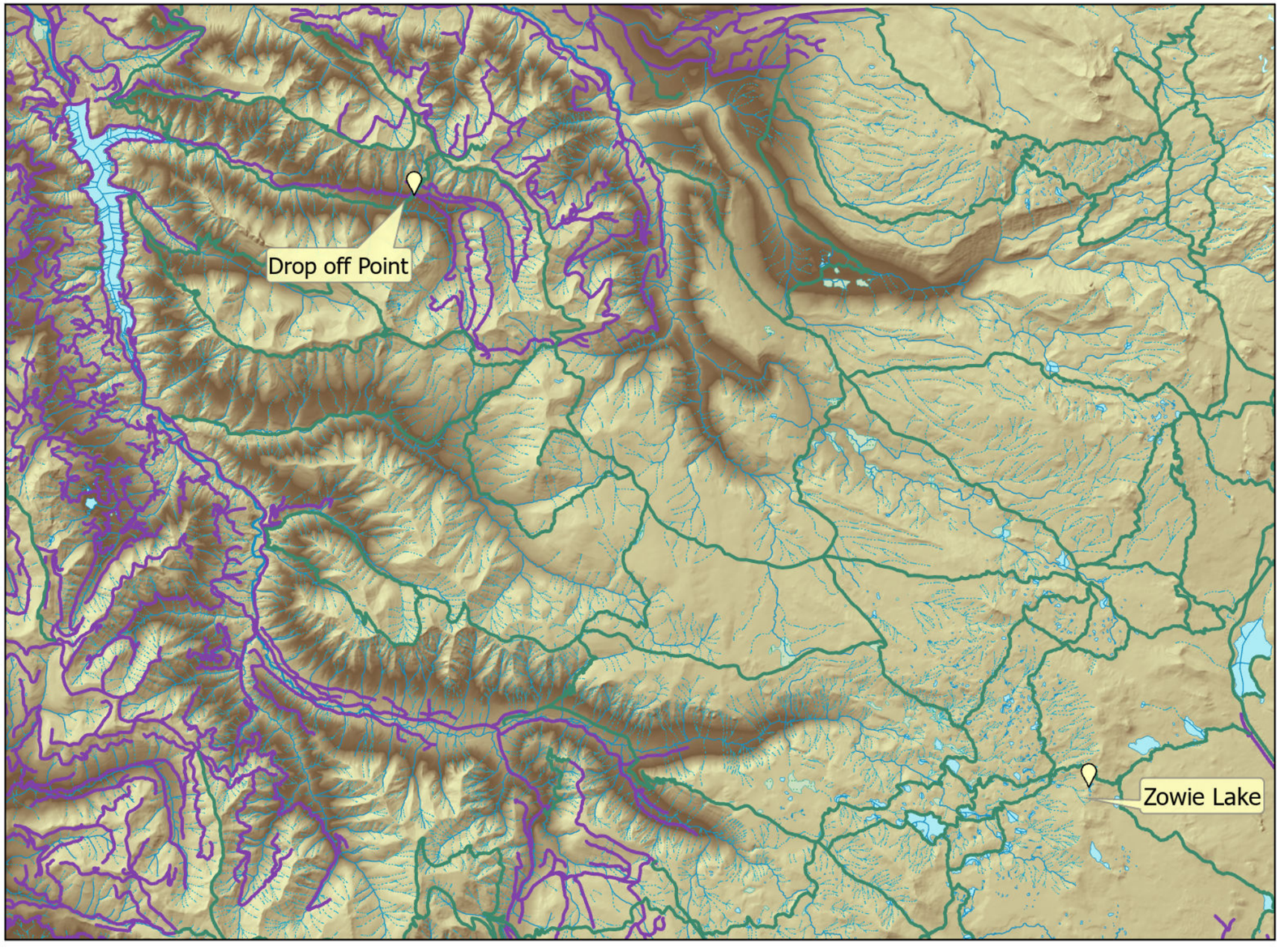
Figure 1: Basemap



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Legend

Shaded Relief
255
0

Hillshade
255
0

Trails
Roads

Streams
> 300,000 - 660,000
100,000 - 300,000
10,000 - 100,000
5,000 - 10,000
0 - 5,000
Ephemeral/Intermittent
Non-Network
Pipeline

WaterBodies
Ice
Lakes, Ponds, Reservoirs, and Estuaries
Rivers and Streams
Wetland

0 1.5 3 6 Miles

N

Figure 2: Cost

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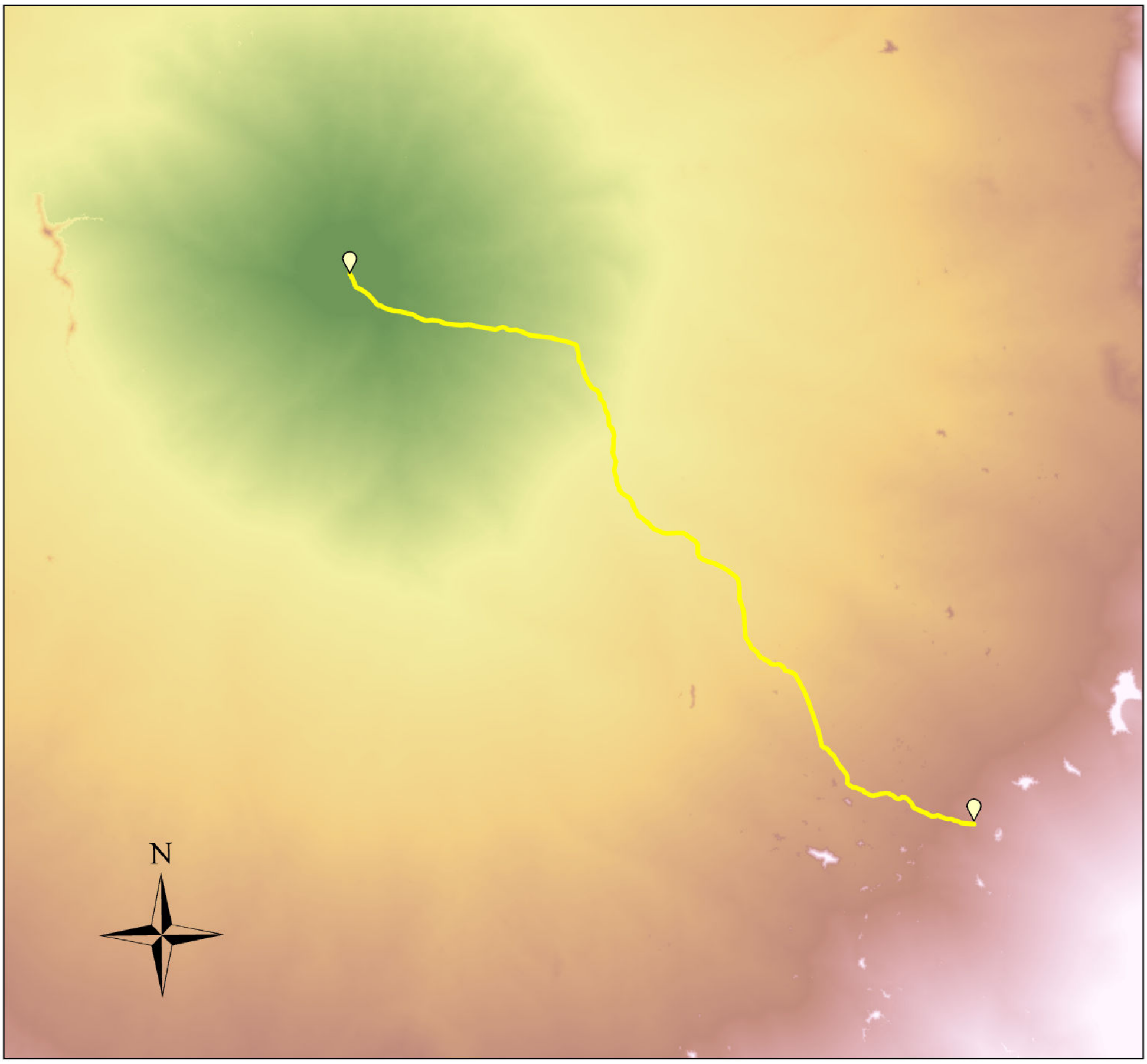

0 2 4 8 Miles

Legend

Optimal Path

Cost Accumulation

0

0

In order to refine this least cost path, I could have utilized a more specific search radius. At current, it covers 2000 feet from the optimal path. This resulted in many possible trails and lakes added to our search area. I think this information is extremely useful because the least cost path takes into account the various obstacles present in nature. Land type, elevation, and cost of distance over the land were all taken into consideration. To strengthen this, maybe I could find datasets on weather or climate in the area.

Figure 3: Optimal Path

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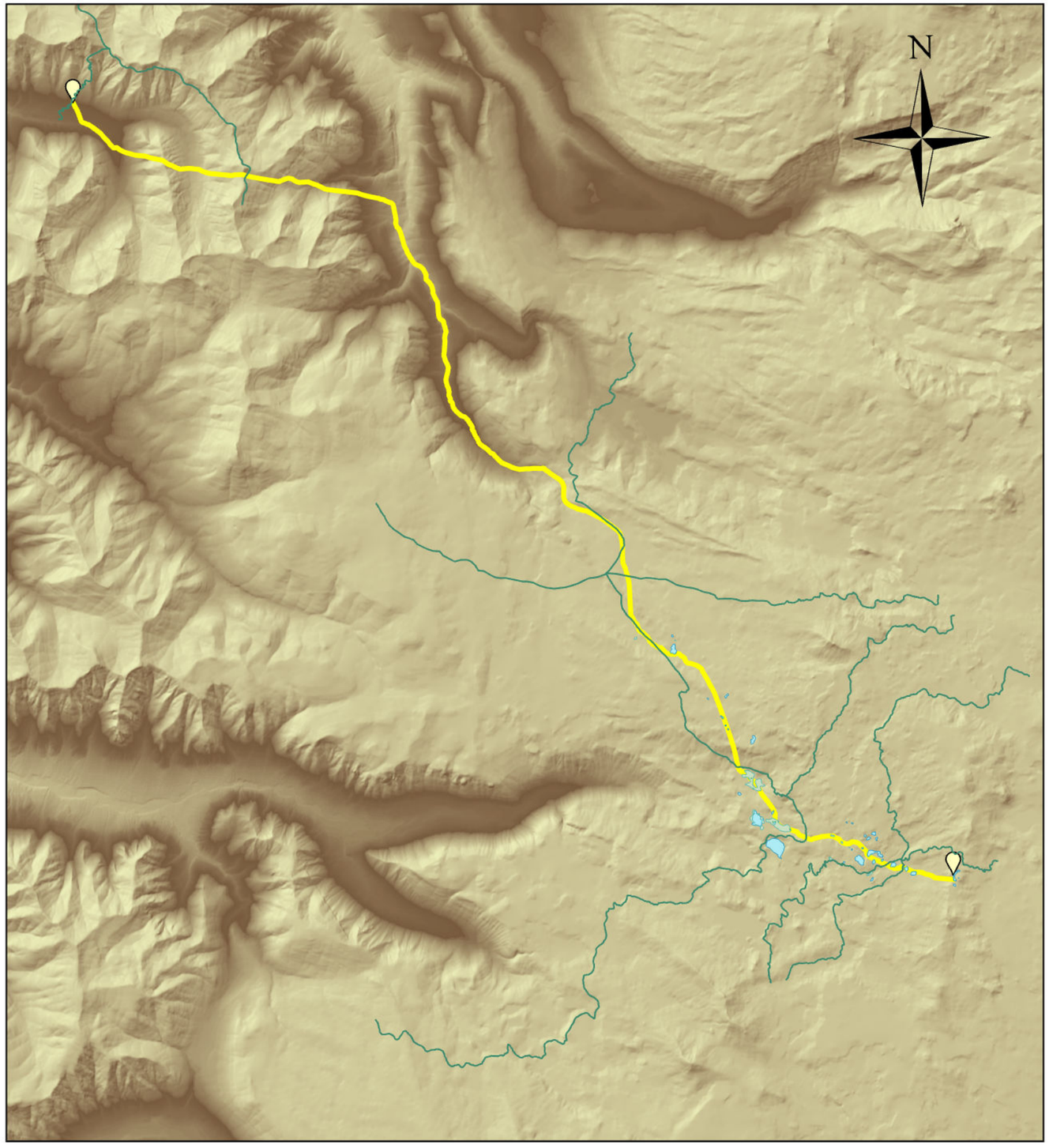

Legend

- Trails selection
- WaterBodies selection
  - Ice
  - Lakes, Ponds, Reservoirs, and Estuaries
  - Rivers and Streams
- Wetland
- Optimal Path
- Shaded Relief
  - Value
    - 255
    - 0

Trails and lakes that were selected based on an intersection of the optimal path, specified by 2000 feet.

Name from Geographic Names Information System	FREQUENCY	SUM_Shape_Area
	42	397879.050267
Copepod Lake	1	57993.785477
Corner Lake	1	218907.630194
Elk Meadows	1	181635.227635
Ledge Lake	1	19282.995699
McBee Lake	1	24231.461993
Penn Lake	1	103822.577821
Questionmark Lake	1	51593.72028
Vera Lake	1	9329.517254
Zowie Lake	1	16120.527894

TRAIL_NAME	FREQUENCY	SUM_Shape_Length
EAST FORK	1	1107.73268
MCBEE	1	36911.409117
MINK LAKE	1	10855.9994
OLALLIE	1	18628.372579
PACIFIC CREST TRAIL - WIF2	1	20587.923996
PARK	1	21134.044455
SADDLE	1	3180.255275
SIX LAKES	2	4745.984374
WATER HOLES	1	21587.293828