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Your reference WOZ20170054

## Subject

Meteorological and oceanographic data for Hollandse Kust Wind Farm Zone for the campaign period April 2017 to April 2019

Dear Sir/Madam,

Navigant WTTS reviewed the following campaign report and 24-month datasets prepared by Fugro Norway AS and Deltares with regards to the measurement campaign at Hollandse Kust (noord) offshore Wind Farm Zone, using two SEAWATCH Wind LiDAR Buoys, HKNA and HKNB:

1. Hollandse Kust (noord) Field Measurement Campaign, Campaign report – April 2017 to April 2019, Fugro & Deltares, Reference: 1230377-001-HYE-0004, version 3.0, issued on 20 August 2019  
Reference: *hkn\_20190820\_deltares&fugro\_campaignreport\_v3\_f.pdf*, version 3
2. The collected data of the buoys HKNA and HKNB for 10 April 2017 to 10 April 2019, covering the period 10/04/2017 – 10/04/2019, consisting of the files listed in Appendix A.

Navigant WTTS has verified these to be in line with the following standards:

1. OWA Floating LiDAR Recommended Practice: Issue 1.0, 25th of October 2016
2. MEASNET Evaluation of Site-Specific Wind Conditions: Version 2 of April 2016

Based on this review, Navigant WTTS confirms that these reports and the respective datasets may be used for wind resource assessments and metocean analyses.

Yours sincerely,



Anthony Crockford  
Managing Consultant Navigant WTTS

## Appendix A Data files reviewed

The data set reviewed for 10 April 2017 to 10 April 2019 consists of the files listed below in Table 1.

**Table 1: File names and sizes comprising the 10 April 2017 to 10 April 2019 data set reviewed by Navigant WTTS**

File name	Size (Bytes)
HKN_20190815_Fugro_MetOcean Buoys HKNA PosData_F.csv	675403
HKN_20190815_Fugro_MetOcean Buoys HKNA WaterLevelNonInterpolated_F.csv	3426134
HKN_20190815_Fugro_MetOcean Buoys HKNA WaveCurrentDataStat_F.csv	46528860
HKN_20190815_Fugro_MetOcean Buoys HKNA WaveSpectraComponents_F.csv	219790239
HKN_20190815_Fugro_MetOcean Buoys HKNA WindResourceInflowAnglesStat_F.csv	10374030
HKN_20190815_Fugro_MetOcean Buoys HKNA WindResourceSpeedDirectionT1Stat_F.csv	32671868
HKN_20190815_Fugro_MetOcean Buoys HKNA WindResourceVeerShearStat_F.csv	16929603
HKN_20190815_Fugro_MetOcean Buoys HKNB PosData_F.csv	643678
HKN_20190815_Fugro_MetOcean Buoys HKNB WaterLevelNonInterpolated_F.csv	3680986
HKN_20190815_Fugro_MetOcean Buoys HKNB WaveCurrentDataStat_F.csv	42127593
HKN_20190815_Fugro_MetOcean Buoys HKNB WaveSpectraComponents_F.csv	213132925
HKN_20190815_Fugro_MetOcean Buoys HKNB WindResourceInflowAnglesStat_F.csv	10543904
HKN_20190815_Fugro_MetOcean Buoys HKNB WindResourceSpeedDirectionT1Stat_F.csv	33392410
HKN_20190815_Fugro_MetOcean Buoys HKNB WindResourceVeerShearStat_F.csv	17313226