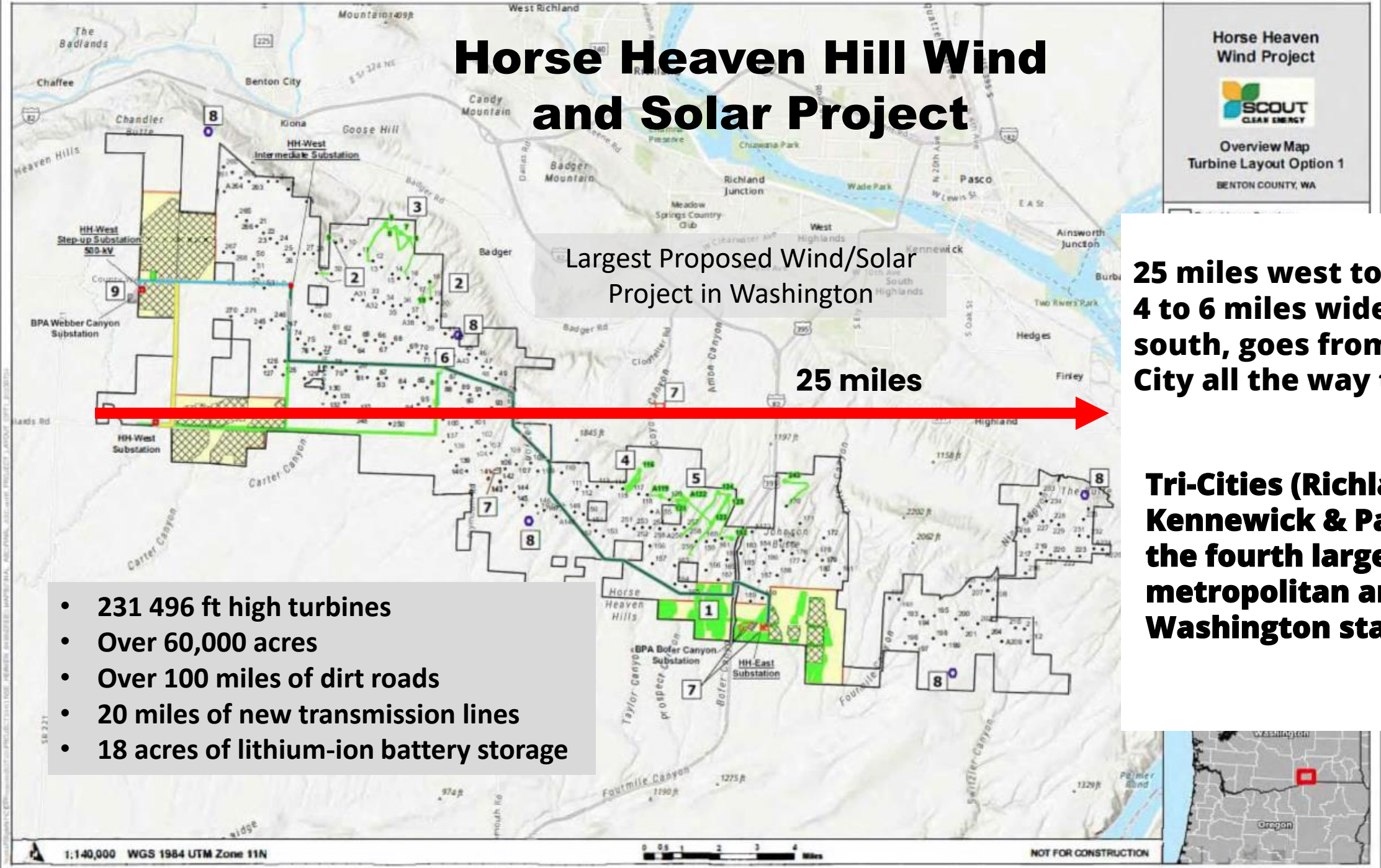
Aerial Firefighting & Wind Turbines
Proposed Legislation in Washington State

Paul J. Krupin and Representative Stephanie Barnard

Horse Heaven Hill Wind and Solar Project



- 231 496 ft high turbines
- Over 60,000 acres
- Over 100 miles of dirt roads
- 20 miles of new transmission lines
- 18 acres of lithium-ion battery storage

25 miles west to east and 4 to 6 miles wide north to south, goes from Benton City all the way to Finley.

Tri-Cities (Richland, Kennewick & Pasco) is the fourth largest metropolitan area in Washington state.

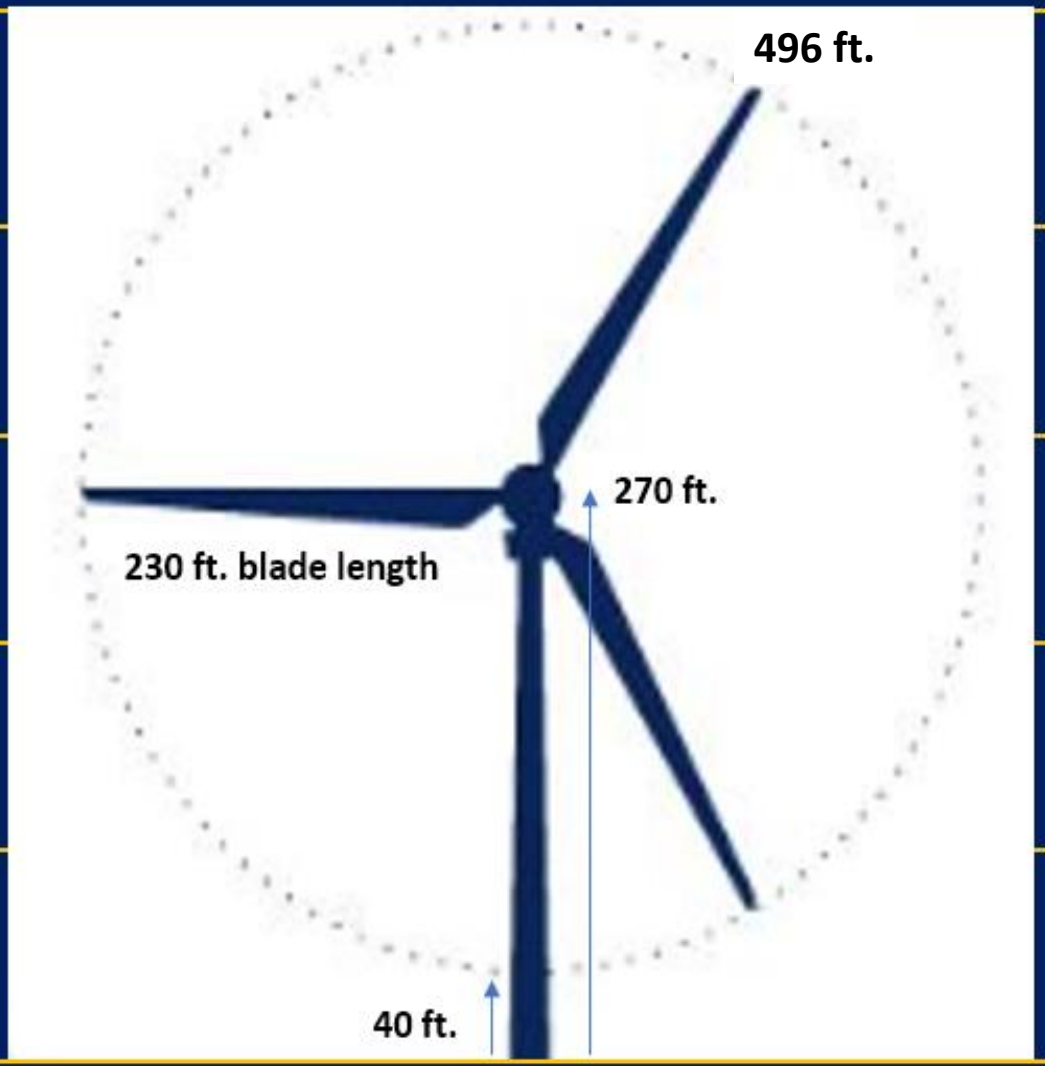
231 HHH Wind Turbines
496 feet high each

600
500
400
Height in Feet
300
200
100
0

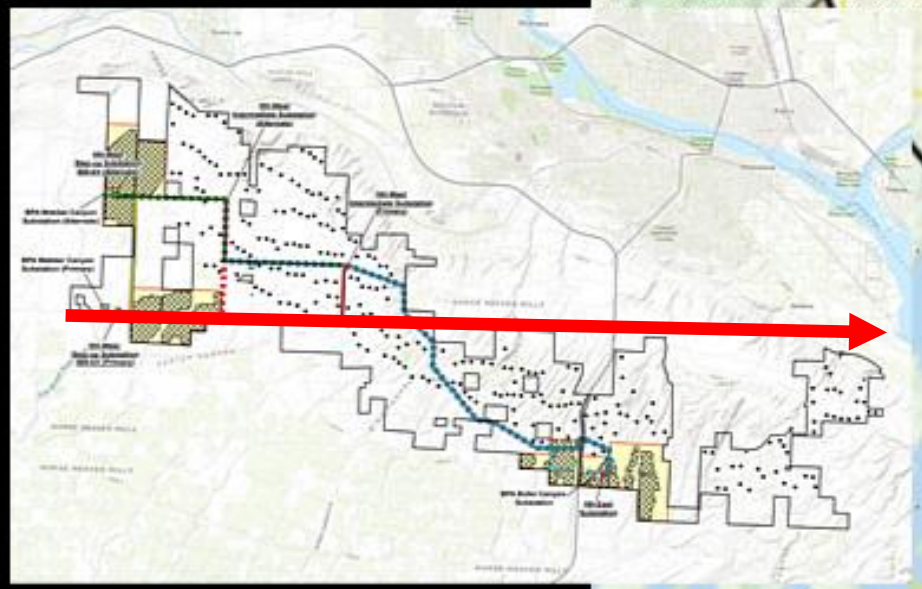
Horse Heaven Hills Wind Turbines

140 ft. Ten Stories

Kadlec Regional Medical Center, Richland WA



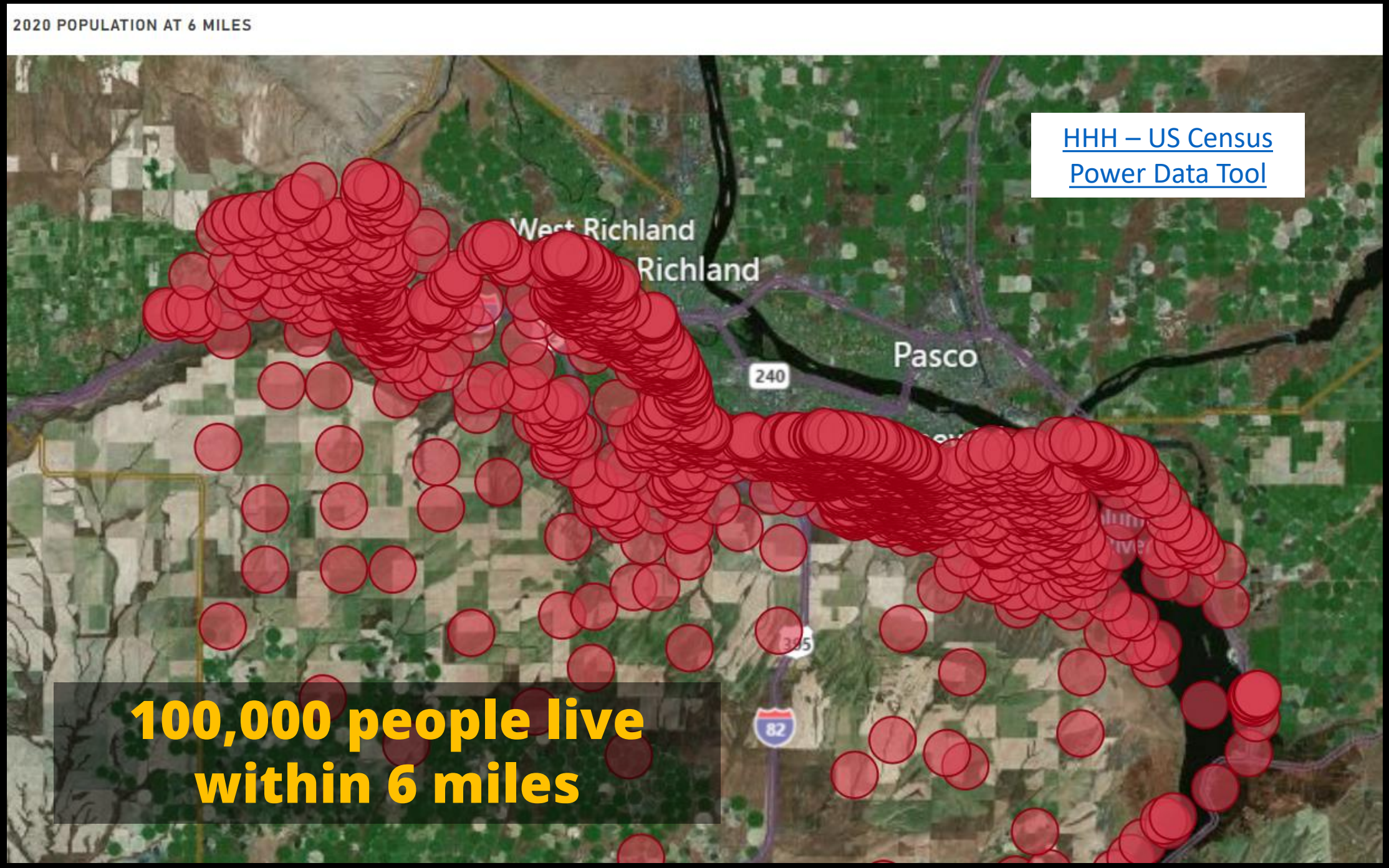
Seattle to Tacoma

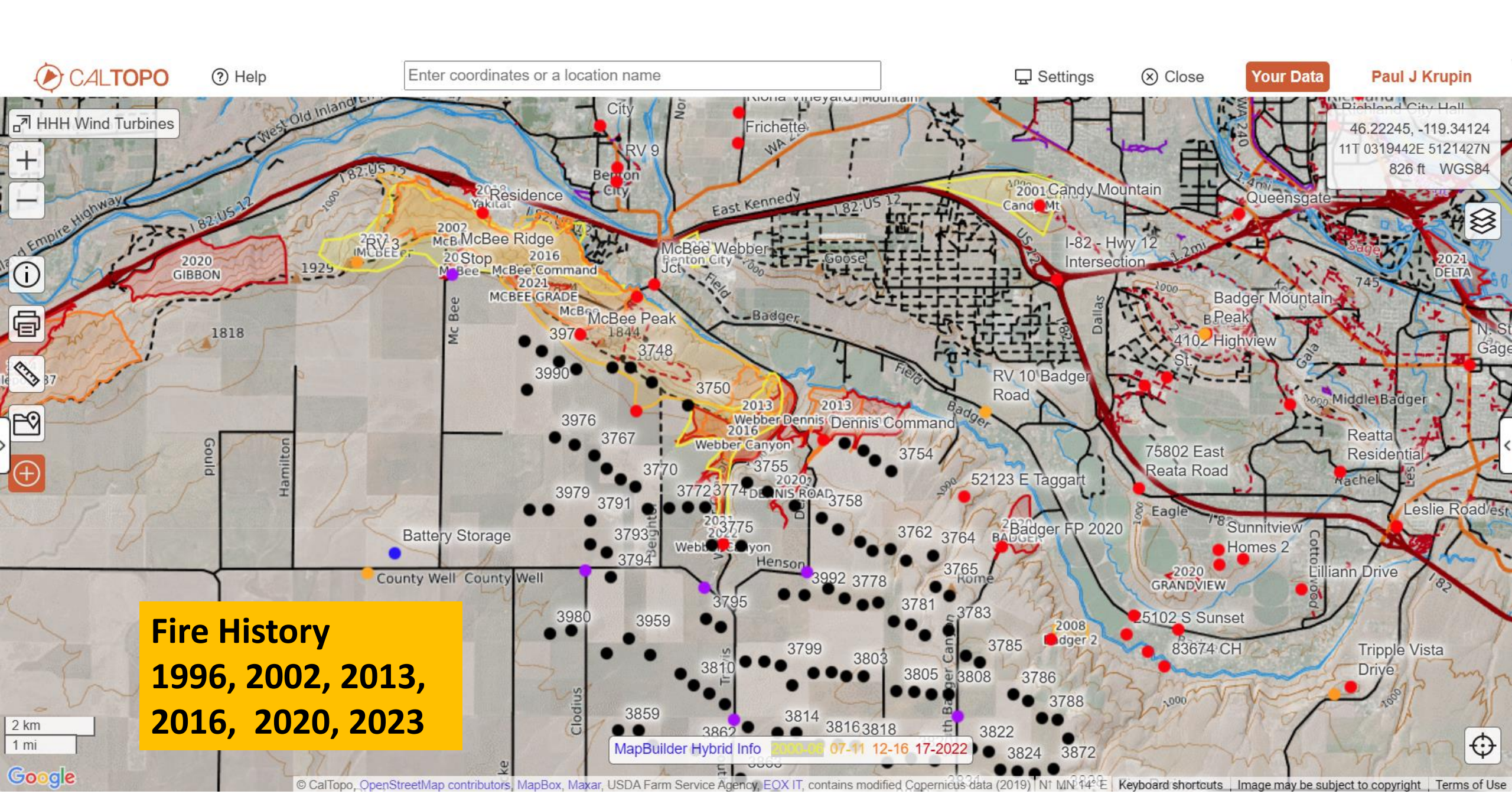


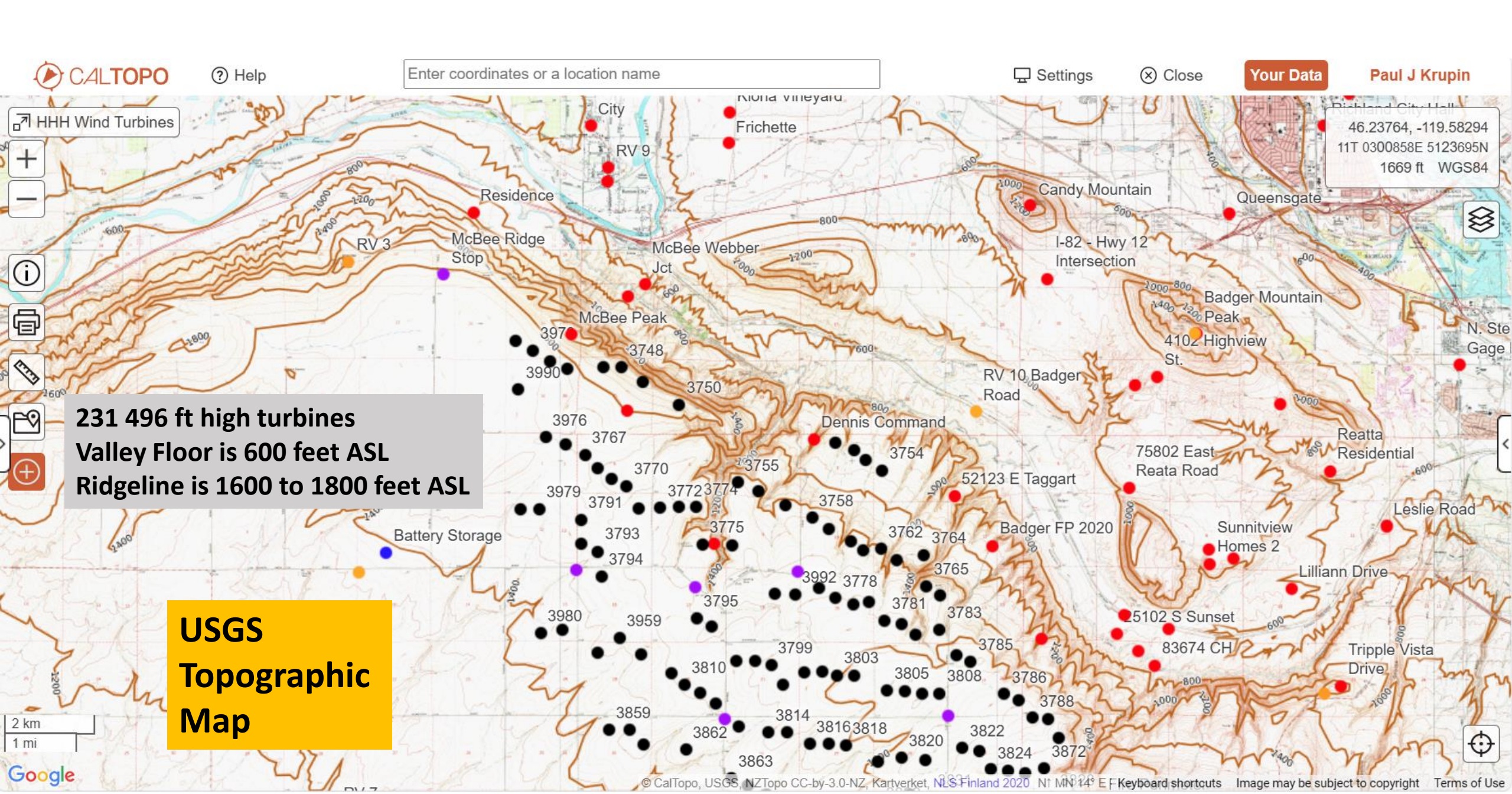
25 miles

Lynnwood
Shoreline
Poulsbo
Cottage Lake
Puget Sound
Kirkland
Silverdale
Lake Washington
Sammamish
Kitsap
Bremerton
Issaquah
North Bend
King
Renton
Vashon
Hobart
Kent
Federal Way
Puget Sound
Tacoma
Enumclaw
Puyallup
Lakewood
South Hill
Fort Lewis

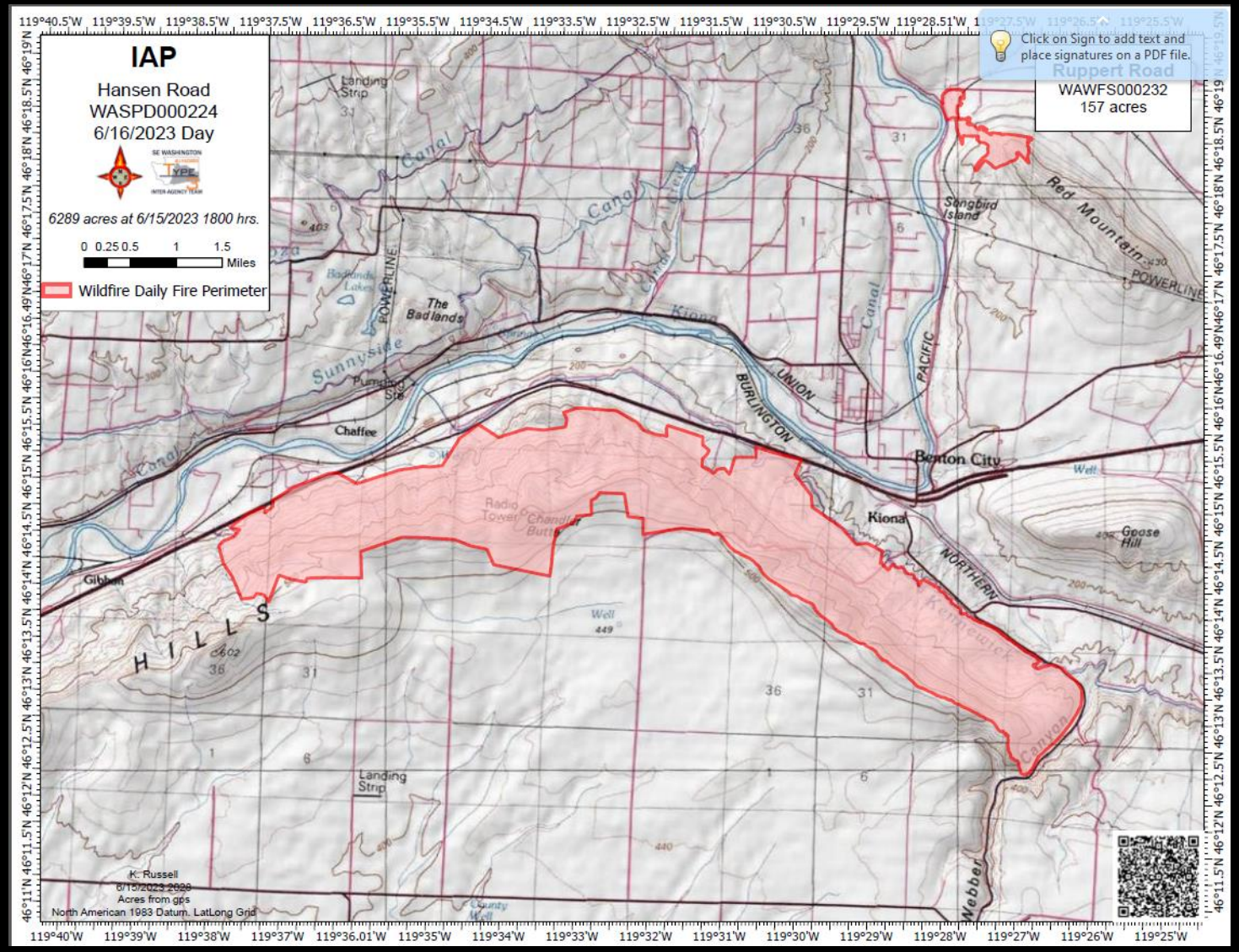
Aerial fire fighting experts indicate that the turbines are a 25 mile long "no-fly zone" that will seriously hinder the ability to protect the property and people adjacent to the project.


2020 POPULATION AT 6 MILES
HHH – US Census Power Data Tool
West Richland
Richland
Pasco
240
82
100,000 people live within 6 miles


CALTOPO
Help
Enter coordinates or a location name
Settings
Close
Your Data
Paul J Krupin
HHH Wind Turbines
46.22245, -119.34124
11T 0319442E 5121427N
826 ft WGS84
Fire History
1996, 2002, 2013,
2016, 2020, 2023
MapBuilder Hybrid Info 2000-06 07-11 12-16 17-2022
2 km
1 mi
Google
© CalTopo, OpenStreetMap contributors, MapBox, Maxar, USDA Farm Service Agency, EOX IT, contains modified Copernicus data (2019) | NT MN 14° E | Keyboard shortcuts | Image may be subject to copyright | Terms of Use


CALTOPO
Help
Enter coordinates or a location name
Settings
Close
Your Data
Paul J Krupin
HHH Wind Turbines
46.23764, -119.58294
11T 0300858E 5123695N
1669 ft WGS84
231 496 ft high turbines
Valley Floor is 600 feet ASL
Ridgeline is 1600 to 1800 feet ASL
USGS Topographic Map
City
Frichette
RV 9
Residence
RV 3
McBee Ridge Stop
McBee Webber Jct
McBee Peak
Candy Mountain
Queensgate
I-82 - Hwy 12 Intersection
Badger Mountain Peak
4102 Highview St.
N. Ste Gage
RV 10 Badger Road
Dennis Command
75802 East Reata Road
Reatta Residential
52123 E Taggart
Leslie Road
Badger FP 2020
Sunnitview Homes 2
Lilliann Drive
Battery Storage
25102 S Sunset
83674 CH
Tripple Vista Drive
3970
3748
3990
3750
3976
3767
3770
3755
3754
3979
3791
3772
3774
3758
3775
3762
3764
3793
3794
3992
3778
3765
3795
3781
3783
3980
3959
3799
3785
3803
3810
3805
3808
3786
3788
3859
3814
3816
3818
3820
3822
3862
3824
3872
3863
2 km
1 mi
Google
© CalTopo, USGS, NZTopo CC-by-3.0-NZ, Kartverket, NLS Finland 2020
Keyboard shortcuts
Image may be subject to copyright
Terms of Use

Fire Fighting Map & Guidance from Benton County Fire



Minimum Drop Heights for Airtankers and Water Scoopers

- SEAT/Amphibious SEAT = 60’ (optimum 90’) above the vegetation
- LAT = 150’ above the vegetation
- VLAT = 200’ above the vegetation
- Water Scooper (CL 215/415) = 150’ above the vegetation

ATGS = Air Tactical Group Supervisor

ASM/LP = Aerial Supervision Module/Lead Plane

Type 3 Airtanker = 800-1,799 gallons (S-2T, SEAT)

Type 2 Airtanker = 1,800-2,999 gallons (Convair 580, Q- 400)

Type 1 or Large Airtanker (LAT) = 3,000-5,000 gallons (BAe-146, RJ85, MD87, C-130)

VLAT = Very Large Airtanker = >8,000 gallons (DC10, 747)

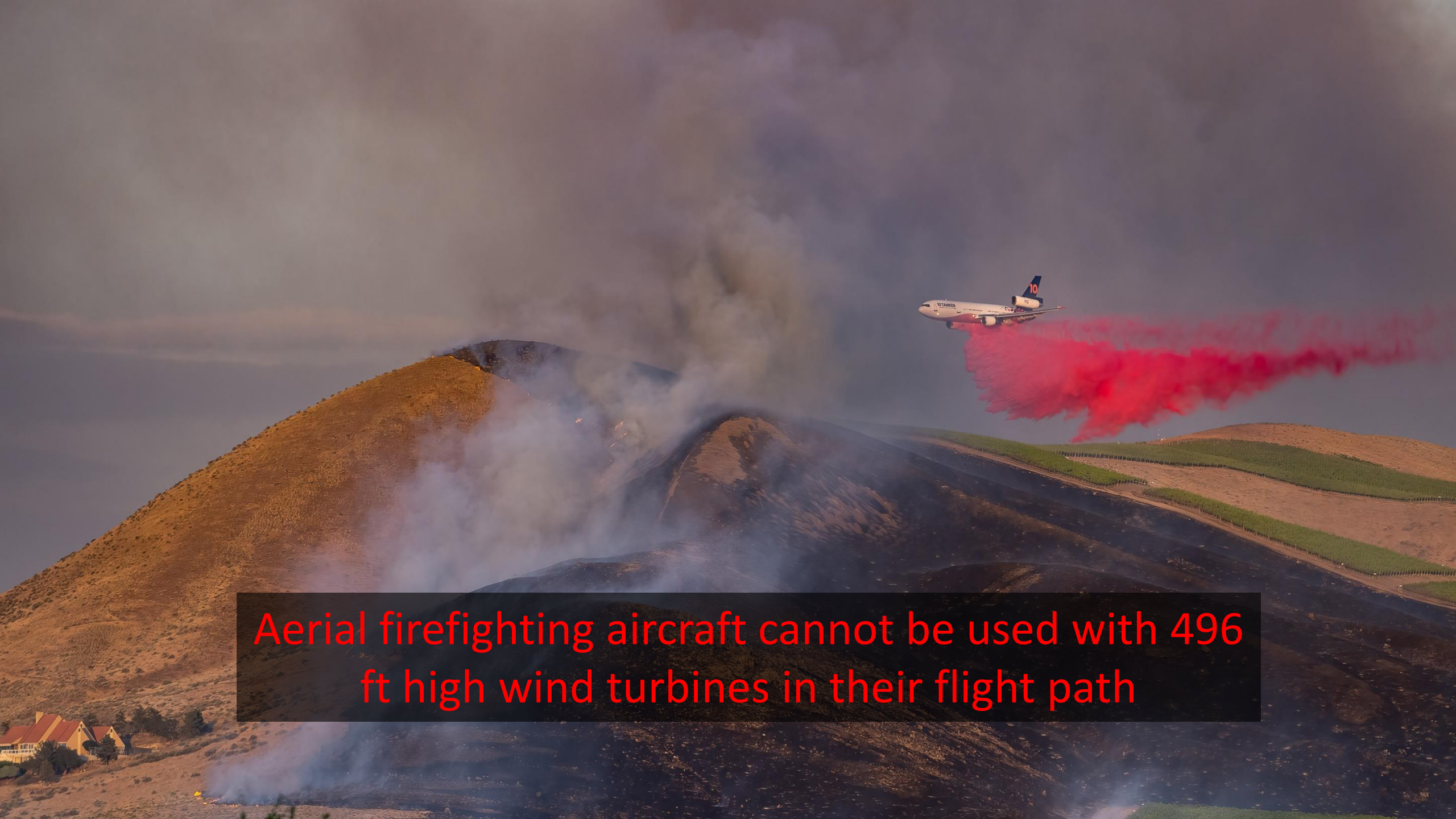
June 16, 2023

Aerial Firefighting

DC-10 dropping retardant on McBee Hill

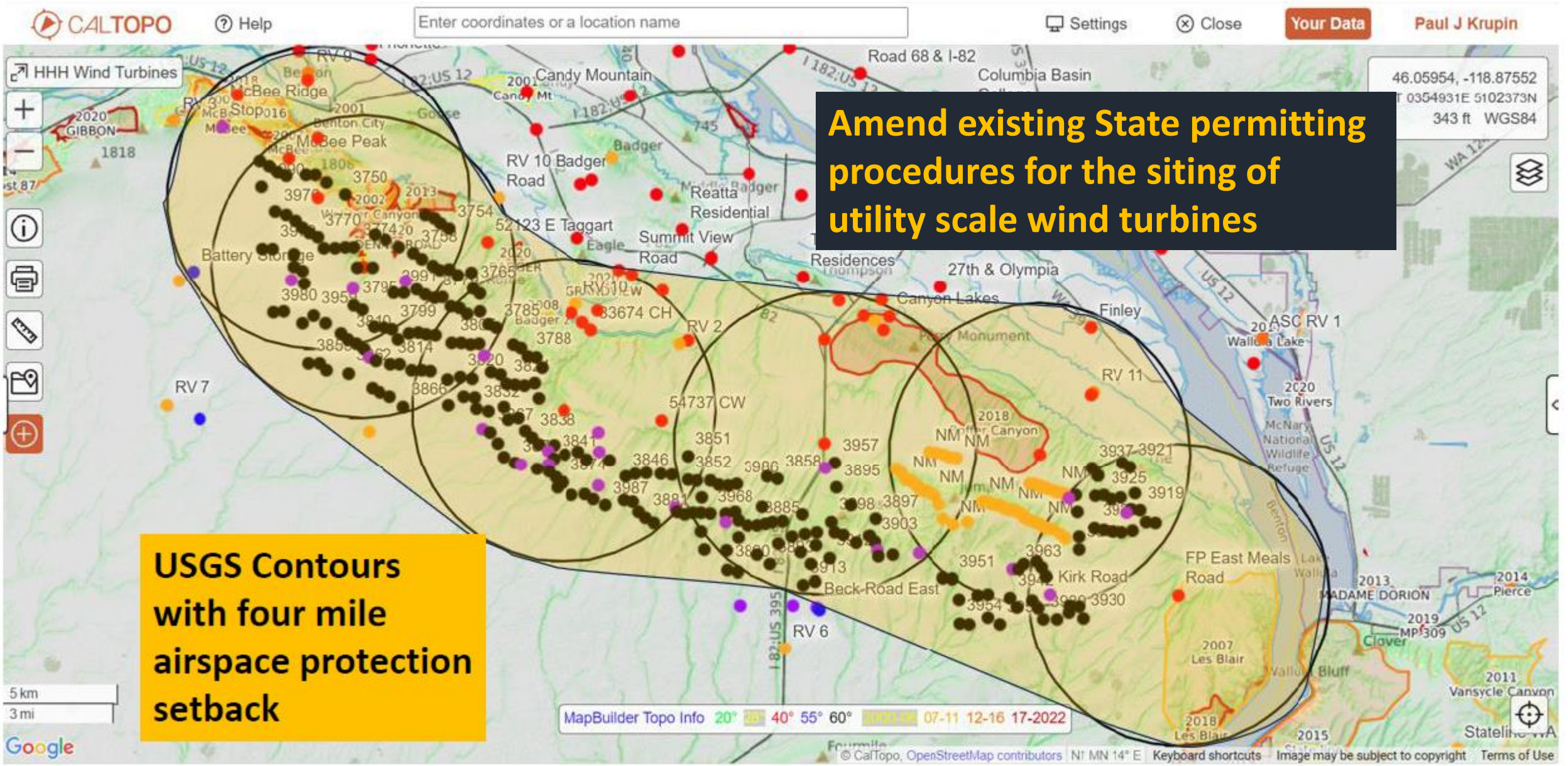
YouTube Video Link:

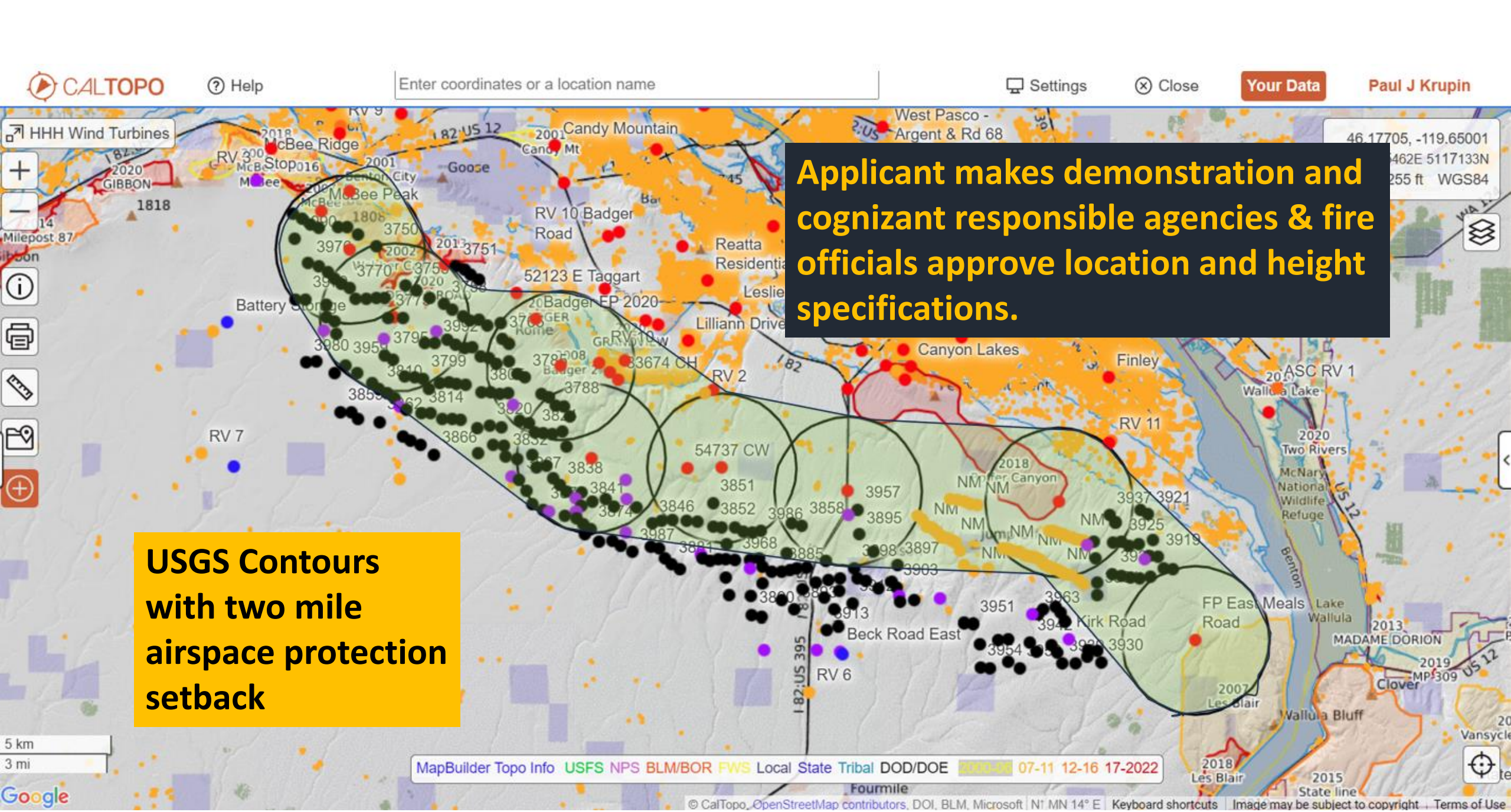
https://youtube.com/shorts/-WqpTVpWUOI?feature=share


Aerial firefighting aircraft cannot be used with 496 ft high wind turbines in their flight path

Legislative Proposal

Protect the aerial firefighting suppression requirements needed to protect people and property in known high risk locations.


CALTOPO
Help
Enter coordinates or a location name
Settings
Close
Your Data
Paul J Krupin
HHH Wind Turbines
46.05954, -118.87552
343 ft WGS84
Amend existing State permitting procedures for the siting of utility scale wind turbines
USGS Contours with four mile airspace protection setback
Road 68 & I-82
Columbia Basin
Candy Mountain
McBee Ridge
McBee Peak
RV 10 Badger Road
Reatta Residential
52123 E Taggart
Summit View Road
Battery Storage
Residences
27th & Olympia
Canyon Lakes
Finley
ASC RV 1
Wallula Lake
2020 Two Rivers
McNary National Wildlife Refuge
RV 11
RV 2
RV 10
83674 CH
54737 CW
RV 7
RV 6
Beck-Road East
Kirk Road
FP East Meals Road
MADAME DORION
Clover
Vansycle Canyon
Les Blair
Wallula Bluff
Pierce
MapBuilder Topo Info
5 km
3 mi
Google
© CalTopo, OpenStreetMap contributors
Keyboard shortcuts
Image may be subject to copyright
Terms of Use


CALTOPO
Help
Enter coordinates or a location name
Settings
Close
Your Data
Paul J Krupin
HHH Wind Turbines
46.17705, -119.65001
Applicant makes demonstration and cognizant responsible agencies & fire officials approve location and height specifications.
USGS Contours with two mile airspace protection setback
McBee Ridge
McBee Peak
Candy Mountain
West Pasco - Argent & Rd 68
RV 10 Badger Road
52123 E Taggart
Badger FP 2020
Reatta Residential
Lilliann Drive
Canyon Lakes
Finley
ASC RV 1
RV 11
RV 2
RV 7
RV 6
54737 CW
83674 CH
Beck Road East
Kirk Road
FP East Road
Meals
Lake Wallula
MADAME DORION
Clover
Wallula Bluff
Two Rivers
McNary National Wildlife Refuge
Fourmile
State line
5 km
3 mi
MapBuilder Topo Info USFS NPS BLM/BOR FWS Local State Tribal DOD/DOE 07-11 12-16 17-2022
Google
© CalTopo, OpenStreetMap contributors, DOI, BLM, Microsoft
Keyboard shortcuts
Terms of Use

FEIS Option 1 – 231 496-foot high turbines

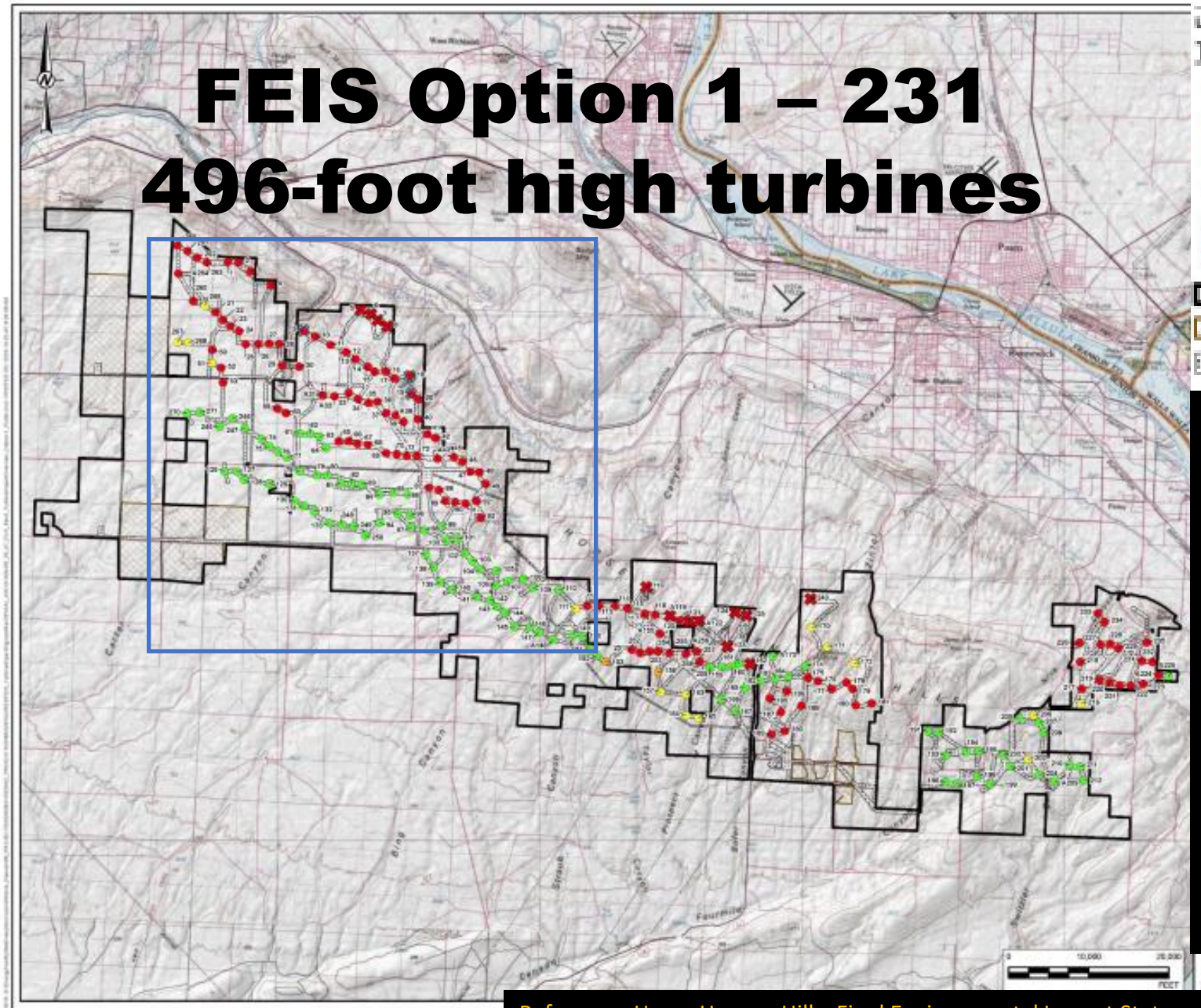


Figure 2-5: Turbine Layout Option 1 - Areas of High Impact

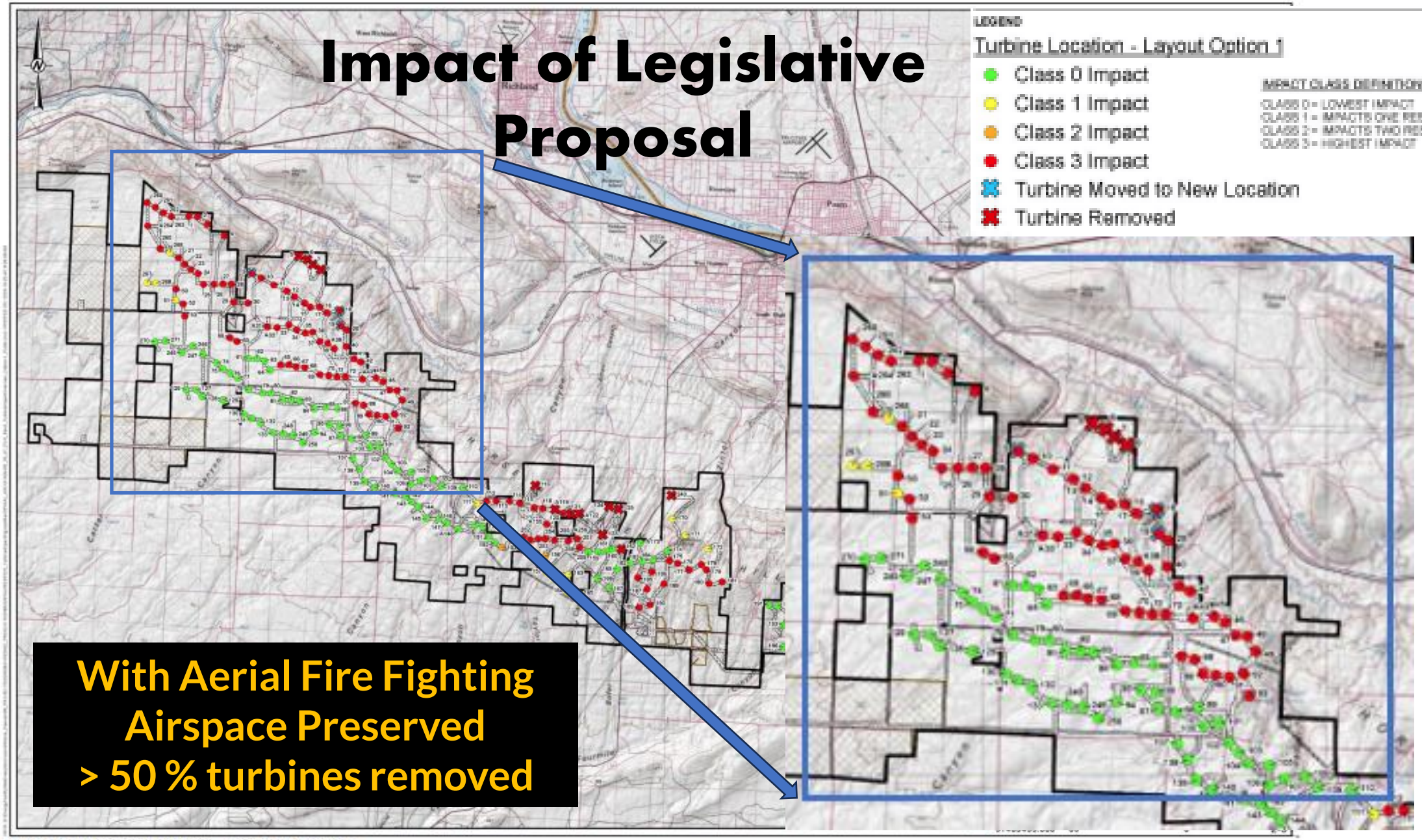
Horse Heaven Wind Farm
Final Environmental Impact Statement

Final HHH EIS identifies "high impact areas with more than one high-magnitude impact". **(Note: includes *wildlife, cultural, and visual but not aerial firefighting*.)**

The maps were provided to EFSEC and its Council members with information that could be used in the identification of specific turbines that have multiple impacts and could require additional mitigation including the removal or relocation within the Micrositing Corridor.

Reference: Horse Heaven Hills, Final Environmental Impact Statement, October 31, 2023 Impacts of the Proposed Action , CHAPTER 2 – PROPOSED ACTION AND ALTERNATIVES, Section 2.3.2 Alternative Carried Forward for Detailed Analysis

Impact of Legislative Proposal



With Aerial Fire Fighting Airspace Preserved
> 50 % turbines removed

Figure 2-5: Turbine Layout Option 1 - Areas of High Impact

Projects Under EFSEC Jurisdiction

Application Under Review:

Horse Heaven Wind Project (Wind)

Badger Mountain (Solar)

High Top and Ostrea (Solar)

Wautoma (Solar)

Hop Hill (Solar)

Carriger (Solar)

Permitted but construction not started:

Whistling Ridge Energy Project (Wind)

Desert Claim Wind Power Project (Wind)

Aerial Firefighting & Wind Turbines
Proposed Legislation in Washington State

Paul J. Krupin and Representative Stephanie Barnard

Stay Tuned!

Aerial Firefighting & Wind Turbines
Proposed Legislation in Washington State

Paul J. Krupin and Representative Stephanie Barnard