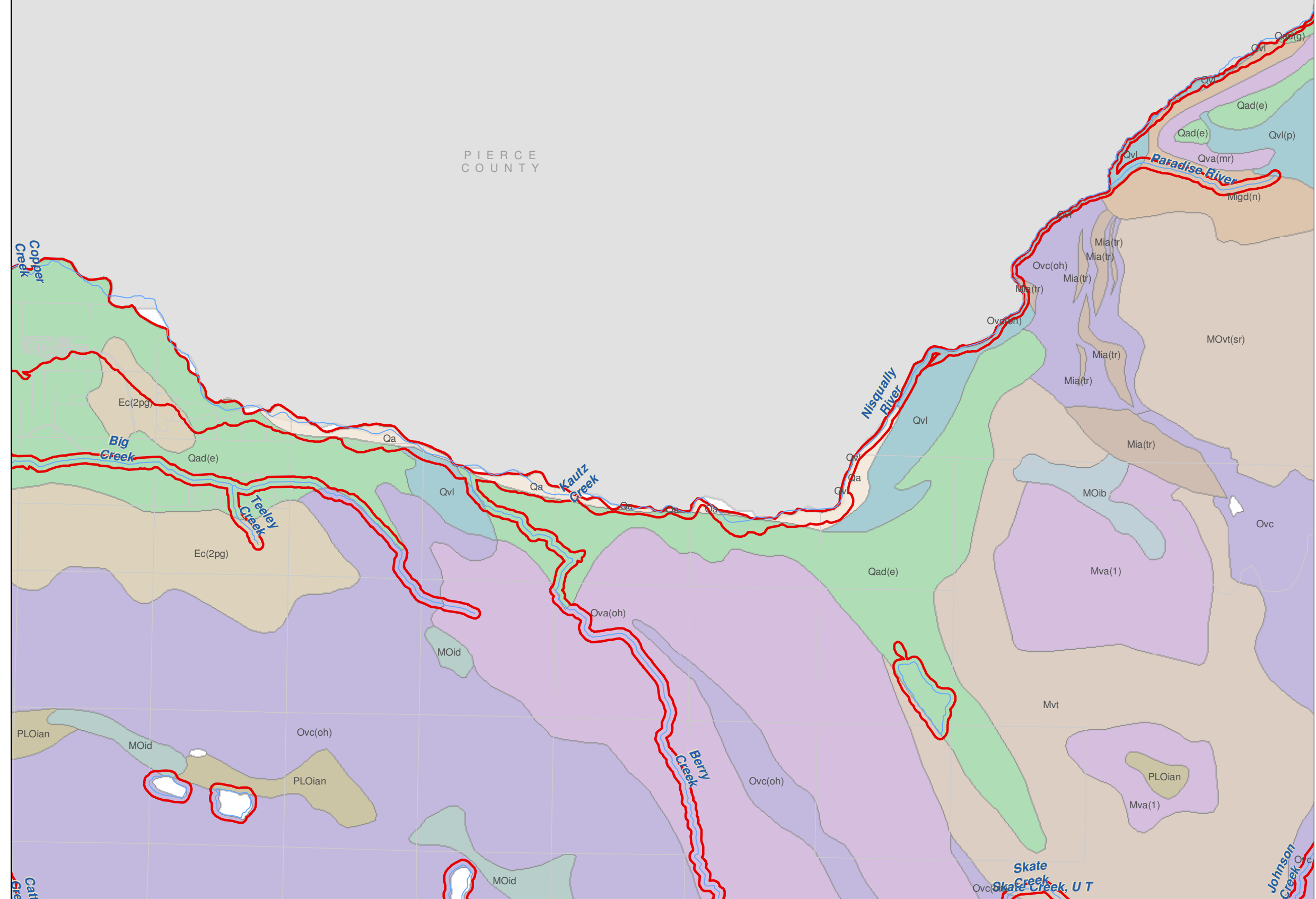
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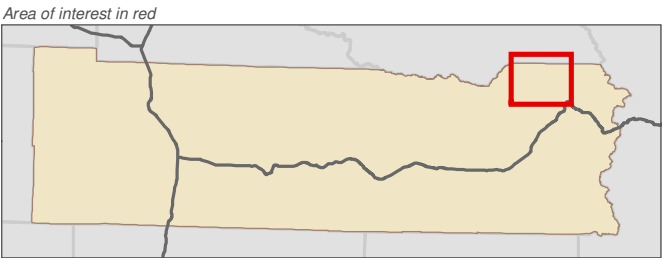
Map 10A - Surficial Geology
Figure 9

Date: 6/3/2014

Surficial Geology

- Acidic intrusive rocks
- Alluvium
- Alpine glacial drift, Fraser-age
- Andesite flows
- Basalt flows
- Gabbro
- Granodiorite
- Intrusive andesite
- Lahars
- Mass-wasting deposits, mostly landslides
- Quartz monzonite
- Tuffs and tuff breccias
- Volcaniclastic deposits or rocks
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA
- SMA Rivers & Streams

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Miles
1:48,000

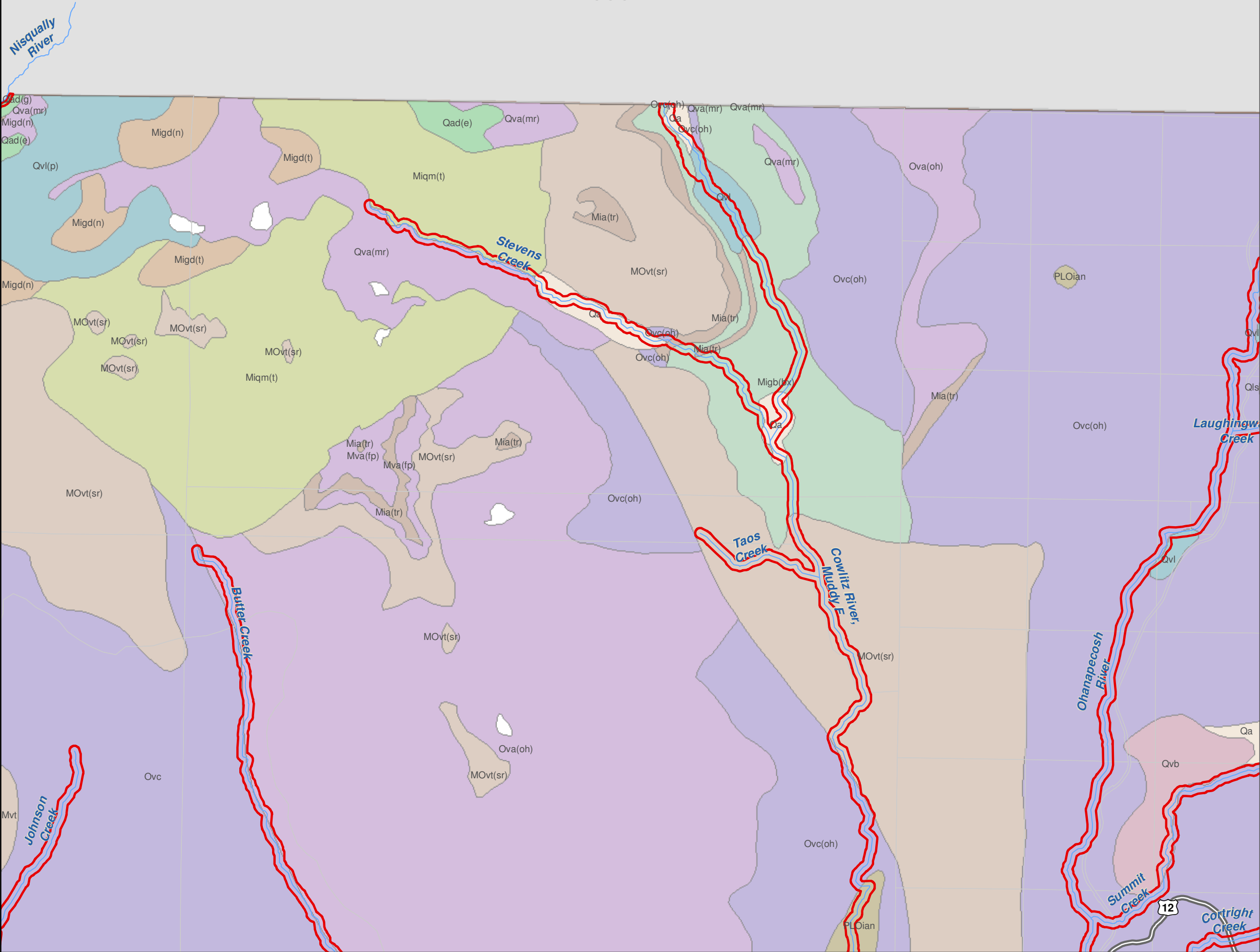


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Map 10A - Surficial Geology
Figure 10

Date: 6/3/2014

Surficial Geology

- Acidic intrusive rocks

Alluvium

Alpine glacial drift, Fraser-age

Andesite flows

Basalt flows

Basaltic andesite flows

Continental sedimentary deposits or rocks

Dacite flows

Diorite

Granodiorite

Lahars

Marine sedimentary rocks
- Mass-wasting deposits, mostly landslides

Quartz diorite

Talus deposits

Volcaniclastic deposits or rocks

SMA Rivers & Streams

SMA Lakes

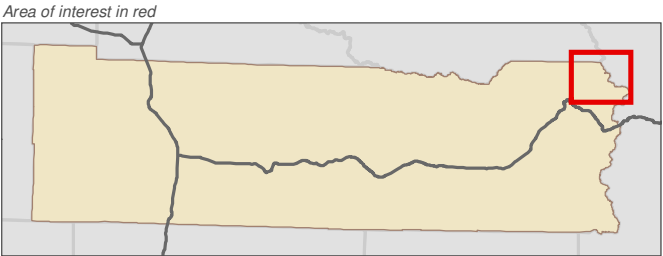
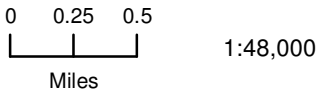
Highways

Parcels

SMA Jurisdiction

City

UGA



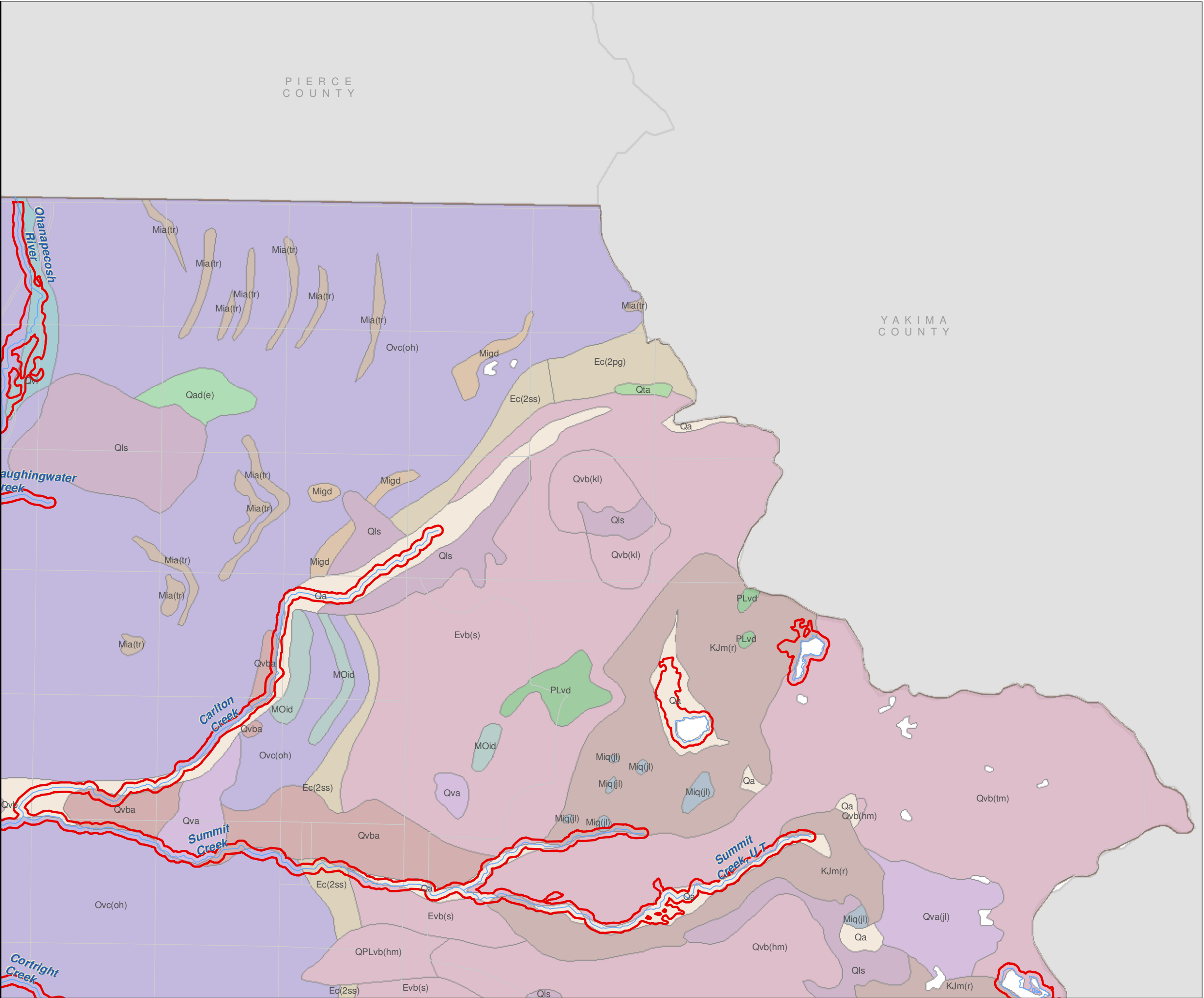
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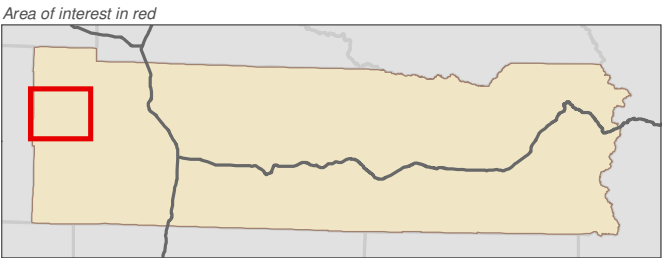
Map 10A - Surficial Geology
Figure 11

Date: 6/3/2014

Surficial Geology

- Alluvium
- Basalt flows (Grande Ronde Basalt, upper flows of norm.mag.pol.)
- Basalt flows and flow breccias, Crescent Formation
- Continental sedimentary deposits or rocks
- Marine sedimentary rocks
- Mass-wasting deposits, mostly landslides
- Nearshore sedimentary rocks
- Terraced deposits
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA

0 0.25 0.5
Miles
1:48,000



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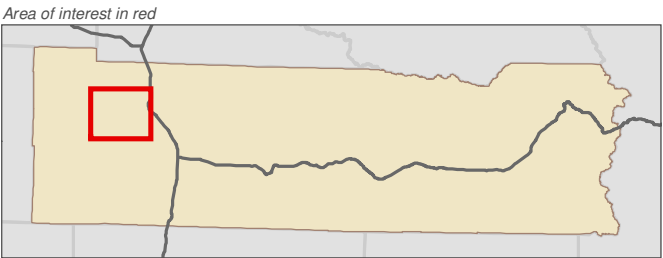
Map 10A - Surficial Geology
Figure 12

Date: 6/3/2014

Surficial Geology

- Alluvium
- Alpine glacial outwash, pre-Fraser
- Basalt flows (Grande Ronde Basalt, undivided [CRB])
- Basalt flows (Grande Ronde Basalt, upper flows of norm.mag.pol.)
- Continental sedimentary deposits or rocks
- Marine sedimentary rocks
- Mass-wasting deposits, mostly landslides
- Nearshore sedimentary rocks
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA

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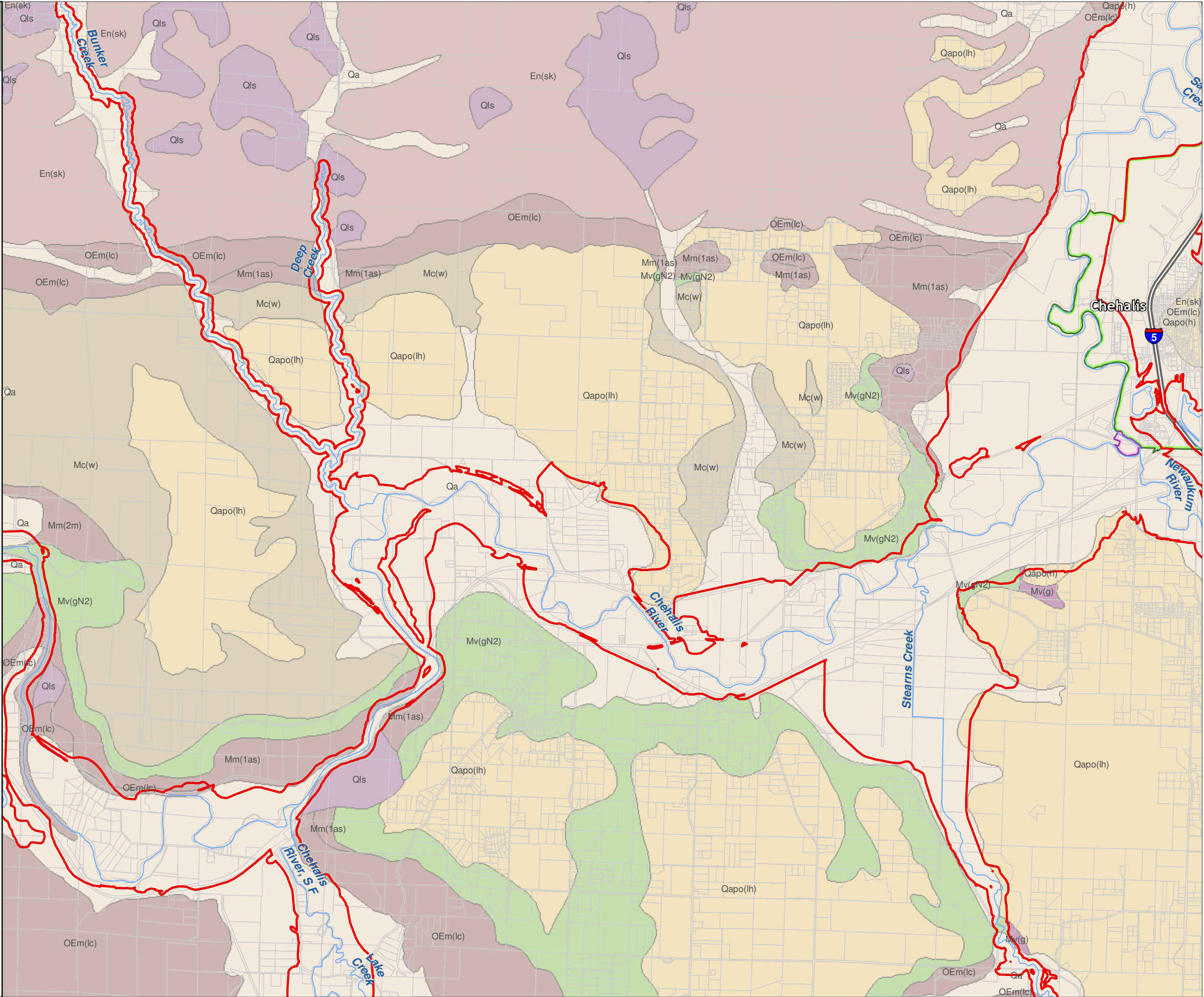


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City of Morton City of Winlock



Lewis County, Washington
Shoreline Master Program

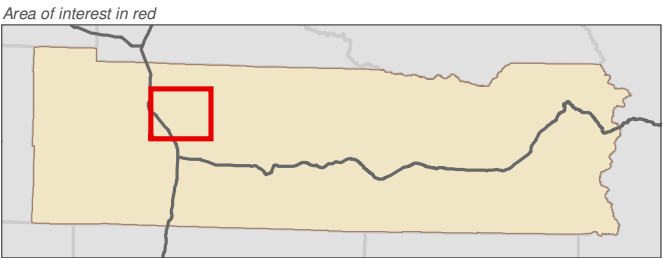
Map 10A - Surficial Geology
Figure 13

Date: 6/3/2014

Surficial Geology

- Alluvium
- Alpine glacial outwash, pre-Fraser
- Continental sedimentary deposits or rocks
- Marine sedimentary rocks
- Mass-wasting deposits, mostly landslides
- Nearshore sedimentary rocks
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA

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Miles
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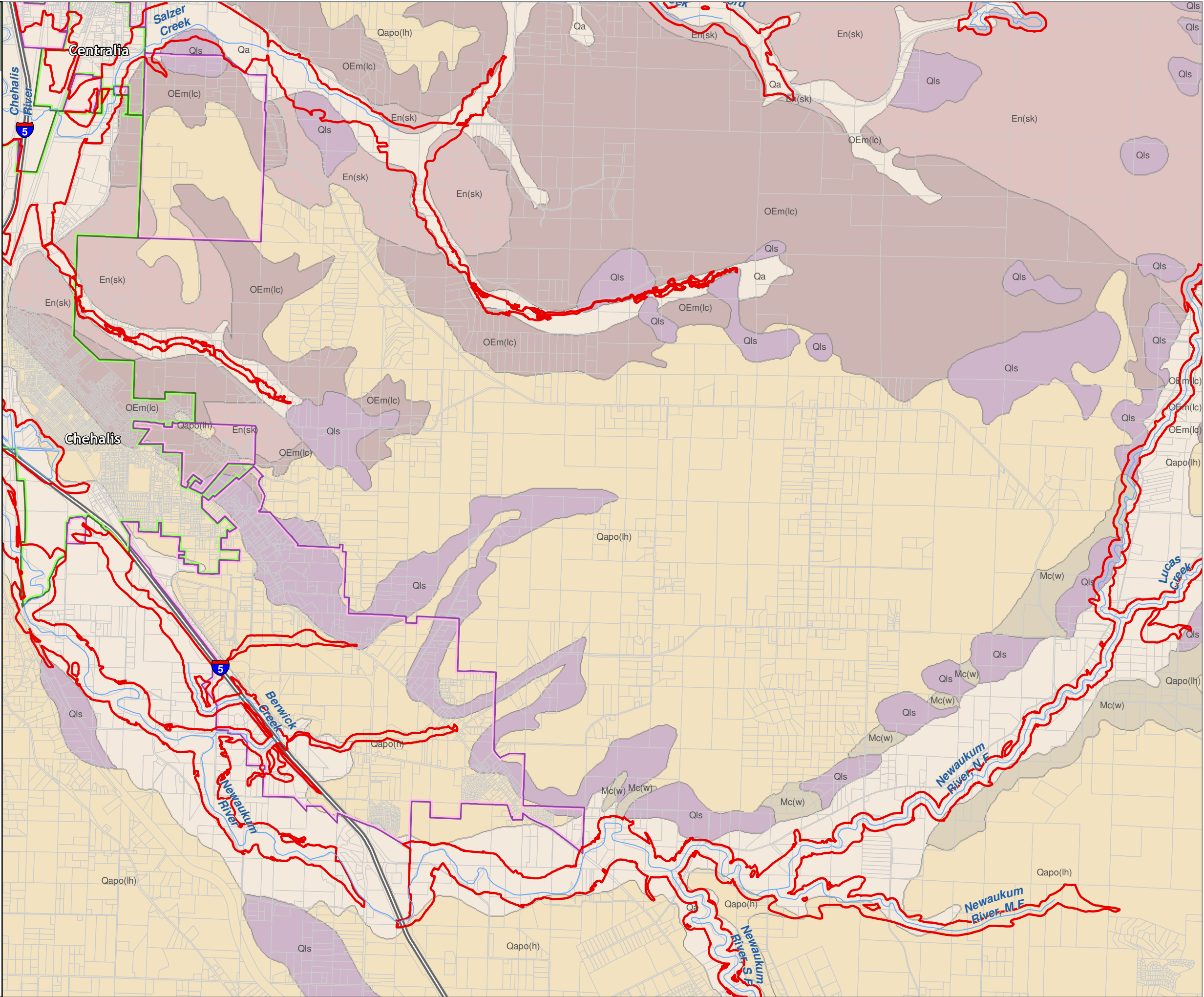


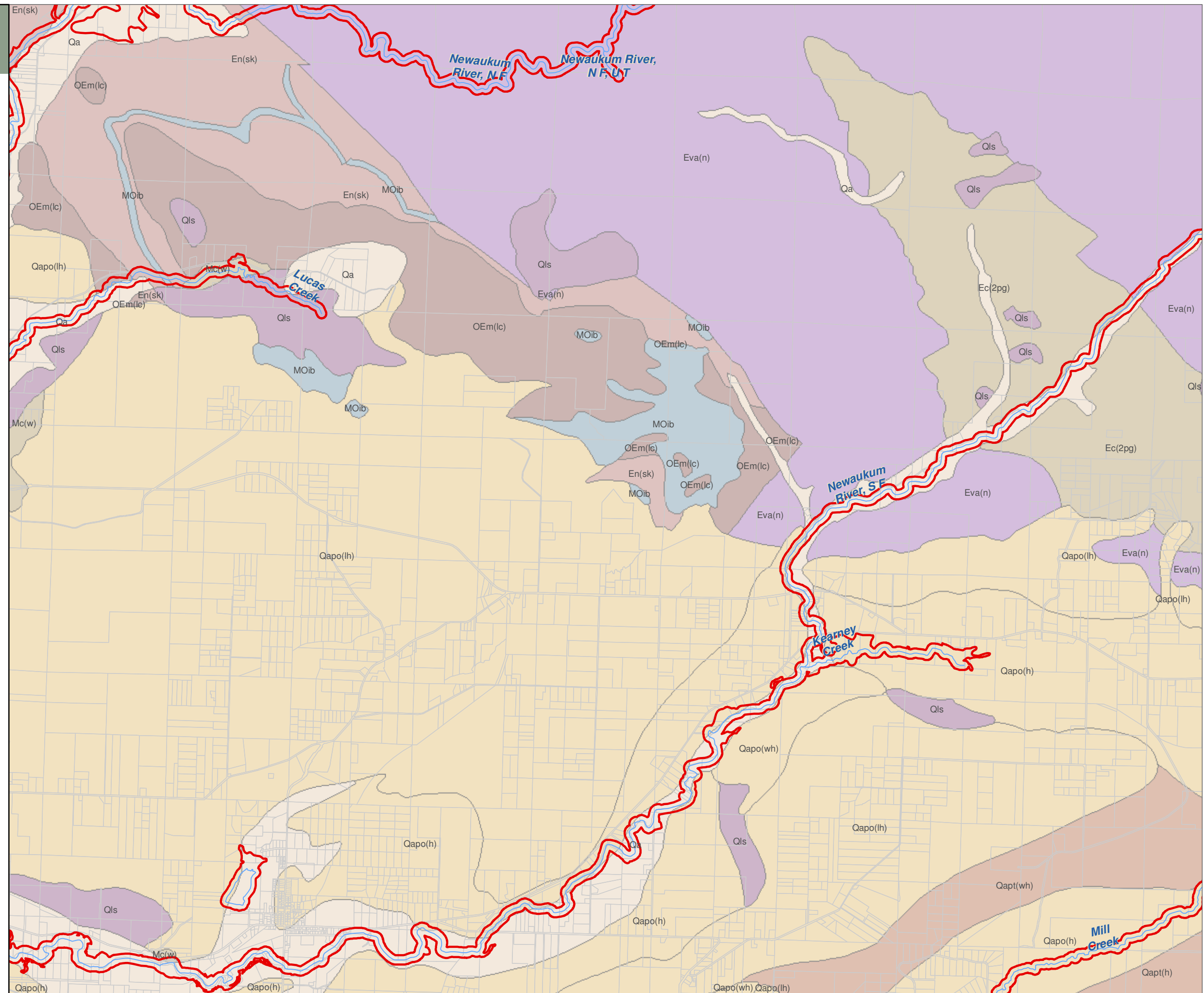
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Map 10A - Surficial Geology
Figure 15

Date: 6/3/2014

Surficial Geology

- Alluvium

Alpine glacial outwash, Fraser-age

Alpine glacial outwash, pre-Fraser

Alpine glacial till, pre-Fraser

Andesite flows

Basaltic andesite flows

Continental sedimentary deposits or rocks

Mass-wasting deposits, mostly landslides

Volcaniclastic deposits or rocks

SMA Rivers & Streams

SMA Lakes
- Highways

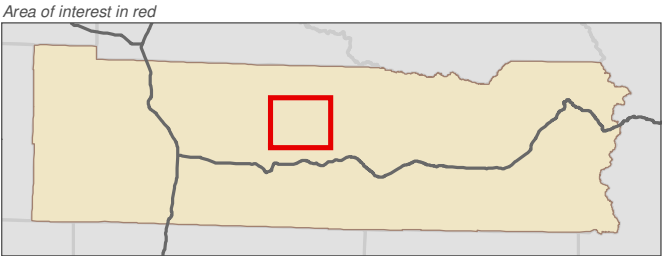
Parcels

SMA Jurisdiction

City

UGA

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Miles
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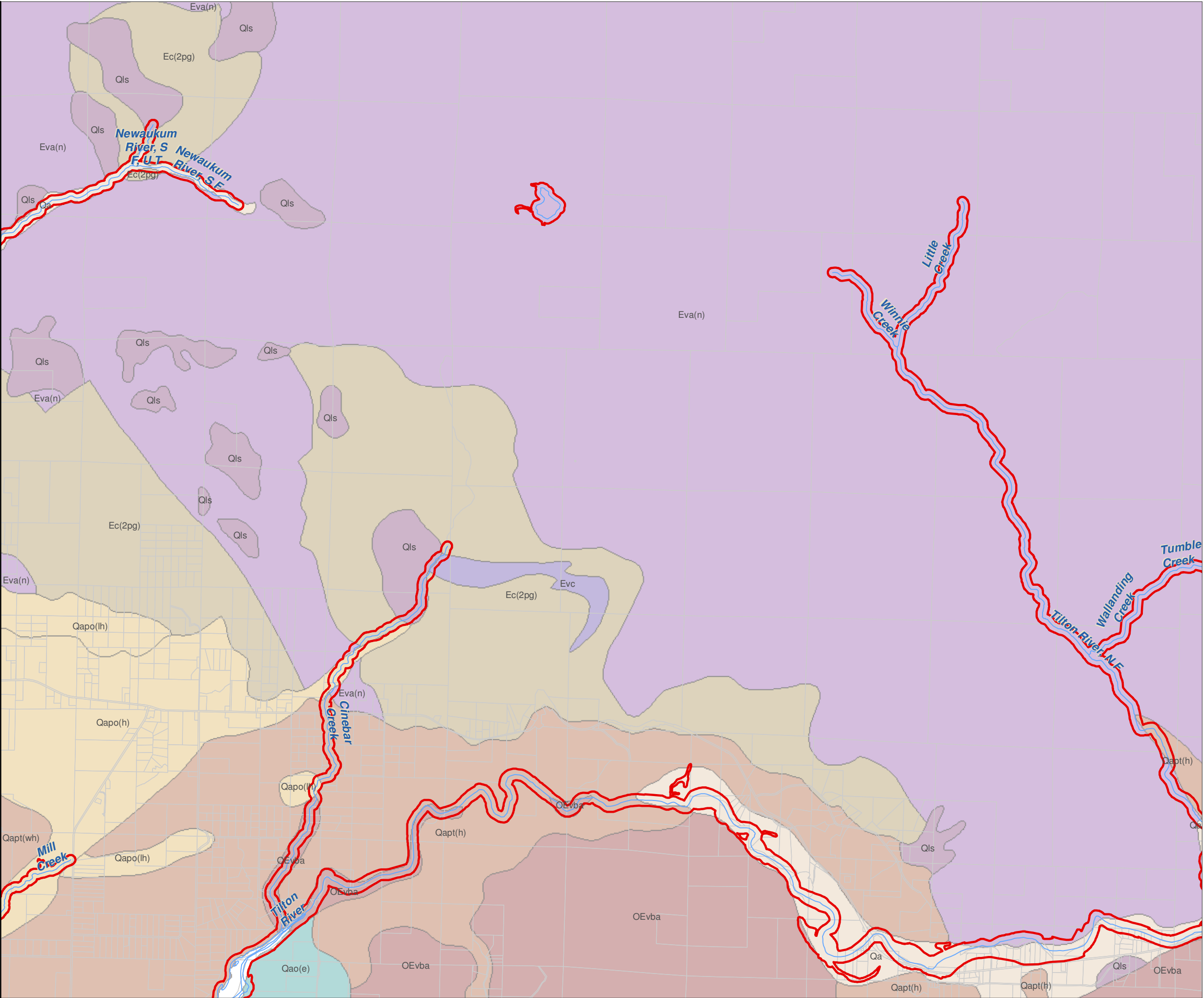


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Lewis County Coalition



City of Morton City of Winlock



Lewis County, Washington
Shoreline Master Program

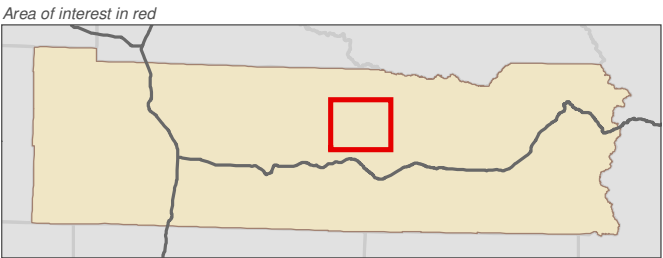
Map 10A - Surficial Geology
Figure 16

Date: 6/3/2014

Surficial Geology

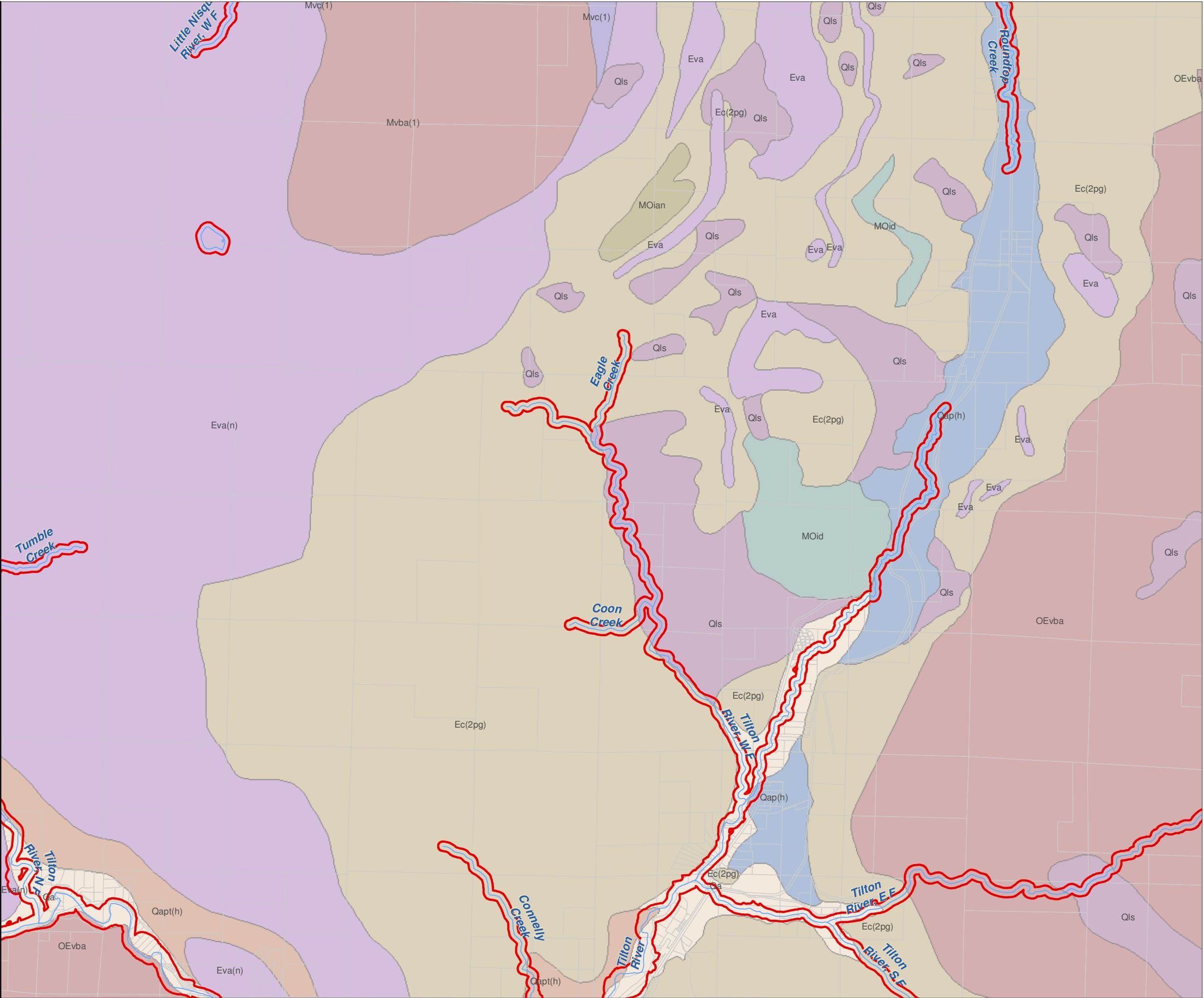
- Alluvium
- Alpine glacial drift, pre-Fraser
- Alpine glacial till, pre-Fraser
- Andesite flows
- Basaltic andesite flows
- Continental sedimentary deposits or rocks
- Diorite
- Intrusive andesite
- Mass-wasting deposits, mostly landslides
- Volcaniclastic deposits or rocks
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA

0 0.25 0.5
Miles
1:48,000



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Shoreline Master Program

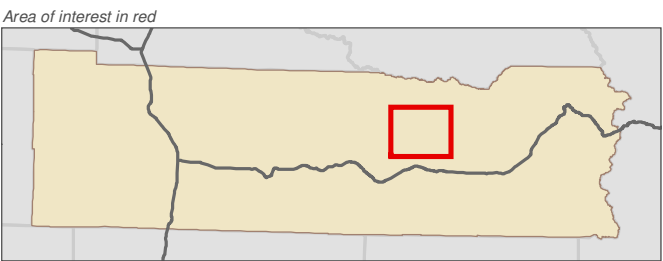
Map 10A - Surficial Geology
Figure 17

Date: 6/3/2014

Surficial Geology

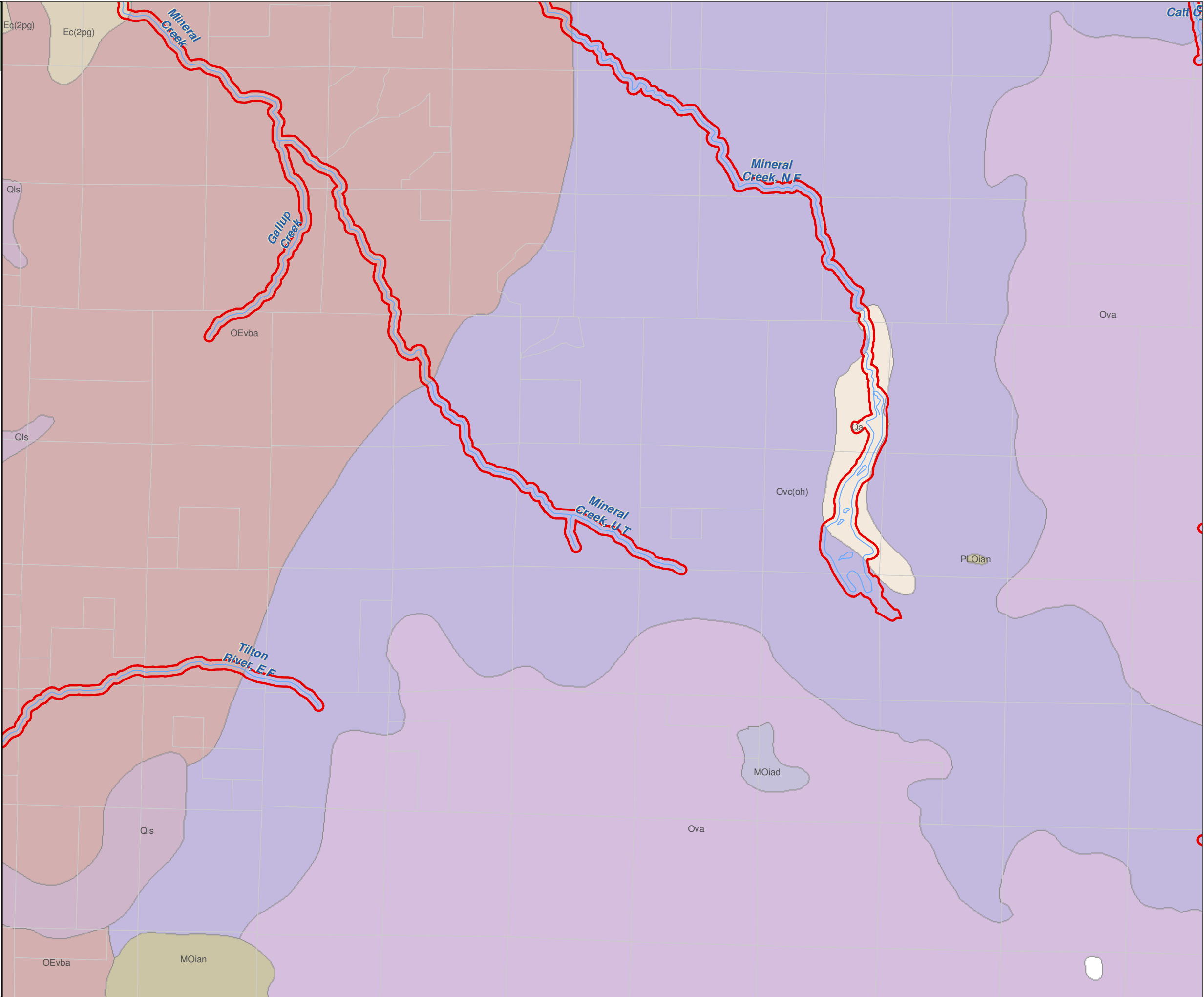
- Alluvium
- Andesite flows
- Basaltic andesite flows
- Continental sedimentary deposits or rocks
- Intrusive andesite
- Intrusive andesite and dacite
- Mass-wasting deposits, mostly landslides
- Volcaniclastic deposits or rocks
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA

0 0.25 0.5
Miles
1:48,000



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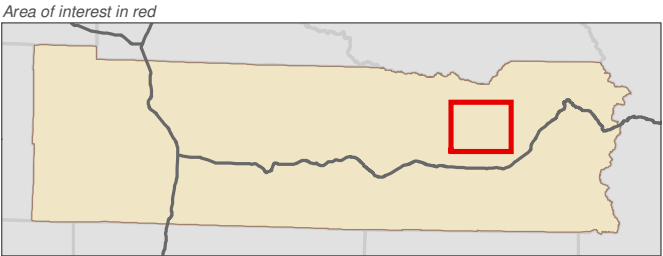
Map 10A - Surficial Geology
Figure 18

Date: 6/3/2014

Surficial Geology

- Alluvium
- Andesite flows
- Continental sedimentary deposits or rocks
- Diorite
- Granodiorite
- Intrusive andesite
- Intrusive andesite and dacite
- Mass-wasting deposits, mostly landslides
- Tuffs and tuff breccias
- Volcaniclastic deposits or rocks
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA

0 0.25 0.5
Miles
1:48,000

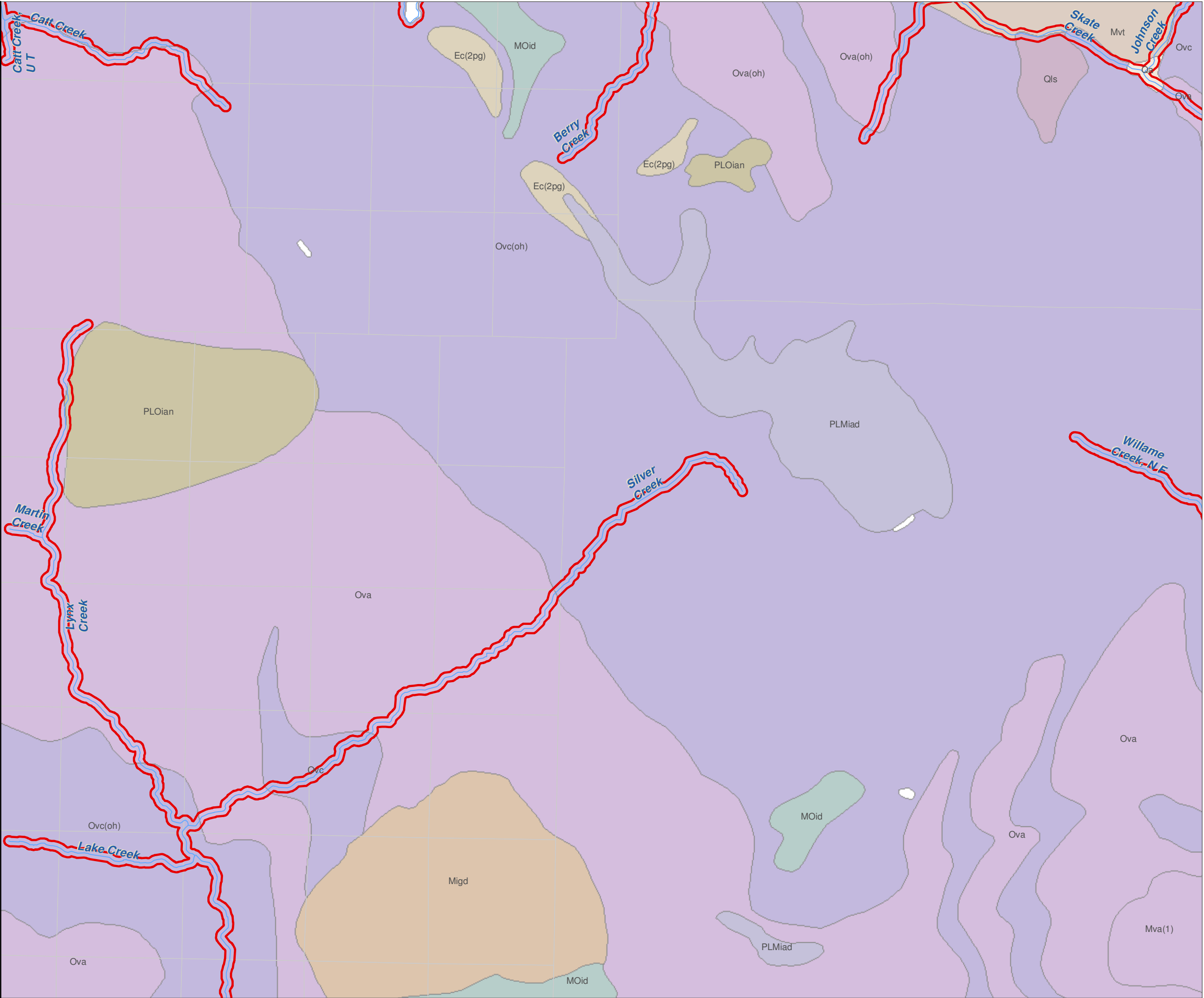


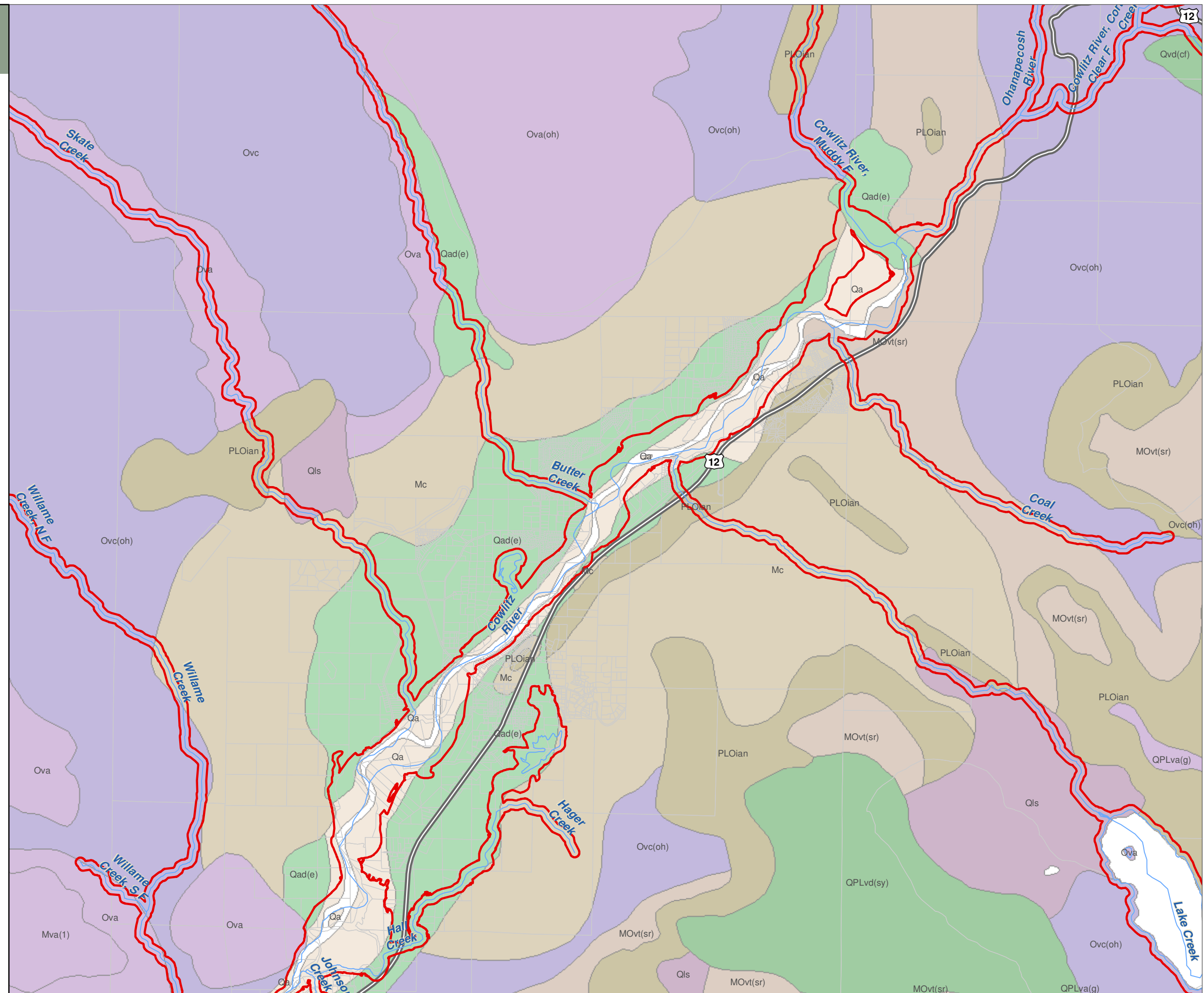
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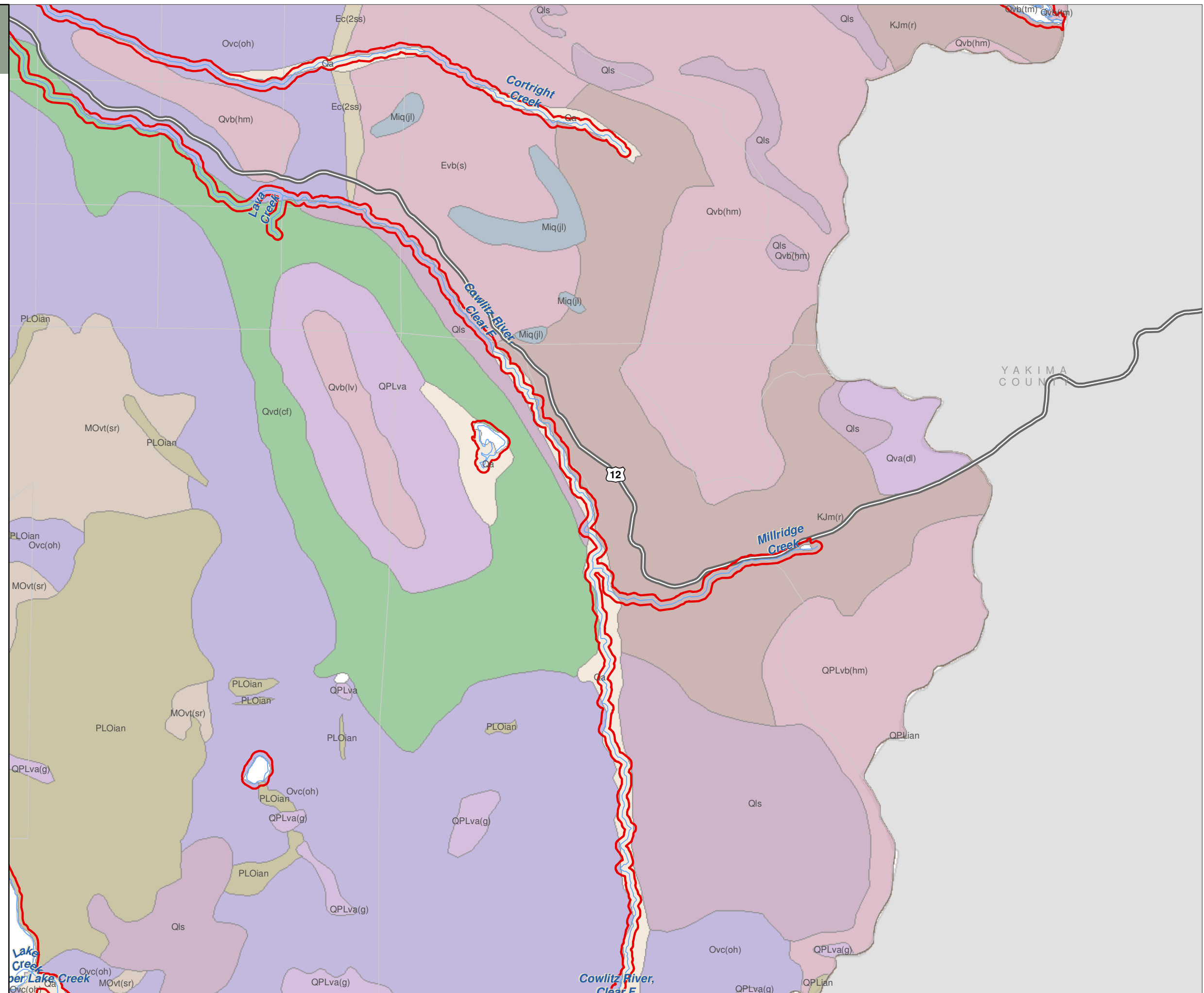
Lewis County Coalition



City of Morton City of Winlock







Lewis County, Washington
Shoreline Master Program

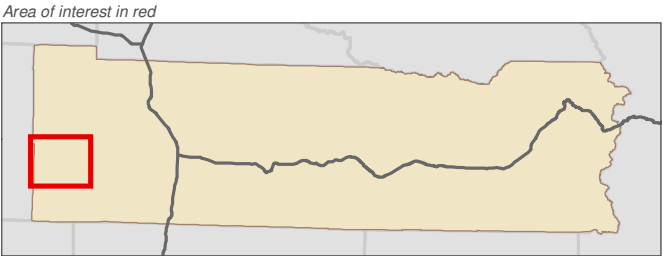
Map 10A - Surficial Geology
Figure 21

Date: 6/3/2014

Surficial Geology

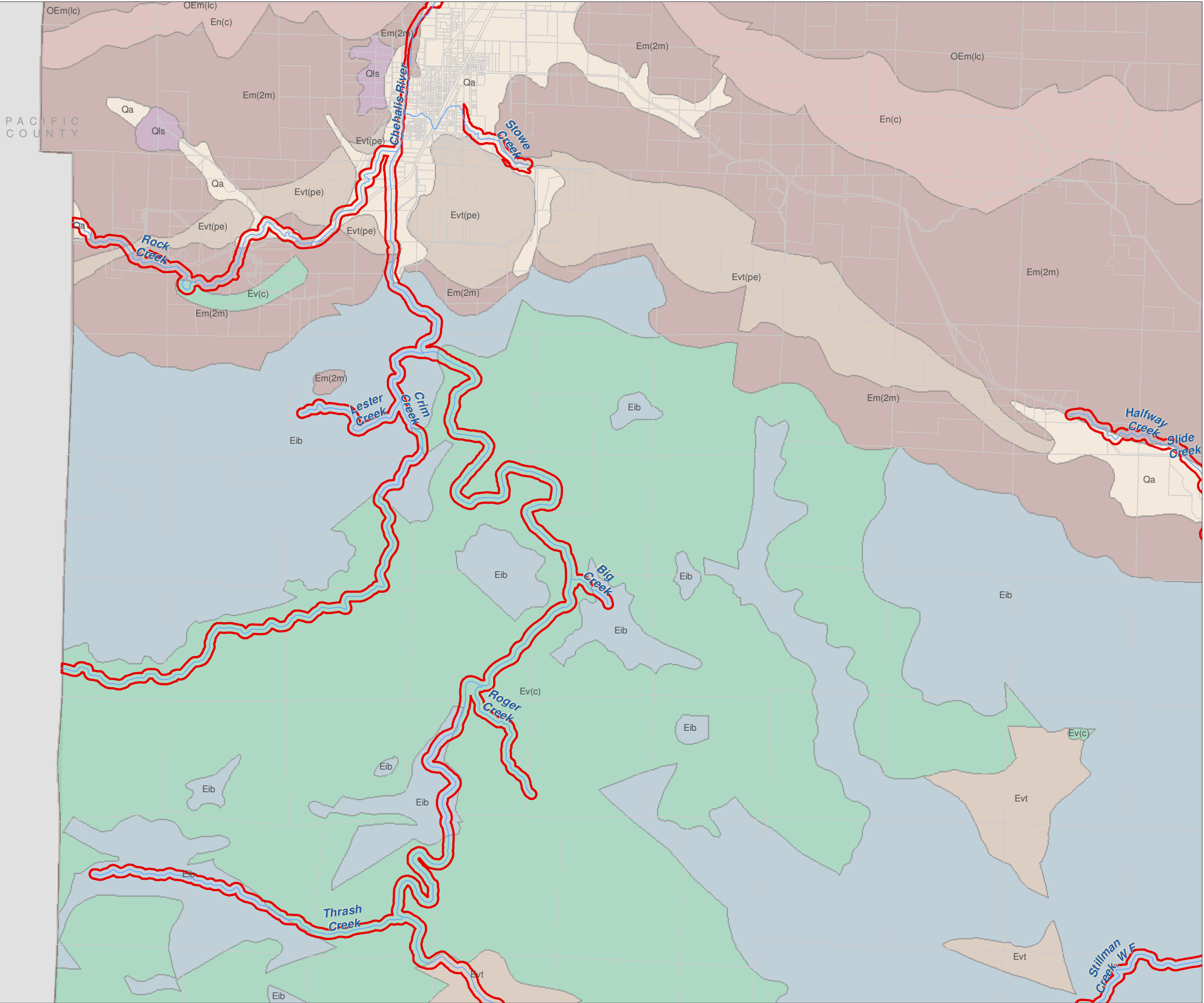
- Alluvium
- Basalt flows and flow breccias, Crescent Formation
- Basic intrusive rocks
- Marine sedimentary rocks
- Mass-wasting deposits, mostly landslides
- Nearshore sedimentary rocks
- Tuffs and tuff breccias
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA

0 0.25 0.5
Miles
1:48,000



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Map 10A - Surficial Geology
Figure 22

Date: 6/3/2014

Surficial Geology

- Alluvium

Alpine glacial drift, pre-Fraser

Alpine glacial outwash, pre-Fraser

Basalt flows (Grande Ronde Basalt, undivided [CRB])

Basalt flows (Grande Ronde Basalt, upper flows of norm.mag.pol.)

Basalt flows and flow breccias, Crescent Formation

Basic intrusive rocks

Marine sedimentary rocks

Mass-wasting deposits, mostly landslides

Nearshore sedimentary rocks

SMA Rivers & Streams

SMA Lakes

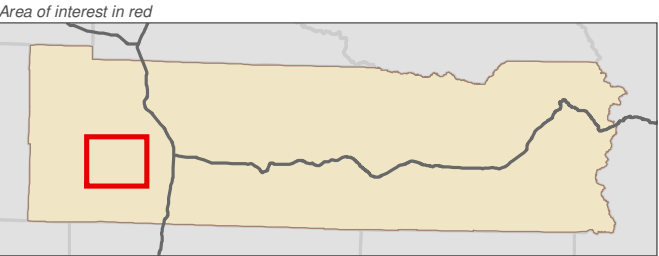
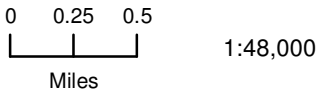
Highways

Parcels

SMA Jurisdiction

City

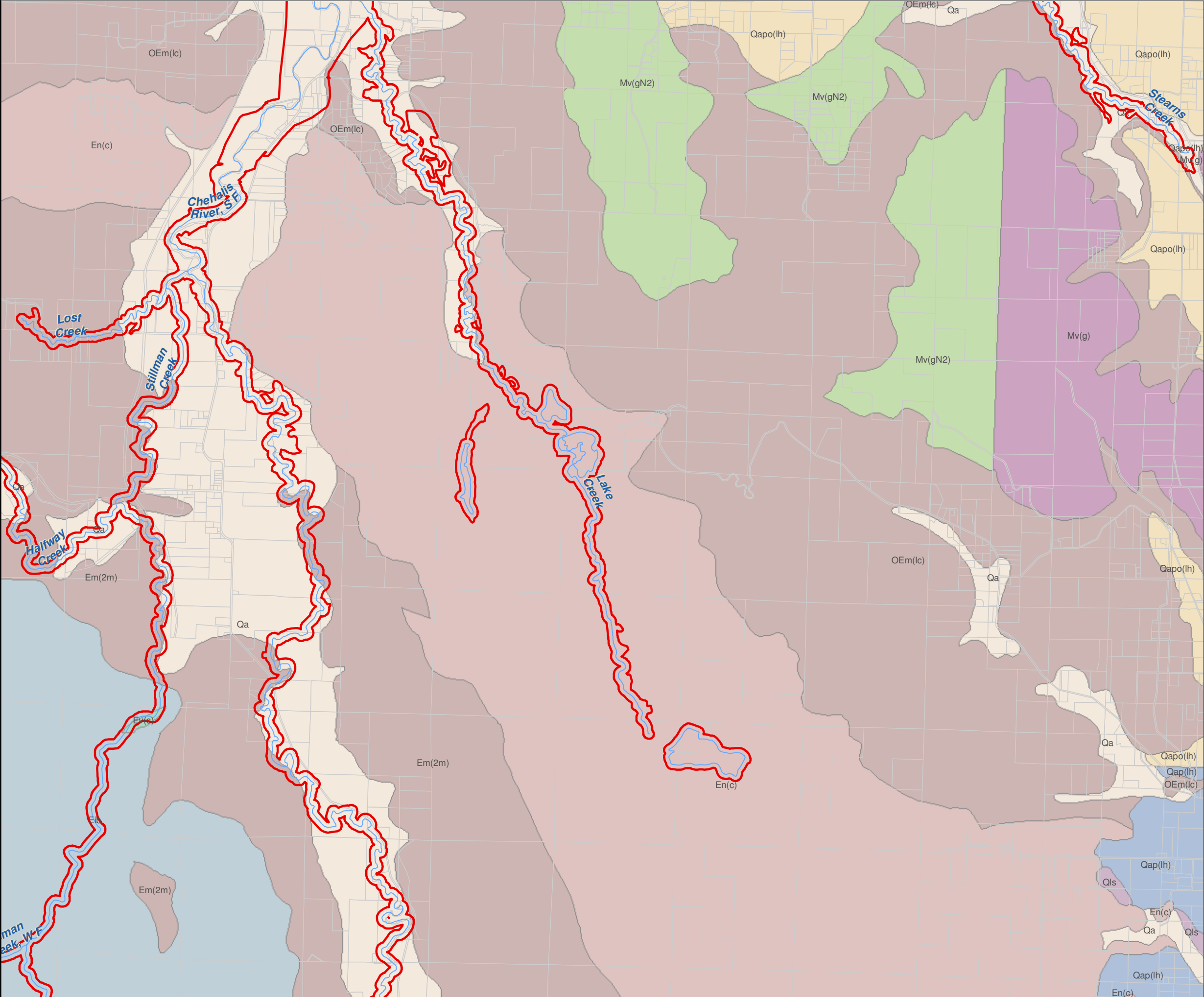
UGA



Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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Lewis County Coalition



Lewis County, Washington
Shoreline Master Program

Map 10A - Surficial Geology
Figure 23

Date: 6/3/2014

Surficial Geology

- Alluvium

Alpine glacial drift, pre-Fraser

Alpine glacial outwash, Fraser-age

Alpine glacial outwash, pre-Fraser

Basalt flows (Grande Ronde Basalt, undivided [CRB])

Continental sedimentary deposits or rocks

Marine sedimentary rocks

Mass-wasting deposits, mostly landslides

Nearshore sedimentary rocks
- SMA Rivers & Streams

SMA Lakes

Highways

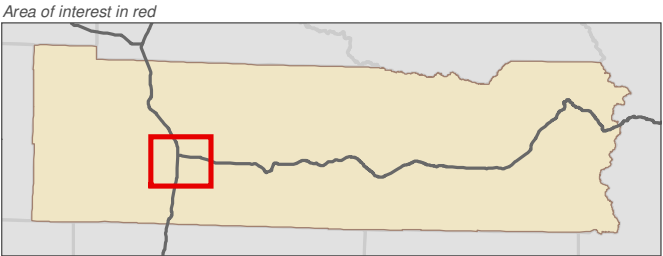
Parcels

SMA Jurisdiction

City

UGA

0 0.25 0.5
Miles
1:48,000



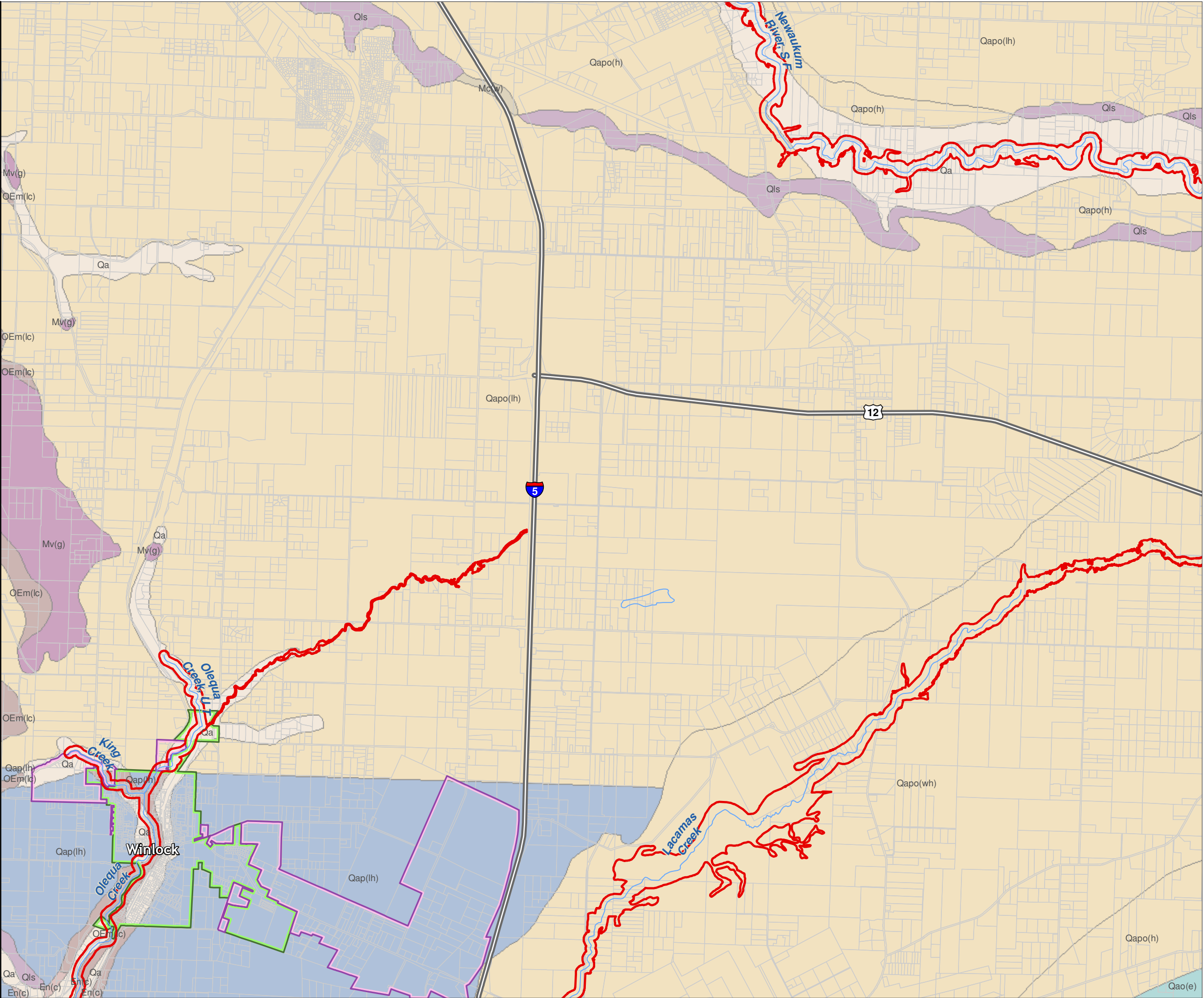
Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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Lewis County Coalition



City of Morton City of Winlock



Lewis County, Washington
Shoreline Master Program

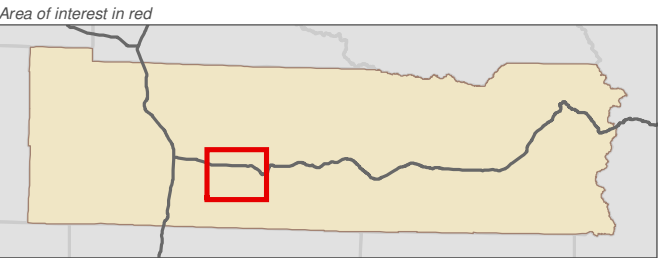
Map 10A - Surficial Geology
Figure 24

Date: 6/3/2014

Surficial Geology

- Alluvium
- Alpine glacial drift, pre-Fraser
- Alpine glacial outwash, Fraser-age
- Alpine glacial outwash, pre-Fraser
- Alpine glacial till, pre-Fraser
- Andesite flows
- Basaltic andesite flows
- Continental sedimentary deposits or rocks
- Mass-wasting deposits, mostly landslides
- Volcaniclastic deposits or rocks
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA

0 0.25 0.5
Miles
1:48,000

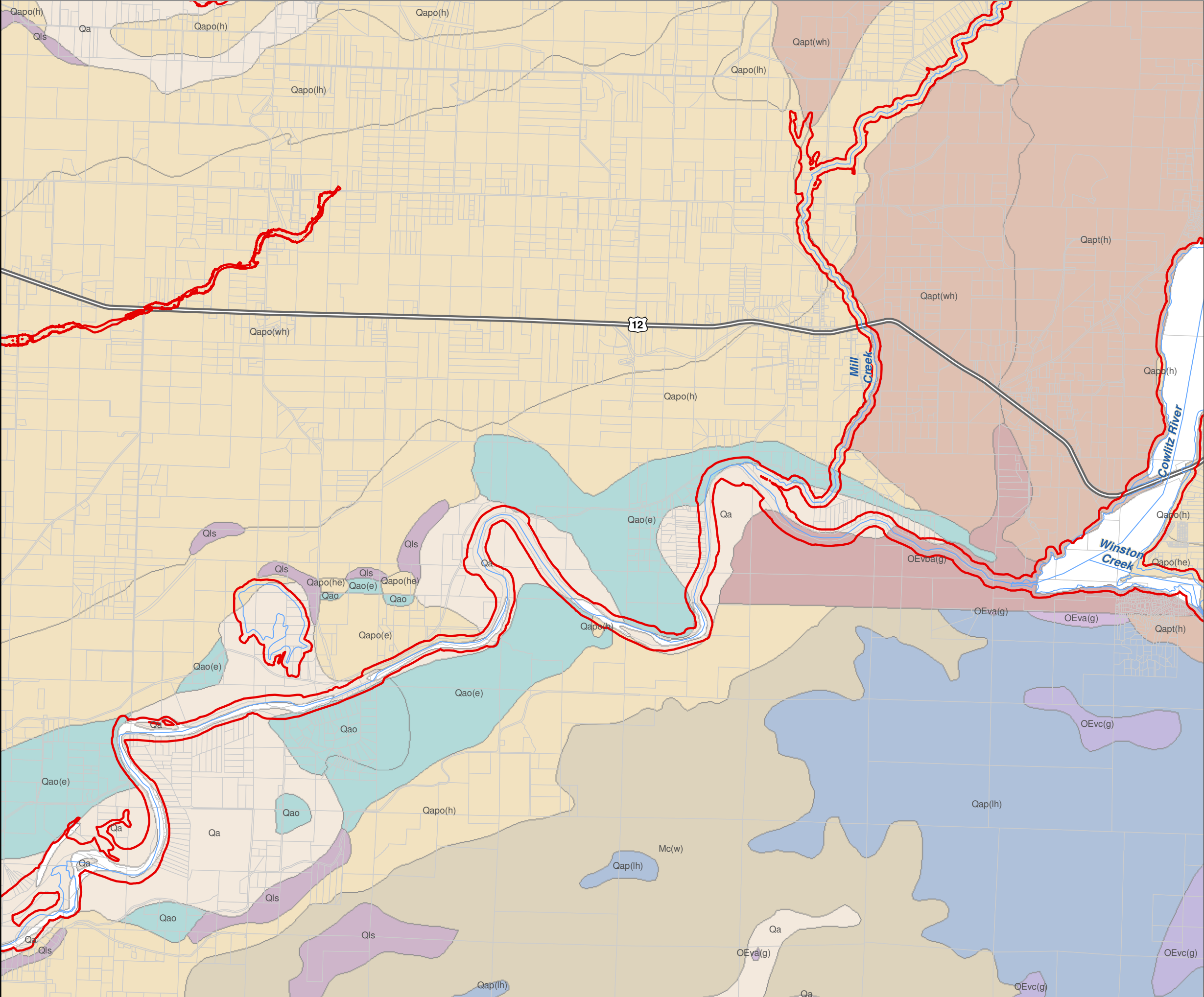


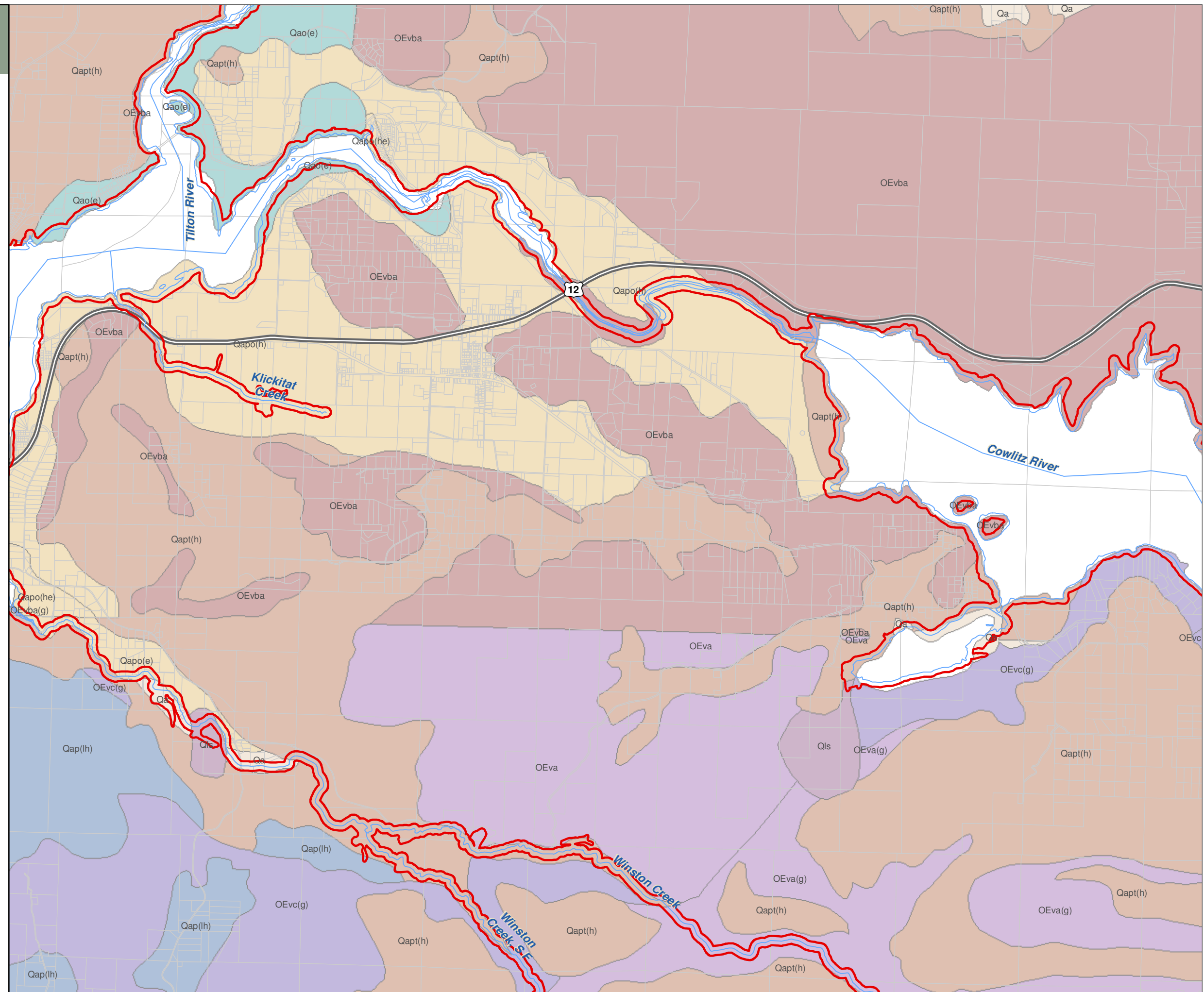
Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP
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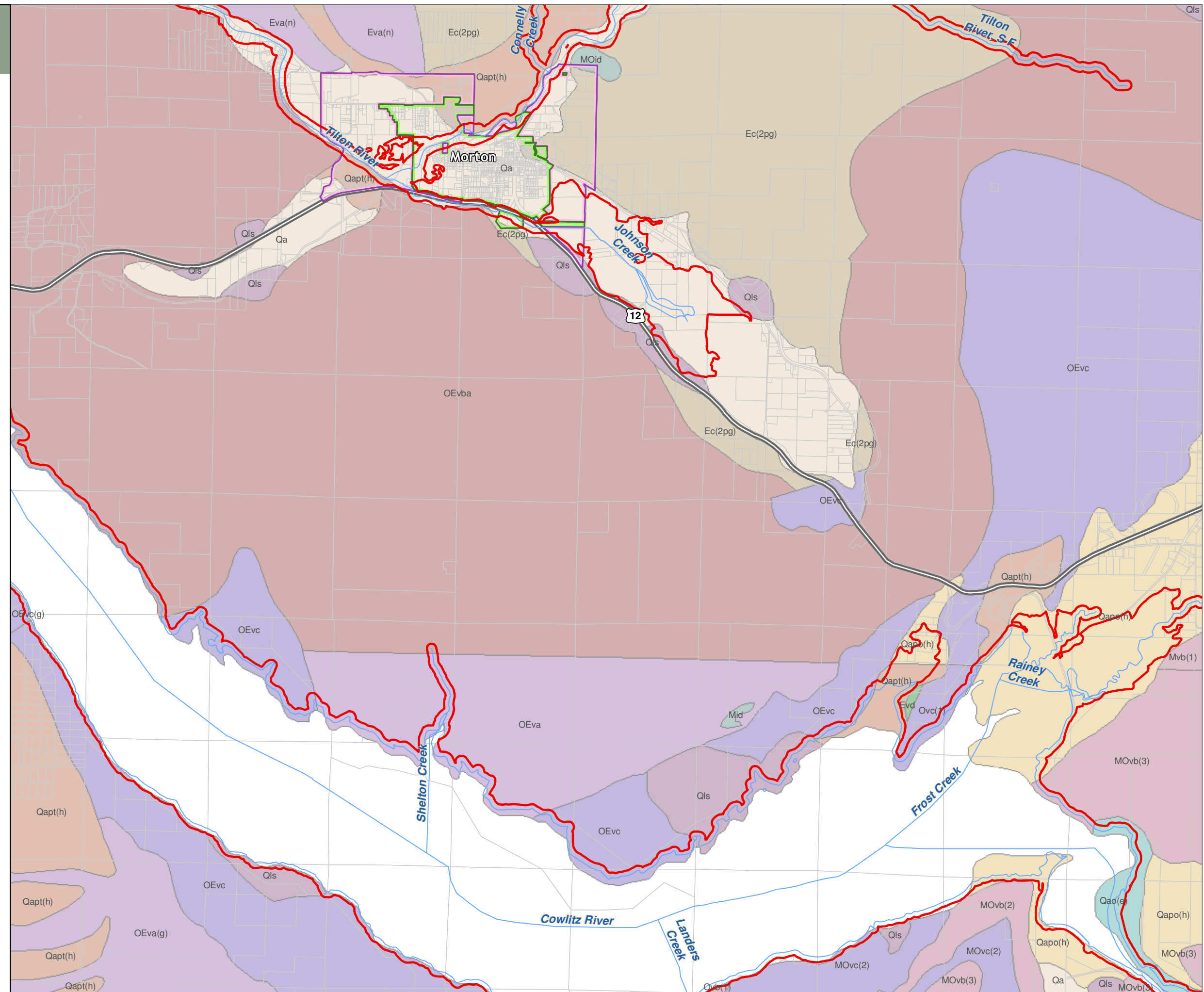
Lewis County Coalition

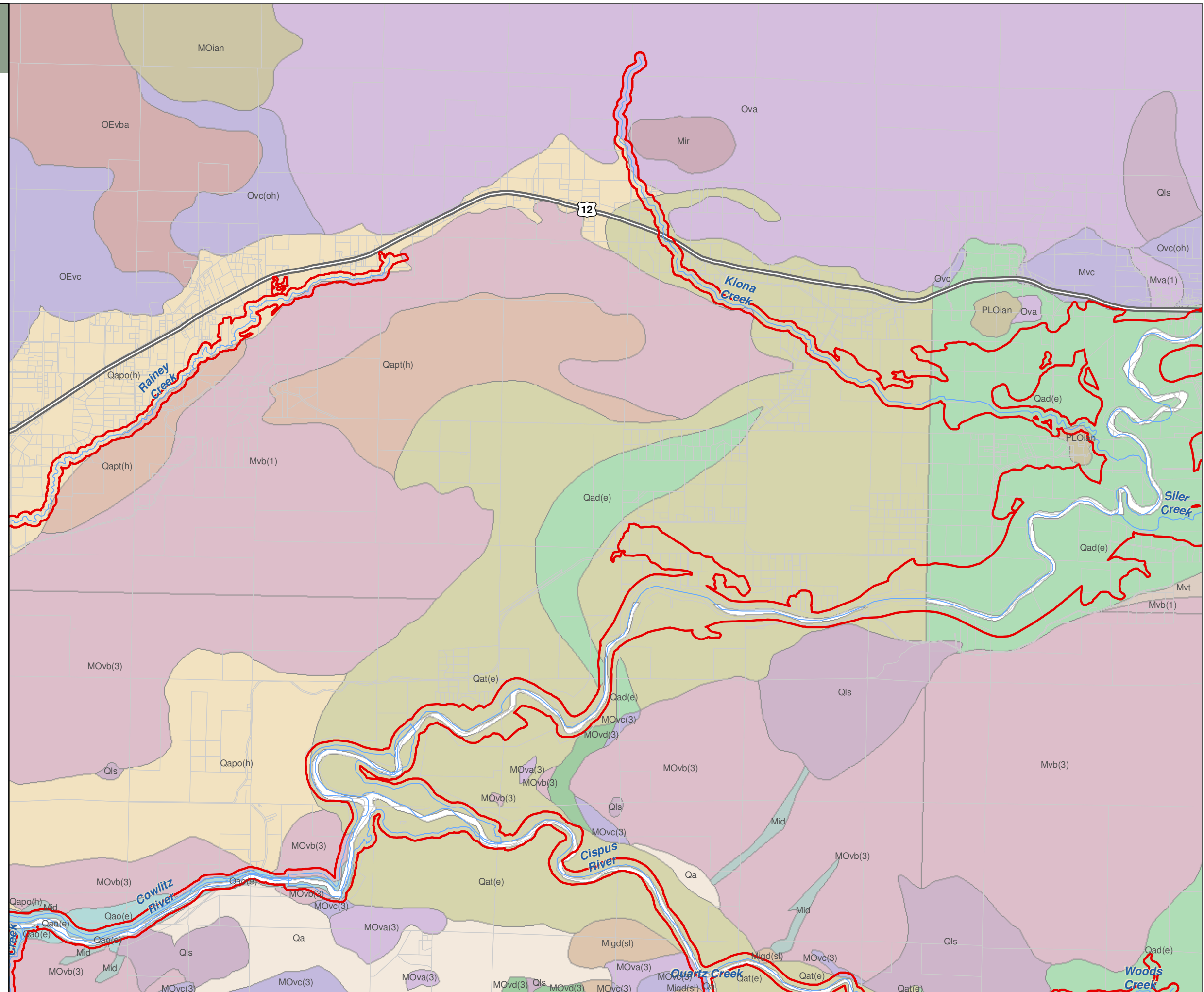


City of Morton City of Winlock









Lewis County, Washington
Shoreline Master Program

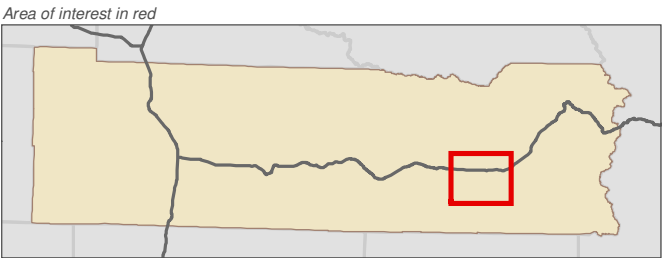
Map 10A - Surficial Geology
Figure 28

Date: 6/3/2014

Surficial Geology

- Alluvium
- Alpine glacial drift, Fraser-age
- Andesite flows
- Basalt flows
- Basaltic andesite flows
- Basic intrusive rocks
- Dacite flows
- Diorite
- Granodiorite
- Intrusive andesite
- Mass-wasting deposits, mostly landslides
- Tuffs and tuff breccias
- Volcaniclastic deposits or rocks
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA
- SMA Rivers & Streams

0 0.25 0.5
Miles
1:48,000



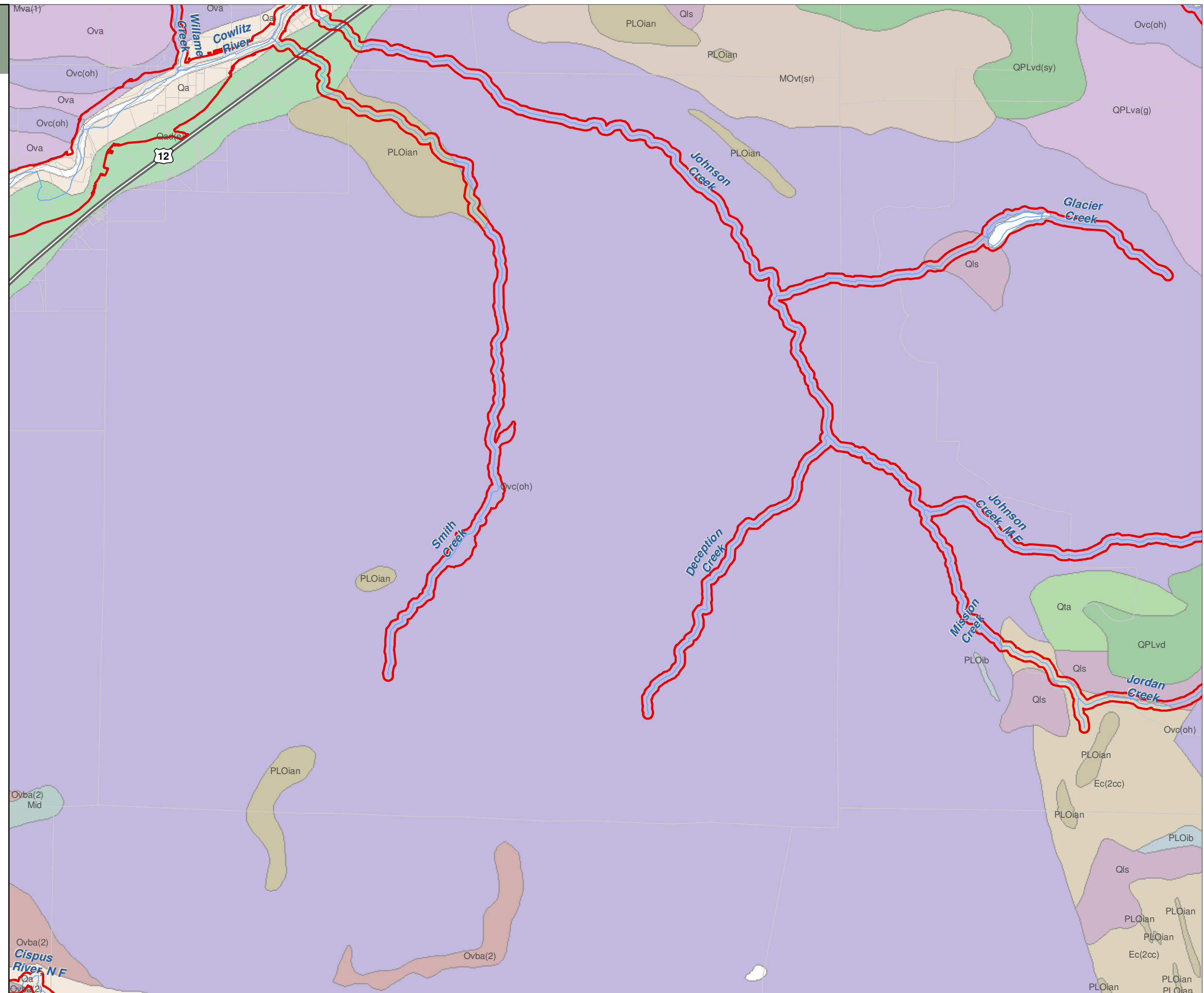
Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP
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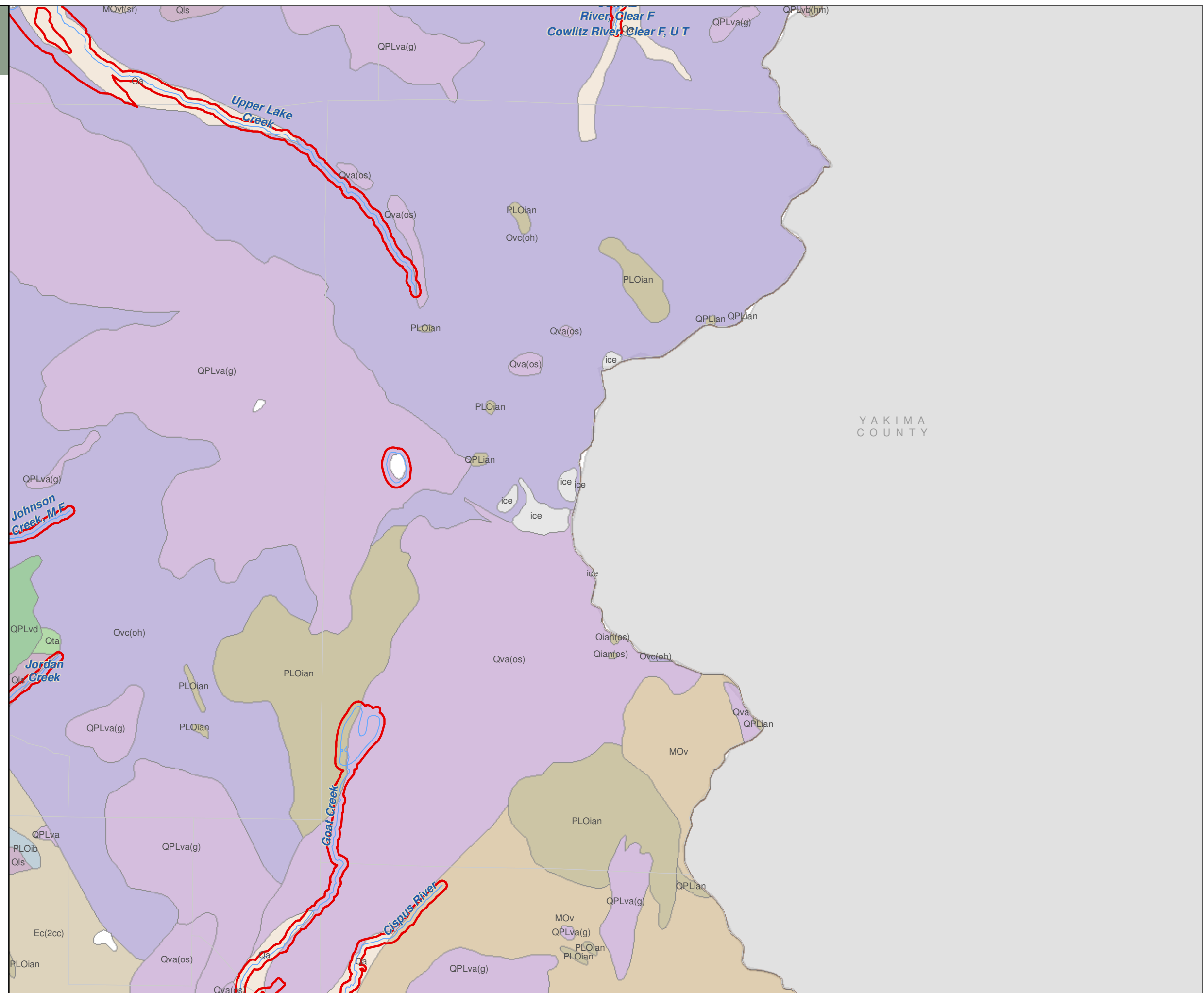
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City of Morton City of Winlock







Lewis County, Washington
Shoreline Master Program

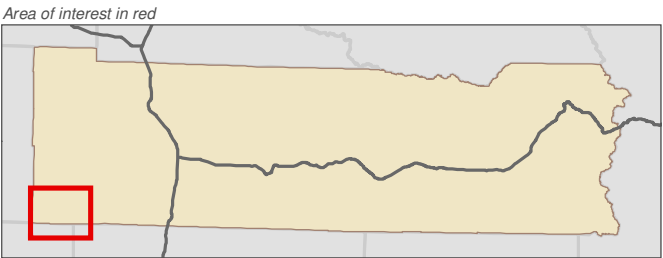
Map 10A - Surficial Geology
Figure 31

Date: 6/3/2014

Surficial Geology

- Basalt flows
- Basalt flows and flow breccias, Crescent Formation
- Basic intrusive rocks
- Marine sedimentary rocks
- Nearshore sedimentary rocks
- Tuffs and tuff breccias
- SMA Rivers & Streams
- SMA Lakes
- Highways
- Parcels
- SMA Jurisdiction
- City
- UGA

0 0.25 0.5
Miles
1:48,000

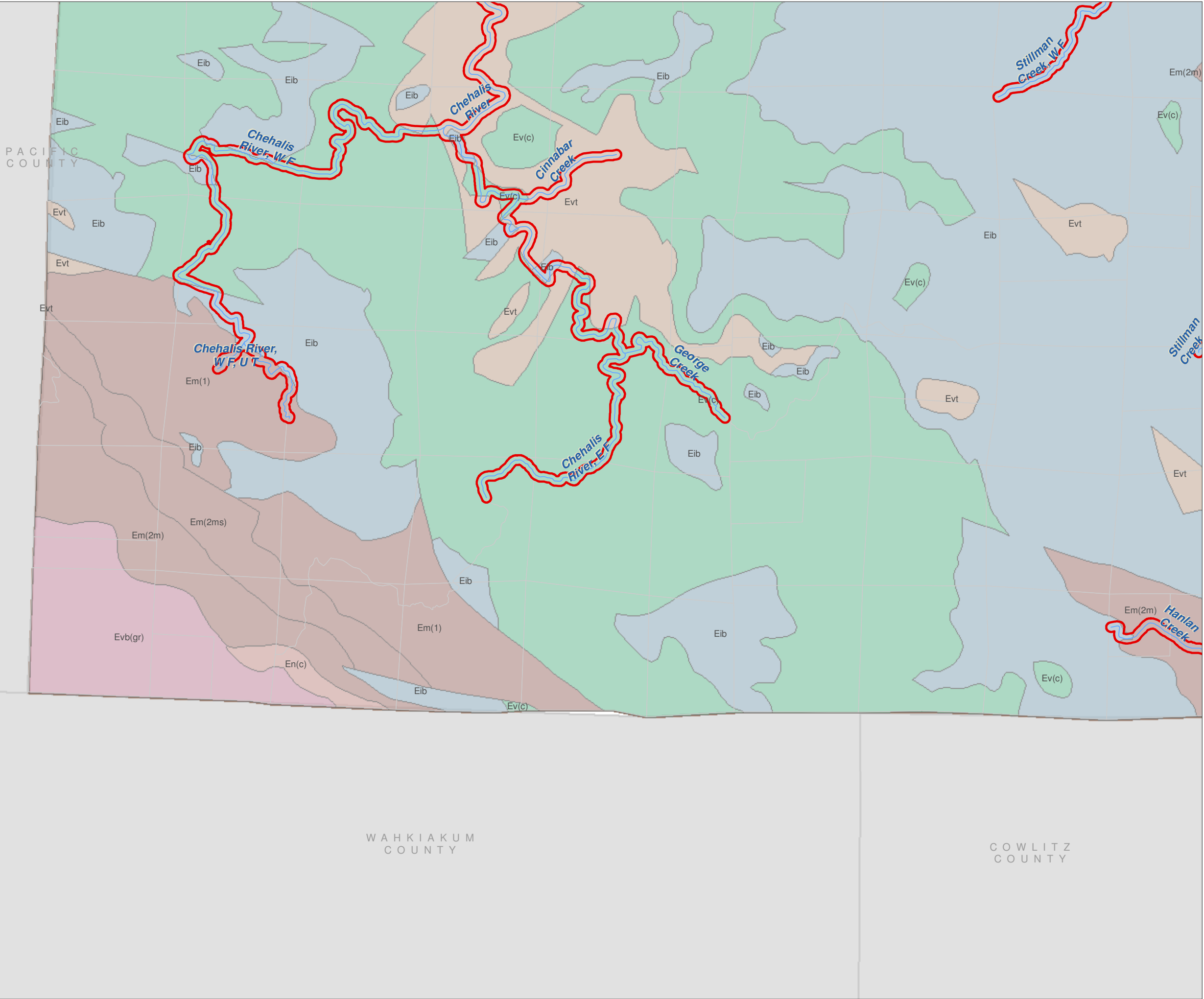


Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP
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Lewis County Coalition



City of Morton City of Winlock



Lewis County, Washington
Shoreline Master Program

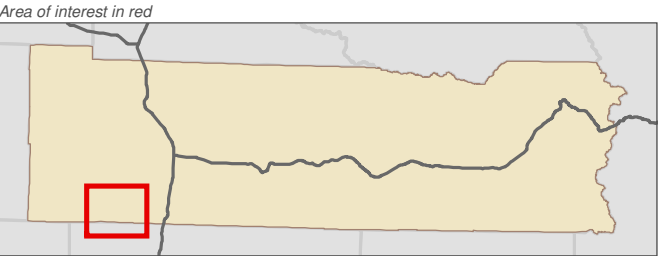
Map 10A - Surficial Geology
Figure 32

Date: 6/3/2014

Surficial Geology

- | | |
|---|----------------------|
| Alluvium | SMA Rivers & Streams |
| Alpine glacial drift, pre-Fraser | SMA Lakes |
| Basalt flows | Highways |
| Basalt flows (Grande Ronde Basalt, undivided [CRB]) | Parcels |
| Basalt flows and flow breccias, Crescent Formation | SMA Jurisdiction |
| Basic intrusive rocks | City |
| Marine sedimentary rocks | UGA |
| Mass-wasting deposits, mostly landslides | |
| Nearshore sedimentary rocks | |
| Tuffs and tuff breccias | |

0 0.25 0.5
Miles
1:48,000



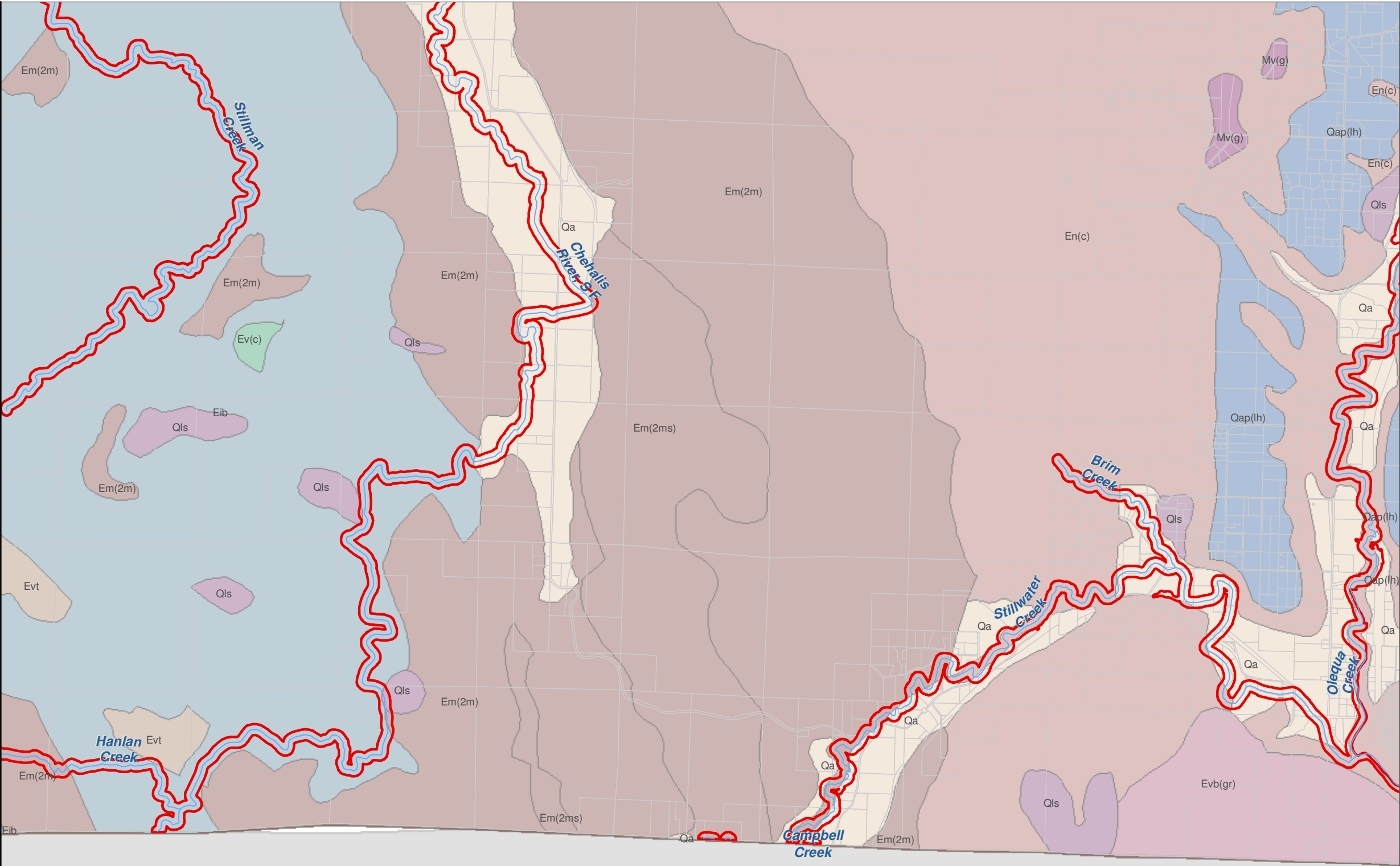
Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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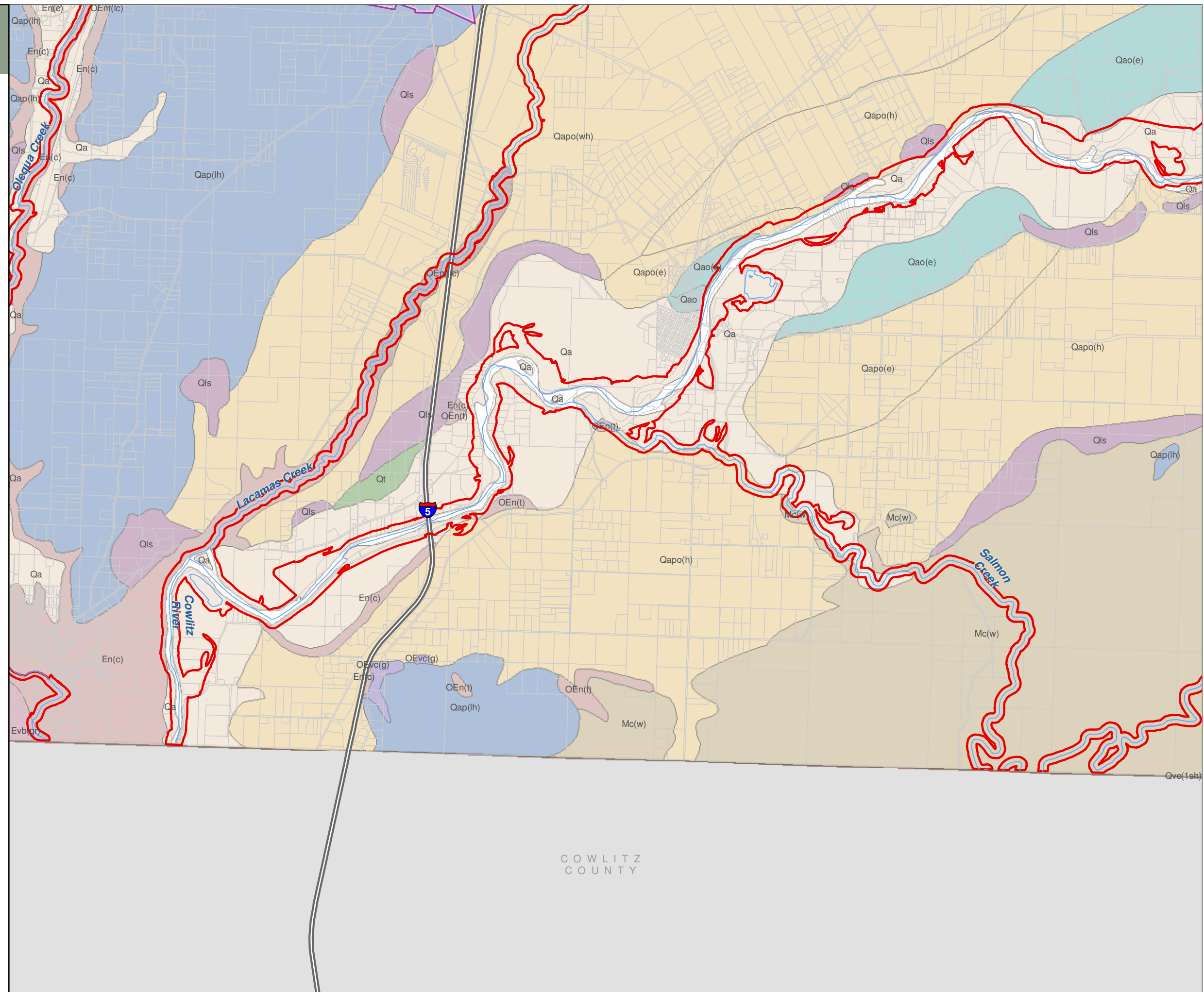
Lewis County Coalition



City of Morton City of Winlock



COWLITZ
COUNTY



Lewis County, Washington
Shoreline Master Program

Map 10A - Surficial Geology
Figure 34

Date: 6/3/2014

Surficial Geology

- Alluvium

Alpine glacial drift, pre-Fraser

Alpine glacial outwash, pre-Fraser

Andesite flows

Continental sedimentary deposits or rocks

Mass-wasting deposits, mostly landslides

Nearshore sedimentary rocks

Volcaniclastic deposits or rocks

SMA Rivers & Streams

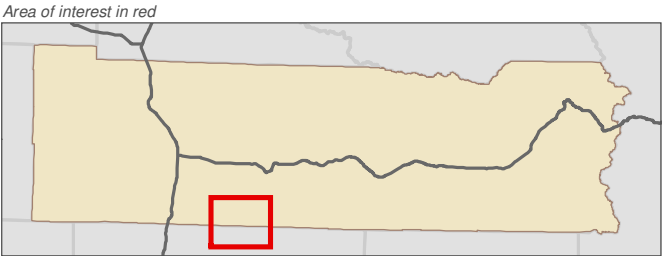
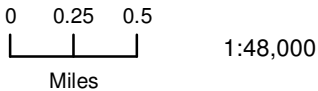
SMA Lakes

Highways
- Parcels

SMA Jurisdiction

City

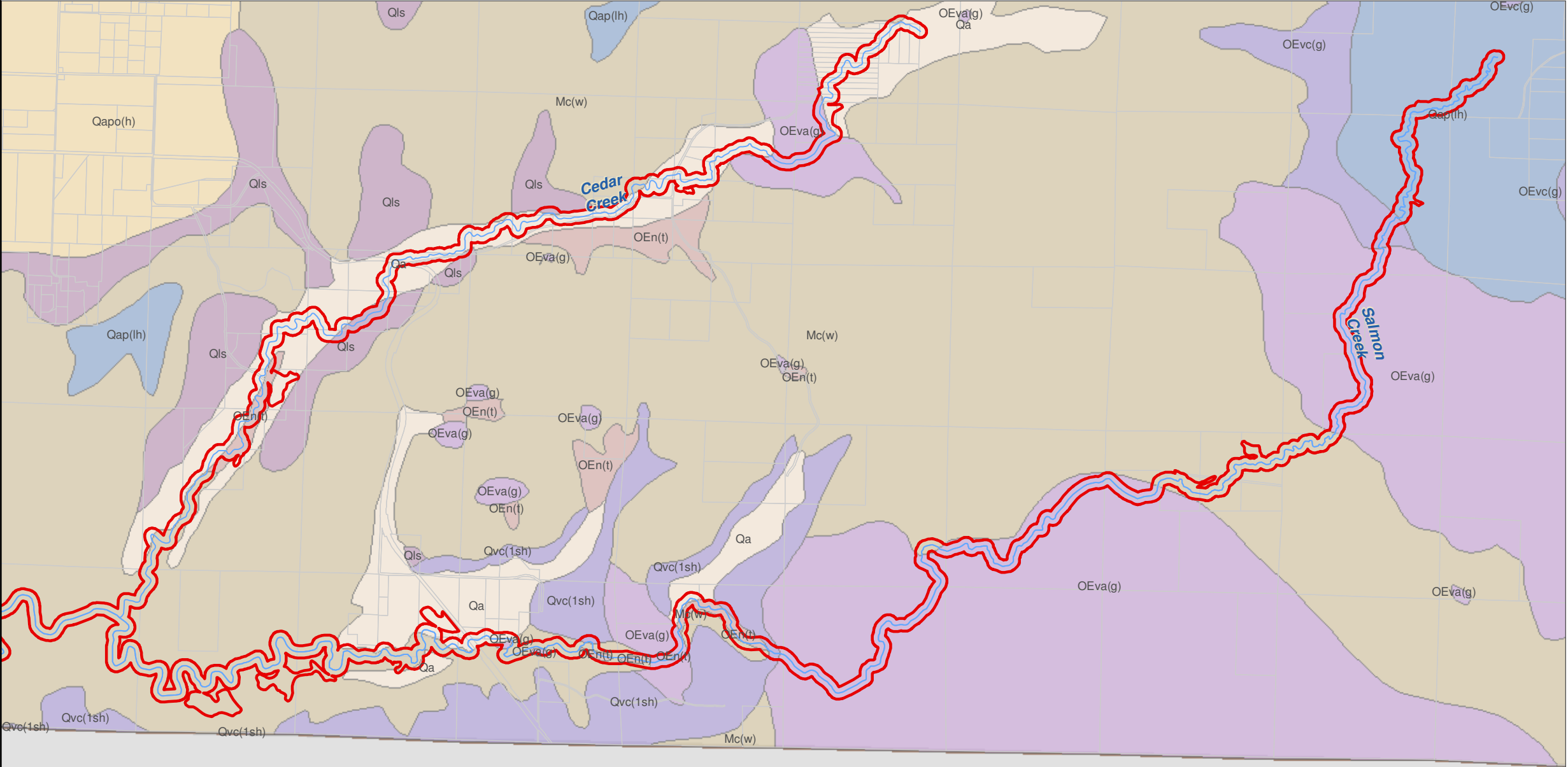
UGA



Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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Lewis County Coalition



COWLITZ
COUNTY

Lewis County, Washington
Shoreline Master Program

Map 10A - Surficial Geology
Figure 35

Date: 6/3/2014

Surficial Geology

- Alluvium

Alpine glacial drift, pre-Fraser

Alpine glacial till, pre-Fraser

Andesite flows

Continental sedimentary deposits or rocks

Dacite flows

Intrusive andesite

Volcaniclastic deposits or rocks

SMA Rivers & Streams

SMA Lakes

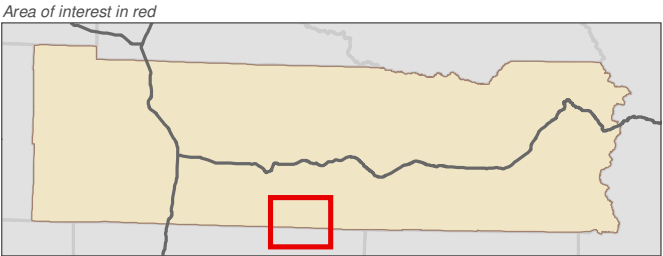
Highways

Parcels
- SMA Jurisdiction

City

UGA

0 0.25 0.5
Miles
1:48,000



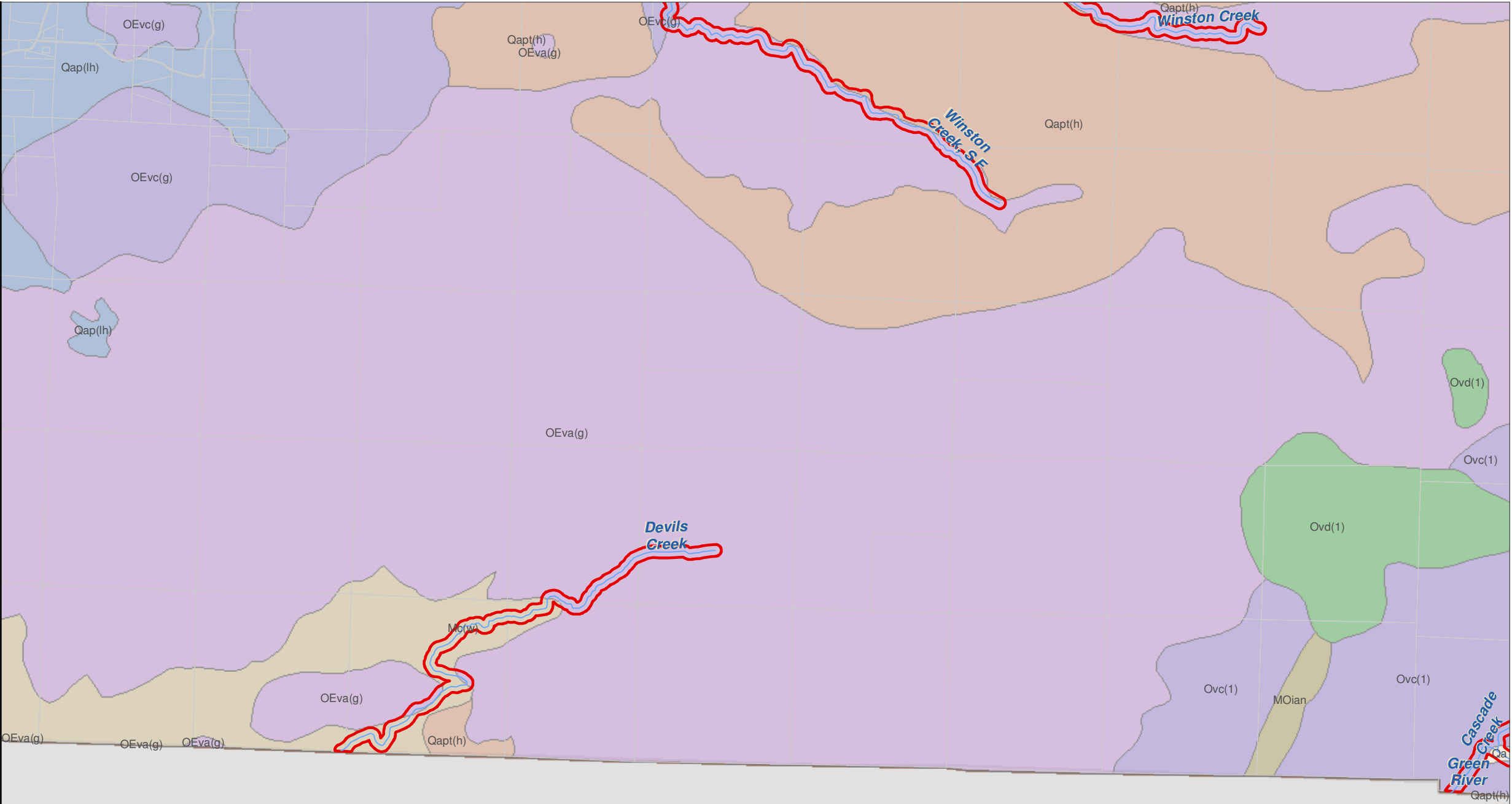
Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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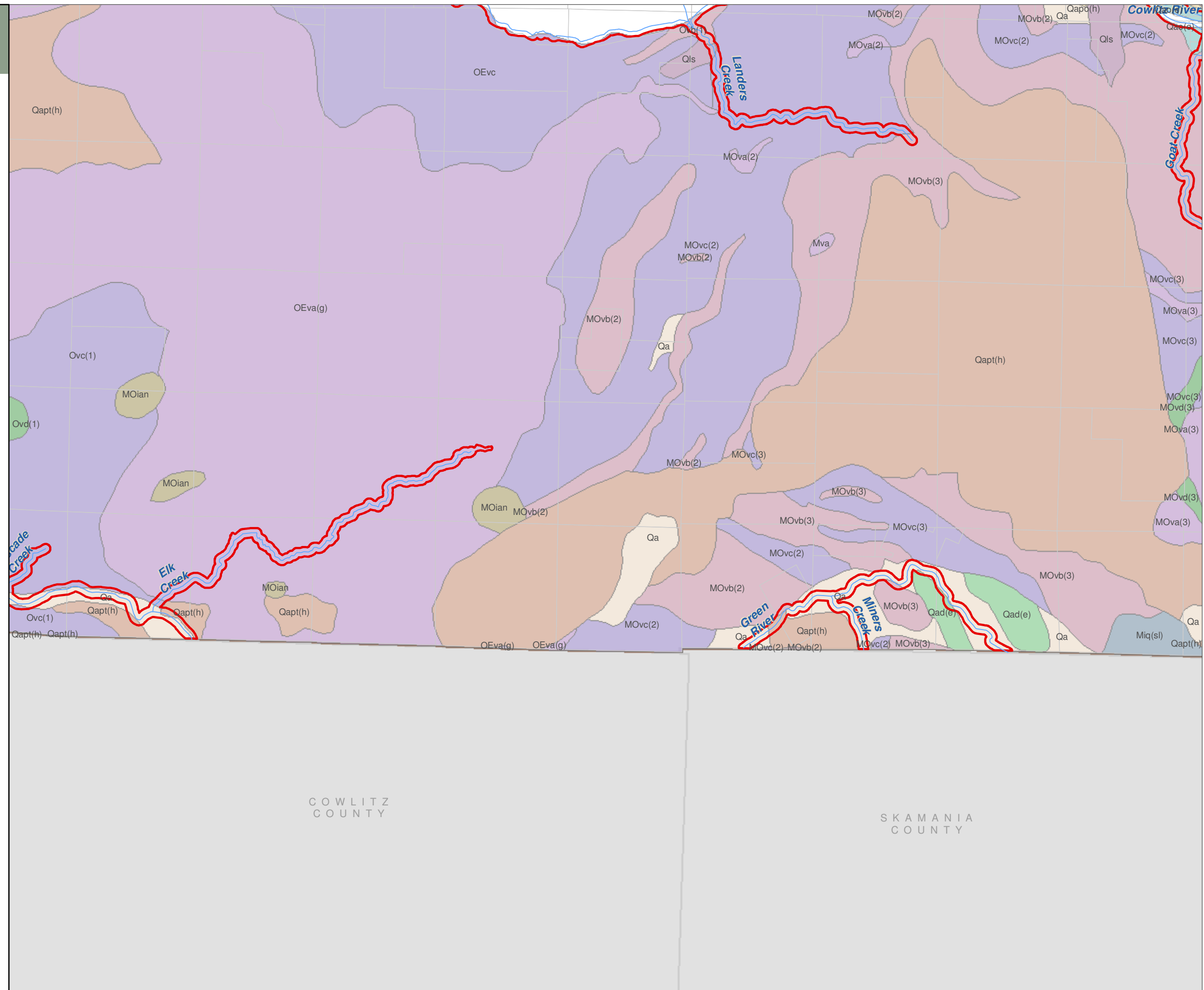
Lewis County Coalition



City of Morton City of Winlock



COWLITZ
COUNTY



Lewis County, Washington
Shoreline Master Program

Map 10A - Surficial Geology
Figure 37

Date: 6/3/2014

Surficial Geology

- Alluvium

Alpine glacial drift, Fraser-age

Alpine glacial till, Fraser-age

Alpine glacial till, pre-Fraser

Andesite flows

Argillic alteration

Basalt flows

Basaltic andesite flows

Dacite flows

Diorite

Granodiorite

Intrusive andesite

Mass-wasting deposits, mostly landslides

Quartz diorite

Quartz monzonite

Tuffs and tuff breccias

Volcaniclastic deposits or rocks

SMA Rivers & Streams

SMA Lakes

Highways

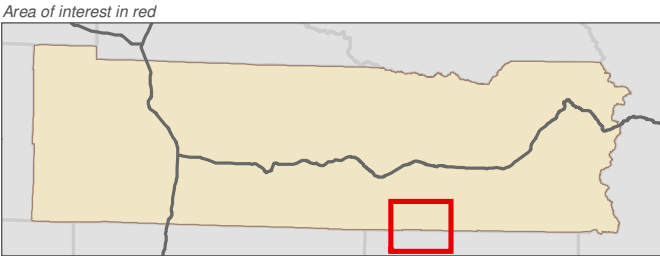
Parcels

SMA Jurisdiction

City

UGA

0 0.25 0.5
Miles
1:48,000



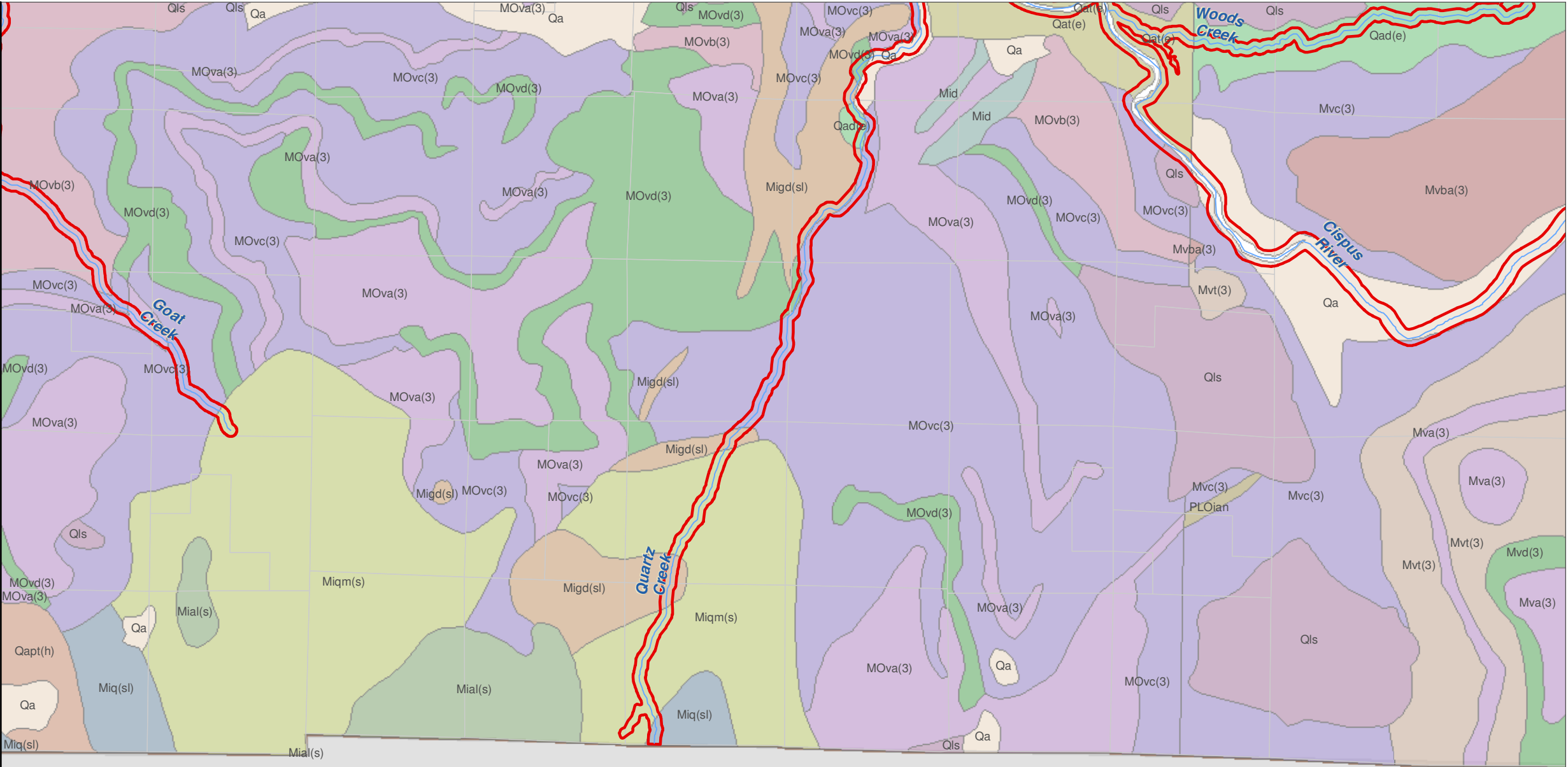
Data: Lewis County, USFWS NWI, FEMA, WA DNR, WSDOT, NRCS NAIP

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Lewis County Coalition



City of Morton City of Winlock



SKAMANIA
COUNTY

SKAMANIA
COUNTY

Lewis County, Washington
Shoreline Master Program

Map 10A - Surficial Geology
Figure 39

Date: 6/3/2014

Surficial Geology

- Alluvium

Andesite flows

Basalt flows

Basaltic andesite flows

Basic intrusive rocks

Continental sedimentary deposits or rocks

Diorite

Gabbro

Intrusive andesite

Intrusive rocks, undivided

Mass-wasting deposits, mostly landslides

Volcaniclastic deposits or rocks

SMA Rivers & Streams
- SMA Lakes

Highways

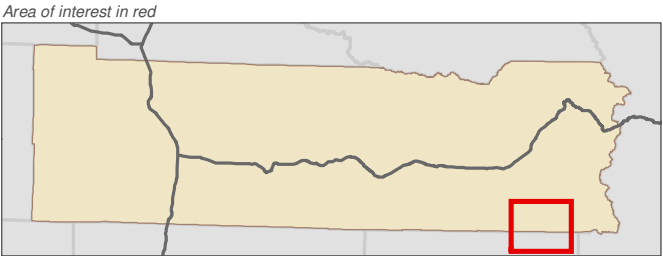
Parcels

SMA Jurisdiction

City

UGA

0 0.25 0.5
Miles
1:48,000



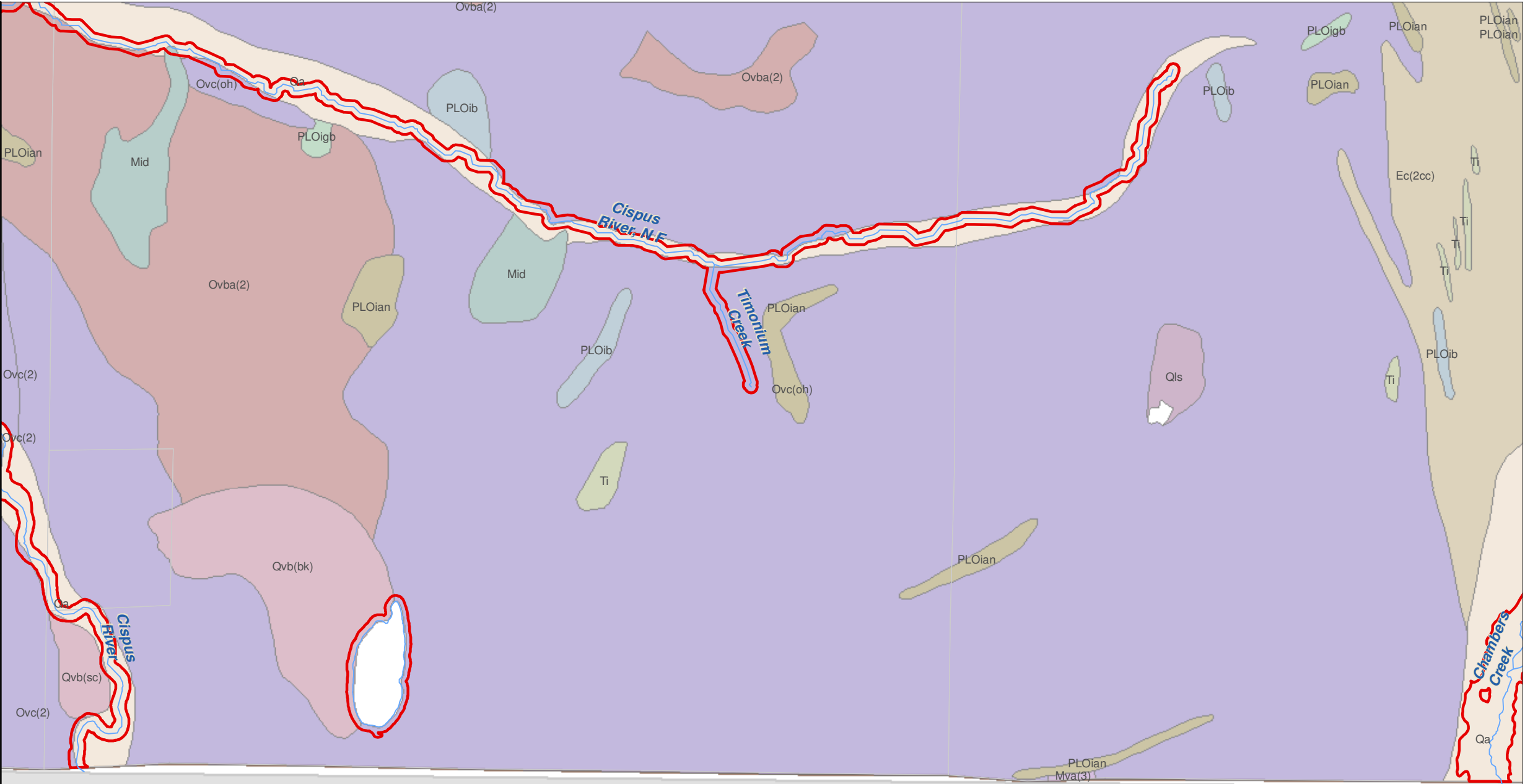
Data: Lewis County, USFWS NWI, FEMA,
WA DNR, WSDOT, NRCS NAIP

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Lewis County Coalition



City of Morton City of Winlock



SKAMANIA
COUNTY

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