

Norsk friidrett

Ullevaal stadion

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COURSE MEASUREMENT REPORT - RAPPORT FOR NASJONALT KONTROLLMÅLT LØYPE -

Event and Course
Event : Vossaton
Promoting Organization: Voss IL
Date : August 24th 2024
Date and Time of measurement: April 30 th , 17:00
Measured distance: Half marathon
Length of calibration course: 300m
Terrain: Flat <input type="checkbox"/> Slightly hilly <input checked="" type="checkbox"/> Hilly <input type="checkbox"/> Terrain <input type="checkbox"/>
Race surface: Mostly Tarmac roads, some gravel
Course configuration: Closed loop <input type="checkbox"/> Back and forth <input type="checkbox"/> A to B <input checked="" type="checkbox"/> Other <input type="checkbox"/>
Elevation : Start - Finish: 0m
Description of Start: Gjernesmoen. Lightpole between nbr 3 and 5. Marked with blue paint
Description of Finish: Voss Idretts plass (Stadium)
Distance, in a straight line, between start & finish: 1.5km
Is Start and Finish marked: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Km-markings: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Measurement direction: Running direction <input checked="" type="checkbox"/> Opposite running direction <input type="checkbox"/>

Contact information		
	Measured by	Organizer:
Name:	Geir Jensen	Tore Tvilde
Phone:	+47 48 08 22 00	+47 907 45 583
Email:	Ccie8795@gmail.com	ttvilde@gmail.com

It is hereby confirmed that the course has been measured by a nationally certified course measurer from Norwegian Athletics. The course is measured in accordance with Norwegian athletics regulations, and the distance has the correct length. The survey is valid for 5 years, except if the route is changed.

19/5-24 Geir Jensen (sign)

Date

Signature

Date

NFIFs approval

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Calibration	
Length of measuring tape (steel measuring tape only)	50m
Length of calibration course 1st measurement	300m
Length of calibration course 2nd measurement	300m
Possible 3rd measurement (max. 1 cm diff per 100m between first 2 measurements)	
Average of measurements before adjustments	300m
Temperature (road or measuring tape)	20C
Adjustment cf. $D - (D * (1 + (\text{temp} - 20) * 0,0000115))$	0m
Measured calibration distance after adjustment	300m
Distance from start/finish to calibration distance	500m

Calibration information (max 8 Counts difference of 1000 m between 4 measurements, ie 2 Counts of 300m and 3 Count of 400m)						
	Pre-measurement			Post-measurement		
	Date/Time: March 30th, 17:00			Date/Time: March 30th, 19:30		
	Start	End	Reading	Start	End	Reading
1.	670 000	673 419	3 419	8 000	11 416	3 416
2.	674 000	677 420	3 420	11 500	14 916	3 416
3.	677 500	680 920	3 420	15 000	18 417	3 417
4.	681 000	684 419	3 419	18 500	21 916	3 416

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Pre measurement Post measurement

Average(1+2+3+4) / 4	3 419.5	3416.25	Today's constant. Either highest or average of before and after measurement
Working Constant	11 398.3333	11387.5	
+1‰	11.3983333	11.3875	
Measurement constant	11 410	11 399	11410

MÅLEPROSEDYRE

Measurement constant	11 410	
Distance	Counter	Description
0km Start	706 000	Gjernesmoen 3/5
21.1km Finish	946 751	Finish line, Voss stadium

Conclusion

- **Measurement method**
Jones counter mounted on bicycle wheel
- **Measurement procedure**
The measurement was carried out by a continuous measurement in the running direction from start to the finish.
- **Course adjustment**
The post calibration gave a slightly lower constant 11 399 vs 11 410. I decided to use the highest value (11 410) in my calculations.

When I crossed the finish line the Jones counter was 945 816, but it "should" have been 946 751. The course is therefore 82m to short. The organizer will move the start-line 82m down the road (Gjernesmoen, north)

$(945\,816 - 946\,751) \text{ ticks} \cdot 1000\text{m} / 11\,410 \text{ ticks} = 82\text{m}$

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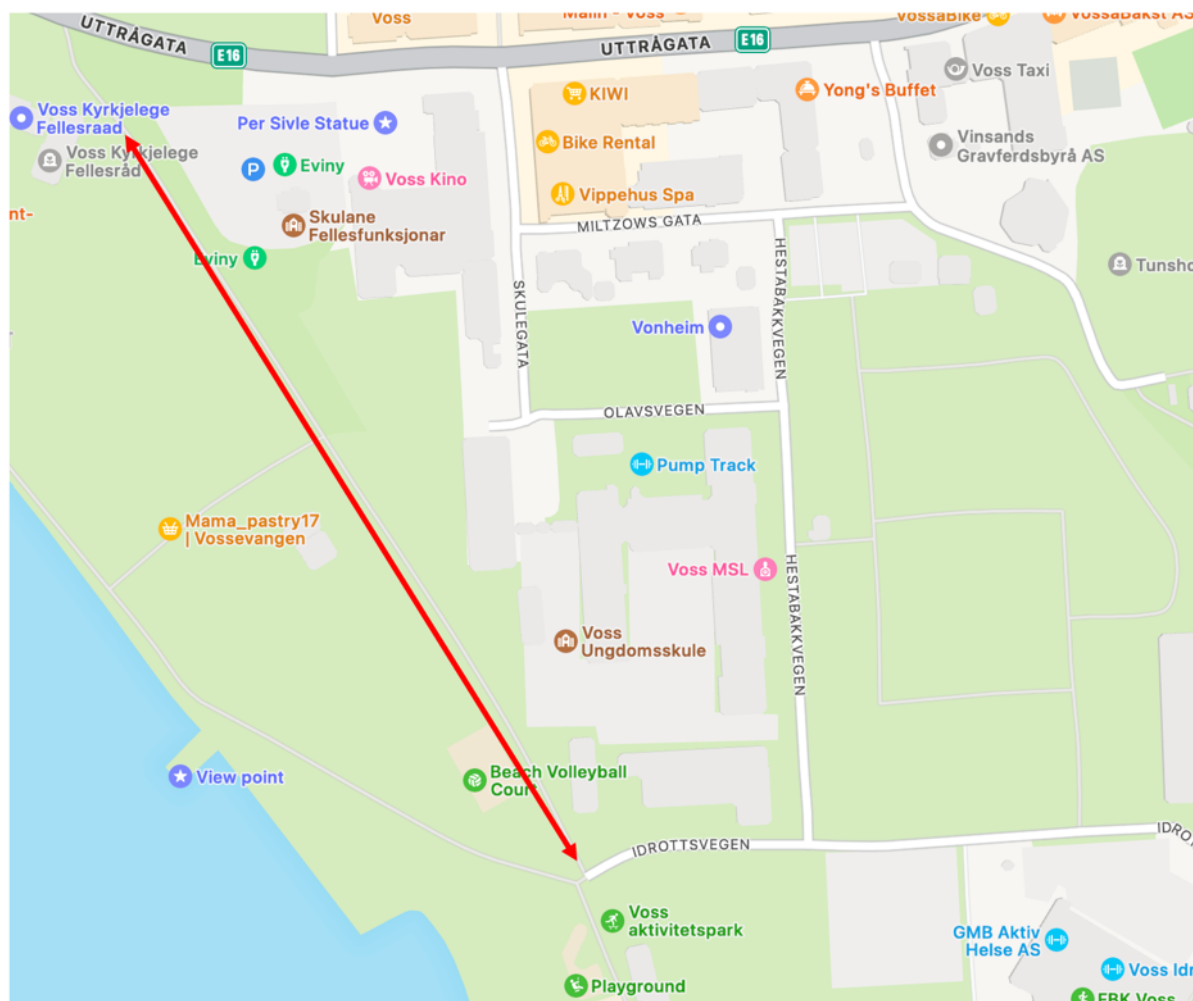
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Calibration Course map



The calibration course is on the walkway between Idrottsvegen and Uttrågata,
The calibration course is not permanently marked.

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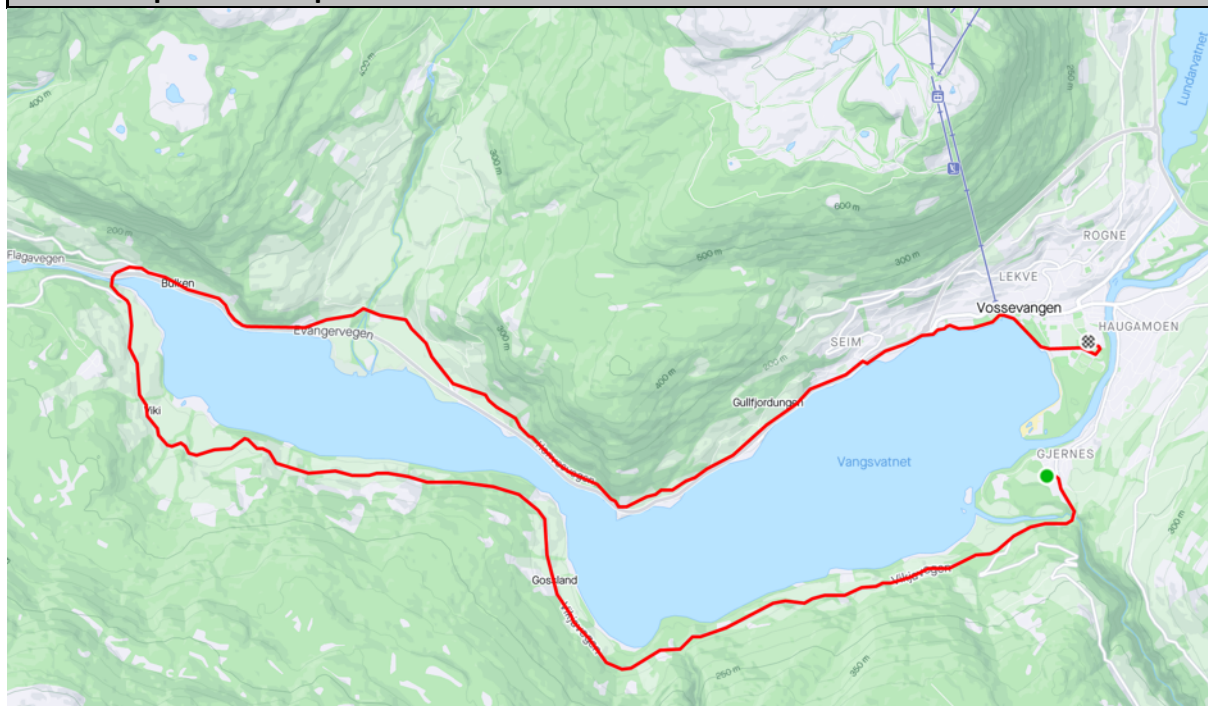
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Course map and description



Course description:

- Start at Gjernesmoen, lightpole between nbr 3 and 5. Marked with blue line.
- Run south and turn left onto Gjernesvegen and then right onto Vikjavegen
- At Bulken cross the main road using the bridge and continue right onto Rekvesvegen, Honvesvegen and follow the walkway to Finnesvegen.
- Turn right and cross the bridge over the main road and on to Peder Bondes Veg.
- NB! Use the sidewalk, runners are not allowed to run in the road after the bridge.
- At the end of Peter Bondes Veg turn right onto the walkway along Vangsvatnet.
- Turn left onto Idrottsvegen, and enter the stadium through the main gate.
- Run 300m to the finish line (counter clockwise).

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The start is marked with a permanent blue line at the lightpole between Gjernesmoen 3 and 5.



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The course follows the road around the lake.



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Crossing the bridge at Bulken onto Rekvesvegen



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Finish line at Voss Stadium

