



Appendix D

ABCA Hazard Mapping

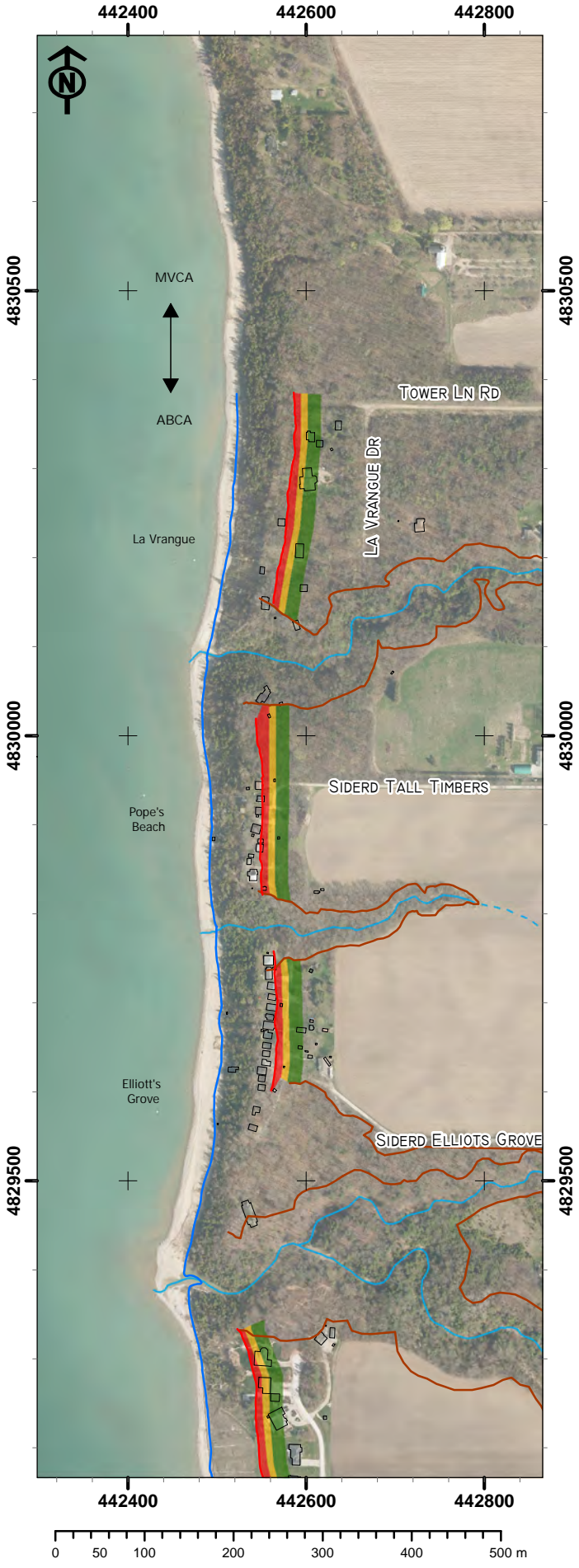
Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 2 Cohesive bluffs

Lakeshore features

- Lake 100 year flood (FDRP 1988)
- Stable Slope (3:1) - Lakeshore Area 1

Cohesive Bluffs Policy Zones

- 0 - see Lakeshore Area 1 activities
- 1 - minor additions
- 2 - major and minor additions with conditions
- 3 - all activities except new lots
- Stable Slope (3:1) - Gully
- Building
- Surface watercourse
- - - Subsurface (tile) waterflow



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COHESIVE BLUFF AREAS GENERALLY NORTH OF AND INCLUDING MAPLE GROVE SUBDIVISION			
ZONE	ZONE DEFINITION	MAP COLOUR	PERMITTED ACTIVITIES
ALL	ALL ZONES	NOT SHOWN	Repairs and maintenance, Interior alterations where no increase in habitable area, like for like rebuilding of existing dwelling destroyed by other than flood and erosion, repair and maintenance of existing decks, repair and maintenance of existing septic systems, 'technical' severance, lot consolidation, non-habitable accessory structure less than 10 sq. m.
1	Greater landward measurement of 7.5 m from Lakeshore Area 1 or the location of the 25 year erosion line	Yellow	Minor Additions, swimming pool, new septic systems provided landward of dwelling
2	Greater landward measurement of 15.0 m from Lakeshore Area 1 or the location of the 50 year erosion line	Light Yellow	Minor Additions, swimming pool, new septic systems provided landward of dwelling Major additions, non-habitable accessory structures greater than 10 sq. m., habitable accessory structures (i.e. bunkie)
3	Greater landward measurement of 15.0 m from Lakeshore Area 1 or the location of the 60 year erosion line	Green	Minor Additions, swimming pool, new septic systems provided landward of dwelling Major additions, non-habitable accessory structures greater than 10 sq. m., habitable accessory structures (i.e. bunkie) Lot re-development, new dwellings on existing vacant lots

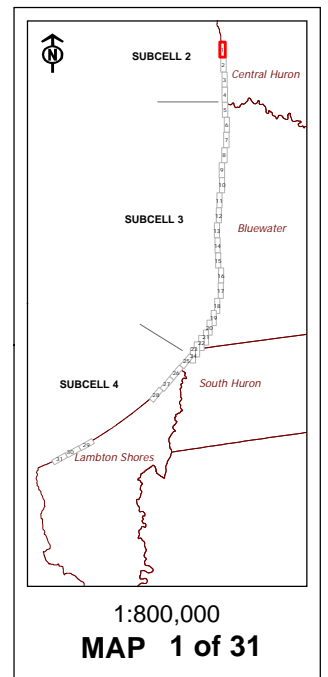
Mapping Notes:

Lakeshore Area 1 in the cohesive bluffs calculated from 2007 vector data and contours acquired from First Base Solutions and a 0.25 m DEM created by the ABCA, except in areas where toe erosion has occurred. In these areas data from the 2015 SWOOP project was used.

Lakeshore Area 1 in the dynamic beach calculated from the 1988 horizontal location of the 100 year lake flood level,

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Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 2 Cohesive bluffs



Lakeshore features

- Lake 100 year flood (FDRP 1988)
- Stable Slope (3:1) - Lakeshore Area 1

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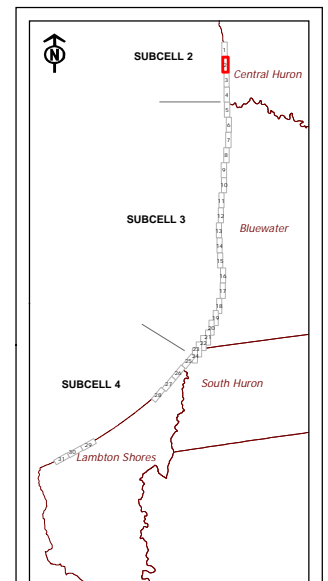
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


MAP 2 of 31

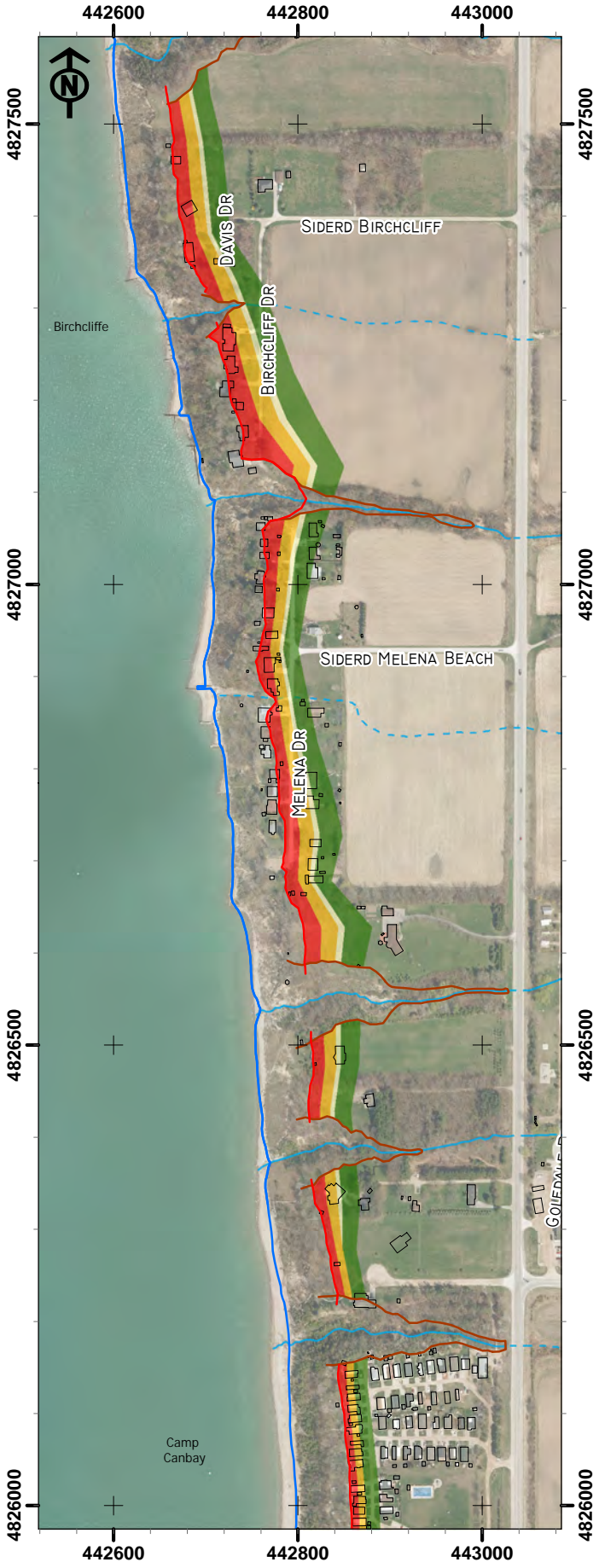
Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 2 Cohesive bluffs




Lakeshore features

-  Lake 100 year flood (FDRP 1988)
-  Stable Slope (3:1) - Lakeshore Area 1

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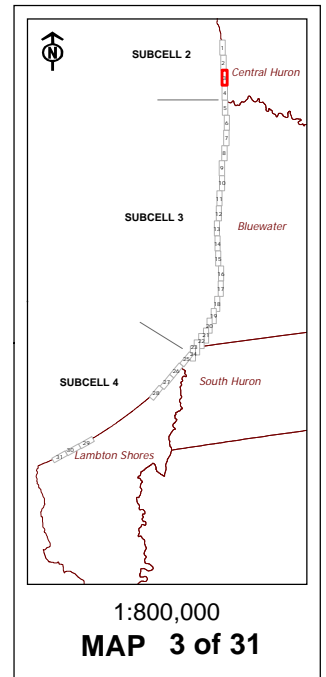
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





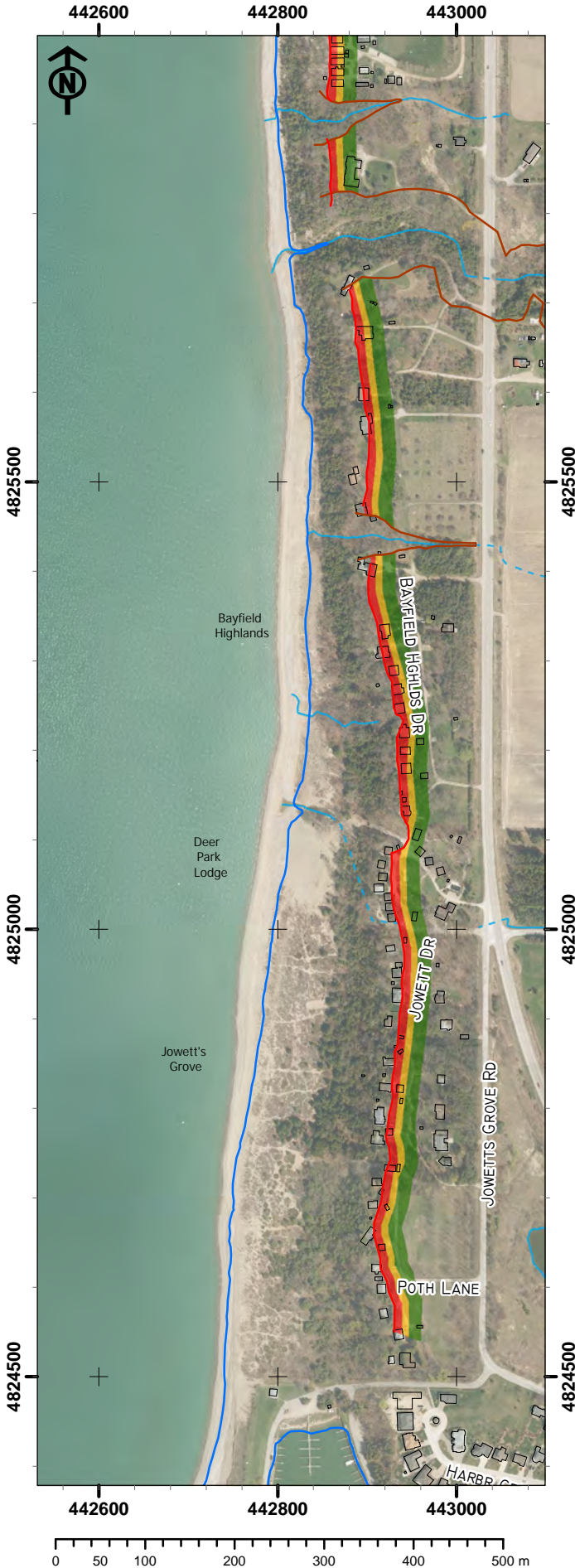
Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 2 Cohesive bluffs / Filet beach

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-  Stable Slope (3:1) - Lakeshore Area 1

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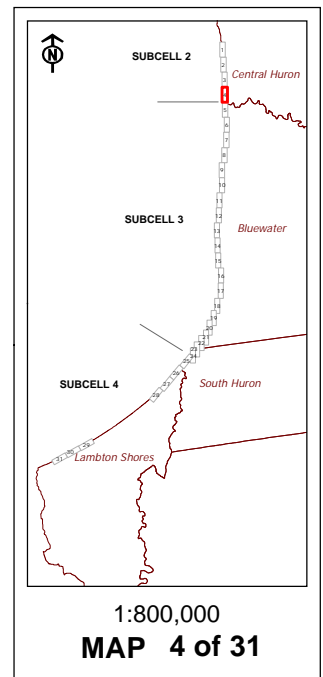
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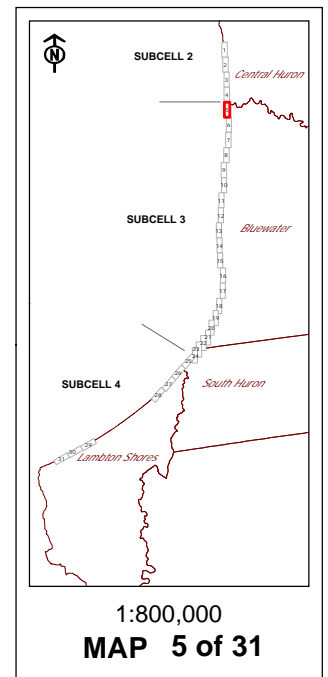
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Ausable Bayfield CA

Lake Huron Shoreline Hazards









SUBCELL 3

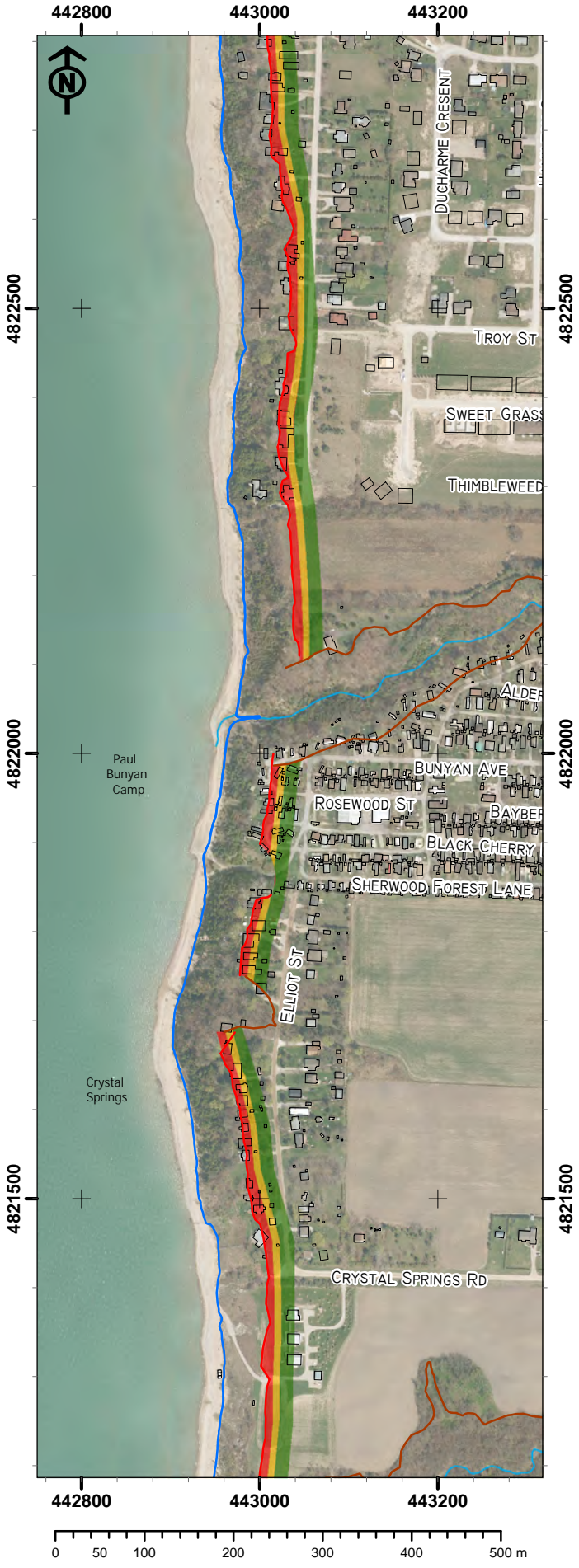
Cohesive bluffs




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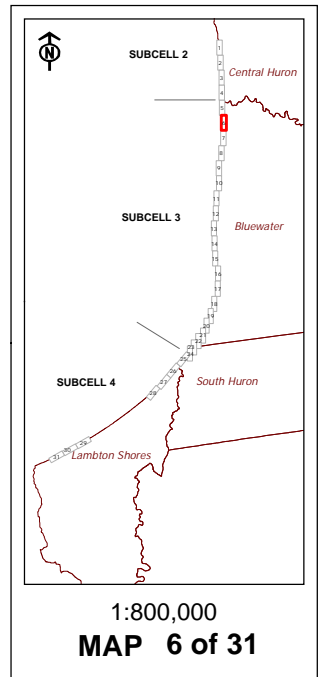
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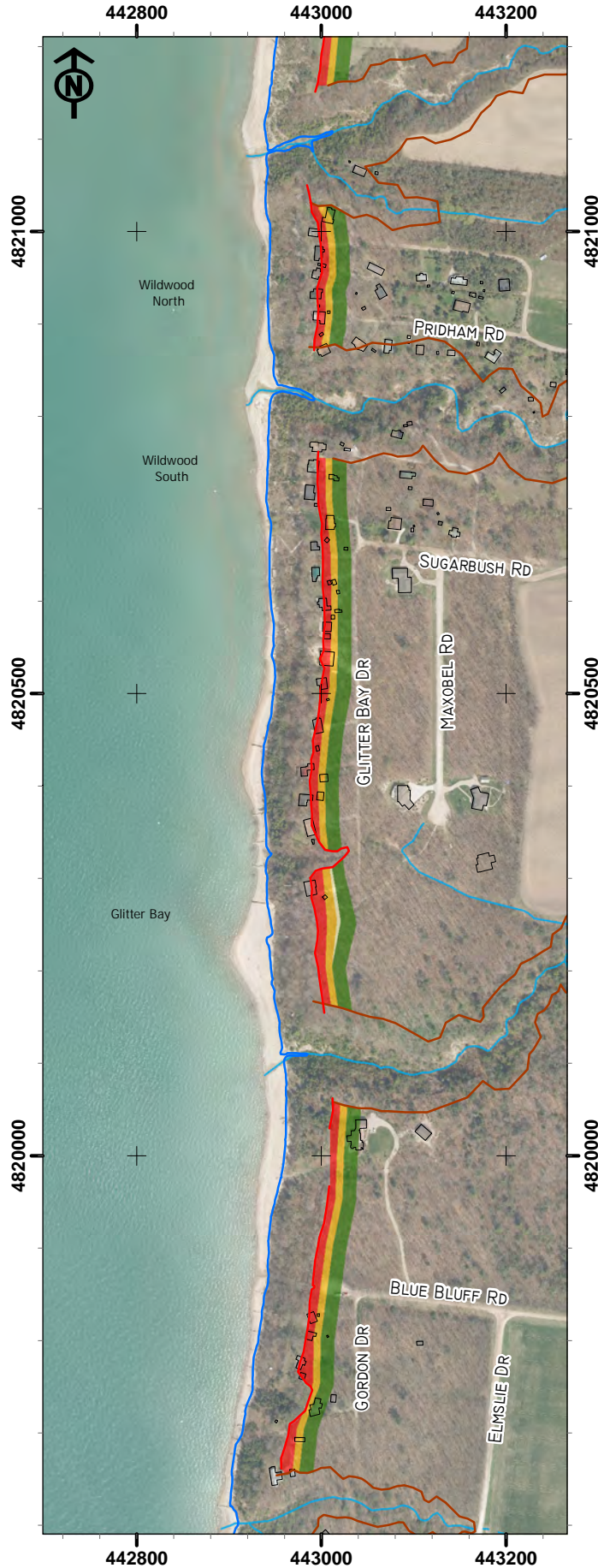
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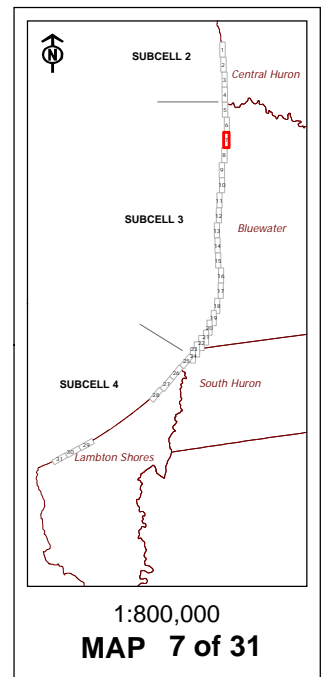
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


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MAP 7 of 31

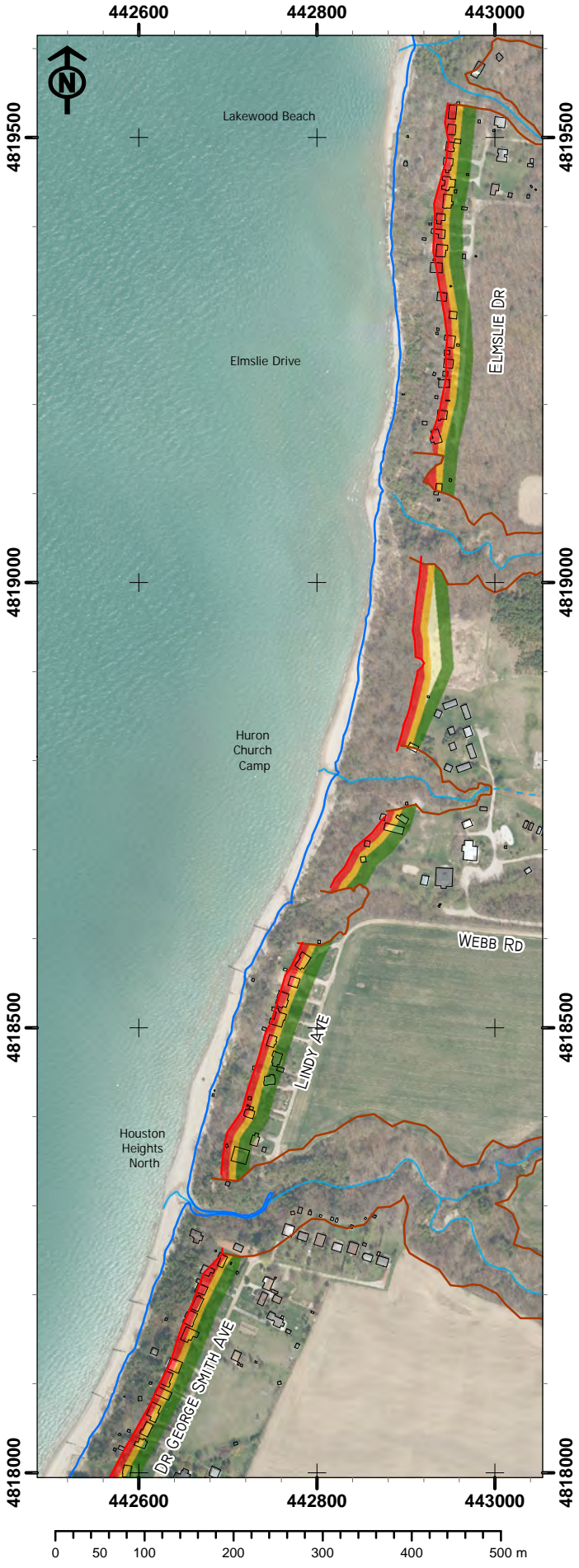
Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 3 Cohesive bluffs




Lakeshore features

-  Lake 100 year flood (FDRP 1988)
-  Stable Slope (3:1) - Lakeshore Area 1

Cohesive Bluffs Policy Zones

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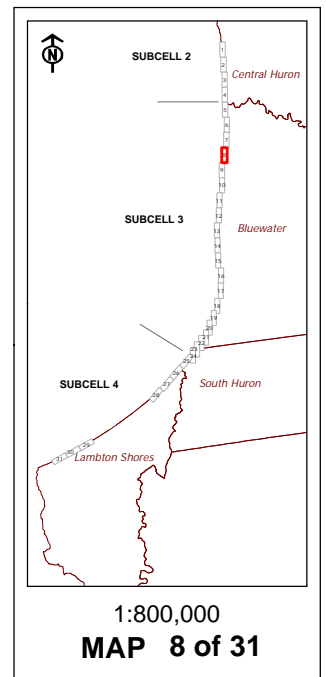
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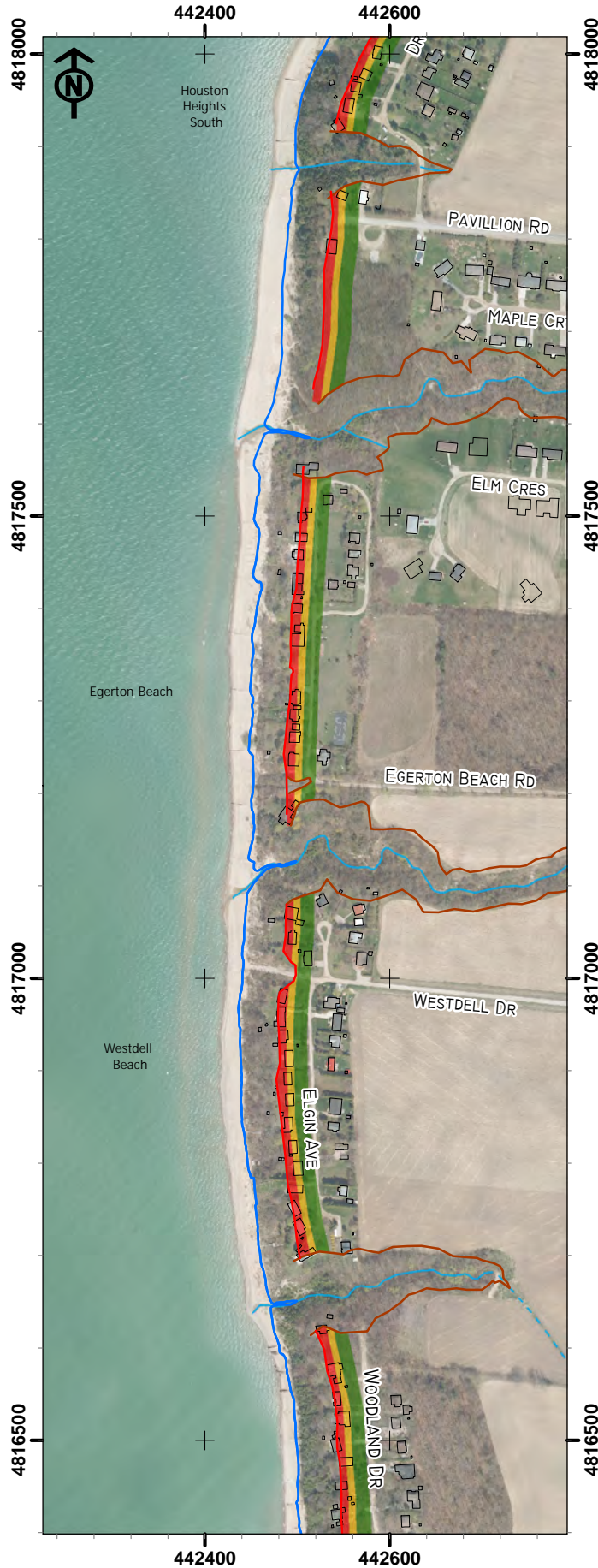
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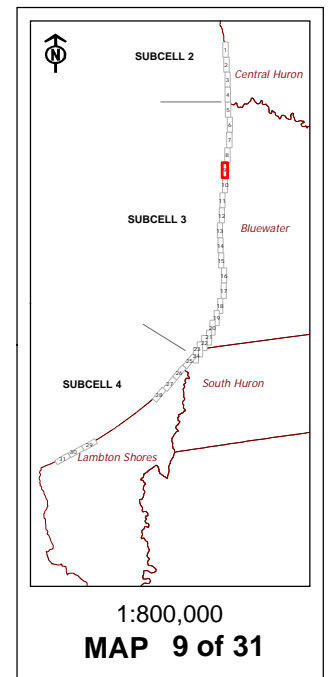
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




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Lakeshore features

-  Lake 100 year flood (FDRP 1988)
-  Stable Slope (3:1) - Lakeshore Area 1

Cohesive Bluffs Policy Zones

-  0 - see Lakeshore Area 1 activities
-  1 - minor additions
-  2 - major and minor additions with conditions
-  3 - all activities except new lots
-  Stable Slope (3:1) - Gully
-  Building
-  Surface watercourse
-  Subsurface (tile) waterflow



COHESIVE BLUFF AREAS GENERALLY NORTH OF AND INCLUDING MAPLE GROVE SUBDIVISION			
ZONE	ZONE DEFINITION	MAP COLOUR	PERMITTED ACTIVITIES
ALL	ALL ZONES	NOT SHOWN	Repairs and maintenance, Interior alterations where no increase in habitable area, like for like rebuilding of existing dwelling destroyed by other than flood and erosion, repair and maintenance of existing decks, repair and maintenance of existing septic systems, 'technical' severance, lot consolidation, non-habitable accessory structure less than 10 sq. m.
1	Greater landward measurement of 7.5 m from Lakeshore Area 1 or the location of the 25 year erosion line		Minor Additions, swimming pool, new septic systems provided landward of dwelling
2	Greater landward measurement of 15.0 m from Lakeshore Area 1 or the location of the 50 year erosion line		Minor Additions, swimming pool, new septic systems provided landward of dwelling Major additions, non-habitable accessory structures greater than 10 sq. m., habitable accessory structures (i.e. bunkie)
3	Greater landward measurement of 15.0 m from Lakeshore Area 1 or the location of the 60 year erosion line		Minor Additions, swimming pool, new septic systems provided landward of dwelling Major additions, non-habitable accessory structures greater than 10 sq. m., habitable accessory structures (i.e. bunkie) Lot re-development, new dwellings on existing vacant lots

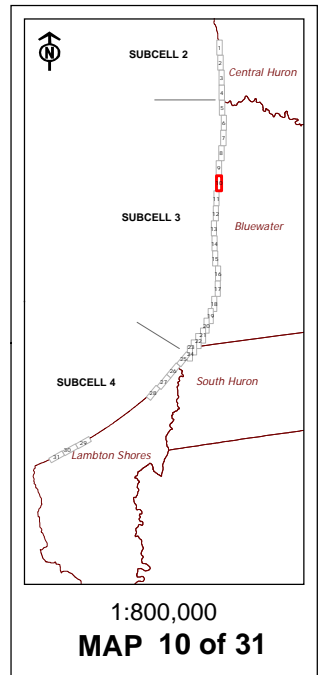
Mapping Notes:

Lakeshore Area 1 in the cohesive bluffs calculated from 2007 vector data and contours acquired from First Base Solutions and a 0.25 m DEM created by the ABCA, except in areas where toe erosion has occurred. In these areas data from the 2015 SWOOP project was used.

Lakeshore Area 1 in the dynamic beach calculated from the 1988 horizontal location of the 100 year lake flood level,



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







Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 3 Cohesive bluffs

Lakeshore features

-  Lake 100 year flood (FDRP 1988)
-  Stable Slope (3:1) - Lakeshore Area 1

Cohesive Bluffs Policy Zones

-  0 - see Lakeshore Area 1 activities
-  1 - minor additions
-  2 - major and minor additions with conditions
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-  Stable Slope (3:1) - Gully
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COHESIVE BLUFF AREAS GENERALLY NORTH OF AND INCLUDING MAPLE GROVE SUBDIVISION			
ZONE	ZONE DEFINITION	MAP COLOUR	PERMITTED ACTIVITIES
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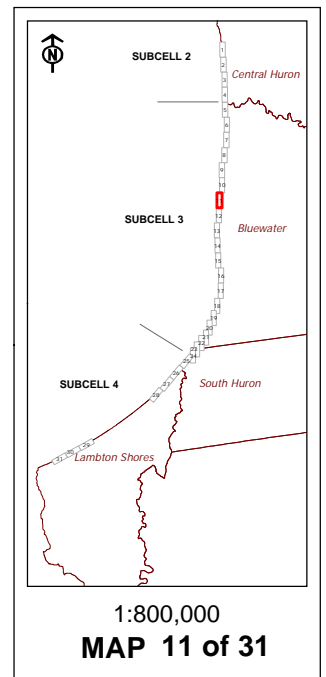
Mapping Notes:

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Lakeshore Area 1 in the dynamic beach calculated from the 1988 horizontal location of the 100 year lake flood level,

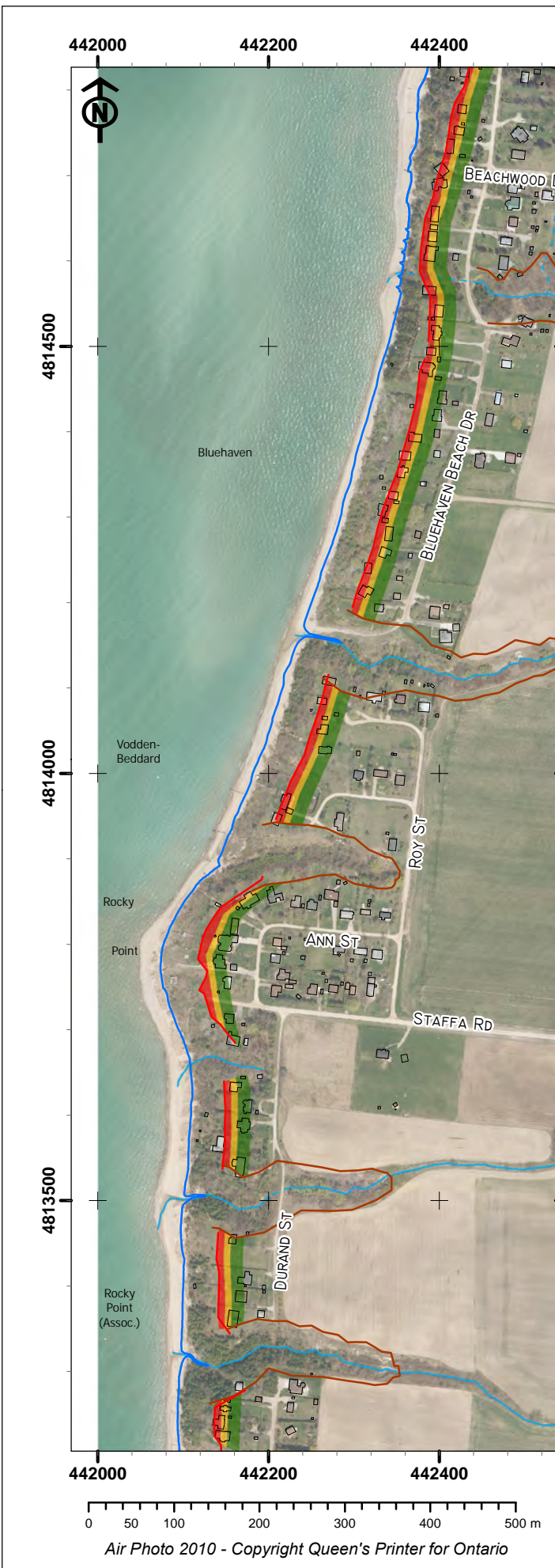
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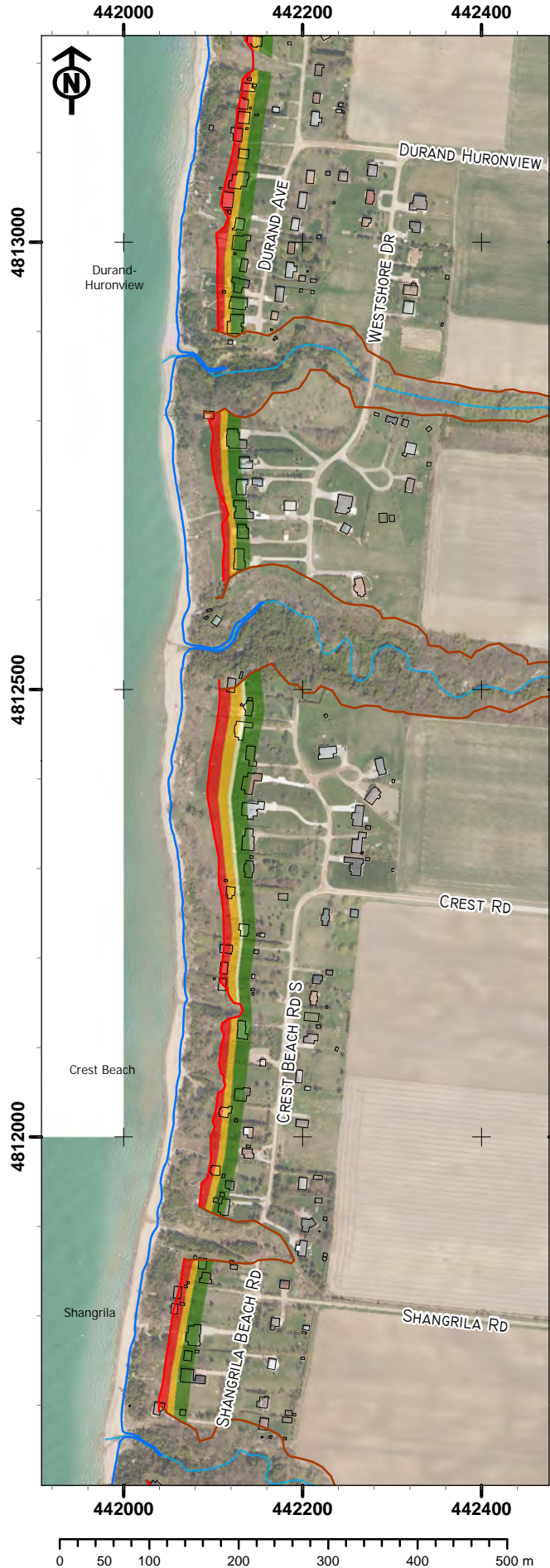


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Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 3 Cohesive bluffs



Lakeshore features

- Lake 100 year flood (FDRP 1988)
- Stable Slope (3:1) - Lakeshore Area 1

Cohesive Bluffs Policy Zones

- 0 - see Lakeshore Area 1 activities
- 1 - minor additions
- 2 - major and minor additions with conditions
- 3 - all activities except new lots
- Stable Slope (3:1) - Gully
- Building
- Surface watercourse
- - - Subsurface (tile) waterflow

COHESIVE BLUFF AREAS GENERALLY NORTH OF AND INCLUDING MAPLE GROVE SUBDIVISION			
ZONE	ZONE DEFINITION	MAP COLOUR	PERMITTED ACTIVITIES
ALL	ALL ZONES	NOT SHOWN	Repairs and maintenance, Interior alterations where no increase in habitable area, like for like rebuilding of existing dwelling destroyed by other than flood and erosion, repair and maintenance of existing decks, repair and maintenance of existing septic systems, 'technical' severance, lot consolidation, non-habitable accessory structure less than 10 sq. m.
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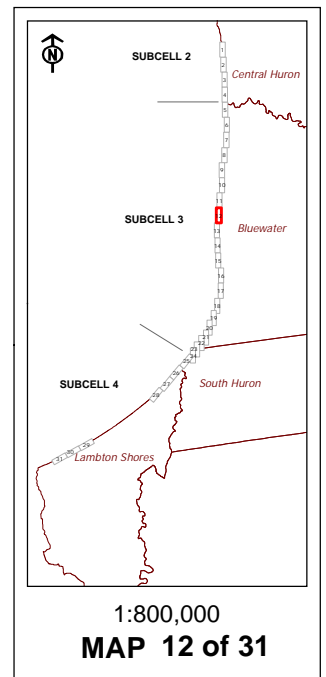
Mapping Notes:

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Lakeshore Area 1 in the dynamic beach calculated from the 1988 horizontal location of the 100 year lake flood level,



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




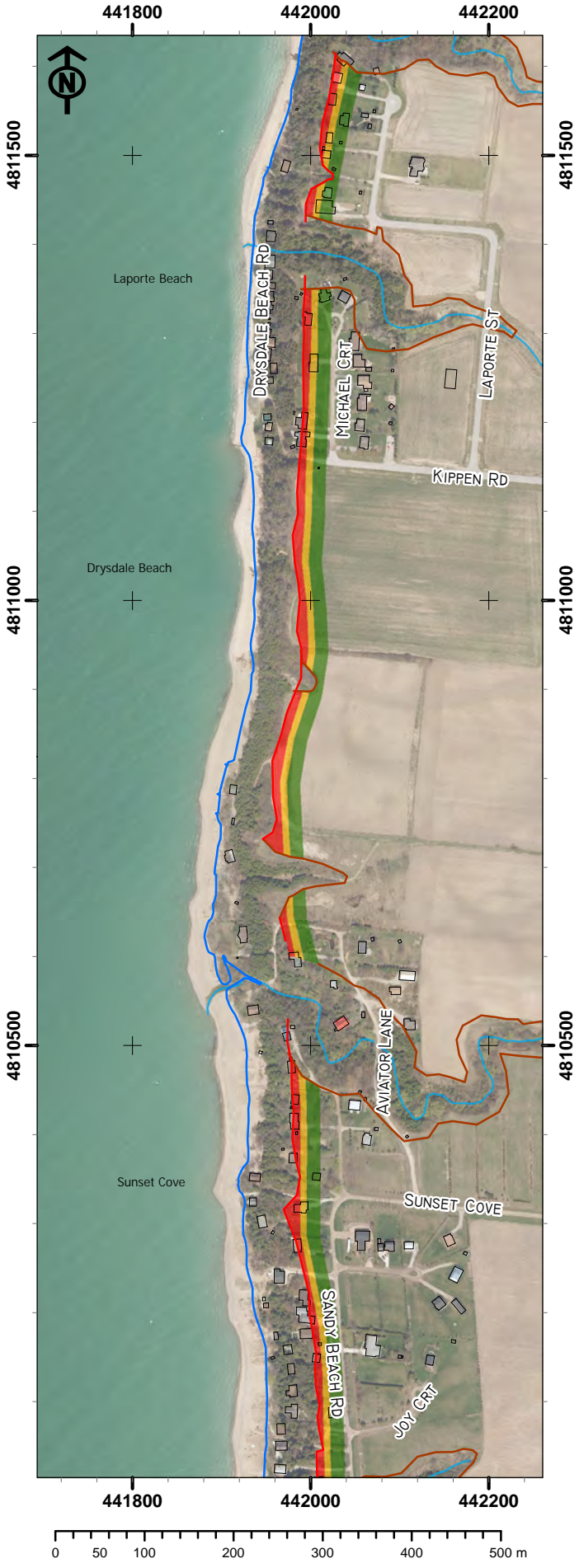
Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 3 Cohesive bluffs

Lakeshore features




-  Lake 100 year flood (FDRP 1988)
-  Stable Slope (3:1) - Lakeshore Area 1

Cohesive Bluffs Policy Zones

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-  1 - minor additions
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-  Stable Slope (3:1) - Gully
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-  Surface watercourse
-  Subsurface (tile) waterflow



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COHESIVE BLUFF AREAS GENERALLY NORTH OF AND INCLUDING MAPLE GROVE SUBDIVISION			
ZONE	ZONE DEFINITION	MAP COLOUR	PERMITTED ACTIVITIES
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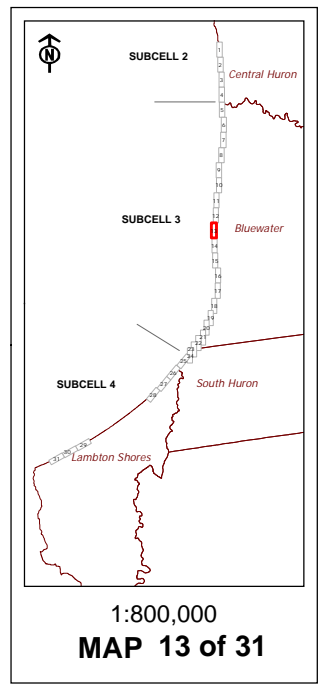
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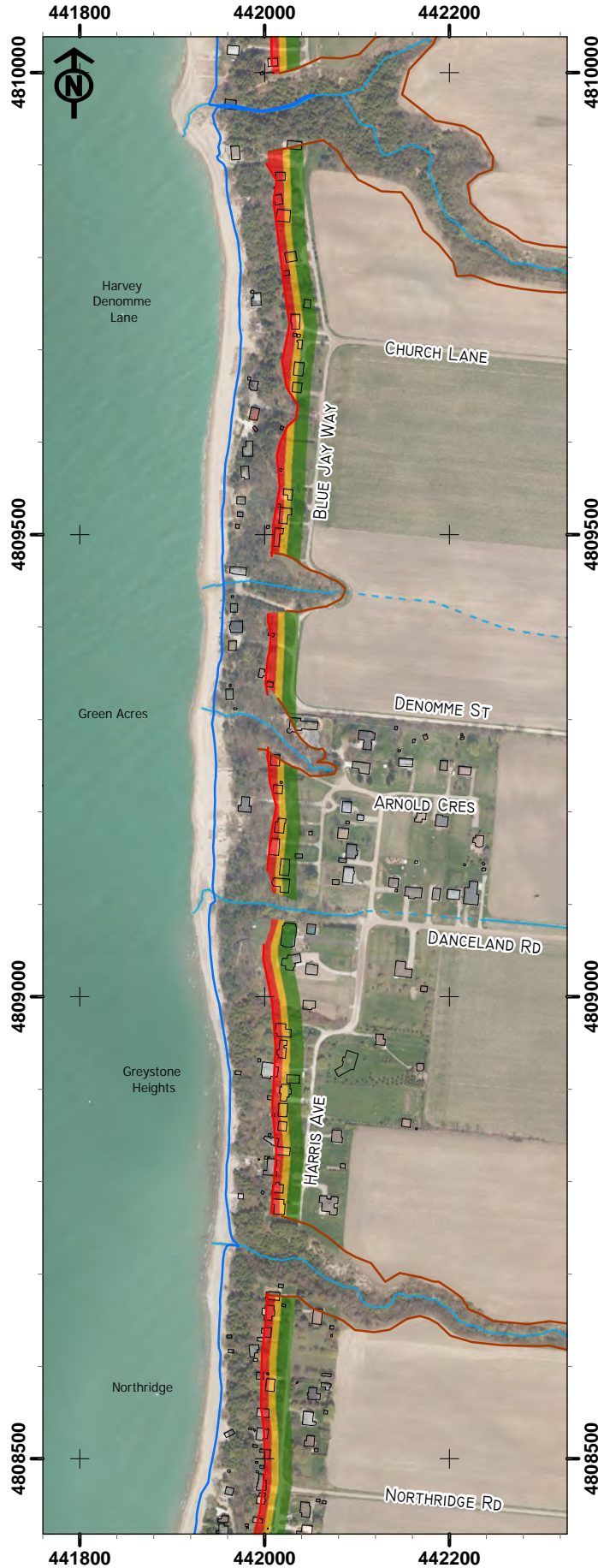
Lakeshore Area 1 in the dynamic beach calculated from the 1988 horizontal location of the 100 year lake flood level,

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Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 3 Cohesive bluffs



Lakeshore features

- Lake 100 year flood (FDRP 1988)
- Stable Slope (3:1) - Lakeshore Area 1

Cohesive Bluffs Policy Zones

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COHESIVE BLUFF AREAS GENERALLY NORTH OF AND INCLUDING MAPLE GROVE SUBDIVISION			
ZONE	ZONE DEFINITION	MAP COLOUR	PERMITTED ACTIVITIES
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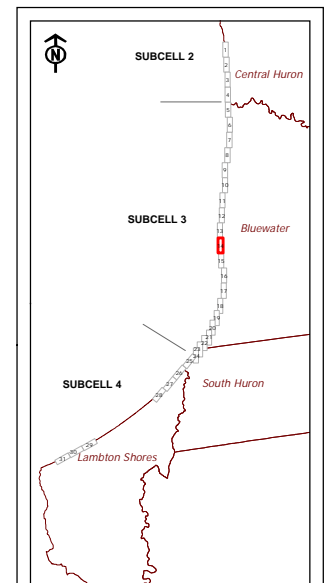
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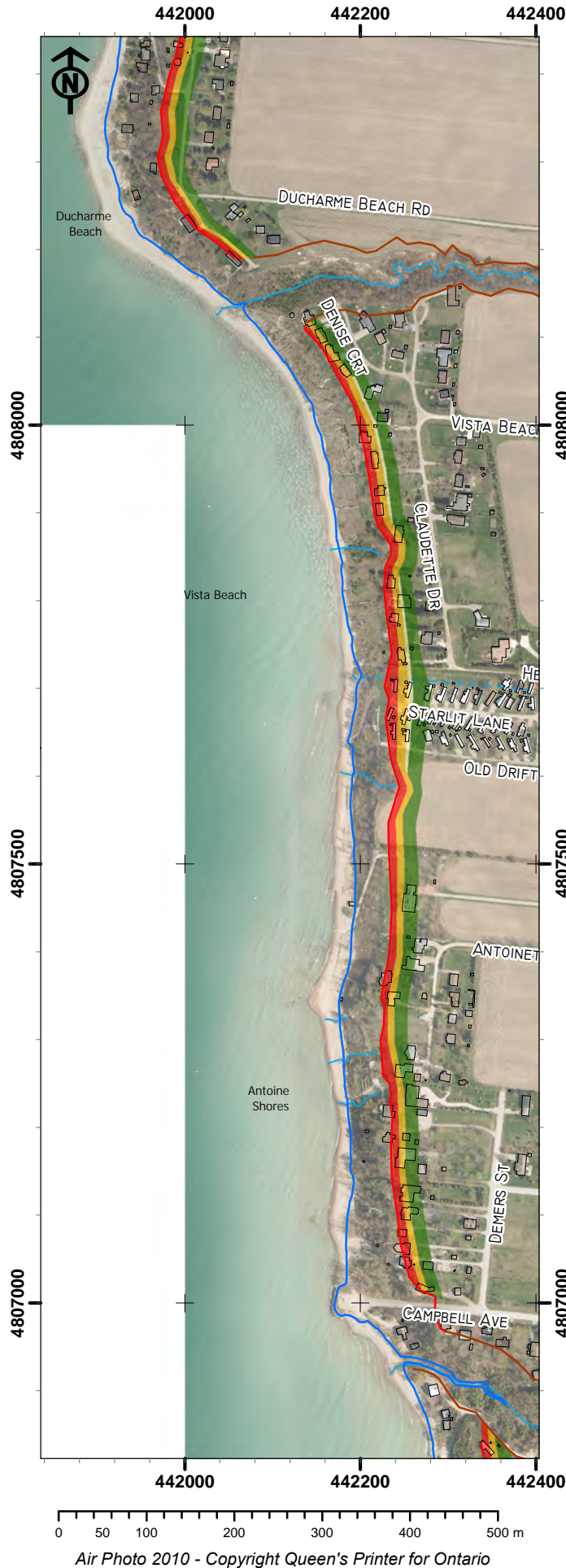
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MAP 14 of 31

Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 3 Cohesive bluffs



Lakeshore features

- Lake 100 year flood (FDRP 1988)
- Stable Slope (3:1) - Lakeshore Area 1

Cohesive Bluffs Policy Zones

- 0 - see Lakeshore Area 1 activities
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- Surface watercourse
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COHESIVE BLUFF AREAS GENERALLY NORTH OF AND INCLUDING MAPLE GROVE SUBDIVISION			
ZONE	ZONE DEFINITION	MAP COLOUR	PERMITTED ACTIVITIES
ALL	ALL ZONES	NOT SHOWN	Repairs and maintenance, Interior alterations where no increase in habitable area, like for like rebuilding of existing dwelling destroyed by other than flood and erosion, repair and maintenance of existing decks, repair and maintenance of existing septic systems, 'technical' severance, lot consolidation, non-habitable accessory structure less than 10 sq. m.
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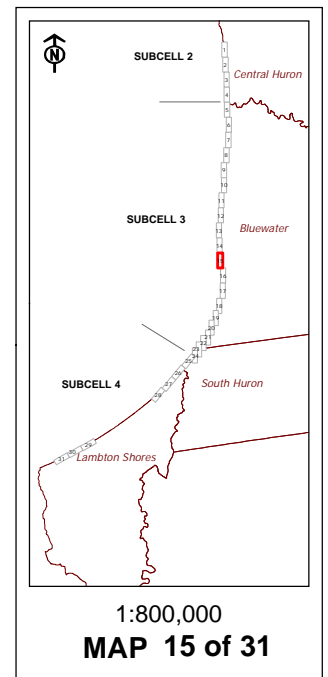
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Lakeshore Area 1 in the dynamic beach calculated from the 1988 horizontal location of the 100 year lake flood level,



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




Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 3 Cohesive bluffs




Lakeshore features

-  Lake 100 year flood (FDRP 1988)
-  Stable Slope (3:1) - Lakeshore Area 1

Cohesive Bluffs Policy Zones

-  0 - see Lakeshore Area 1 activities
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-  Stable Slope (3:1) - Gully
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COHESIVE BLUFF AREAS GENERALLY NORTH OF AND INCLUDING MAPLE GROVE SUBDIVISION			
ZONE	ZONE DEFINITION	MAP COLOUR	PERMITTED ACTIVITIES
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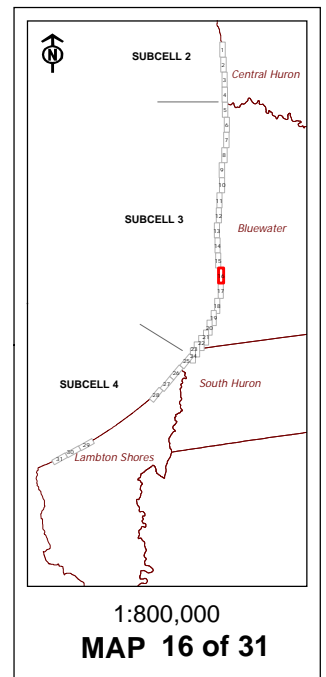
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


MAP 16 of 31

Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 3 Cohesive bluffs

Lakeshore features




-  Lake 100 year flood (FDRP 1988)
-  Stable Slope (3:1) - Lakeshore Area 1

Cohesive Bluffs Policy Zones

-  0 - see Lakeshore Area 1 activities
-  1 - minor additions
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-  Stable Slope (3:1) - Gully
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-  Surface watercourse
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COHESIVE BLUFF AREAS GENERALLY NORTH OF AND INCLUDING MAPLE GROVE SUBDIVISION			
ZONE	ZONE DEFINITION	MAP COLOUR	PERMITTED ACTIVITIES
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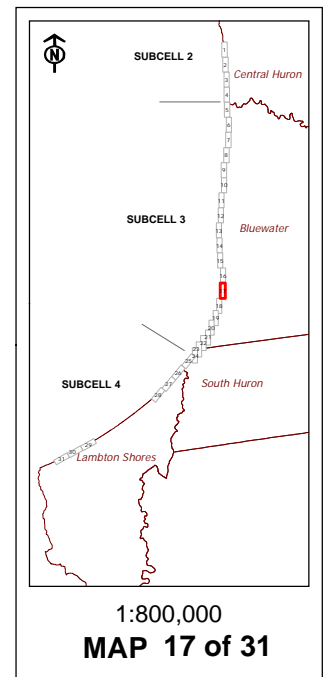
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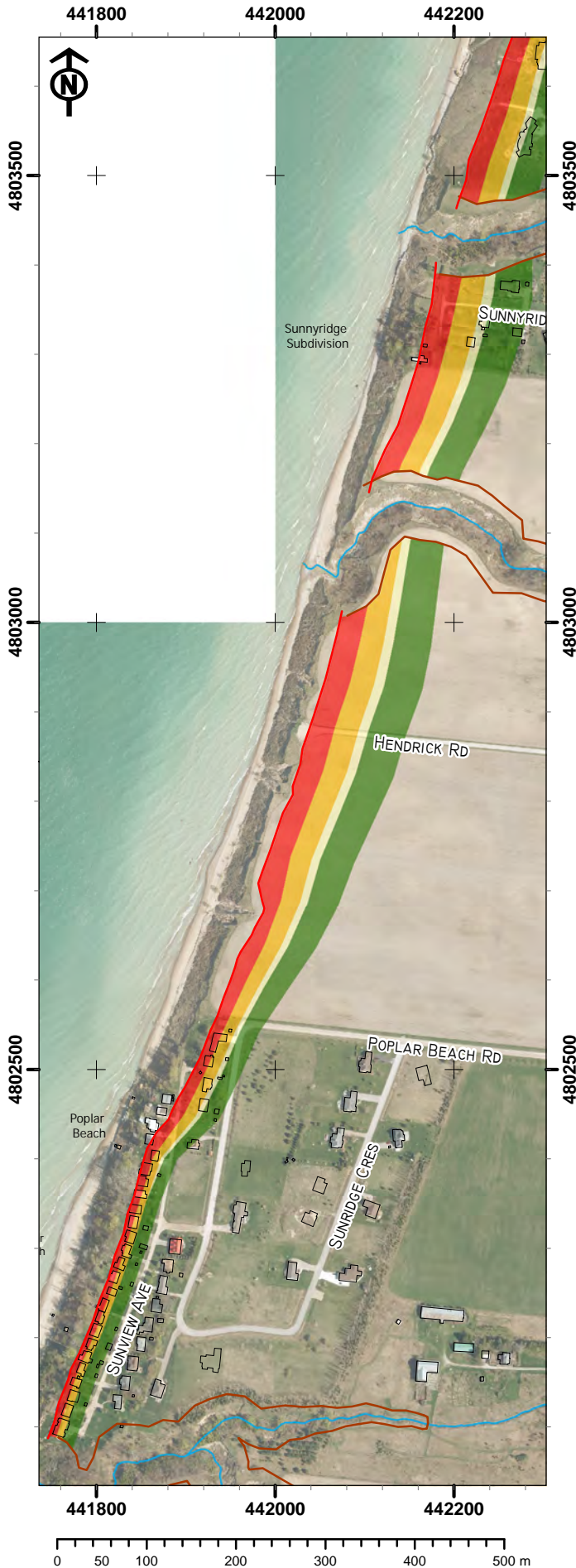
Lakeshore Area 1 in the dynamic beach calculated from the 1988 horizontal location of the 100 year lake flood level,

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Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 3 Cohesive bluffs



Lakeshore features

- Lake 100 year flood (FDRP 1988)
- Stable Slope (3:1) - Lakeshore Area 1

Cohesive Bluffs Policy Zones

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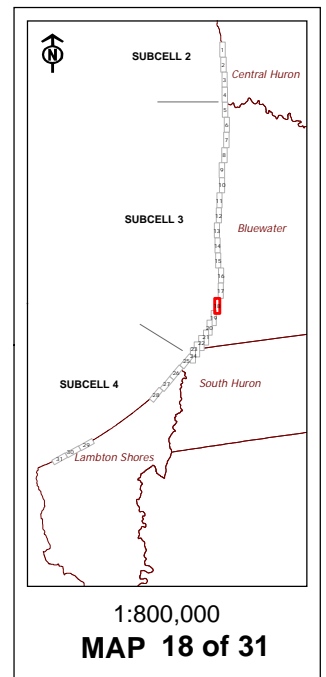
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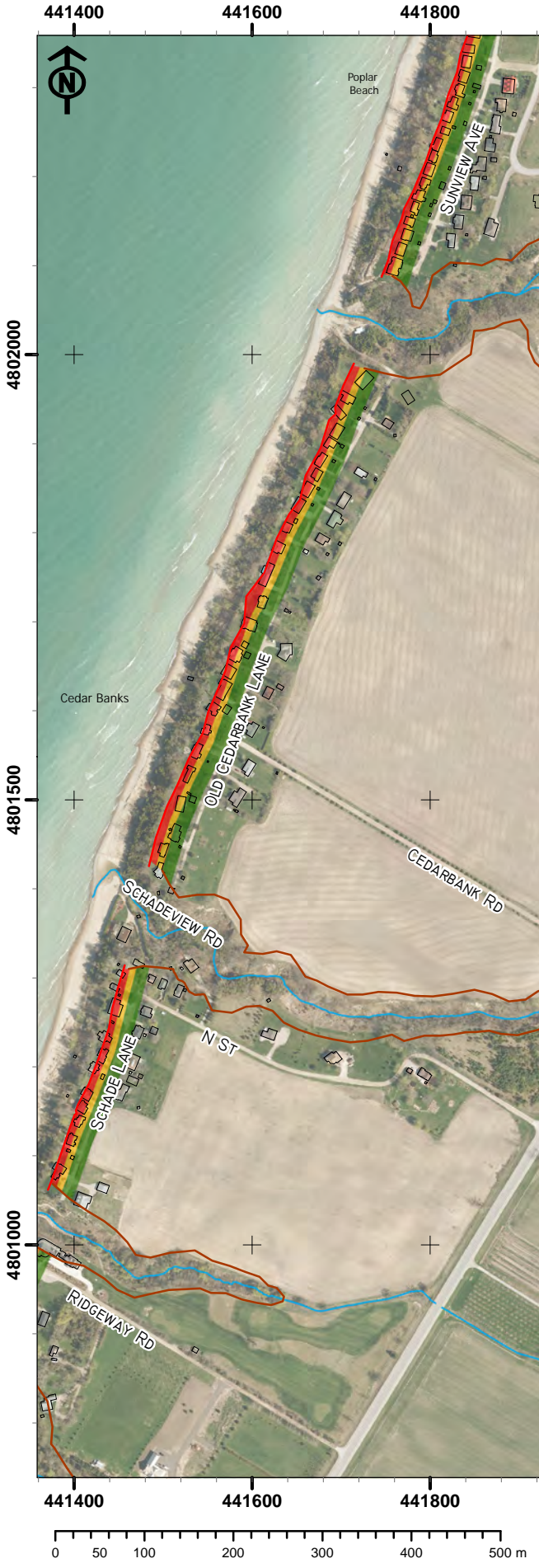
Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 3 Cohesive bluffs




Lakeshore features

-  Lake 100 year flood (FDRP 1988)
-  Stable Slope (3:1) - Lakeshore Area 1

Cohesive Bluffs Policy Zones

-  0 - see Lakeshore Area 1 activities
-  1 - minor additions
-  2 - major and minor additions with conditions
-  3 - all activities except new lots
-  Stable Slope (3:1) - Gully
-  Building
-  Surface watercourse
-  Subsurface (tile) waterflow



COHESIVE BLUFF AREAS GENERALLY NORTH OF AND INCLUDING MAPLE GROVE SUBDIVISION			
ZONE	ZONE DEFINITION	MAP COLOUR	PERMITTED ACTIVITIES
ALL	ALL ZONES	NOT SHOWN	Repairs and maintenance, Interior alterations where no increase in habitable area, like for like rebuilding of existing dwelling destroyed by other than flood and erosion, repair and maintenance of existing decks, repair and maintenance of existing septic systems, 'technical' severance, lot consolidation, non-habitable accessory structure less than 10 sq. m.
1	Greater landward measurement of 7.5 m from Lakeshore Area 1 or the location of the 25 year erosion line		Minor Additions, swimming pool, new septic systems provided landward of dwelling
2	Greater landward measurement of 15.0 m from Lakeshore Area 1 or the location of the 50 year erosion line		Minor Additions, swimming pool, new septic systems provided landward of dwelling Major additions, non-habitable accessory structures greater than 10 sq. m., habitable accessory structures (i.e. bunkie)
3	Greater landward measurement of 15.0 m from Lakeshore Area 1 or the location of the 60 year erosion line		Minor Additions, swimming pool, new septic systems provided landward of dwelling Major additions, non-habitable accessory structures greater than 10 sq. m., habitable accessory structures (i.e. bunkie) Lot re-development, new dwellings on existing vacant lots

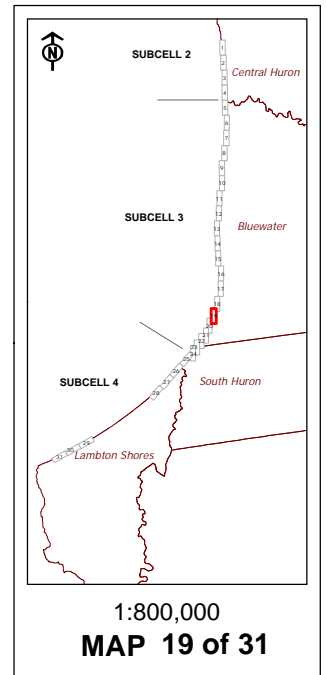
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Lakeshore Area 1 in the dynamic beach calculated from the 1988 horizontal location of the 100 year lake flood level,



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Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 3 Cohesive bluffs

Lakeshore features

-  Lake 100 year flood (FDRP 1988)
-  Stable Slope (3:1) - Lakeshore Area 1

Cohesive Bluffs Policy Zones

-  0 - see Lakeshore Area 1 activities
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COHESIVE BLUFF AREAS GENERALLY NORTH OF AND INCLUDING MAPLE GROVE SUBDIVISION			
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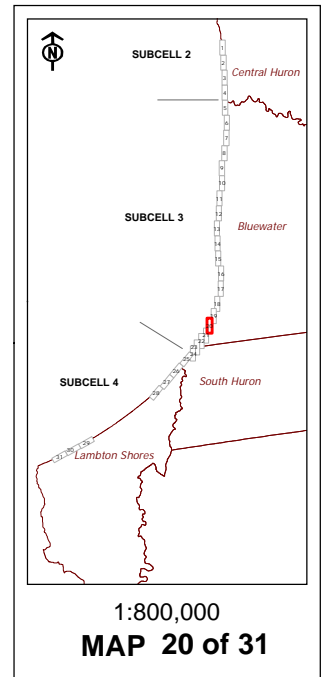
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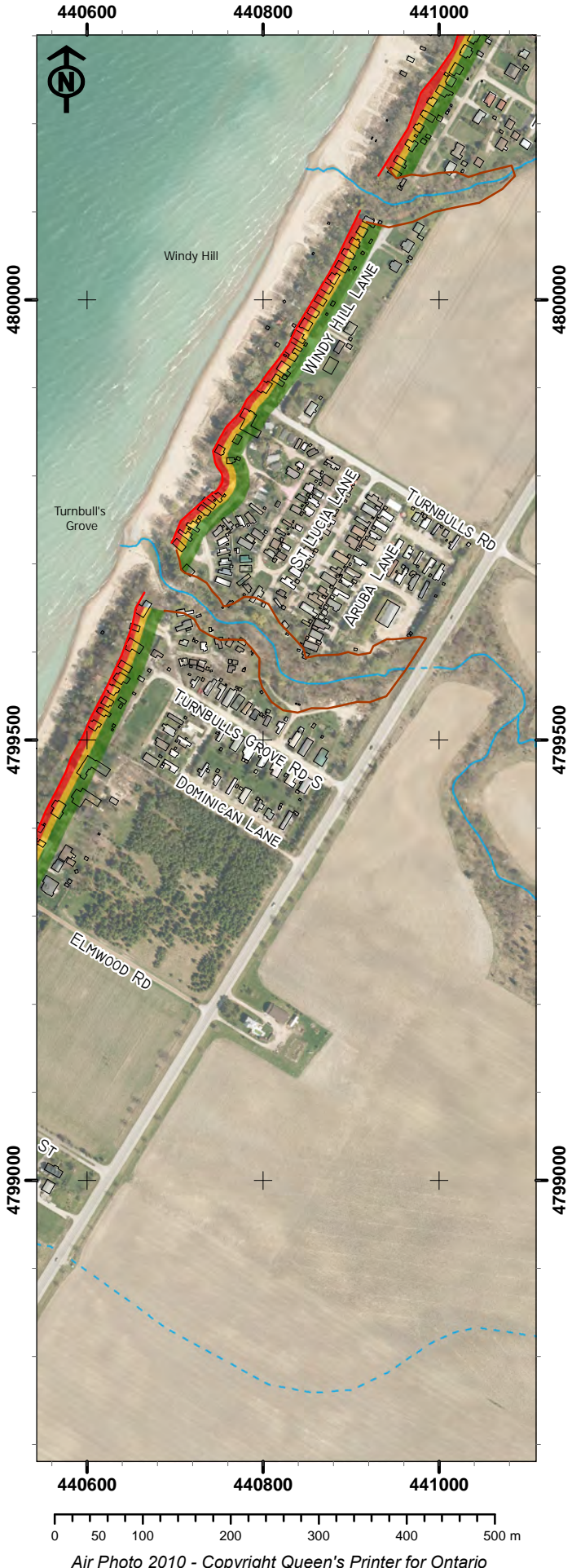
Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 3 Cohesive bluffs




Lakeshore features

-  Lake 100 year flood (FDRP 1988)
-  Stable Slope (3:1) - Lakeshore Area 1

Cohesive Bluffs Policy Zones

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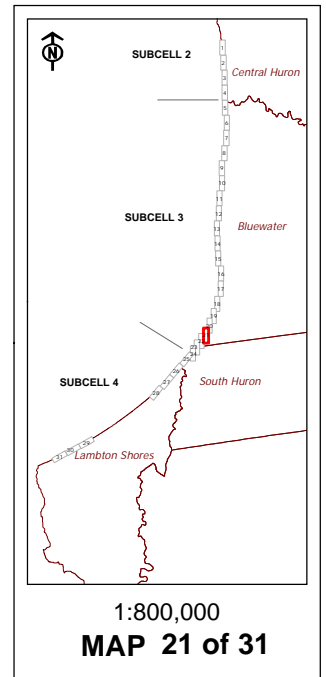
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Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 3 Cohesive bluffs



Lakeshore features

- Lake 100 year flood (FDRP 1988)
- Stable Slope (3:1) - Lakeshore Area 1

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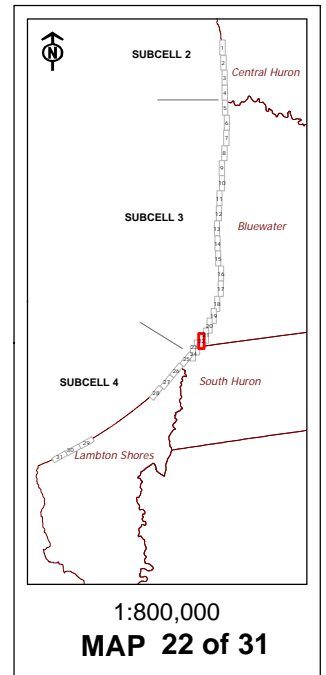
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




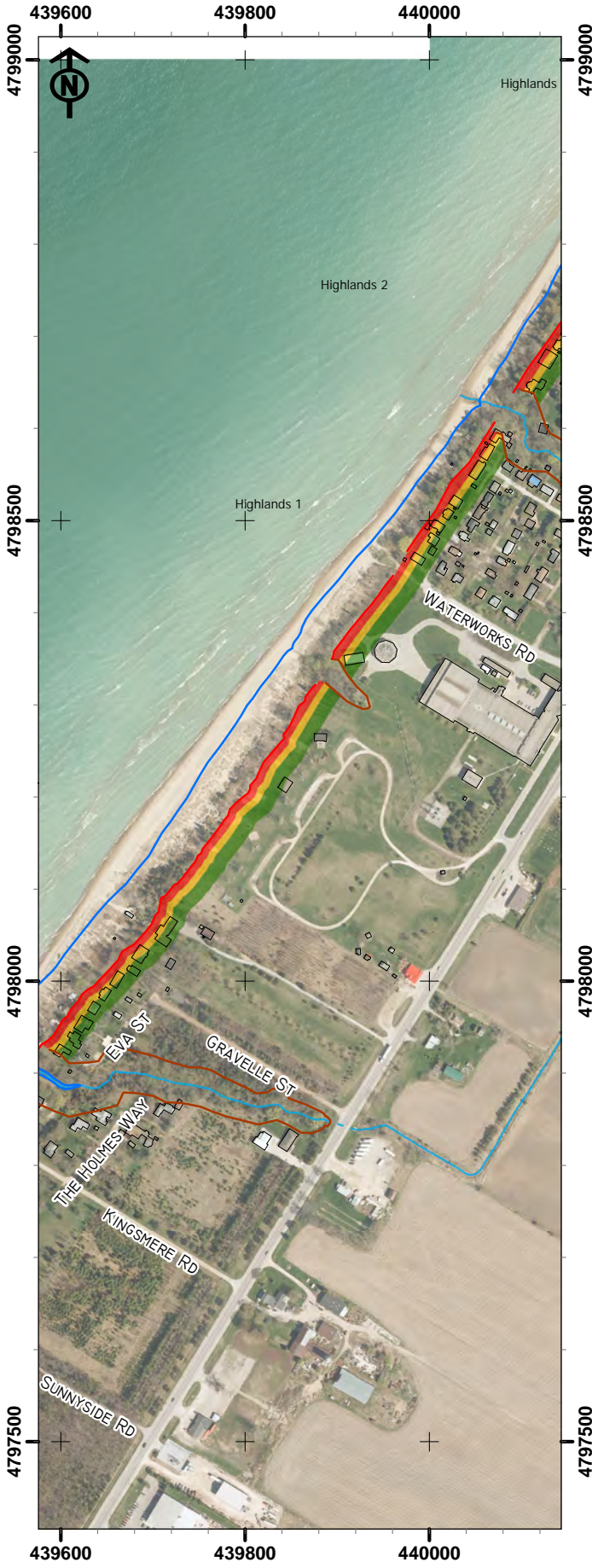
Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 3 Cohesive bluffs

Lakeshore features




-  Lake 100 year flood (FDRP 1988)
-  Stable Slope (3:1) - Lakeshore Area 1

Cohesive Bluffs Policy Zones

-  0 - see Lakeshore Area 1 activities
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-  2 - major and minor additions with conditions
-  3 - all activities except new lots
-  Stable Slope (3:1) - Gully
-  Building
-  Surface watercourse
-  Subsurface (tile) waterflow



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COHESIVE BLUFF AREAS GENERALLY NORTH OF AND INCLUDING MAPLE GROVE SUBDIVISION			
ZONE	ZONE DEFINITION	MAP COLOUR	PERMITTED ACTIVITIES
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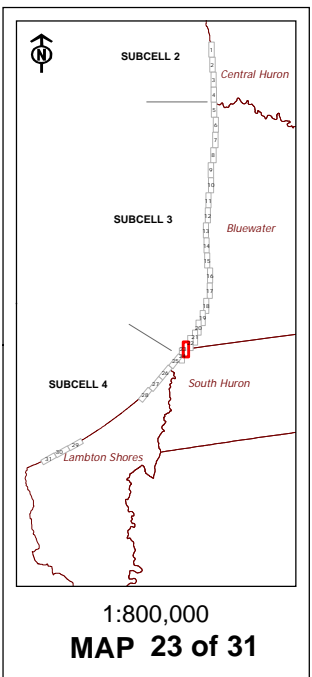
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Lakeshore Area 1 in the dynamic beach calculated from the 1988 horizontal location of the 100 year lake flood level,



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




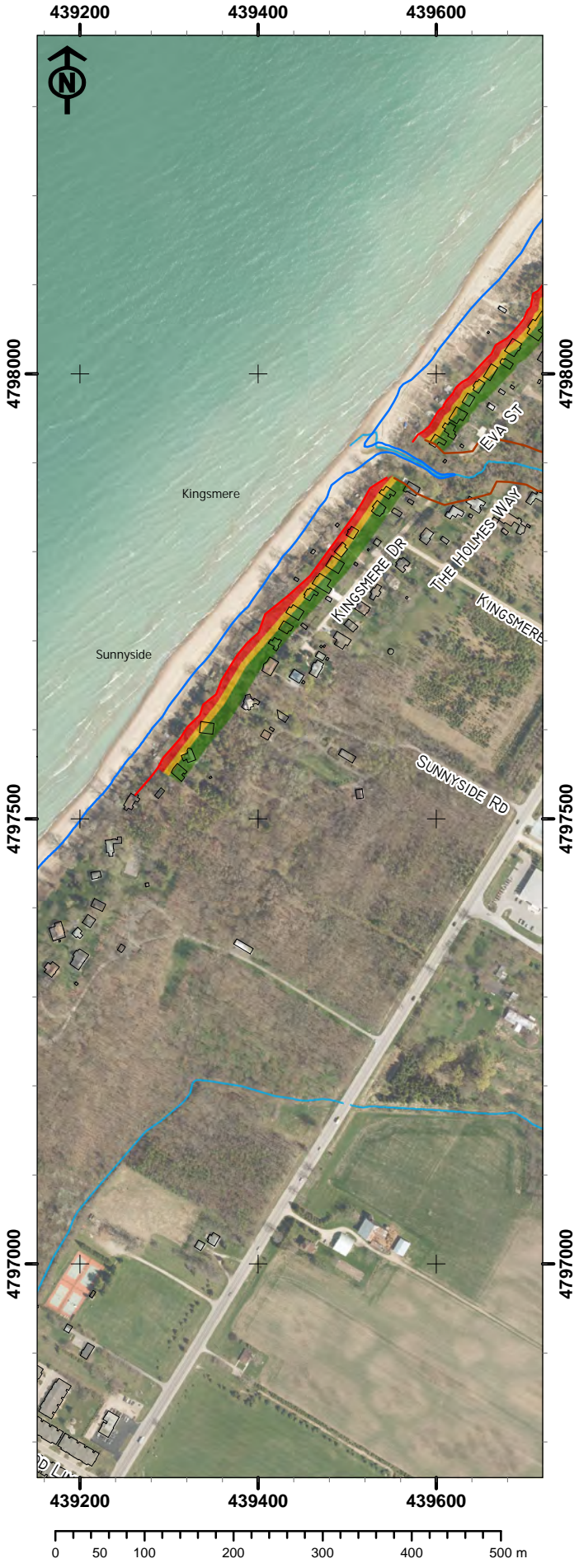
Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 3 Cohesive bluffs




Lakeshore features

-  Lake 100 year flood (FDRP 1988)
-  Stable Slope (3:1) - Lakeshore Area 1

Cohesive Bluffs Policy Zones

-  0 - see Lakeshore Area 1 activities
-  1 - minor additions
-  2 - major and minor additions with conditions
-  3 - all activities except new lots
-  Stable Slope (3:1) - Gully
-  Building
-  Surface watercourse
-  Subsurface (tile) waterflow



COHESIVE BLUFF AREAS GENERALLY NORTH OF AND INCLUDING MAPLE GROVE SUBDIVISION			
ZONE	ZONE DEFINITION	MAP COLOUR	PERMITTED ACTIVITIES
ALL	ALL ZONES	NOT SHOWN	Repairs and maintenance, Interior alterations where no increase in habitable area, like for like rebuilding of existing dwelling destroyed by other than flood and erosion, repair and maintenance of existing decks, repair and maintenance of existing septic systems, "technical" severance, lot consolidation, non-habitable accessory structure less than 10 sq. m.
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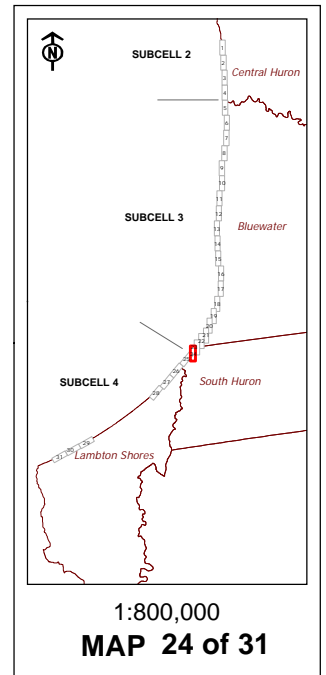
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Lakeshore Area 1 in the dynamic beach calculated from the 1988 horizontal location of the 100 year lake flood level,

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Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 4 Dynamic Beach



Lakeshore features

- Lake 100 year flood (FDRP 1988)
- Stable Slope (3:1) - Lakeshore Area 1

Dynamic Beach Lakeshore Policy Zone

Policy Zone

- 0 - see Lakeshore Area 1 activities
- 1 - major and minor additions
- 2 - major and minor additions plus
- Stable Slope (3:1) - Gully
- Building
- Surface watercourse
- - - Subsurface (tile) waterflow

DYNAMIC BEACH AREAS GENERALLY SOUTH OF MAPLE GROVE SUBDIVISION			
ZONE	ZONE DEFINITION	MAP COLOUR	PERMITTED ACTIVITIES
ALL	ALL ZONES	NOT SHOWN	Repairs and maintenance, interior alterations where no increase in habitable area, like for like rebuilding of existing dwelling destroyed by other than flood and erosion, repair and maintenance of existing decks, repair and maintenance of existing septic systems, "technical" severance, lot consolidation, non-habitable accessory structure less than 10 sq. m.
1	Landward setback of 7.5 m. from Lakeshore Area 1	■	Major additions, minor additions, swimming pool, non-habitable accessory structures greater than 10 sq. m.
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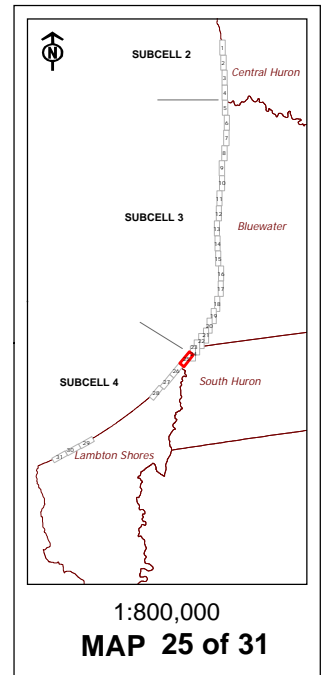
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Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 4 Dynamic Beach



Lakeshore features

-  Lake 100 year flood (FDRP 1988)
-  Stable Slope (3:1) - Lakeshore Area 1

Dynamic Beach Lakeshore Policy Zone

Policy Zone

-  0 - see Lakeshore Area 1 activities
-  1 - major and minor additions
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-  Stable Slope (3:1) - Gully
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-  Surface watercourse
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DYNAMIC BEACH AREAS GENERALLY SOUTH OF MAPLE GROVE SUBDIVISION			
ZONE	ZONE DEFINITION	MAP COLOUR	PERMITTED ACTIVITIES
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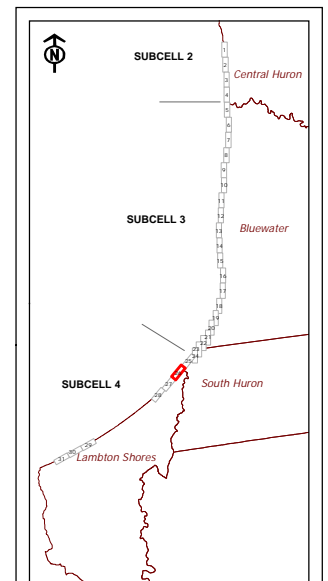
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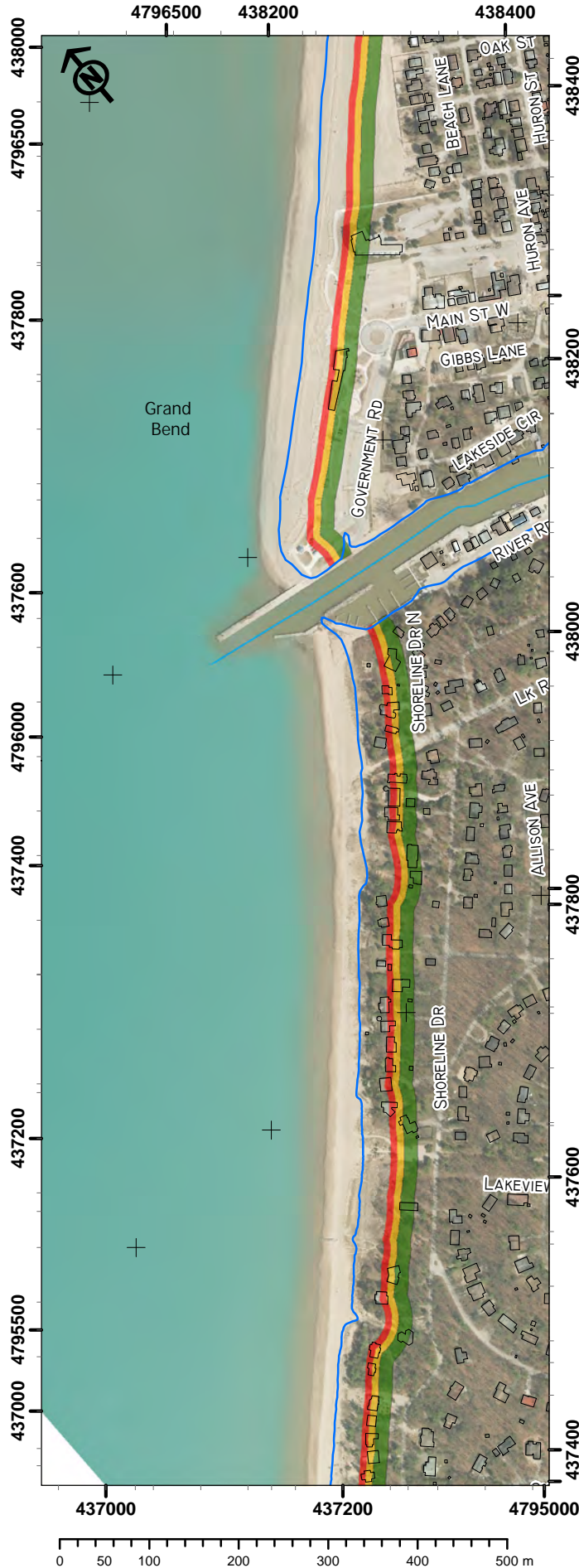
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1:800,000



MAP 26 of 31



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Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 4 Dynamic Beach



Lakeshore features

-  Lake 100 year flood (FDRP 1988)
-  Stable Slope (3:1) - Lakeshore Area 1

Dynamic Beach Lakeshore Policy Zone

Policy Zone

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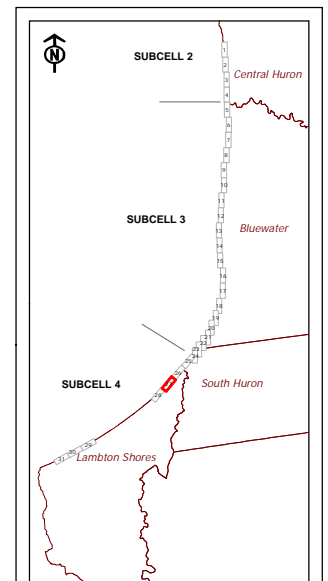
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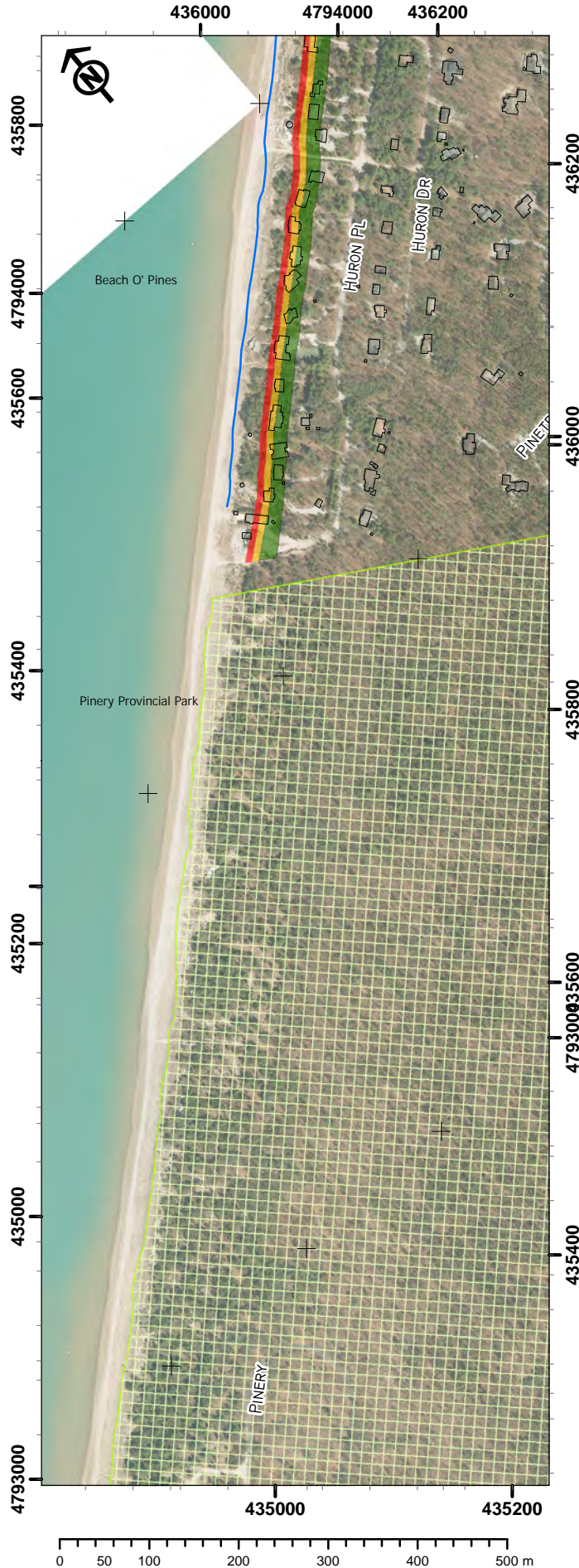


1:800,000

MAP 27 of 31



Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 4 Dynamic Beach



Lakeshore features

- Lake 100 year flood (FDRP 1988)
- Stable Slope (3:1) - Lakeshore Area 1

Dynamic Beach Lakeshore Policy Zone

- Policy Zone**
- 0 - see Lakeshore Area 1 activities
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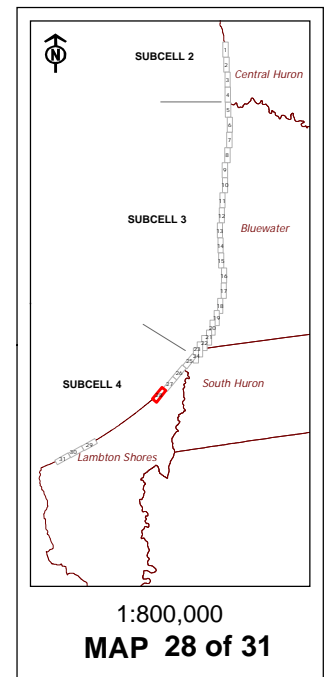
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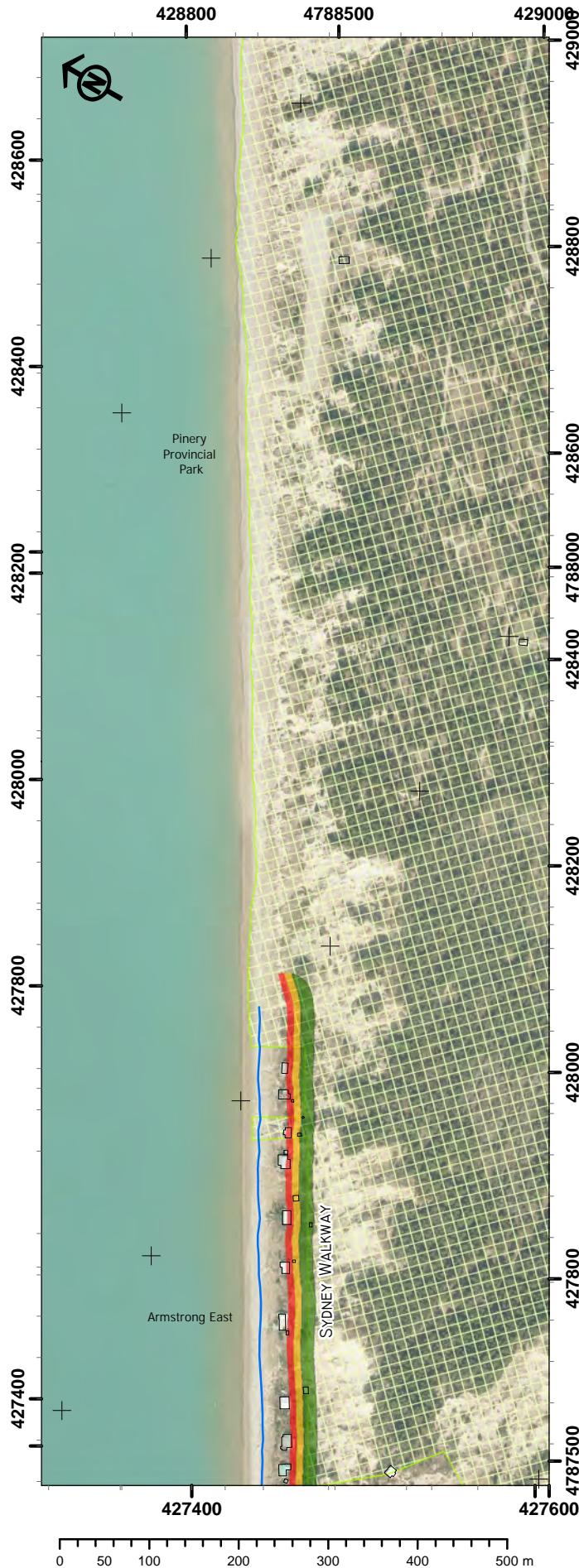
Lakeshore Area 1 in the dynamic beach calculated from the 1988 horizontal location of the 100 year lake flood level,

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Ausable Bayfield CA Lake Huron Shoreline Hazards SUBCELL 4 Dynamic Beach



Lakeshore features

- Lake 100 year flood (FDRP 1988)
- Stable Slope (3:1) - Lakeshore Area 1

Dynamic Beach Lakeshore Policy Zone

Policy Zone

- 0 - see Lakeshore Area 1 activities
- 1 - major and minor additions
- 2 - major and minor additions plus
- Stable Slope (3:1) - Gully
- Building
- Surface watercourse
- - - Subsurface (tile) waterflow

DYNAMIC BEACH AREAS GENERALLY SOUTH OF MAPLE GROVE SUBDIVISION			
ZONE	ZONE DEFINITION	MAP COLOUR	PERMITTED ACTIVITIES
ALL	ALL ZONES	NOT SHOWN	Repairs and maintenance, interior alterations where no increase in habitable area, like for like rebuilding of existing dwelling destroyed by other than flood and erosion, repair and maintenance of existing decks, repair and maintenance of existing septic systems, "technical" severance, lot consolidation, non-habitable accessory structure less than 10 sq. m.
1	Landward setback of 7.5 m. from Lakeshore Area 1	■	Major additions, minor additions, swimming pool, non-habitable accessory structures greater than 10 sq. m.
2	Landward setback of 15.0 m. from Lakeshore Area 1	■	Major additions, minor additions, swimming pool, non-habitable accessory structures greater than 10 sq. m. Habitable accessory structures, lot re-development where insufficient room landward of Lakeshore Area 2, new dwellings on existing vacant lots where insufficient room landward of Lakeshore Area 2 Lot redevelopment/new dwellings

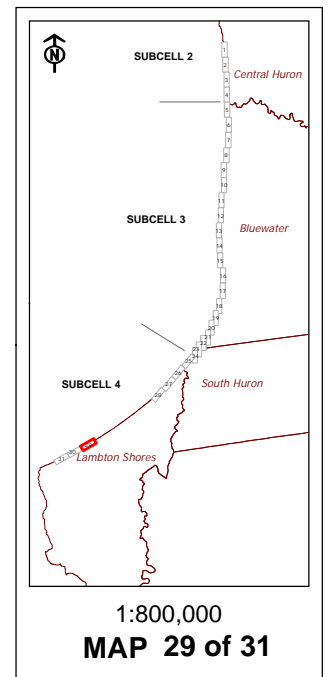
Mapping Notes:

Lakeshore Area 1 in the cohesive bluffs calculated from 2007 vector data and contours acquired from First Base Solutions and a 0.25 m DEM created by the ABCA, except in areas where toe erosion has occurred. In these areas data from the 2015 SWOOP project was used.

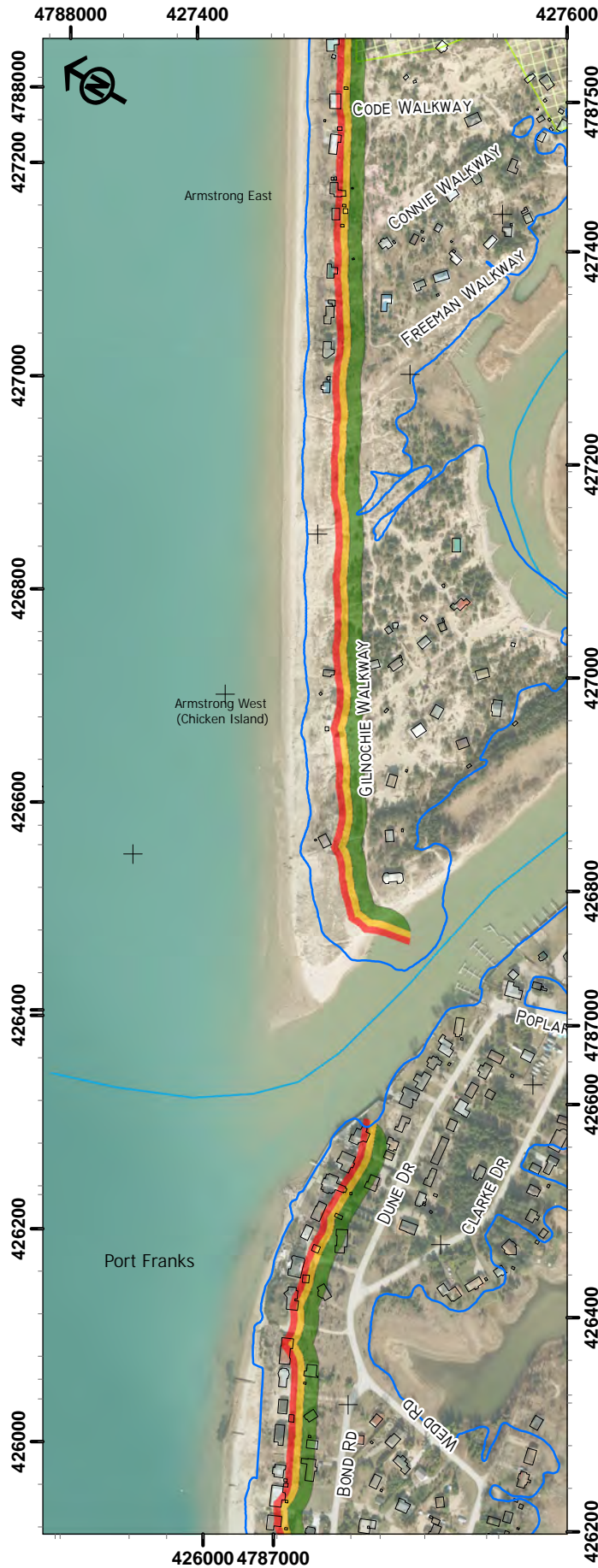
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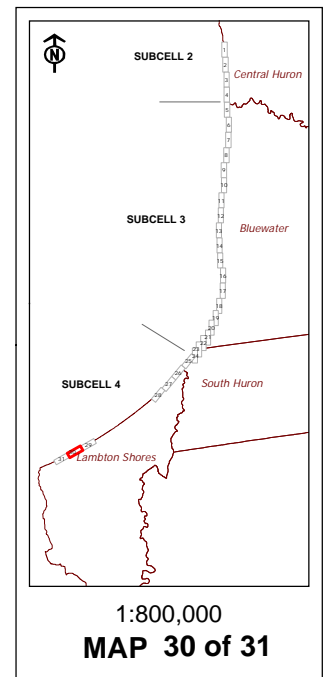
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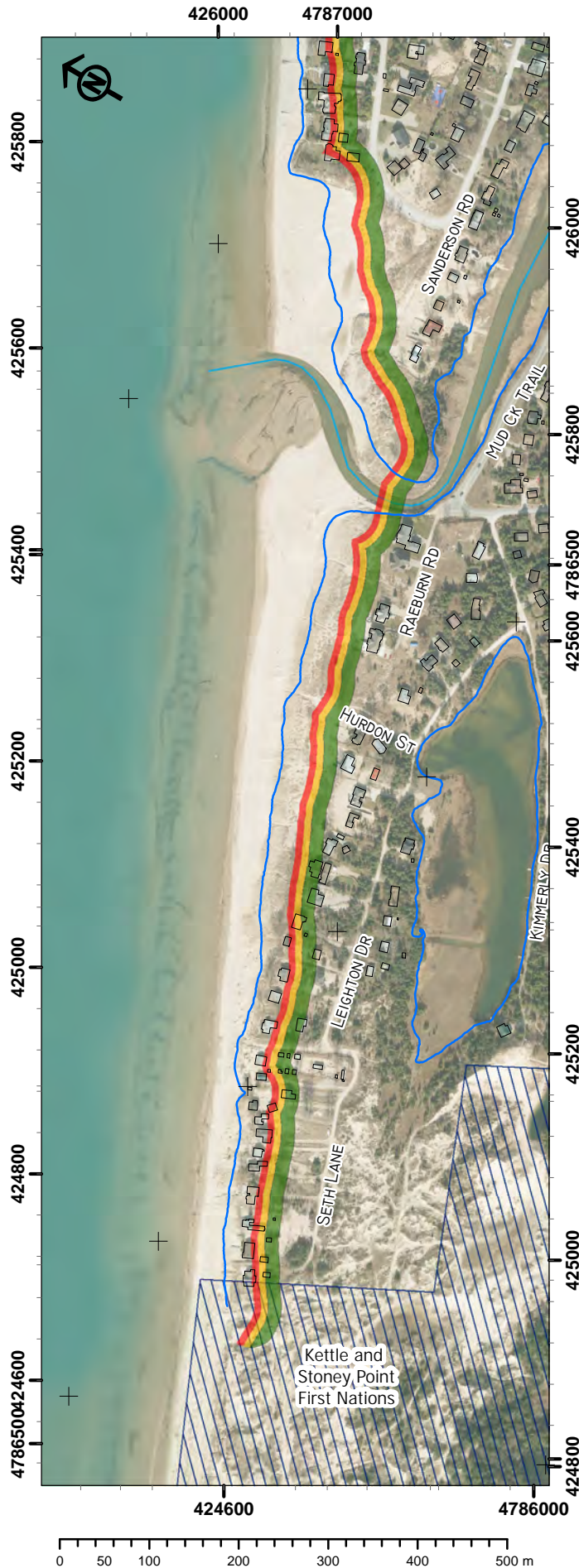
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