



# 2020 | Evacuation Mapping

Evacuation Plan: Part 4

## Version History: Mapping

Version	Description	Updated by	Date
1	Final	Logic League Consulting Ltd.	2020 07 26

## Contents

Version History: Mapping .....	1
Purpose .....	2
Summary .....	2
1. Resource Maps.....	2
2. Door-to-Door Notification Resources .....	3
Resource Maps.....	5
Egress Routes .....	5
Traffic Control Points .....	6
Receiving Points .....	7
Summary Map.....	8
Door-2-Door Notification Resources .....	9
Sector Index Map .....	9
North East .....	10
North West.....	11
Albert head .....	12
Central.....	13
Central Coast.....	14
South West.....	15
South East .....	16

## Purpose

Mapping resources have been developed to expedite the planning and execution of an evacuation in Metchosin.

## Summary

The Evacuation Mapping resources contained in this section are:

1. Resource Maps
  - 1.1. Egress Routes
  - 1.2. Traffic Control Points
  - 1.3. Receiving Points
  - 1.4. Summary Map
2. Door-to-Door Notification Resources
  - 2.1. Sector Index Map
  - 2.2. Assignment Area Index Map
  - 2.3. Assignment Area Layout Maps (Annex A)

### 1. Resource Maps

Map	Description	Notes
<b>1.1 Egress Routes</b>	Major collector routes that lead out of Metchosin	A formal traffic study was not conducted. Observational analysis of the road network was used to determine major routes and was validated with Highlands Staff
<b>1.2 Traffic Control Points</b>	Anticipated points of congestion or major intersections that may need additional traffic control measures	A formal traffic study was not conducted. Points of convergence or anticipated congestion were identified along egress routes
<b>1.3 Receiving Points</b>	Facilities that can be used to receive and support evacuees	ESS Reception Centres were used as Receiving Points
<b>1.4 Summary Map</b>	The three above maps combined on a single page	

### Assumptions and Limitations:

The methodology used was based on best available data at the time of development.

- Time estimates are approximate and not absolute.
- GIS data from the Municipality was used with the assumption that it is up-to-date and accurate.

## 2. Door-to-Door Notification Resources

Highlands was divided into notification assignments based on the methodology below. During an evacuation, only the required Assignments or portions thereof need to be activated.

### Methodology:

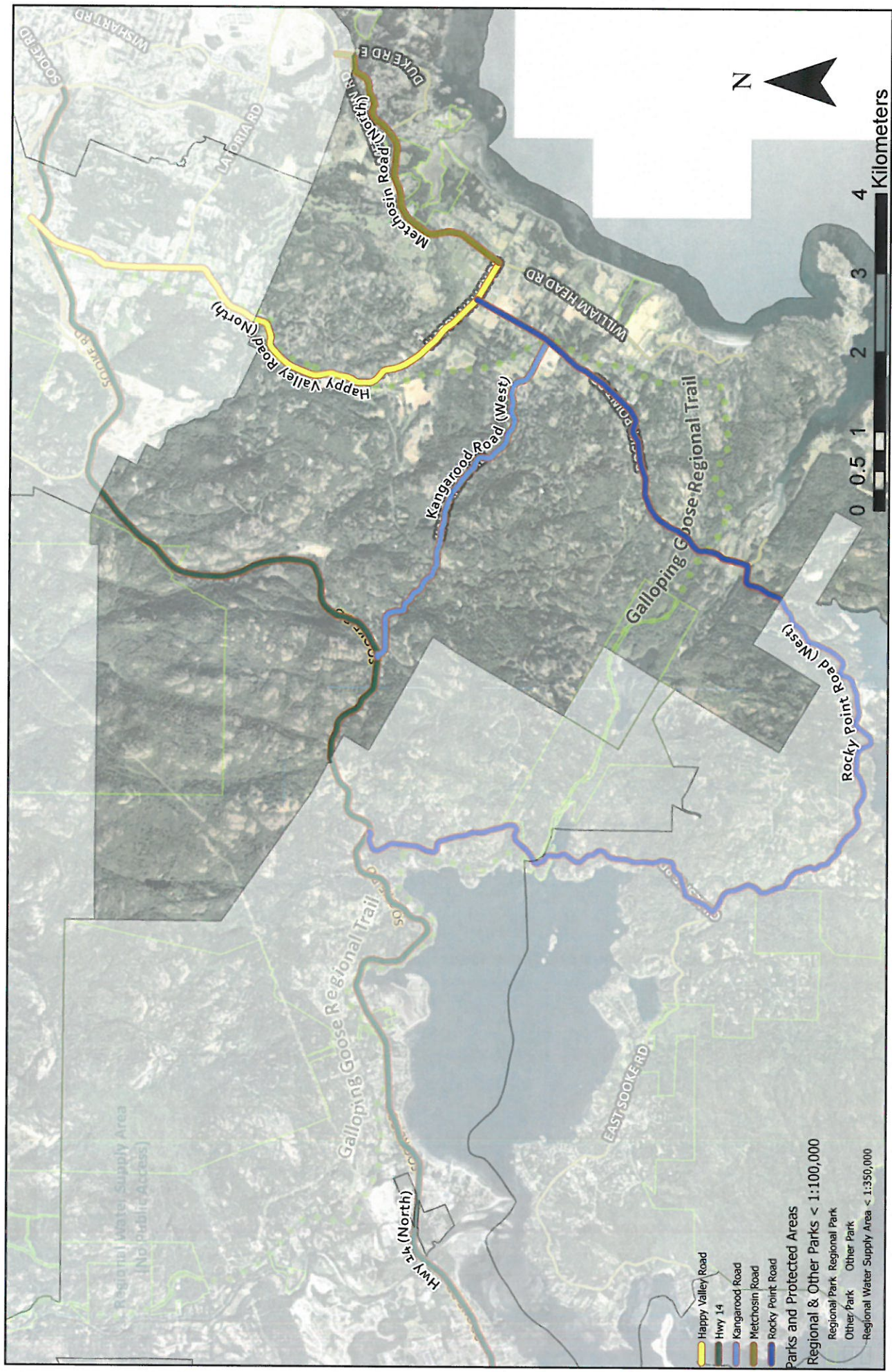
Step 1:	Each address was assigned a notification time. <ul style="list-style-type: none"><li>• Multi-family buildings: 2 minutes per suite</li><li>• Single Family building: 4 minutes per property</li><li>• Large parcel holdings (greater than 1 acre): 6 minutes per property</li></ul>
Step 2:	The municipality was divided into Sectors. <ul style="list-style-type: none"><li>• The Sectors were developed by grouping neighbourhoods based on egress routes and their potential points of failure.</li></ul>
Step 3:	For each Sector, Assignments were created: <ul style="list-style-type: none"><li>• As contiguous as possible and</li><li>• Targeting 60 minutes per Assignment</li></ul>
Step 4:	Reports were developed to summarize the Sectors and Assignments. (Described below)

### Reports:

2.1 Sector Index Map	A view of Metchosin with all Sectors.
2.2 Assignment Area Indices	A view of a single Sector with each of its assignments.
2.3 Assignment Area Layouts	A map and table of addresses for each assignment. These maps are contained in Annex A.

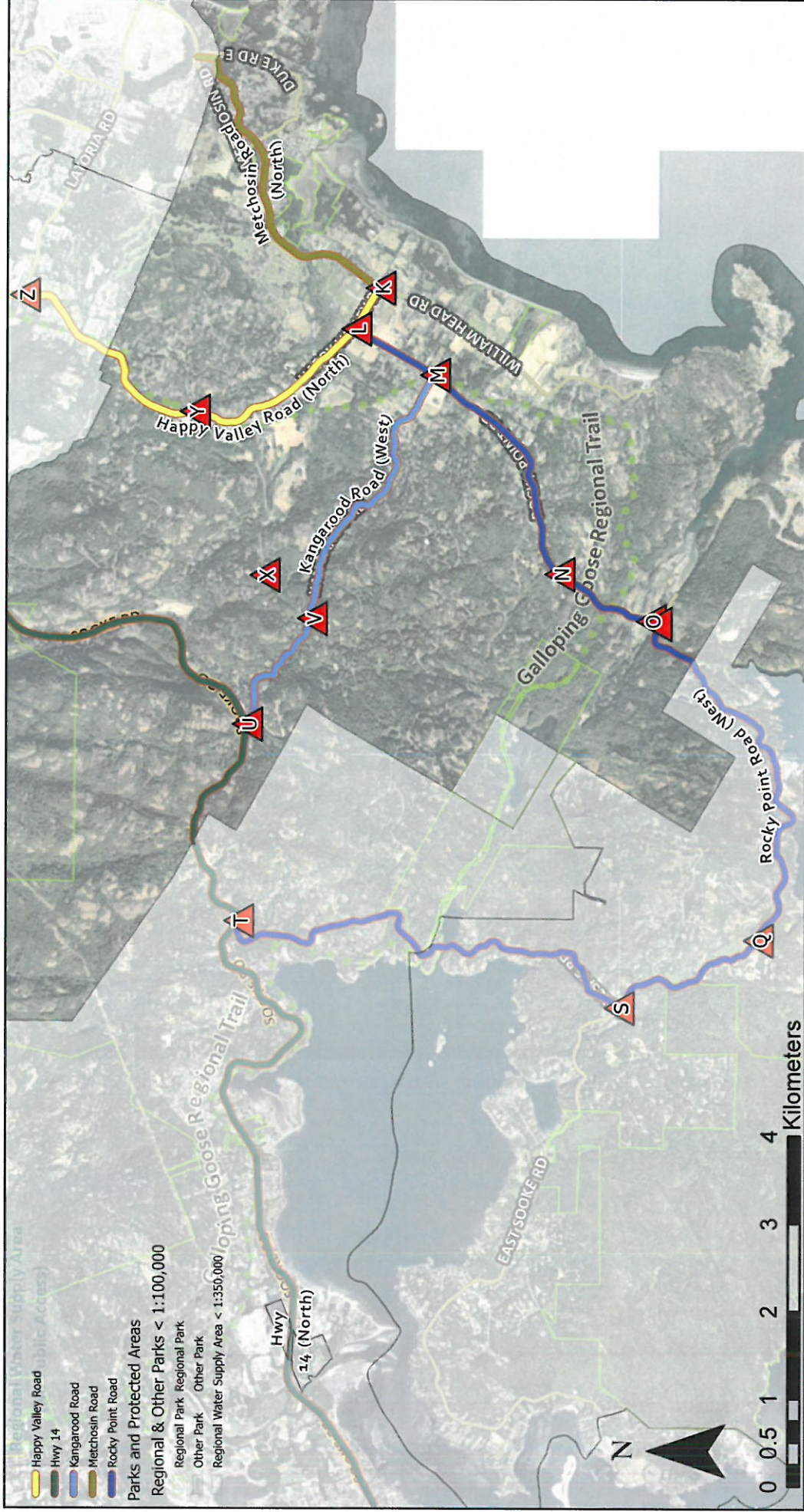


# Resource Map. Egress Routes (Egress Routes used will depend on operational requirements)





# Resource Map: Traffic Control Points (Points used will depend on operational requirements)



ID	IntersectionOf	Cross Road	ID	IntersectionOf	Cross Road
K	Metchosin Road	Happy Valley Road	V	Kangaroo Road	Lindholm Road
L	Happy Valley Road	Rocky Point Road	X	Lindholm Road	Spellman Place
M	Rocky Point Road	Kangaroo Road	Y	Happy Valley Road	Glen Forest Way
O	Rocky Point Road	Pedder Bay Drive	Z	Happy Valley Road	Latoria Road
P	Rocky Point Road	East Sooke Road			
N	Rocky Point Road	Liberty Drive			
Q	East Sooke Road	Becher Bay Road			
S	East Sooke Road	Gillespie Road			
T	Gillespie Road	Hwy 14/Sooke Road			
U	Hwy 14/Sooke Road	Kangaroo Road			



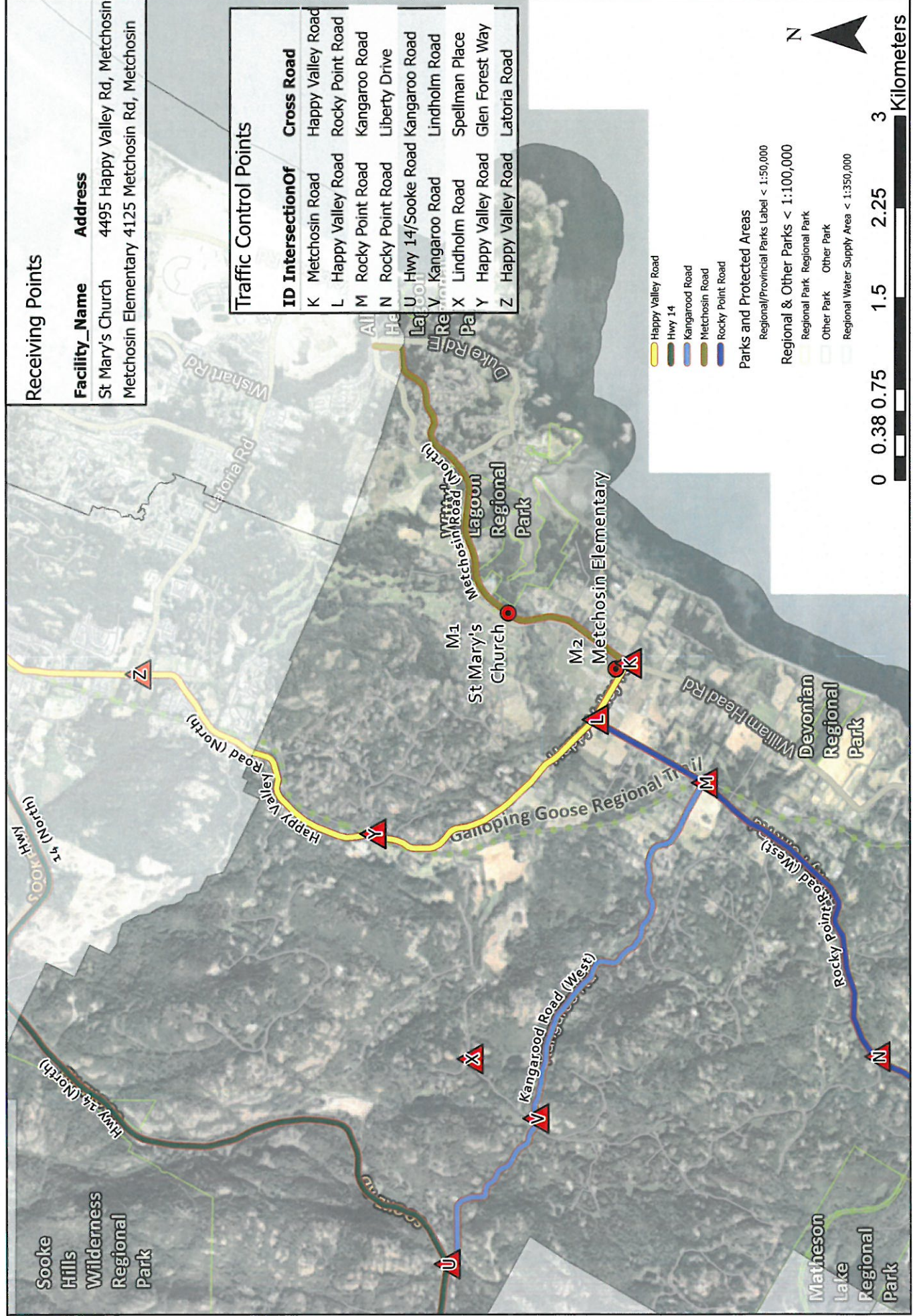
Resource Map: Receiving Points  
(Receiving Points used will depend on operational requirements)



ID	Municipality	Facility_Name	Address
L1	Langford	Westhills Arena	1089 Langford Pkwy, Victoria, BC V9B 0A5
VRC2	View Royal/Colwood	Juan de Fuca Recreation Centre - Senior	1767 Island Hwy, Victoria, BC V9B 1J1
VRC3	View Royal/Colwood	Songhees Wellness Centre	1100 Admirals Rd.
M1	Metchosin	St Mary's Church	4495 Happy Valley Rd, Metchosin
M2	Metchosin	Metchosin Elementary	4125 Metchosin Rd, Metchosin



# Resource Map: Routes & Points (Egress Routes used will depend on operational requirements)



### Receiving Points

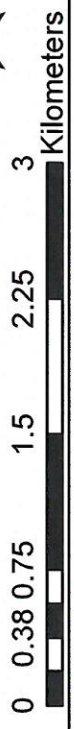
Facility_Name	Address
St Mary's Church	4495 Happy Valley Rd, Metchosin
Metchosin Elementary	4125 Metchosin Rd, Metchosin

### Traffic Control Points

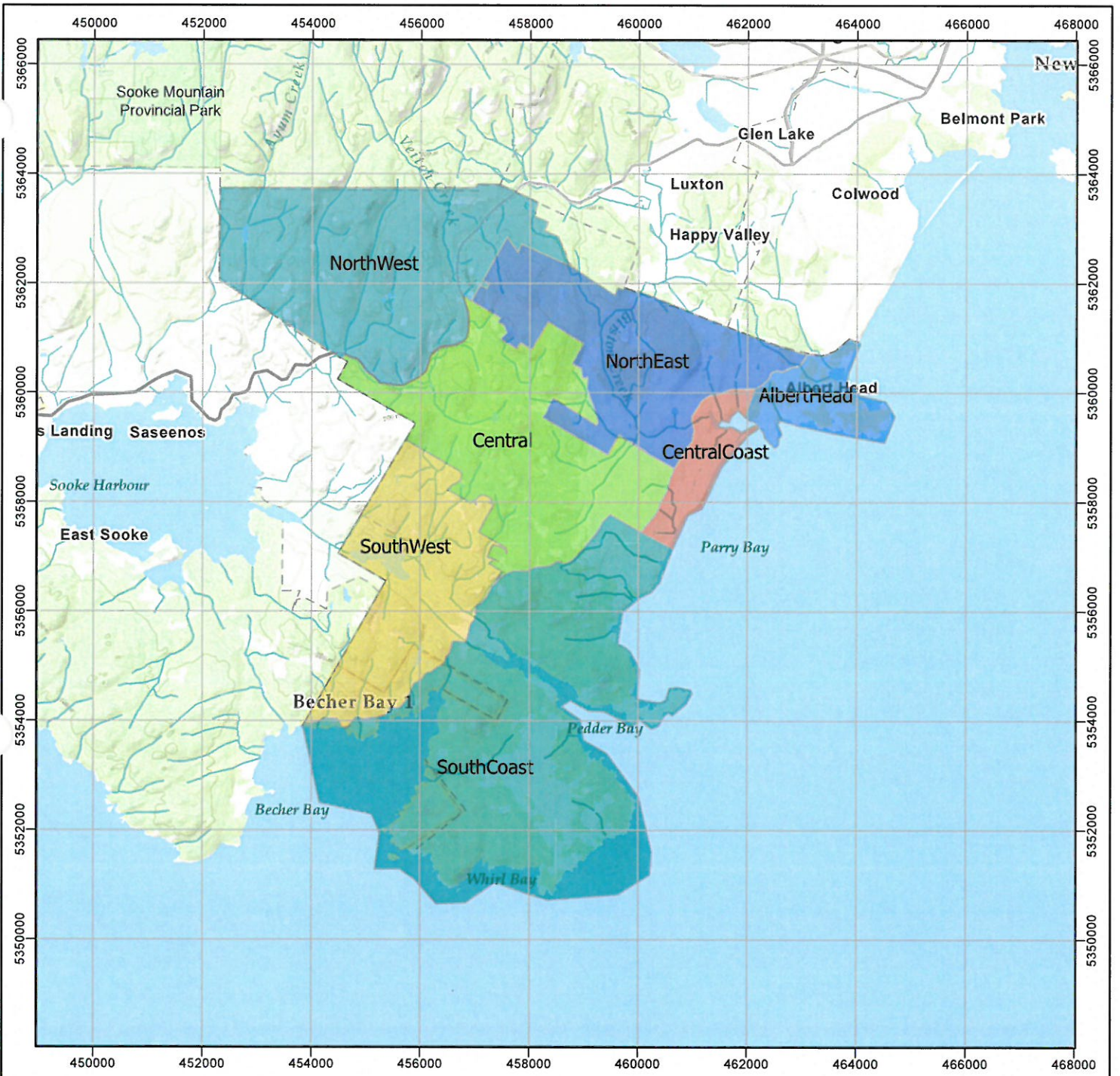
ID	IntersectionOf	Cross Road
K	Metchosin Road	Happy Valley Road
L	Happy Valley Road	Rocky Point Road
M	Rocky Point Road	Kangaroo Road
N	Rocky Point Road	Liberty Drive
U	Hwy 14/Sooke Road	Kangaroo Road
V	Kangaroo Road	Lindholm Road
X	Lindholm Road	Spellman Place
Y	Happy Valley Road	Glen Forest Way
Z	Happy Valley Road	Latoria Road

- Happy Valley Road
- Hwy 14
- Kangaroo Road
- Metchosin Road
- Rocky Point Road

- Parks and Protected Areas**
- Regional/Provincial Parks Label < 1:50,000
  - Regional & Other Parks < 1:100,000
    - Regional Park
    - Other Park
  - Regional Water Supply Area < 1:350,000







**Sector**

**Name**

- AlbertHead
- Central
- CentralCoast
- NorthEast
- NorthWest
- SouthCoast
- SouthWest

# Metchosin Sector Index



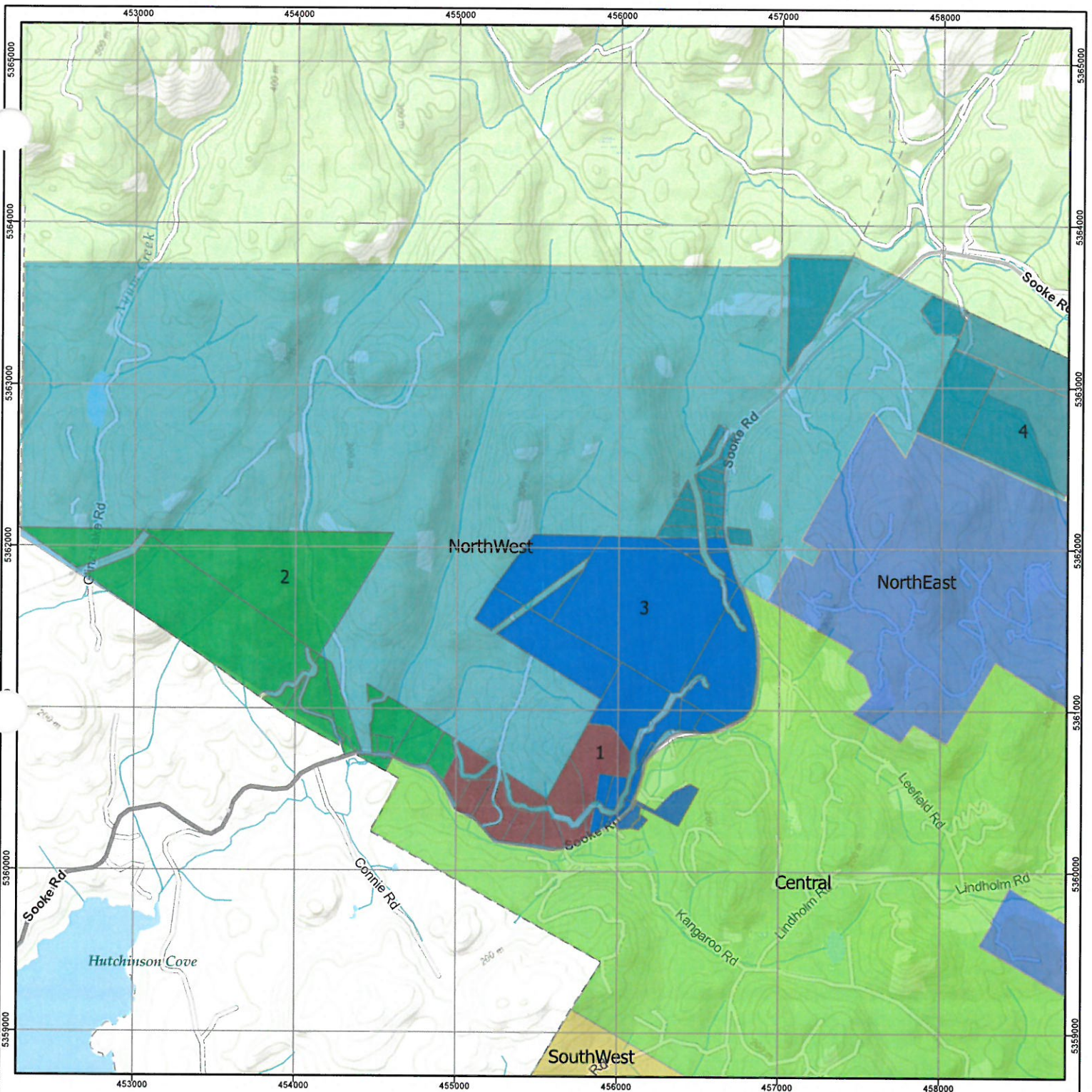
Scale: 1:100,000



Kilometers

PCS: NAD 1983 UTM Zone 10N

15 June 2020



# Metchosin Assignment Area Index

## Sector: NorthWest

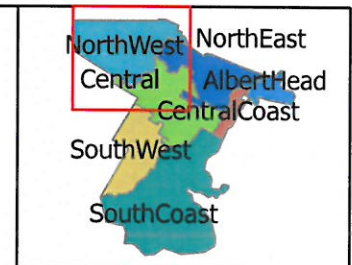
### Assignment Area

- 1
- 2
- 3
- 4



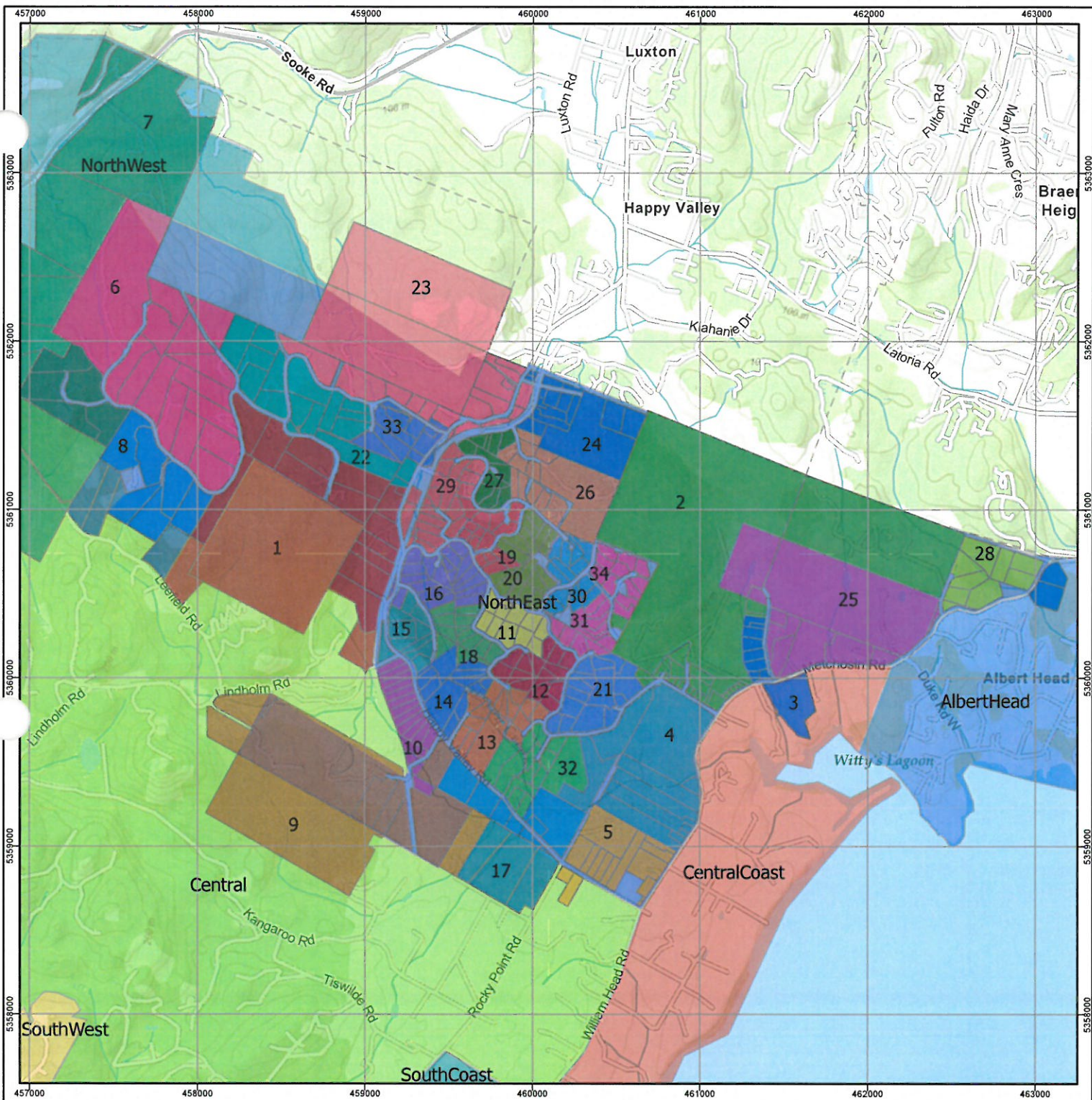
Scale: 1:32,000

UTM Zone 10, NAD 83



**LOGIC LEAGUE**  
CONSULTING LTD.

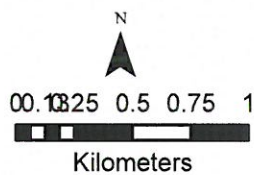
15 June 2020



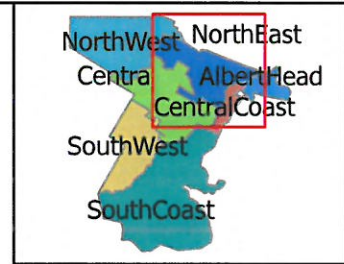
# Metchosin Assignment Area Index

## Sector: NorthEast

Assignment Area	7	14	21	28
1	8	15	22	29
2	9	16	23	30
3	10	17	24	31
4	11	18	25	32
5	12	19	26	33
6	13	20	27	34

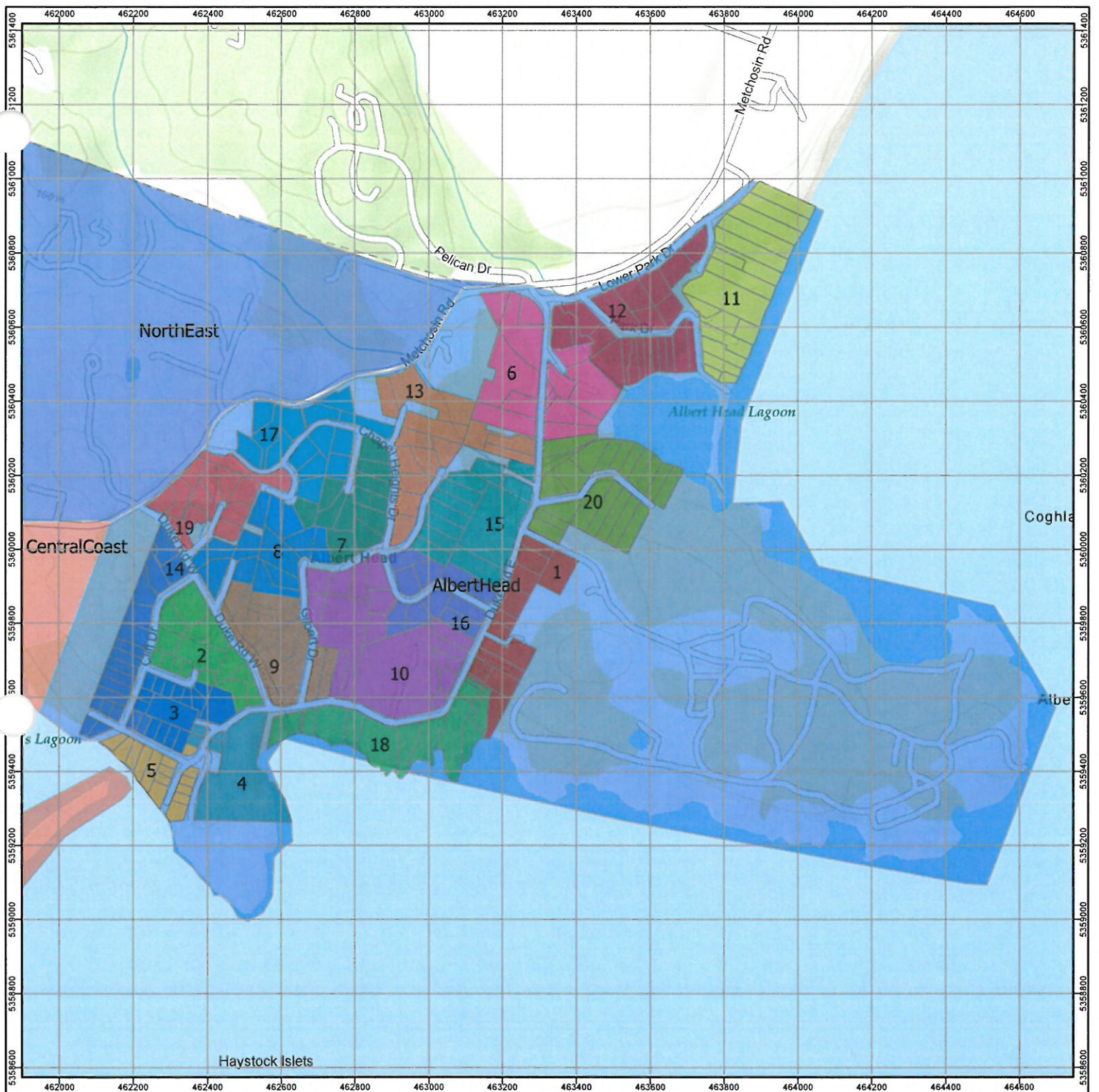


Scale: 1:31,000  
UTM Zone 10, NAD 83



**LOGIC LEAGUE**  
CONSULTING LTD.

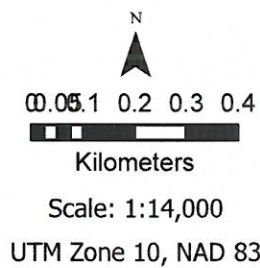
15 June 2020



# Metchosin Assignment Area Index

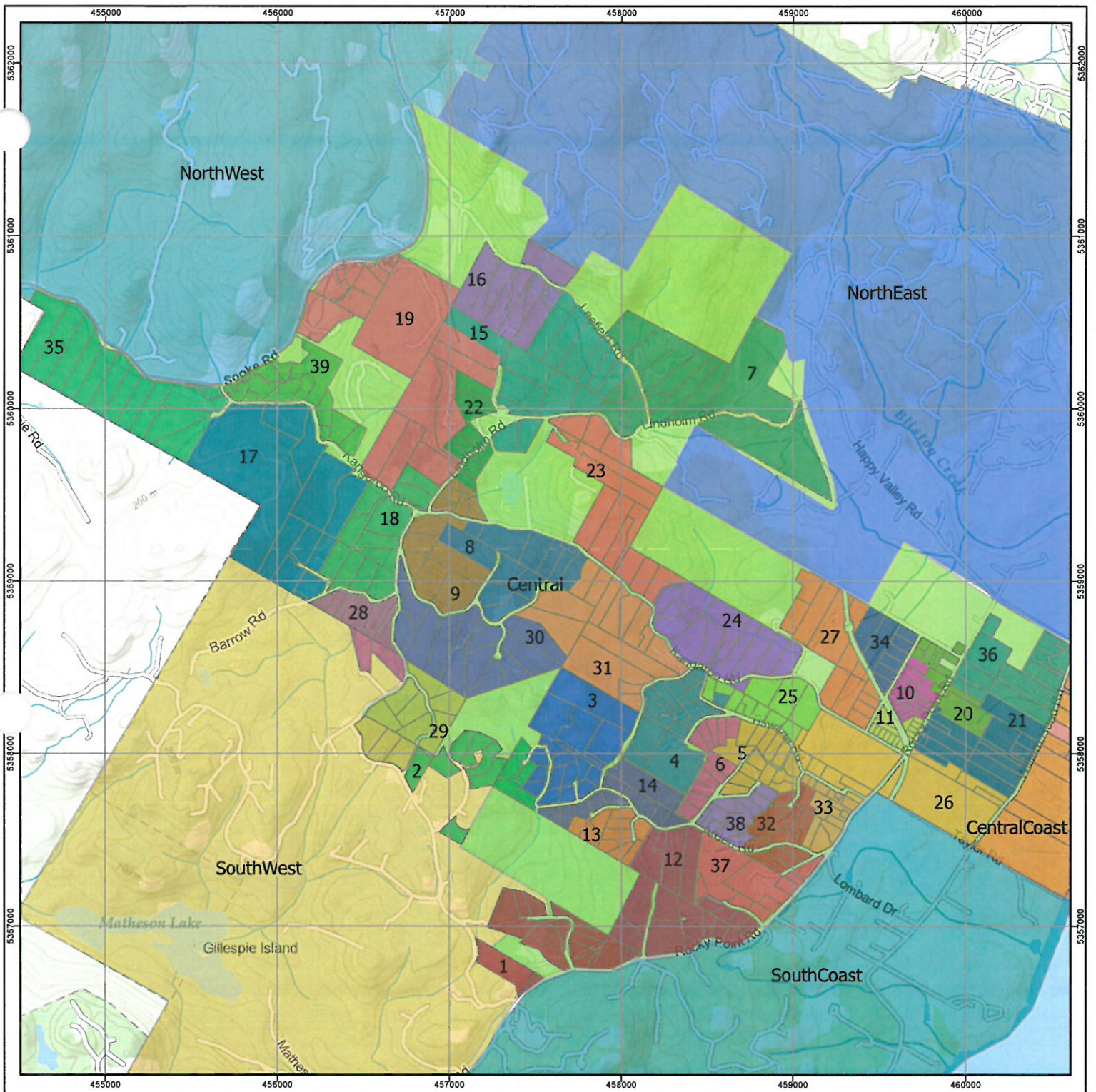
## Sector: AlbertHead

Assignment Area	5	11	17
1	6	12	18
2	7	13	19
3	8	14	20
4	9	15	
	10	16	



**LOGIC LEAGUE**  
CONSULTING LTD.

15 June 2020



# Metchosin Assignment Area Index

## Sector: Central

Assignment Area	8	16	24	32
1	9	17	25	33
2	10	18	26	34
3	11	19	27	35
4	12	20	28	36
5	13	21	29	37
6	14	22	30	38
7	15	23	31	39

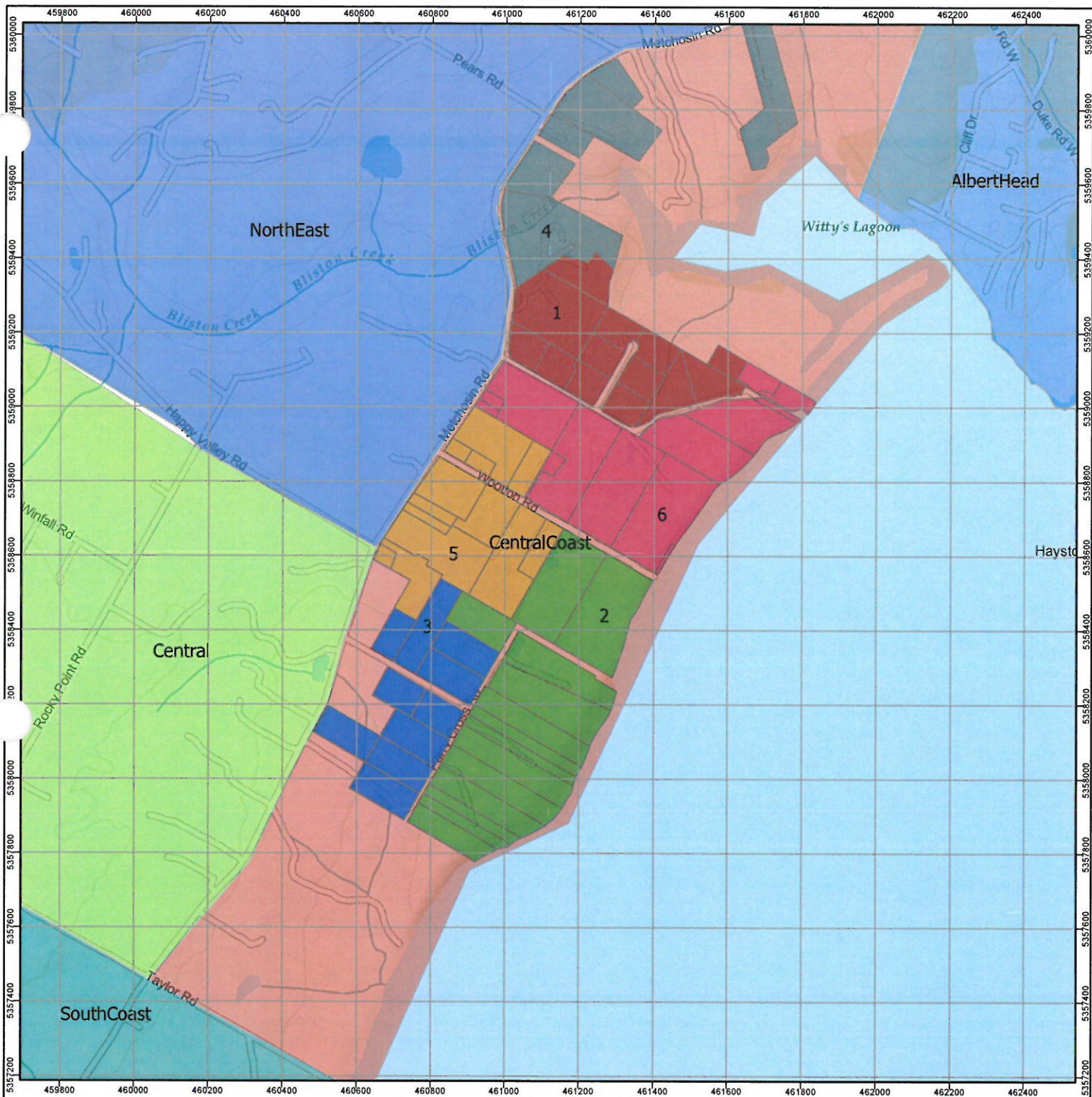


Scale: 1:30,000  
UTM Zone 10, NAD 83



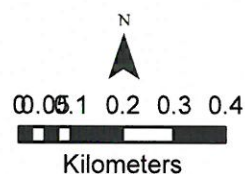
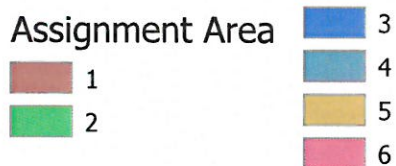
**LOGIC LEAGUE**  
CONSULTING LTD.

15 June 2020

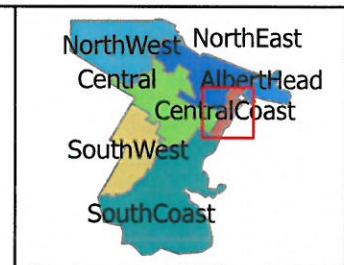


# Metchosin Assignment Area Index

## Sector: CentralCoast

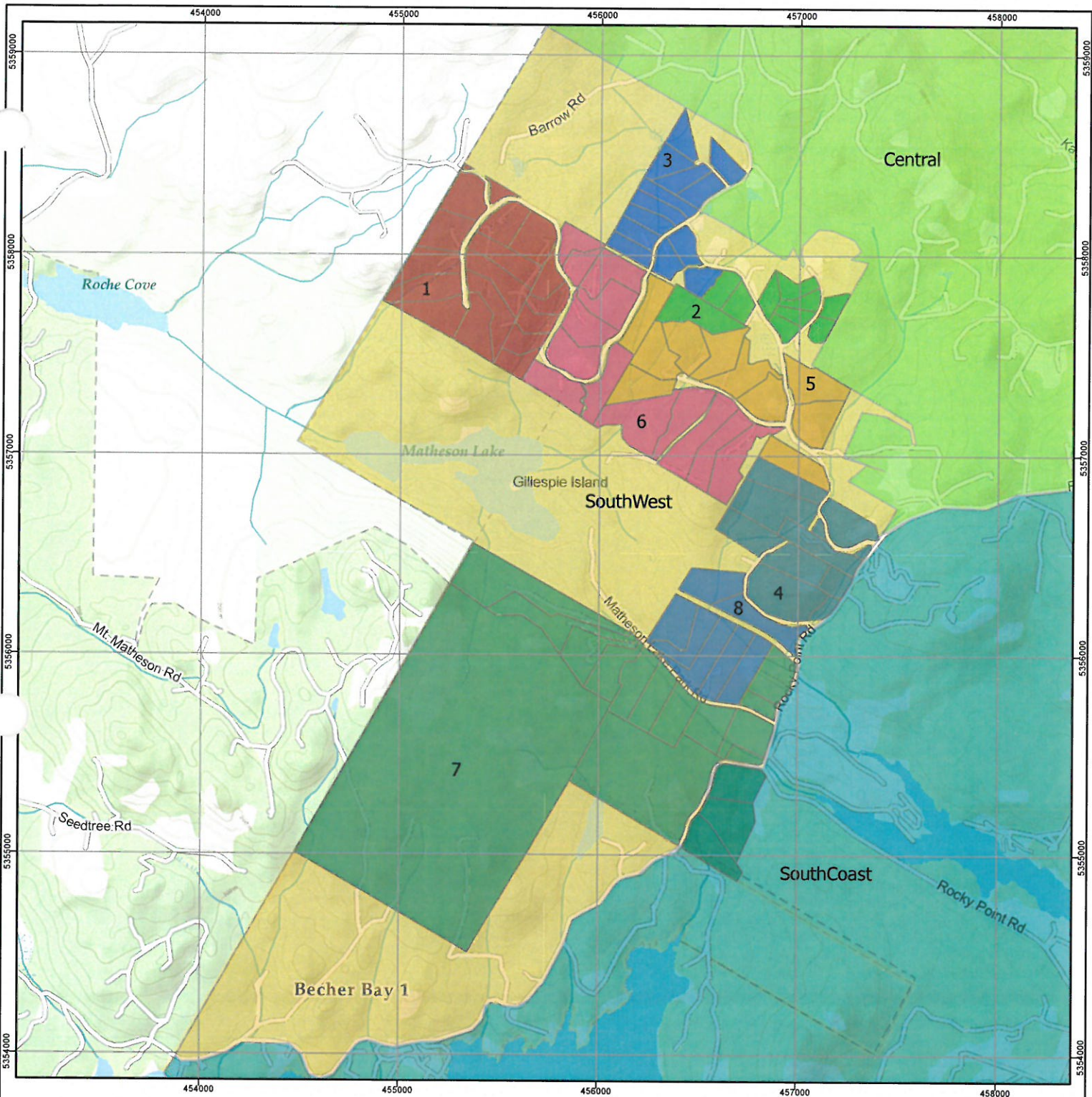


Scale: 1:14,000  
 UTM Zone 10, NAD 83



**LOGIC LEAGUE**  
 CONSULTING LTD.

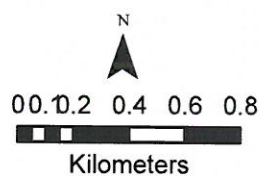
15 June 2020



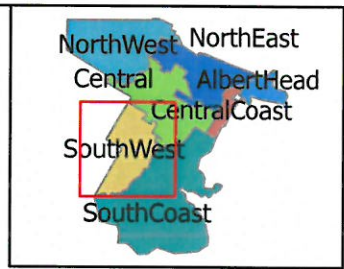
# Metchosin Assignment Area Index

## Sector: SouthWest

Assignment Area	Color	Number
1	Red	1
2	Green	2
3	Blue	3
4	Light Blue	4
5	Yellow	5
6	Pink	6
7	Dark Green	7
8	Dark Blue	8

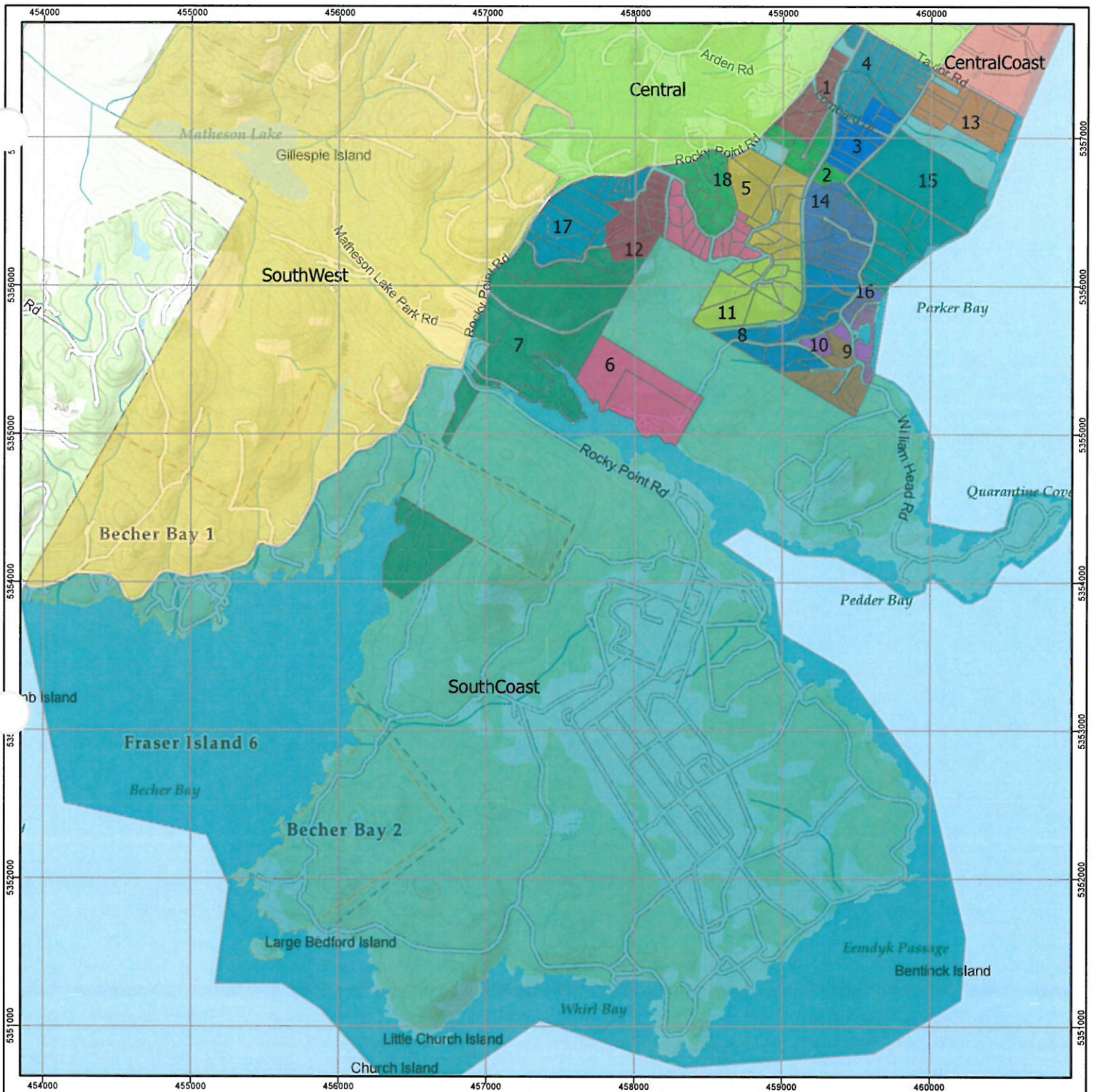


Scale: 1:26,000  
UTM Zone 10, NAD 83



**LOGIC LEAGUE**  
CONSULTING LTD.

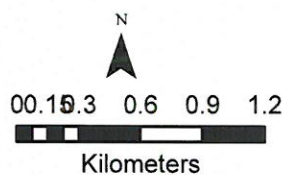
15 June 2020



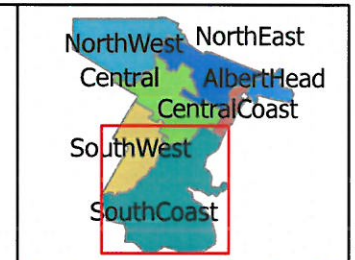
# Metchosin Assignment Area Index

## Sector: SouthCoast

Assignment Area		
1	7	14
2	8	15
3	9	16
4	10	17
5	11	18
6	12	
	13	



Scale: 1:35,000  
UTM Zone 10, NAD 83



**LOGIC LEAGUE**  
CONSULTING LTD.

15 June 2020