

**COMMUNITY SAFETY  
EMERGENCY ALERT SYSTEM  
INFORMATION PACKAGE**

COMMUNITY OF PREDATOR RIDGE

(PRCEMC) COMMUNITY SAFETY COMMITTEE AUGUST 2021

# COMMUNITY SAFETY INITIATIVE

- The acquisition and installation of an Emergency Alert Siren within the community of Predator Ridge
  - We are recommending a High Power Directional Siren

# WHY

- Many residents and guests feel uneasy with the current wild fire situation and the growing numbers of wild fires we seem to be experiencing every year

## The community has grown


- Predator 800+ doors
  - Resort 150 guests, 200+ employees
  - Sparkling Hill 150 guests, 150+ employees
  - Local residence using the golf facilities and restaurants
  - Local residents and visitors using the hiking and cycling trails
  - Contractors and trades people working on the property
- Due to the nature of our location and for the safety of our residents and resort guests, we are recommending an Emergency Alert System be installed that can quickly alert everyone in the area of imminent danger, such as a wild fire.

# EXAMPLES OF COMMUNITIES USING EMERGENCY ALERT SIRENS

- Slave Lake Alberta installed their community alert siren after the devastating fire in 2011
  - Use both technology and the Alert Siren
- Port Edward BC – use a multi-tier protocol for when natural disasters occur including a community Siren.
- Tofino BC - use a multi-tier protocol for when natural disasters occur including a community Siren.
  - Video of Tofino testing the alert system.
    - [Tofino Emergency Alert Test Video](https://www.westerlynews.ca/news/video-tsunami-siren-testing-sounds-off-in-tofino/)  
<https://www.westerlynews.ca/news/video-tsunami-siren-testing-sounds-off-in-tofino/>
- Township of North Huron, Ont. – community and campground for impending danger and sever weather
- Scarborough, Ont. – community alert system for impending danger and sever weather
  - Use both technology and the Alert Siren
- Numerous communities across the US use the Alert Siren System in high risk areas for alerts such as Tornados and sever weather conditions

# WHERE WILL THE SIREN BE LOCATED?

The location of the siren is dependent upon the following:

1. Needs to be high enough and loud enough to reach the entire area (Predator Ridge and Sparkling Hill) and potentially out to the local trails down to Elision Park Boundary
  2. Needs to be in a location that can be easily accessible for testing and maintenance
  3. Needs to be in a location where we can ensure safety from vandalism
  4. Needs to be in a location that be can be activated manually if need be
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# Predator Ridge Emergency Siren

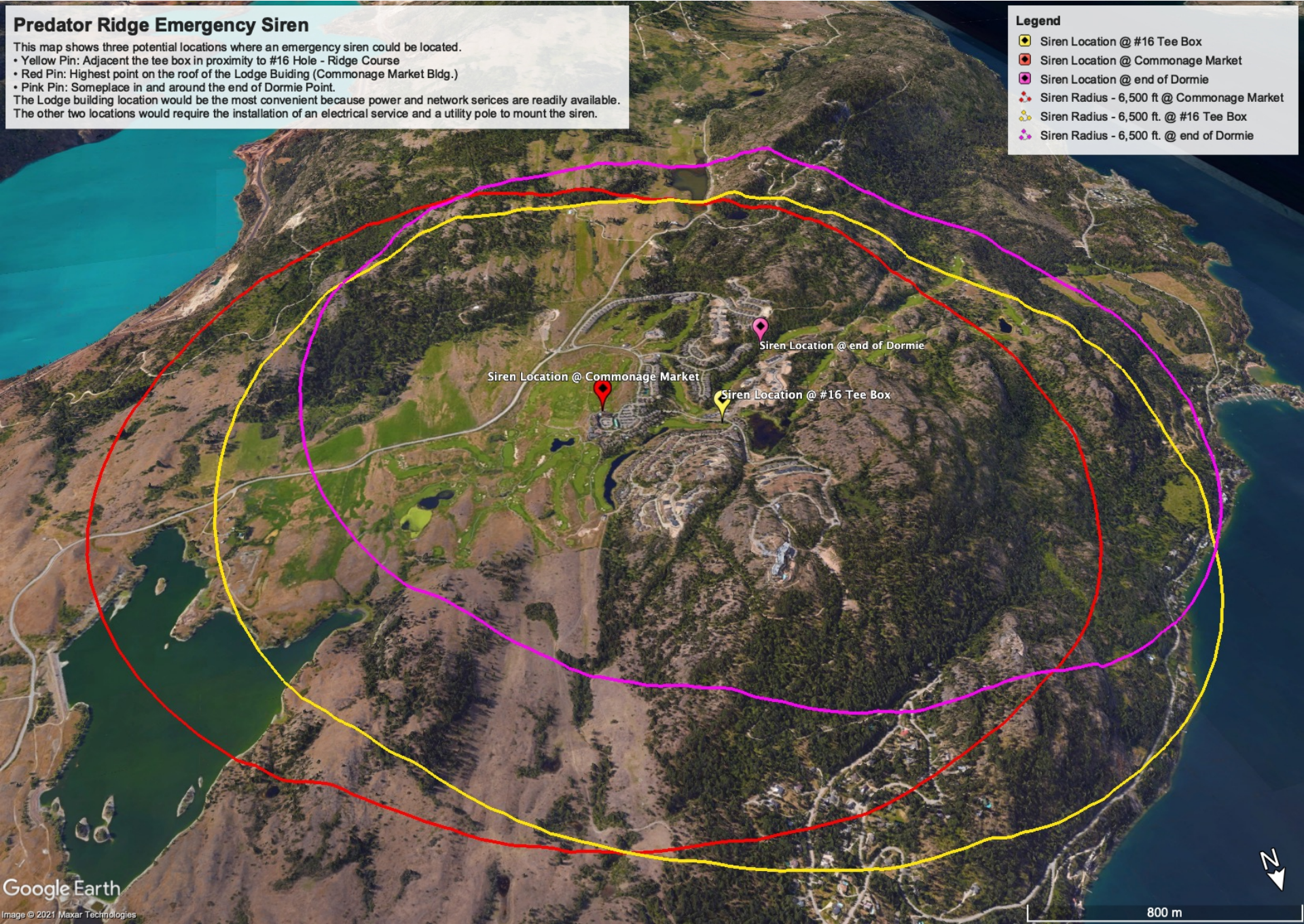
This map shows three potential locations where an emergency siren could be located.

- Yellow Pin: Adjacent the tee box in proximity to #16 Hole - Ridge Course
- Red Pin: Highest point on the roof of the Lodge Buiding (Commonage Market Bldg.)
- Pink Pin: Somewhere in and around the end of Dormie Point.

The Lodge building location would be the most convenient because power and network serices are readily available. The other two locations would require the installation of an electrical service and a utility pole to mount the siren.

**Legend**

- 📍 Siren Location @ #16 Tee Box
- 📍 Siren Location @ Commonage Market
- 📍 Siren Location @ end of Dormie
- 📍 Siren Radius - 6,500 ft @ Commonage Market
- 📍 Siren Radius - 6,500 ft. @ #16 Tee Box
- 📍 Siren Radius - 6,500 ft. @ end of Dormie



Siren Location @ Commonage Market

Siren Location @ end of Dormie

Siren Location @ #16 Tee Box



# EXAMPLE OF SIGNAL ALERTS

Emergency Siren Systems typically have 2 Unique Signals

Test Signal	Evacuate Signal
<p>Testing:</p> <ul style="list-style-type: none"><li>• Unique signal that signifies the horn is being tested</li><li>• This would be done several times during the spring and summer months</li><li>• <i>**e.g. 3 soft short rapid sounds</i></li></ul>	<p>Imminent Danger Evacuate:</p> <ul style="list-style-type: none"><li>• Unique Signal that indicates we are in imminent danger</li><li>• Seek information immediately, follow instruction and leave the property, evacuate</li><li>• <i>**e.g. Full on siren no break</i></li></ul>
<p><i>** for demonstration purposes only</i></p>	

# HOW IS THE SIREN ACTIVATED?

Ability to utilize multiple communication paths for redundancy:

- Internet (IP)
- Cellular
- Landline
- Manually activated from its location



# WHO WOULD HAVE ACCESS TO ACTIVATE THE SIREN?

Requires further discussion and consultation with PRCEMC, Predator Ridge, Sparkling Hill and the City of Vernon (Fire Chief)

## Potential Options

1. Predator Ridge
2. Fire Hall/CoV
3. Community Resident Interest Group

# COST OF THE SIREN

Predator Ridge Community  
Emergency Warning Siren

## Acquisition and Installation Cost Estimate


<u>Item Description</u>	<u>Qty</u>	<u>Unit</u>	<u>Unit Rate</u>	<u>Subtotal</u>	<u>PST</u>	<u>GST</u>	<u>Total Amount</u>
<b><u>Siren &amp; Control Hardware</u></b>							
Federal Siren Electro-Mechanical Rotating Siren, 130dB	1	each	12,775.00	12,775.00	894.25	638.75	14,308.00
Siren Controller c/w Battery Cabinet, One-Way, UHF Band	1	each	8,220.00	8,220.00	575.40	411.00	9,206.40
Extra Heavy Duty Deep Cycle Batteries	4	each	425.00	1,700.00	119.00	85.00	1,904.00
Transformer Rectifier Plus (208/220/240VAC)	1	each	3,505.00	3,505.00	245.35	175.25	3,925.60
Omni RF Antenna	1	each	575.00	575.00	40.25	28.75	644.00
Antenna Mounting Bracket & Pole	1	each	195.00	195.00	13.65	9.75	218.40
<b><u>Siren Activation Hardware</u></b>							
Digital DTMF Controller. Desk Mount	1	each	4,095.00	4,095.00	286.65	204.75	4,586.40
Base Station Radio, UHF	1	each	3,970.00	3,970.00	277.90	198.50	4,446.40
Omni RF Antenna	1	each	575.00	575.00	40.25	28.75	644.00
Antenna Mounting Bracket, Wall	1	each	265.00	265.00	18.55	13.25	296.80
CommanderOne LE c/w Annual Subscription	1	each	1,425.00	1,425.00	99.75	71.25	1,596.00
<b><u>Services</u></b>							
Shipping, Customs & Brokerage Fees	1	lsum	1,375.00	1,375.00	96.25	68.75	1,540.00
Receiving & handling shipment @ PR	1	lsum	1,500.00	1,500.00		75.00	1,575.00
<b>TOTAL ACQUISITION COSTS</b>				<b>40,175.00</b>	<b>2,707.25</b>	<b>2,008.75</b>	<b>44,891.00</b>
<b><u>Installation (assuming mounting on Lodge roof)</u></b>							
Structural Engineering (Siren Weight at roof ridge = 420 lbs.)	1	lsum	3,000.00	3,000.00		150.00	3,150.00
Drawings, permits & fees	1	lsum	2,500.00	2,500.00		125.00	2,625.00
<b>Construction of platform on roof ridge to accommodate Siren.</b>							
• Rough Carpentry: Construct box & install onto highest roof ridge	30	mh	100.00	3,000.00		150.00	3,150.00
• Misc. materials	1	lsum	500.00	500.00		25.00	525.00
• Roofing, flashing & sheet metal	1	lsum	3,500.00	3,500.00		175.00	3,675.00
• Mobile crane rental c/w manbasket	16	hrs	350.00	5,600.00		280.00	5,880.00
<b>Electrical &amp; Communications</b>	<b>1</b>	<b>lsum</b>	<b>15,000.00</b>	<b>15,000.00</b>		<b>750.00</b>	<b>15,750.00</b>
<b>Safety &amp; PPE</b>	<b>1</b>	<b>lsum</b>	<b>1,000.00</b>	<b>1,000.00</b>		<b>50.00</b>	<b>1,050.00</b>
<b>Miscellaneous</b>	<b>1</b>	<b>lsum</b>	<b>2,500.00</b>	<b>2,500.00</b>		<b>125.00</b>	<b>2,625.00</b>
<b>Setup &amp; Testing</b>	<b>1</b>	<b>lsum</b>	<b>4,000.00</b>	<b>4,000.00</b>		<b>200.00</b>	<b>4,200.00</b>
<b>Communication &amp; Education</b>	<b>1</b>	<b>lsum</b>	<b>1,500.00</b>	<b>1,500.00</b>		<b>75.00</b>	<b>1,575.00</b>
<b>TOTAL DESIGN &amp; INSTALLATION COSTS</b>				<b>42,100.00</b>	<b>-</b>	<b>2,105.00</b>	<b>44,205.00</b>
Contingency & Unforeseen Conditions:							9,801.00
<b>TOTAL ESTIMATED COST</b>							<b>98,897.00</b>

# MAINTAINING/MANAGING THE SIREN

Depending on the location:

- Would be managed by PRCEMC in conjunction with City of Vernon, Predator Ridge and Sparkling Hill

What:

- Schedule yearly maintenance with company
  - Annual fee for maintenance
  - Set up testing schedule and testing during summer months
  - Communication and Education
  - System Alert Programming
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# FUNDING FOR THE EMERGENCY ALERT SYSTEM

1. We are proposing a partnership for the acquisition, installation, communication and education of and Emergency Alert System. \$100,000.00

1. Predator Ridge
2. Sparkling Hill
3. Residents of Predator Ridge

Community Fundraising \$75,000.00

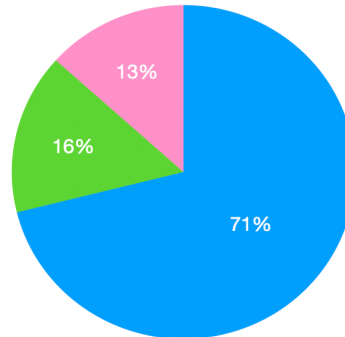
Predator Ridge and Sparkling Hill \$25,000.00

# BREAKDOWN OF FUNDS

Predator Ridge People Breakdown

Groups	Number of Persons
Community Residents (800 households x 2 residents)	1,600
Resort Guests and Employees	350
Sparkling Hill Guests and Employees	300

Percentage of Population



- Community Residents (800 households x 2 residents)
- Resort Guests and Employees
- Sparkling Hill Guests and Employees

# PROJECT FLOW CHART

