

August 8, 2023

Project No. 30538/7916D-G

Report No. 23/2607

LI/js

Dreambuild Pty Limited
 6/37A King Road
 HORNSBY NSW 2077



FILED ON
 23 AUG 2023

Attention: Mr Stefano Macri

SUBJECT: GEOTECHNICAL ASSESSMENT
1 BILAMBEE LANE, BILGOLA PLATEAU

Dear Sir,

STS Geotechnics Pty Limited (STS) undertook a geotechnical investigation for the subject site. Results are given in our Report No. 20/1862 dated June 2020. This letter addresses Condition 17 of the Land and Environment Court of NSW Case Number 2021/00065557 Judgement/Order dated 10 November 2021 and to support a Section 4.55 modification. Condition 17 requires the basement to be tanked and temporary dewatering to be addressed. The current proposal includes one basement level that will require excavating about 3 metres below the existing ground level. The proposed changes are shown of the following provided to STS.

- Architectural drawings prepared by ARTIVA Architects, referenced DA-0101 to DA 104, DA0106, DA-0200 to DA-0203, DA-0300 and DA-0301, Revision A dated 18.07.23.

To gain a better understanding of the groundwater conditions at the site, two (2) groundwater monitoring wells were installed in boreholes BH201 and BH202. These boreholes were drilled on December 7, 2021, at the locations shown on the attached Drawing No. 21/3879. The borehole logs are also attached. Data loggers were placed in the monitoring wells and the groundwater levels were recorded every hour on 17 December 2021 to 11 January 2022. The groundwater levels recorded in each borehole are attached and summarised below:

| Location | Ground Surface ¹ RL (m) | Groundwater Depth (m) | Groundwater RL (m) |
|----------|---------------------------------------|--------------------------|-----------------------|
| BH201 | 141.8 | 6.32 | 135.48 |
| BH202 | 141.4 | 5.84 | 135.56 |

¹Taken from survey drawing by Bee and Lethbridge

The B1 level basement has a design level of RL 137.85 metres. Therefore, allowing for the slab thickness and gravel drainage layer, the bulk excavated level will be about RL 137.5m, ie. about 1.9 metres above the groundwater level. This means no dewatering will likely be required during construction. Any minor seepage that may occur during construction can be readily dealt with using a conventional sump and pump. Consequently, it is our opinion that tanking the basement in accordance with Condition 17 is not required for the modified proposal.

The previous proposal included the use of a secant pile wall to prevent the ingress of water into the excavation and to effectively tank the basement post construction. Since the proposed basement excavation is now well above the groundwater level, a conventional soldier pile wall with shotcrete infill can be used as the excavation support. Wall drainage is provided by placing strip drains between the piles prior to applying the shotcrete.

In New South Wales, the Water Management Act 2000 governs the issue of Water Access Licences (WALs) and approvals for water sources (rivers, lakes, estuaries and groundwater). As noted above, as a worst case, some minor seepage may require removal during construction. This is considerably less than the 3 megalitres threshold for a WAL required under the Act. Therefore, a WAL will not be required for the proposed works.

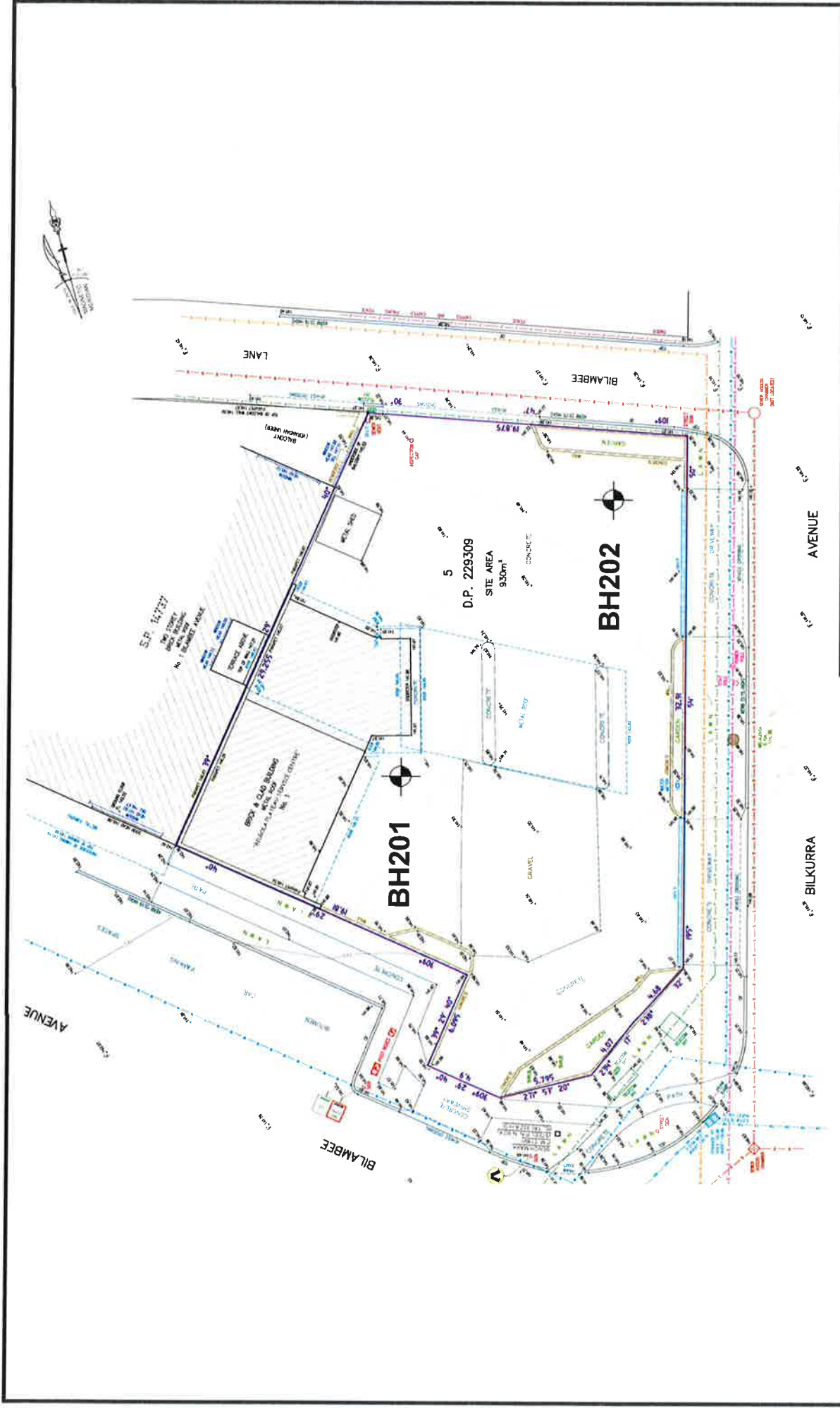
Since the proposed excavation depth is some 1.9 meters above the groundwater level, long term seepage into the basement is not expect. A gravel layer beneath be B1 slab should capture any unexpected seepage into the basement.

We trust this meets with your requirements. Should you have any questions please contact us.

Yours faithfully,



Laurie Ihnativ
Principal Geotechnical Engineer
STS Geotechnics Pty Limited



| | | | |
|---|--|------------------------------|---------------------|
| STS Geotechnics Pty. Ltd. | | Scale: Unknown | Date: December 2021 |
| Client: DREAMBUILD | | | |
| GROUNDWATER MONITORING | | | |
| 1 BILAMBEE LANE, BILGOLA PLATEAU | | Project No. 30538/5857D-G | |
| BOREHOLE LOCATIONS | | Drawing No: 21/3879 | |

| Client: Dreambuild | | Project / STS No. 30538/5857D-G | | BOREHOLE NO.: BH 202 | | |
|--|---------------------------------|---------------------------------|---|--|--|--------------------------------------|
| Project: 1 Bilambee Lane, Bilgola Plateau | | Date: December 7, 2021 | | Sheet 1 of 2 | | |
| Location: Refer to Drawing No. 21/3879 | | Logged: TS Checked By: IW | | | | |
| W A T E R L E V E | S A M P L E S | DEPTH (m) | DESCRIPTION OF DRILLED PRODUCT (Soil type, colour, grain size, plasticity, minor components, observations) | S Y M B O L | CONSISTENCY (cohesive soils) or RELATIVE DENSITY (sands and gravels) | M O I S T U R E |
| | | | CONCRETE: (300 mm thick) | | | |
| | | | FILL: SILTY SANDY CLAY: orange brown, low plasticity, medium grained sand | CL | | M |
| | | | SILTY SANDY CLAY: red brown, low plasticity, medium grained sand | CL | | M |
| | | 1.0 | | | | |
| | | 2.0 | | | | |
| | | 3.0 | | | | |
| | | 4.0 | SILTY SANDY CLAY: orange brown, low plasticity, medium grained sand | CL | | M |
| | | 5.0 | | | | |
| | | | SILTY SANDY CLAY: yellow brown, medium grained sand | CL | | M |
| D - disturbed sample U - undisturbed tube sample B - bulk sample WT - level of water table or free water N - Standard Penetration Test (SPT) S - jar sample | | | | Contractor: STS Equipment: Edson RP70 Hole Diameter (mm): 100 Angle from Vertical (°): 0 Drill Bit: Spiral | | |
| NOTES: See explanation sheets for meaning of all descriptive terms and symbols | | | | | | |

| | | |
|---|---------------------------------|-----------------------------|
| Client: Dreambuild | Project / STS No. 30538/5857D-G | BOREHOLE NO.: BH 202 |
| Project: 1 Bilambee Lane, Bilgola Plateau | Date: December 7, 2021 | |
| Location: Refer to Drawing No. 21/3879 | Logged: TS Checked By: IW | Sheet 2 of 2 |

| W A T E R L E V E L | S A M P L E S | DEPTH (m) | DESCRIPTION OF DRILLED PRODUCT (Soil type, colour, grain size, plasticity, minor components, observations) | S Y M B O L | CONSISTENCY (cohesive soils) or RELATIVE DENSITY (sands and gravels) | M O I S T U R E |
|--|---------------------------------|--------------|---|----------------------------|--|--------------------------------------|
| | | | | | | |
| | | 7.0 | SILTY SANDY CLAY: yellow brown, medium grained sand | CL | | M |
| | | 8.0 | BOREHOLE DISCONTINUED AT 7.0 M | | | |
| | | 9.0 | | | | |
| | | 10.0 | | | | |
| | | 11.0 | | | | |

| | | | |
|---|---|-----------------|----------------------------|
| D - disturbed sample | U - undisturbed tube sample | B - bulk sample | Contractor: STS |
| WT - level of water table or free water | N - Standard Penetration Test (SPT) | | Equipment: Edson RP70 |
| S - jar sample | | | Hole Diameter (mm): 100 |
| NOTES: | See explanation sheets for meaning of all descriptive terms and symbols | | Angle from Vertical (°): 0 |
| | | | Drill Bit: Spiral |

Data file for DataLogger.

=====

COMPANY : <Company name>

COMP.STATUS: Done

DATE : 12/01/2022

TIME : 15:48:41

FILENAME : C:\Users\iwatts\Desktop\CSV\bh202_220112154841_DN896.CSV

CREATED BY : Diver-Office 9.2.0.17

===== BEGINNING OF DATA =====

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Instrument number =-354840 UTC+11
=0

Location =bh202

Sample period =H01

Sample method =T

Number of channels =2

[Channel 1]

Identification =WATER HEAD (WC)

Reference level =4.00000 m

Range =27.50000 m

Master level =400 CMH2O

Altitude =0 m

[Channel 2]

Identification =TEMPERATURE

Reference level =-20.000 °C

Range =100.000 °C

[Series settings]

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Instrument number =-354840 UTC+11

Location =bh202

Sample period =00 01:00:00 0

Sample method =T

Start date / time =00:00:18 17/12/21

End date / time =00:00:15 12/01/22

[Channel 1 from data header]

Identification =WATER HEAD (WC)

Reference level =4.00000 m

Range =27.50000 m

Master level =400 CMH2O

Altitude =0 m

[Channel 2 from data header]

Identification =TEMPERATURE

Reference level =-20.000 °C

Range =100.000 °C

| Date/time | Water head | Temperature[°C] | Water level BEGL |
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| 17/12/2021 19:00 | 0.00233 | 20.52 | 5.84767 |
| 17/12/2021 20:00 | 0.00267 | 20.403 | 5.84733 |
| 17/12/2021 21:00 | 0.00433 | 20.38 | 5.84567 |
| 17/12/2021 22:00 | 0.00142 | 20.37 | 5.84858 |
| 17/12/2021 23:00 | 0.00233 | 20.38 | 5.84767 |
| 18/12/2021 0:00 | 0.00358 | 20.363 | 5.84642 |
| 18/12/2021 1:00 | -0.00317 | 20.363 | 5.85317 |
| 18/12/2021 2:00 | 0.00033 | 20.363 | 5.84967 |
| 18/12/2021 3:00 | 0.00217 | 20.363 | 5.84783 |
| 18/12/2021 4:00 | 0.00125 | 20.363 | 5.84875 |
| 18/12/2021 5:00 | 0.00142 | 20.357 | 5.84858 |
| 18/12/2021 6:00 | -0.00058 | 20.363 | 5.85058 |
| 18/12/2021 7:00 | 0.00125 | 20.363 | 5.84875 |
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| 18/12/2021 9:00 | 0.00142 | 20.363 | 5.84858 |
| 18/12/2021 10:00 | 0.00125 | 20.363 | 5.84875 |
| 18/12/2021 11:00 | -0.00133 | 20.357 | 5.85133 |
| 18/12/2021 12:00 | 0.00358 | 20.363 | 5.84642 |
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| 18/12/2021 15:00 | 0.00433 | 20.363 | 5.84567 |
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| 18/12/2021 17:00 | 0.0025 | 20.363 | 5.8475 |
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| 18/12/2021 19:00 | -0.00117 | 20.37 | 5.85117 |
| 18/12/2021 20:00 | 0.00325 | 20.363 | 5.84675 |
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| 18/12/2021 22:00 | 0.00108 | 20.363 | 5.84892 |
| 18/12/2021 23:00 | 0.00175 | 20.38 | 5.84825 |
| 19/12/2021 0:00 | 0.00267 | 20.347 | 5.84733 |
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| 19/12/2021 2:00 | 0.0005 | 20.363 | 5.8495 |
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| 19/12/2021 6:00 | -0.00058 | 20.363 | 5.85058 |
| 19/12/2021 7:00 | 0.00217 | 20.37 | 5.84783 |
| 19/12/2021 8:00 | 0.00125 | 20.363 | 5.84875 |
| 19/12/2021 9:00 | 0.00658 | 20.37 | 5.84342 |
| 19/12/2021 10:00 | 0.00292 | 20.363 | 5.84708 |
| 19/12/2021 11:00 | 0.00292 | 20.363 | 5.84708 |
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| 19/12/2021 14:00 | -0.00042 | 20.363 | 5.85042 |
| 19/12/2021 15:00 | 0.00292 | 20.38 | 5.84708 |
| 19/12/2021 16:00 | 0.00417 | 20.387 | 5.84583 |
| 19/12/2021 17:00 | 0.00033 | 20.38 | 5.84967 |

| | | | |
|------------------|----------|--------|---------|
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| 19/12/2021 20:00 | 0.00475 | 20.37 | 5.84525 |
| 19/12/2021 21:00 | 0.00233 | 20.37 | 5.84767 |
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| 19/12/2021 23:00 | 0.00383 | 20.37 | 5.84617 |
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| 20/12/2021 7:00 | 0.00175 | 20.38 | 5.84825 |
| 20/12/2021 8:00 | 0.00525 | 20.387 | 5.84475 |
| 20/12/2021 9:00 | 0.00175 | 20.38 | 5.84825 |
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| 21/12/2021 3:00 | 0.00125 | 20.387 | 5.84875 |
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|------------------|----------|--------|---------|
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| 22/12/2021 18:00 | 0.00217 | 20.393 | 5.84783 |
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| 22/12/2021 20:00 | 0.00342 | 20.403 | 5.84658 |
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| 23/12/2021 17:00 | 0.00292 | 20.417 | 5.84708 |
| 23/12/2021 18:00 | 0.0025 | 20.41 | 5.8475 |
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|------------------|----------|--------|---------|
| 23/12/2021 22:00 | 0.00583 | 20.41 | 5.84417 |
| 23/12/2021 23:00 | 0.00325 | 20.41 | 5.84675 |
| 24/12/2021 0:00 | 0.00158 | 20.403 | 5.84842 |
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| 25/12/2021 9:00 | 0.004 | 20.427 | 5.846 |
| 25/12/2021 10:00 | 0.00433 | 20.427 | 5.84567 |
| 25/12/2021 11:00 | 0.00433 | 20.417 | 5.84567 |
| 25/12/2021 12:00 | 0.00233 | 20.427 | 5.84767 |
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| 25/12/2021 15:00 | 0.00308 | 20.427 | 5.84692 |
| 25/12/2021 16:00 | 0.00158 | 20.427 | 5.84842 |
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| | | | |
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| 26/12/2021 3:00 | 0.00158 | 20.433 | 5.84842 |
| 26/12/2021 4:00 | 0.00083 | 20.427 | 5.84917 |
| 26/12/2021 5:00 | 0.00217 | 20.427 | 5.84783 |
| 26/12/2021 6:00 | 0.0045 | 20.417 | 5.8455 |
| 26/12/2021 7:00 | 0.0045 | 20.427 | 5.8455 |
| 26/12/2021 8:00 | 0.00325 | 20.44 | 5.84675 |
| 26/12/2021 9:00 | 0.00525 | 20.427 | 5.84475 |
| 26/12/2021 10:00 | 0.00617 | 20.427 | 5.84383 |
| 26/12/2021 11:00 | 0.00433 | 20.433 | 5.84567 |
| 26/12/2021 12:00 | 0.00583 | 20.433 | 5.84417 |
| 26/12/2021 13:00 | 0.0045 | 20.427 | 5.8455 |
| 26/12/2021 14:00 | 0.00142 | 20.44 | 5.84858 |
| 26/12/2021 15:00 | 0.00125 | 20.427 | 5.84875 |
| 26/12/2021 16:00 | 0.00725 | 20.427 | 5.84275 |
| 26/12/2021 17:00 | -0.00133 | 20.417 | 5.85133 |
| 26/12/2021 18:00 | 0.00308 | 20.427 | 5.84692 |
| 26/12/2021 19:00 | 0.00125 | 20.44 | 5.84875 |
| 26/12/2021 20:00 | 0.00233 | 20.44 | 5.84767 |
| 26/12/2021 21:00 | 0.00583 | 20.427 | 5.84417 |
| 26/12/2021 22:00 | -0.00025 | 20.427 | 5.85025 |
| 26/12/2021 23:00 | 0.00175 | 20.433 | 5.84825 |
| 27/12/2021 0:00 | 0.00142 | 20.427 | 5.84858 |
| 27/12/2021 1:00 | 0.00125 | 20.44 | 5.84875 |
| 27/12/2021 2:00 | 0.00492 | 20.44 | 5.84508 |
| 27/12/2021 3:00 | 0.00033 | 20.427 | 5.84967 |
| 27/12/2021 4:00 | 0.0025 | 20.44 | 5.8475 |
| 27/12/2021 5:00 | 0.006 | 20.427 | 5.844 |
| 27/12/2021 6:00 | 0.00692 | 20.427 | 5.84308 |
| 27/12/2021 7:00 | 0.00433 | 20.44 | 5.84567 |
| 27/12/2021 8:00 | 0.00233 | 20.427 | 5.84767 |
| 27/12/2021 9:00 | 0.00142 | 20.44 | 5.84858 |
| 27/12/2021 10:00 | -0.00133 | 20.427 | 5.85133 |
| 27/12/2021 11:00 | 0.00308 | 20.427 | 5.84692 |
| 27/12/2021 12:00 | 0.004 | 20.45 | 5.846 |
| 27/12/2021 13:00 | 0.00417 | 20.44 | 5.84583 |
| 27/12/2021 14:00 | 0.00233 | 20.44 | 5.84767 |
| 27/12/2021 15:00 | 0.00158 | 20.44 | 5.84842 |
| 27/12/2021 16:00 | 0.00125 | 20.44 | 5.84875 |
| 27/12/2021 17:00 | -0.00042 | 20.45 | 5.85042 |
| 27/12/2021 18:00 | 0.0045 | 20.45 | 5.8455 |
| 27/12/2021 19:00 | 0.00583 | 20.44 | 5.84417 |
| 27/12/2021 20:00 | 0.00725 | 20.433 | 5.84275 |
| 27/12/2021 21:00 | 0.0045 | 20.457 | 5.8455 |
| 27/12/2021 22:00 | 0.00417 | 20.45 | 5.84583 |
| 27/12/2021 23:00 | 0.00083 | 20.433 | 5.84917 |
| 28/12/2021 0:00 | 0.00125 | 20.457 | 5.84875 |
| 28/12/2021 1:00 | 0.0045 | 20.44 | 5.8455 |

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| 28/12/2021 2:00 | 0.00142 | 20.433 | 5.84858 |
| 28/12/2021 3:00 | 0.00142 | 20.44 | 5.84858 |
| 28/12/2021 4:00 | 0.00583 | 20.44 | 5.84417 |
| 28/12/2021 5:00 | 0.00433 | 20.44 | 5.84567 |
| 28/12/2021 6:00 | 0.00633 | 20.44 | 5.84367 |
| 28/12/2021 7:00 | 0.006 | 20.44 | 5.844 |
| 28/12/2021 8:00 | 0.00633 | 20.45 | 5.84367 |
| 28/12/2021 9:00 | 0.006 | 20.45 | 5.844 |
| 28/12/2021 10:00 | 0.00708 | 20.457 | 5.84292 |
| 28/12/2021 11:00 | 0.00417 | 20.45 | 5.84583 |
| 28/12/2021 12:00 | 0.00633 | 20.463 | 5.84367 |
| 28/12/2021 13:00 | 0.00692 | 20.45 | 5.84308 |
| 28/12/2021 14:00 | 0.00417 | 20.457 | 5.84583 |
| 28/12/2021 15:00 | 0.00417 | 20.45 | 5.84583 |
| 28/12/2021 16:00 | 0.00783 | 20.433 | 5.84217 |
| 28/12/2021 17:00 | 0.00508 | 20.44 | 5.84492 |
| 28/12/2021 18:00 | 0.006 | 20.457 | 5.844 |
| 28/12/2021 19:00 | 0.00783 | 20.45 | 5.84217 |
| 28/12/2021 20:00 | 0.00617 | 20.45 | 5.84383 |
| 28/12/2021 21:00 | 0.00342 | 20.45 | 5.84658 |
| 28/12/2021 22:00 | 0.00175 | 20.45 | 5.84825 |
| 28/12/2021 23:00 | 0.00525 | 20.45 | 5.84475 |
| 29/12/2021 0:00 | 0.00492 | 20.457 | 5.84508 |
| 29/12/2021 1:00 | 0.00525 | 20.457 | 5.84475 |
| 29/12/2021 2:00 | 0.00342 | 20.44 | 5.84658 |
| 29/12/2021 3:00 | 0.0045 | 20.457 | 5.8455 |
| 29/12/2021 4:00 | 0.00342 | 20.45 | 5.84658 |
| 29/12/2021 5:00 | 0.00417 | 20.457 | 5.84583 |
| 29/12/2021 6:00 | 0.00325 | 20.45 | 5.84675 |
| 29/12/2021 7:00 | 0.00358 | 20.45 | 5.84642 |
| 29/12/2021 8:00 | 0.0095 | 20.45 | 5.8405 |
| 29/12/2021 9:00 | 0.0045 | 20.457 | 5.8455 |
| 29/12/2021 10:00 | 0.00542 | 20.457 | 5.84458 |
| 29/12/2021 11:00 | 0.00692 | 20.457 | 5.84308 |
| 29/12/2021 12:00 | 0.00725 | 20.463 | 5.84275 |
| 29/12/2021 13:00 | 0.00508 | 20.45 | 5.84492 |
| 29/12/2021 14:00 | 0.00542 | 20.457 | 5.84458 |
| 29/12/2021 15:00 | 0.00542 | 20.457 | 5.84458 |
| 29/12/2021 16:00 | 0.00267 | 20.457 | 5.84733 |
| 29/12/2021 17:00 | 0.00508 | 20.463 | 5.84492 |
| 29/12/2021 18:00 | 0.006 | 20.457 | 5.844 |
| 29/12/2021 19:00 | 0.0045 | 20.457 | 5.8455 |
| 29/12/2021 20:00 | 0.00417 | 20.457 | 5.84583 |
| 29/12/2021 21:00 | 0.0045 | 20.463 | 5.8455 |
| 29/12/2021 22:00 | 0.00433 | 20.463 | 5.84567 |
| 29/12/2021 23:00 | 0.0095 | 20.457 | 5.8405 |
| 30/12/2021 0:00 | 0.00858 | 20.457 | 5.84142 |
| 30/12/2021 1:00 | 0.00492 | 20.457 | 5.84508 |
| 30/12/2021 2:00 | 0.00417 | 20.457 | 5.84583 |
| 30/12/2021 3:00 | 0.00175 | 20.463 | 5.84825 |

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| 30/12/2021 4:00 | 0.0025 | 20.457 | 5.8475 |
| 30/12/2021 5:00 | 0.00433 | 20.457 | 5.84567 |
| 30/12/2021 6:00 | 0.00033 | 20.457 | 5.84967 |
| 30/12/2021 7:00 | 0.0045 | 20.45 | 5.8455 |
| 30/12/2021 8:00 | 0.00583 | 20.463 | 5.84417 |
| 30/12/2021 9:00 | 0.0045 | 20.463 | 5.8455 |
| 30/12/2021 10:00 | 0.00767 | 20.463 | 5.84233 |
| 30/12/2021 11:00 | 0.004 | 20.463 | 5.846 |
| 30/12/2021 12:00 | 0.00417 | 20.463 | 5.84583 |
| 30/12/2021 13:00 | 0.00692 | 20.463 | 5.84308 |
| 30/12/2021 14:00 | 0.00325 | 20.463 | 5.84675 |
| 30/12/2021 15:00 | 0.00342 | 20.463 | 5.84658 |
| 30/12/2021 16:00 | 0.00542 | 20.463 | 5.84458 |
| 30/12/2021 17:00 | 0.00433 | 20.457 | 5.84567 |
| 30/12/2021 18:00 | 0.00233 | 20.463 | 5.84767 |
| 30/12/2021 19:00 | 0.0045 | 20.457 | 5.8455 |
| 30/12/2021 20:00 | 0.00767 | 20.463 | 5.84233 |
| 30/12/2021 21:00 | 0.00708 | 20.457 | 5.84292 |
| 30/12/2021 22:00 | 0.00358 | 20.463 | 5.84642 |
| 30/12/2021 23:00 | 0.00125 | 20.473 | 5.84875 |
| 31/12/2021 0:00 | 0.004 | 20.48 | 5.846 |
| 31/12/2021 1:00 | 0.00675 | 20.473 | 5.84325 |
| 31/12/2021 2:00 | 0.00175 | 20.473 | 5.84825 |
| 31/12/2021 3:00 | 0.00308 | 20.463 | 5.84692 |
| 31/12/2021 4:00 | 0.00358 | 20.473 | 5.84642 |
| 31/12/2021 5:00 | 0.00325 | 20.48 | 5.84675 |
| 31/12/2021 6:00 | 0.00325 | 20.473 | 5.84675 |
| 31/12/2021 7:00 | 0.00417 | 20.457 | 5.84583 |
| 31/12/2021 8:00 | 0.00583 | 20.48 | 5.84417 |
| 31/12/2021 9:00 | -0.00117 | 20.48 | 5.85117 |
| 31/12/2021 10:00 | 0.00142 | 20.48 | 5.84858 |
| 31/12/2021 11:00 | 0.00492 | 20.48 | 5.84508 |
| 31/12/2021 12:00 | 0.00217 | 20.473 | 5.84783 |
| 31/12/2021 13:00 | 0.0045 | 20.48 | 5.8455 |
| 31/12/2021 14:00 | 0.00433 | 20.473 | 5.84567 |
| 31/12/2021 15:00 | 0.00508 | 20.463 | 5.84492 |
| 31/12/2021 16:00 | 0.004 | 20.473 | 5.846 |
| 31/12/2021 17:00 | 0.0025 | 20.463 | 5.8475 |
| 31/12/2021 18:00 | 0.00492 | 20.463 | 5.84508 |
| 31/12/2021 19:00 | 0.00433 | 20.463 | 5.84567 |
| 31/12/2021 20:00 | 0.00067 | 20.48 | 5.84933 |
| 31/12/2021 21:00 | 0.0005 | 20.473 | 5.8495 |
| 31/12/2021 22:00 | 0.0045 | 20.473 | 5.8455 |
| 31/12/2021 23:00 | 0.00158 | 20.49 | 5.84842 |
| 1/01/2022 0:00 | -0.00133 | 20.473 | 5.85133 |
| 1/01/2022 1:00 | 0.00342 | 20.473 | 5.84658 |
| 1/01/2022 2:00 | 0.008 | 20.473 | 5.842 |
| 1/01/2022 3:00 | 0.00542 | 20.48 | 5.84458 |
| 1/01/2022 4:00 | 0.00175 | 20.48 | 5.84825 |
| 1/01/2022 5:00 | 0.00158 | 20.49 | 5.84842 |

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| 1/01/2022 6:00 | -0.00317 | 20.49 | 5.85317 |
| 1/01/2022 7:00 | 0.00325 | 20.49 | 5.84675 |
| 1/01/2022 8:00 | 0.00267 | 20.49 | 5.84733 |
| 1/01/2022 9:00 | -0.00008 | 20.48 | 5.85008 |
| 1/01/2022 10:00 | 0.004 | 20.49 | 5.846 |
| 1/01/2022 11:00 | -0.00008 | 20.48 | 5.85008 |
| 1/01/2022 12:00 | 0.00217 | 20.48 | 5.84783 |
| 1/01/2022 13:00 | 0.006 | 20.48 | 5.844 |
| 1/01/2022 14:00 | 0.00492 | 20.49 | 5.84508 |
| 1/01/2022 15:00 | 0.00525 | 20.49 | 5.84475 |
| 1/01/2022 16:00 | 0.00325 | 20.473 | 5.84675 |
| 1/01/2022 17:00 | 0.00067 | 20.473 | 5.84933 |
| 1/01/2022 18:00 | -0.00258 | 20.49 | 5.85258 |
| 1/01/2022 19:00 | 0.00217 | 20.49 | 5.84783 |
| 1/01/2022 20:00 | 0.00292 | 20.48 | 5.84708 |
| 1/01/2022 21:00 | 0.00217 | 20.49 | 5.84783 |
| 1/01/2022 22:00 | 0.00492 | 20.49 | 5.84508 |
| 1/01/2022 23:00 | 0.0045 | 20.49 | 5.8455 |
| 2/01/2022 0:00 | 0.00125 | 20.49 | 5.84875 |
| 2/01/2022 1:00 | 0.00692 | 20.49 | 5.84308 |
| 2/01/2022 2:00 | 0.00492 | 20.49 | 5.84508 |
| 2/01/2022 3:00 | 0.004 | 20.49 | 5.846 |
| 2/01/2022 4:00 | 0.00067 | 20.48 | 5.84933 |
| 2/01/2022 5:00 | 0.0005 | 20.49 | 5.8495 |
| 2/01/2022 6:00 | 0.00525 | 20.48 | 5.84475 |
| 2/01/2022 7:00 | -0.0015 | 20.49 | 5.8515 |
| 2/01/2022 8:00 | 0.00142 | 20.49 | 5.84858 |
| 2/01/2022 9:00 | -0.00058 | 20.48 | 5.85058 |
| 2/01/2022 10:00 | 0.00217 | 20.49 | 5.84783 |
| 2/01/2022 11:00 | 0.00217 | 20.49 | 5.84783 |
| 2/01/2022 12:00 | 0.00767 | 20.497 | 5.84233 |
| 2/01/2022 13:00 | 0.0025 | 20.503 | 5.8475 |
| 2/01/2022 14:00 | 0.004 | 20.49 | 5.846 |
| 2/01/2022 15:00 | 0.00308 | 20.49 | 5.84692 |
| 2/01/2022 16:00 | 0.00067 | 20.49 | 5.84933 |
| 2/01/2022 17:00 | 0.006 | 20.497 | 5.844 |
| 2/01/2022 18:00 | 0.00617 | 20.497 | 5.84383 |
| 2/01/2022 19:00 | 0.00292 | 20.497 | 5.84708 |
| 2/01/2022 20:00 | 0.00142 | 20.497 | 5.84858 |
| 2/01/2022 21:00 | -0.00317 | 20.503 | 5.85317 |
| 2/01/2022 22:00 | 0.00142 | 20.49 | 5.84858 |
| 2/01/2022 23:00 | 0.00342 | 20.497 | 5.84658 |
| 3/01/2022 0:00 | 0.0025 | 20.49 | 5.8475 |
| 3/01/2022 1:00 | 0.00567 | 20.497 | 5.84433 |
| 3/01/2022 2:00 | -0.00167 | 20.503 | 5.85167 |
| 3/01/2022 3:00 | -0.00058 | 20.513 | 5.85058 |
| 3/01/2022 4:00 | 0.00067 | 20.497 | 5.84933 |
| 3/01/2022 5:00 | 0.00217 | 20.503 | 5.84783 |
| 3/01/2022 6:00 | 0.00142 | 20.503 | 5.84858 |
| 3/01/2022 7:00 | -0.00075 | 20.497 | 5.85075 |

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| 3/01/2022 8:00 | 0.00158 | 20.503 | 5.84842 |
| 3/01/2022 9:00 | 0.00292 | 20.497 | 5.84708 |
| 3/01/2022 10:00 | -0.00333 | 20.503 | 5.85333 |
| 3/01/2022 11:00 | 0.00308 | 20.49 | 5.84692 |
| 3/01/2022 12:00 | -0.00208 | 20.513 | 5.85208 |
| 3/01/2022 13:00 | 0.00158 | 20.497 | 5.84842 |
| 3/01/2022 14:00 | 0.0005 | 20.503 | 5.8495 |
| 3/01/2022 15:00 | 0.0005 | 20.49 | 5.8495 |
| 3/01/2022 16:00 | -0.0015 | 20.503 | 5.8515 |
| 3/01/2022 17:00 | 0.00142 | 20.497 | 5.84858 |
| 3/01/2022 18:00 | -0.00058 | 20.52 | 5.85058 |
| 3/01/2022 19:00 | -0.0015 | 20.503 | 5.8515 |
| 3/01/2022 20:00 | -0.00242 | 20.503 | 5.85242 |
| 3/01/2022 21:00 | -0.00075 | 20.503 | 5.85075 |
| 3/01/2022 22:00 | 0.004 | 20.513 | 5.846 |
| 3/01/2022 23:00 | 0.00325 | 20.52 | 5.84675 |
| 4/01/2022 0:00 | -0.00242 | 20.503 | 5.85242 |
| 4/01/2022 1:00 | -0.003 | 20.513 | 5.853 |
| 4/01/2022 2:00 | -0.00133 | 20.503 | 5.85133 |
| 4/01/2022 3:00 | -0.00075 | 20.513 | 5.85075 |
| 4/01/2022 4:00 | -0.00117 | 20.503 | 5.85117 |
| 4/01/2022 5:00 | -0.00042 | 20.513 | 5.85042 |
| 4/01/2022 6:00 | 0.004 | 20.513 | 5.846 |
| 4/01/2022 7:00 | 0.00292 | 20.513 | 5.84708 |
| 4/01/2022 8:00 | 0.00292 | 20.513 | 5.84708 |
| 4/01/2022 9:00 | 0.00125 | 20.503 | 5.84875 |
| 4/01/2022 10:00 | 0.00142 | 20.513 | 5.84858 |
| 4/01/2022 11:00 | 0.00125 | 20.513 | 5.84875 |
| 4/01/2022 12:00 | 0.00292 | 20.503 | 5.84708 |
| 4/01/2022 13:00 | -0.0015 | 20.52 | 5.8515 |
| 4/01/2022 14:00 | 0.00383 | 20.527 | 5.84617 |
| 4/01/2022 15:00 | 0.00125 | 20.497 | 5.84875 |
| 4/01/2022 16:00 | 0.00067 | 20.52 | 5.84933 |
| 4/01/2022 17:00 | -0.00117 | 20.513 | 5.85117 |
| 4/01/2022 18:00 | 0.00033 | 20.513 | 5.84967 |
| 4/01/2022 19:00 | -0.00117 | 20.52 | 5.85117 |
| 4/01/2022 20:00 | 0.00325 | 20.513 | 5.84675 |
| 4/01/2022 21:00 | 0.00142 | 20.52 | 5.84858 |
| 4/01/2022 22:00 | 0.00342 | 20.497 | 5.84658 |
| 4/01/2022 23:00 | 0.00125 | 20.503 | 5.84875 |
| 5/01/2022 0:00 | -0.00225 | 20.503 | 5.85225 |
| 5/01/2022 1:00 | 0.00325 | 20.52 | 5.84675 |
| 5/01/2022 2:00 | 0.00017 | 20.52 | 5.84983 |
| 5/01/2022 3:00 | 0.00158 | 20.52 | 5.84842 |
| 5/01/2022 4:00 | 0.00142 | 20.52 | 5.84858 |
| 5/01/2022 5:00 | 0.00383 | 20.52 | 5.84617 |
| 5/01/2022 6:00 | -0.00042 | 20.527 | 5.85042 |
| 5/01/2022 7:00 | 0.004 | 20.52 | 5.846 |
| 5/01/2022 8:00 | -0.00025 | 20.52 | 5.85025 |
| 5/01/2022 9:00 | 0.0005 | 20.503 | 5.8495 |

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| 5/01/2022 10:00 | 0.00033 | 20.513 | 5.84967 |
| 5/01/2022 11:00 | 0.00158 | 20.527 | 5.84842 |
| 5/01/2022 12:00 | 0.00125 | 20.52 | 5.84875 |
| 5/01/2022 13:00 | 0.00342 | 20.52 | 5.84658 |
| 5/01/2022 14:00 | 0.00125 | 20.52 | 5.84875 |
| 5/01/2022 15:00 | 0.002 | 20.527 | 5.848 |
| 5/01/2022 16:00 | 0.00108 | 20.52 | 5.84892 |
| 5/01/2022 17:00 | 0.00308 | 20.527 | 5.84692 |
| 5/01/2022 18:00 | -0.0015 | 20.52 | 5.8515 |
| 5/01/2022 19:00 | -0.00025 | 20.52 | 5.85025 |
| 5/01/2022 20:00 | 0.00217 | 20.52 | 5.84783 |
| 5/01/2022 21:00 | 0.0005 | 20.537 | 5.8495 |
| 5/01/2022 22:00 | 0.0005 | 20.527 | 5.8495 |
| 5/01/2022 23:00 | 0.00308 | 20.52 | 5.84692 |
| 6/01/2022 0:00 | 0.00417 | 20.52 | 5.84583 |
| 6/01/2022 1:00 | 0.00267 | 20.527 | 5.84733 |
| 6/01/2022 2:00 | 0.00217 | 20.527 | 5.84783 |
| 6/01/2022 3:00 | 0.00292 | 20.52 | 5.84708 |
| 6/01/2022 4:00 | 0.00175 | 20.52 | 5.84825 |
| 6/01/2022 5:00 | 0.00217 | 20.52 | 5.84783 |
| 6/01/2022 6:00 | -0.00042 | 20.52 | 5.85042 |
| 6/01/2022 7:00 | 0.00358 | 20.527 | 5.84642 |
| 6/01/2022 8:00 | 0.00417 | 20.527 | 5.84583 |
| 6/01/2022 9:00 | 0.00267 | 20.52 | 5.84733 |
| 6/01/2022 10:00 | 0.0025 | 20.537 | 5.8475 |
| 6/01/2022 11:00 | 0.00083 | 20.527 | 5.84917 |
| 6/01/2022 12:00 | 0.0045 | 20.537 | 5.8455 |
| 6/01/2022 13:00 | -0.00008 | 20.537 | 5.85008 |
| 6/01/2022 14:00 | -0.00208 | 20.543 | 5.85208 |
| 6/01/2022 15:00 | -0.00008 | 20.52 | 5.85008 |
| 6/01/2022 16:00 | 0.00125 | 20.55 | 5.84875 |
| 6/01/2022 17:00 | 0.00233 | 20.55 | 5.84767 |
| 6/01/2022 18:00 | 0.0025 | 20.543 | 5.8475 |
| 6/01/2022 19:00 | 0.00217 | 20.527 | 5.84783 |
| 6/01/2022 20:00 | -0.00042 | 20.537 | 5.85042 |
| 6/01/2022 21:00 | 0.00142 | 20.52 | 5.84858 |
| 6/01/2022 22:00 | 0.00083 | 20.537 | 5.84917 |
| 6/01/2022 23:00 | -0.00025 | 20.527 | 5.85025 |
| 7/01/2022 0:00 | 0.0005 | 20.543 | 5.8495 |
| 7/01/2022 1:00 | -0.00283 | 20.543 | 5.85283 |
| 7/01/2022 2:00 | -0.00117 | 20.543 | 5.85117 |
| 7/01/2022 3:00 | -0.00025 | 20.537 | 5.85025 |
| 7/01/2022 4:00 | -0.00008 | 20.537 | 5.85008 |
| 7/01/2022 5:00 | 0.00125 | 20.55 | 5.84875 |
| 7/01/2022 6:00 | 0.0005 | 20.55 | 5.8495 |
| 7/01/2022 7:00 | 0.00325 | 20.543 | 5.84675 |
| 7/01/2022 8:00 | 0.00083 | 20.537 | 5.84917 |
| 7/01/2022 9:00 | -0.00192 | 20.537 | 5.85192 |
| 7/01/2022 10:00 | -0.00058 | 20.55 | 5.85058 |
| 7/01/2022 11:00 | 0.006 | 20.543 | 5.844 |

| | | | |
|-----------------|----------|--------|---------|
| 7/01/2022 12:00 | 0.00217 | 20.537 | 5.84783 |
| 7/01/2022 13:00 | -0.00392 | 20.543 | 5.85392 |
| 7/01/2022 14:00 | 0.00158 | 20.543 | 5.84842 |
| 7/01/2022 15:00 | 0.00325 | 20.55 | 5.84675 |
| 7/01/2022 16:00 | 0.00475 | 20.543 | 5.84525 |
| 7/01/2022 17:00 | 0.00067 | 20.543 | 5.84933 |
| 7/01/2022 18:00 | 0.004 | 20.55 | 5.846 |
| 7/01/2022 19:00 | 0.00325 | 20.55 | 5.84675 |
| 7/01/2022 20:00 | 0.00325 | 20.55 | 5.84675 |
| 7/01/2022 21:00 | 0.00383 | 20.543 | 5.84617 |
| 7/01/2022 22:00 | 0.00217 | 20.537 | 5.84783 |
| 7/01/2022 23:00 | 0.00142 | 20.55 | 5.84858 |
| 8/01/2022 0:00 | 0.00525 | 20.55 | 5.84475 |
| 8/01/2022 1:00 | 0.00233 | 20.55 | 5.84767 |
| 8/01/2022 2:00 | 0.00383 | 20.543 | 5.84617 |
| 8/01/2022 3:00 | 0.0025 | 20.55 | 5.8475 |
| 8/01/2022 4:00 | 0.00567 | 20.55 | 5.84433 |
| 8/01/2022 5:00 | 0.0075 | 20.56 | 5.8425 |
| 8/01/2022 6:00 | 0.00708 | 20.55 | 5.84292 |
| 8/01/2022 7:00 | 0.00875 | 20.56 | 5.84125 |
| 8/01/2022 8:00 | 0.00325 | 20.55 | 5.84675 |
| 8/01/2022 9:00 | 0.00767 | 20.56 | 5.84233 |
| 8/01/2022 10:00 | 0.004 | 20.55 | 5.846 |
| 8/01/2022 11:00 | 0.00675 | 20.56 | 5.84325 |
| 8/01/2022 12:00 | 0.00617 | 20.56 | 5.84383 |
| 8/01/2022 13:00 | 0.00583 | 20.56 | 5.84417 |
| 8/01/2022 14:00 | 0.00675 | 20.55 | 5.84325 |
| 8/01/2022 15:00 | 0.006 | 20.55 | 5.844 |
| 8/01/2022 16:00 | 0.00325 | 20.56 | 5.84675 |
| 8/01/2022 17:00 | 0.00508 | 20.55 | 5.84492 |
| 8/01/2022 18:00 | 0.0075 | 20.55 | 5.8425 |
| 8/01/2022 19:00 | 0.00492 | 20.55 | 5.84508 |
| 8/01/2022 20:00 | 0.00692 | 20.56 | 5.84308 |
| 8/01/2022 21:00 | 0.00267 | 20.56 | 5.84733 |
| 8/01/2022 22:00 | 0.00675 | 20.55 | 5.84325 |
| 8/01/2022 23:00 | 0.00492 | 20.55 | 5.84508 |
| 9/01/2022 0:00 | 0.00417 | 20.567 | 5.84583 |
| 9/01/2022 1:00 | 0.00692 | 20.56 | 5.84308 |
| 9/01/2022 2:00 | 0.00708 | 20.55 | 5.84292 |
| 9/01/2022 3:00 | 0.00433 | 20.56 | 5.84567 |
| 9/01/2022 4:00 | 0.00358 | 20.55 | 5.84642 |
| 9/01/2022 5:00 | 0.00525 | 20.56 | 5.84475 |
| 9/01/2022 6:00 | 0.00817 | 20.56 | 5.84183 |
| 9/01/2022 7:00 | 0.0005 | 20.56 | 5.8495 |
| 9/01/2022 8:00 | 0.00783 | 20.56 | 5.84217 |
| 9/01/2022 9:00 | 0.00783 | 20.56 | 5.84217 |
| 9/01/2022 10:00 | 0.00342 | 20.573 | 5.84658 |
| 9/01/2022 11:00 | 0.006 | 20.567 | 5.844 |
| 9/01/2022 12:00 | 0.0045 | 20.567 | 5.8455 |
| 9/01/2022 13:00 | 0.00708 | 20.567 | 5.84292 |

| | | | |
|------------------|----------|--------|--|
| 9/01/2022 14:00 | 0.00492 | 20.573 | 5.84508 |
| 9/01/2022 15:00 | 0.00125 | 20.55 | 5.84875 |
| 9/01/2022 16:00 | 0.00325 | 20.567 | 5.84675 |
| 9/01/2022 17:00 | 0.00342 | 20.56 | 5.84658 |
| 9/01/2022 18:00 | 0.00342 | 20.567 | 5.84658 |
| 9/01/2022 19:00 | 0.00583 | 20.583 | 5.84417 |
| 9/01/2022 20:00 | 0.00617 | 20.567 | 5.84383 |
| 9/01/2022 21:00 | 0.0095 | 20.567 | 5.8405 |
| 9/01/2022 22:00 | 0.00492 | 20.56 | 5.84508 |
| 9/01/2022 23:00 | 0.0045 | 20.567 | 5.8455 |
| 10/01/2022 0:00 | 0.004 | 20.573 | 5.846 |
| 10/01/2022 1:00 | 0.00617 | 20.567 | 5.84383 |
| 10/01/2022 2:00 | 0.00433 | 20.573 | 5.84567 |
| 10/01/2022 3:00 | 0.00633 | 20.567 | 5.84367 |
| 10/01/2022 4:00 | 0.00583 | 20.583 | 5.84417 |
| 10/01/2022 5:00 | 0.00675 | 20.573 | 5.84325 |
| 10/01/2022 6:00 | 0.00267 | 20.583 | 5.84733 |
| 10/01/2022 7:00 | 0.00125 | 20.573 | 5.84875 |
| 10/01/2022 8:00 | 0.0045 | 20.567 | 5.8455 |
| 10/01/2022 9:00 | 0.00708 | 20.583 | 5.84292 |
| 10/01/2022 10:00 | 0.00967 | 20.573 | 5.84033 |
| 10/01/2022 11:00 | 0.0025 | 20.573 | 5.8475 |
| 10/01/2022 12:00 | 0.00633 | 20.583 | 5.84367 |
| 10/01/2022 13:00 | 0.00325 | 20.583 | 5.84675 |
| 10/01/2022 14:00 | 0.00217 | 20.583 | 5.84783 |
| 10/01/2022 15:00 | 0.00433 | 20.573 | 5.84567 |
| 10/01/2022 16:00 | 0.00083 | 20.583 | 5.84917 |
| 10/01/2022 17:00 | 0.00267 | 20.583 | 5.84733 |
| 10/01/2022 18:00 | 0.00267 | 20.583 | 5.84733 |
| 10/01/2022 19:00 | 0.00525 | 20.583 | 5.84475 |
| 10/01/2022 20:00 | 0.00342 | 20.573 | 5.84658 |
| 10/01/2022 21:00 | 0.00433 | 20.583 | 5.84567 |
| 10/01/2022 22:00 | 0.00692 | 20.583 | 5.84308 |
| 10/01/2022 23:00 | 0.00342 | 20.573 | 5.84658 |
| 11/01/2022 0:00 | 0.00692 | 20.583 | 5.84308 |
| 11/01/2022 1:00 | 0.004 | 20.583 | 5.846 |
| 11/01/2022 2:00 | 0.00725 | 20.583 | 5.84275 |
| 11/01/2022 3:00 | 0.00308 | 20.583 | 5.84692 |
| 11/01/2022 4:00 | 0.00433 | 20.583 | 5.84567 |
| 11/01/2022 5:00 | 0.00508 | 20.583 | 5.84492 |
| 11/01/2022 6:00 | 0.0045 | 20.573 | 5.8455 |
| 11/01/2022 7:00 | 0.00267 | 20.597 | 5.84733 |
| 11/01/2022 8:00 | 0.00008 | 20.583 | 5.84992 |
| 11/01/2022 9:00 | 0.0025 | 20.583 | 5.8475 |
| 11/01/2022 10:00 | 0.00358 | 20.59 | 5.84642 |
| 11/01/2022 11:00 | 0.00525 | 20.59 | 5.84475 |
| 11/01/2022 12:00 | 0.00192 | 20.59 | 5.84808 |
| 11/01/2022 13:00 | 0.00142 | 20.583 | 5.84858 |
| 11/01/2022 14:00 | -0.00517 | 25.653 | 5.85517 here onwards data logger removed |
| 11/01/2022 15:00 | -0.00392 | 23.683 | 5.85392 |

| | | | |
|------------------|----------|--------|---------|
| 11/01/2022 16:00 | -0.00467 | 23.3 | 5.85467 |
| 11/01/2022 17:00 | -0.00175 | 23.13 | 5.85175 |
| 11/01/2022 18:00 | 0.0005 | 23.653 | 5.8495 |
| 11/01/2022 19:00 | -0.00267 | 23.95 | 5.85267 |
| 11/01/2022 20:00 | -0.00558 | 24.153 | 5.85558 |
| 11/01/2022 21:00 | -0.00192 | 24.2 | 5.85192 |
| 11/01/2022 22:00 | -0.00117 | 24.12 | 5.85117 |
| 11/01/2022 23:00 | -0.001 | 23.99 | 5.851 |
| 12/01/2022 0:00 | -0.00392 | 23.823 | 5.85392 |
| 12/01/2022 1:00 | 0.00083 | 23.677 | 5.84917 |
| 12/01/2022 2:00 | 0.00008 | 23.537 | 5.84992 |
| 12/01/2022 3:00 | -0.00392 | 23.41 | 5.85392 |
| 12/01/2022 4:00 | -0.0025 | 23.287 | 5.8525 |
| 12/01/2022 5:00 | -0.00558 | 23.16 | 5.85558 |
| 12/01/2022 6:00 | 0.00008 | 23.043 | 5.84992 |
| 12/01/2022 7:00 | -0.001 | 23.05 | 5.851 |
| 12/01/2022 8:00 | -0.00283 | 23.357 | 5.85283 |
| 12/01/2022 9:00 | -0.00008 | 22.88 | 5.85008 |
| 12/01/2022 10:00 | -0.00325 | 22.917 | 5.85325 |
| 12/01/2022 11:00 | -0.00208 | 23.31 | 5.85208 |
| 12/01/2022 12:00 | 0.00192 | 23.207 | 5.84808 |
| 12/01/2022 13:00 | 0.00208 | 23.277 | 5.84792 |
| 12/01/2022 14:00 | -0.00433 | 23.247 | 5.85433 |
| 12/01/2022 15:00 | 0.00175 | 23.49 | 5.84825 |

END OF DATA FILE OF DATALOGGER FOR WINDOWS