Ullevaal stadion Sognsveien 75 J 0840 Oslo NORWAY

E-mail: friidrett@friidrett.no
Phone: +47 94 83 33 26



COURSE MEASUREMENT REPORT

- REPORT FOR NATIONAL CERTIFIED COURSE -

INFORMATION ABOUT EVENT AND COURSE				
Event: Sentrumsløpet				
Technical Organis	Technical Organiser: Idrottslaget i BUL			
City/Place: Oslo,	Norway			
Date of Arrangem	nent: 27.04.2024			
Date and time for	measurement: 11.04.2023 17:30			
Measured distance	ce(s): 5km			
Length of calibrat	ion course: 300m			
Terrain: Flat Slightly hilly Hilly Terrain Other Other Sace surface: tarmac roads Elevation Start - Finish: 8,8m – 8,2m MSL Description of start: Karl Johans Gate. At last lamp post before Frederiks gate Description of finish: Karl Johans gate, 59,8m before lamp post at Rosenkrantz' gate Distance, in a straight line, between start & finish: 200m Start and Finish marked: Yes No Measurement direction: Running direction Opposite running direction National record can be approved: Yes No				
CONTACT INFORMATION				
	Measured by:	Organizer:		
Contact person:	Samuel Hafsahl	Simen Wifstad		
Phone:	+47 970 46 905	+47 416 71 896		
Email:	samuel.hafsahl@gmail.com	simen.wifstad@bul.no		

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(s) has the correct length(s). The survey is valid for 5 years, except if the route is changed.

12.04.2023 Samuel Hafsahl



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Date Signature by Course measurer Date Signature by NFIF

CALIBRATION COURSE AND PROCEDURE			
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 measure (max. 1 cm diff per 100m 1 st and 2 nd)			
Date and time for measurement	11.04.2022 16:00		
Average of measurements before adjustments	300m		
Temperature (road or measuring tape)	7		
Adjustment cf. D-(D*(1+(temp-20)*0,0000115)	0,9998505		
Measured calibration distance after adjustment	299,955 m		
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 and Time: 11.04.2023 17:30			Date and Time: 11.04.2023 18:30		
	Start	End	Diff.	Start	End	Diff.
1st measure	51 362	54 900	3 538	65 944	69 481	3 537
2nd measure	54 900	58 439	3 539	69 481	73 017	3 536
3rd measure	58 439	61 978	3 539	73 017	76 554	3 537
4th measure	61 978	65 516	3 538	76 554	80 091	3 537



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	Pre	Post	
	measurement	measurement	
Average (1+2+3+4) / 4	3 538,5	3 536,8	Today's constant. Either highest or average of before and after measurement
Working constant 1 km	11 797,3	11 791,5	
Addn. +1‰	11,8	11,8	
Measurement constant (rounded)	11 809	11 803	11 806

MEASUREMENT PROCEDURE				
Measurement constant	11 806	11 806		
Measured Distance	Counter	Description of place		
0m	1,0	Start, Karl Johans gate (at the lamp post)		
5 059,8 m	59 737,0	Finish, Karl Johans gate (at the lamp post)		
5 059,8 m	59 736,0	Total measured without adjustments		
59,8m		Total measured adjustments		
5 000m		Total measured corrected trail		



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CONCLUSION OF MEASUREMENT

1. Measurement method

Cook-Jones counter mounted on bicycle wheel

2. Measurement procedure

Stopp counter - Start counter= total counts 57 737 - 1 = 57 736

Total counts / measurement constant * 1000 = total distance in meter 57 736 / 11 806 * 1000 = 5 059,8 meter

Race total length: 5 000 meter Race is 59,8 meter to long.

3. Course adjustment

Finish line is moved 59,8 meters back. Measured by measuring tape.

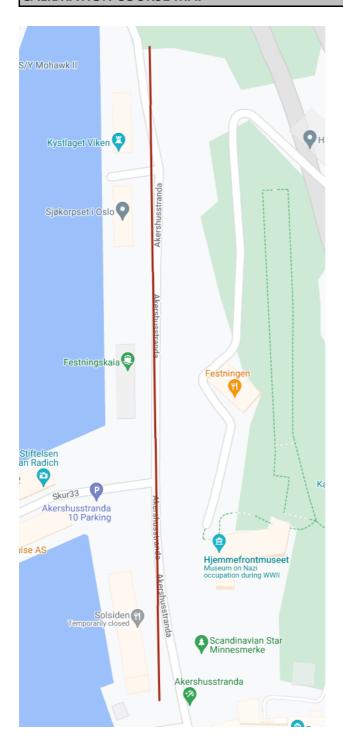


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CALIBRATION COURSE MAP



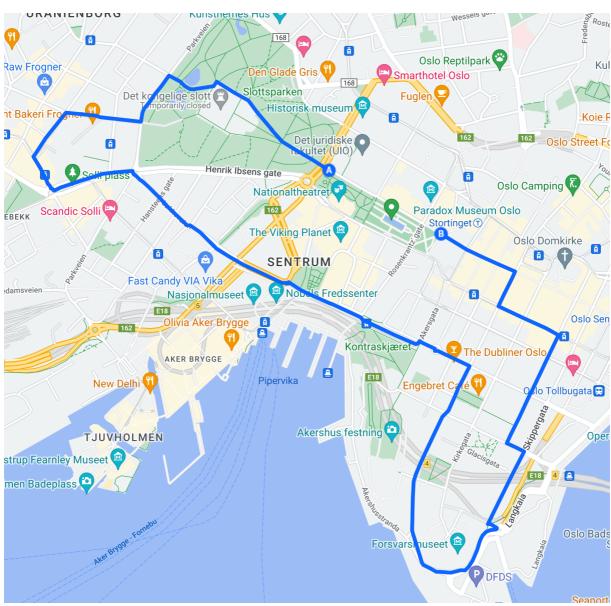


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COURSE MAP & DESCRIPTION



https://www.google.com/maps/d/viewer?mid=1hewItA2Q8ogZP9oF2g0vtn1fkJNzbT8&usp=sharing



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Start

Karl Johans Gate. At last lamp post before Frederiks gate





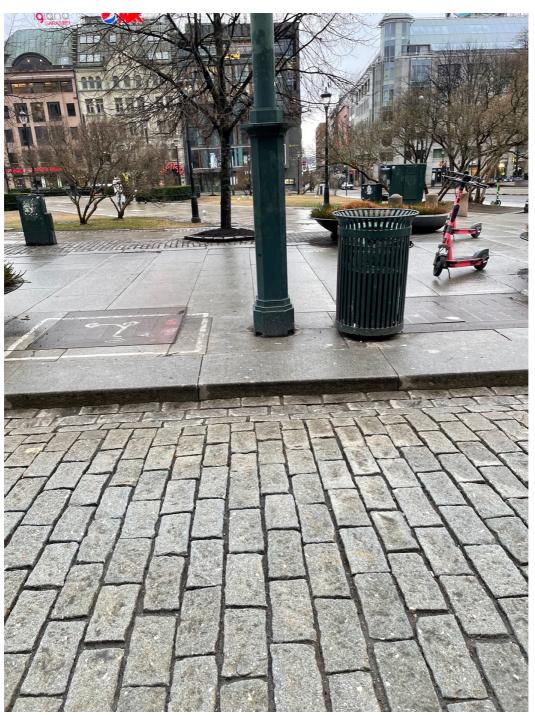
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Finish

Karl Johans gate, 59,8m before lamp post before Rosenkrantz' gate.



The lamp post at Rosenkrantz' gate.

