101753906
Revision 01

Sizewell C
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Sizewell C Project
MCA/WRA/2 Water Monitoring Technical Note

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REVISION HISTORY

Rev	Status	Amendment	Prepared By	Date
0.1	Draft	First Draft	[redacted]	05/03/2026
0.2	Draft	Draft following EA / NE comments and internal review		08/05/2026
01	Final	Document for submission		23/06/2026

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1 INTRODUCTION

1.1 Purpose

As part of the development of the new nuclear power station at Sizewell C, groundwater dewatering within the Cut-Off Wall (COW) is required to enable the construction works at the Main Construction Area (MCA) to proceed as planned.

Sizewell C Limited (SZC) is applying for a Water Abstraction Licence (Application Ref. MCA/WRA/2) to enable this dewatering; this document details the proposed water monitoring at key locations and forms part of the package in support of this permit application for the dewatering inside the COW at the MCA.

1.2 Scope

This document:

- identifies existing monitoring locations that could be used to monitor water levels in proximity to sensitive receptors;
- proposes new monitoring points to demonstrate the performance of the COW as a hydraulic barrier is in line with design specification; and
- proposes trigger levels at compliance monitoring points in relation to the dewatering at the MCA.

Where existing monitoring locations are identified, historical monitoring data, where available, has been utilised to derive appropriate trigger levels. Monitoring of these levels and review of data will be undertaken to prove no impact to environmental receptors during the operational phase of the MCA dewatering.

The supporting documentation to the application for Water Abstraction Licence noted in **Section 1.4**, indicates that impact on the water environment due to the dewatering activity at the MCA is not expected. The proposed monitoring, set out in this document, is an assurance measure to demonstrate the real-world response to the dewatering within the MCA COW is in line with predictive modelling. Should dewatering effects be greater than anticipated a proposed response via stipulated management actions is provided.

1.3 Definitions

Term / Abbreviation	Definition
COW	Cut Off Wall
BGS	British Geological Survey
DCO	Development Consent Order
EA	Environment Agency
EDRMS	Electronic Document and Records Management System
HRA	Habitat Regulations Assessment
MCA	Main Construction Area
NE	Natural England
SAC	Special Area of Conservation
SPA	Special Protection Area
SSSI	Site of Special Scientific Interest

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Term / Abbreviation	Definition
SZC	Sizewell C
TCA	Temporary Construction Area
WMMP	Water Monitoring and Management Plan

1.4 References

Ref	Document Title	Version	TC Reference Number/ Link
1	MCA/WRA/2 Existing Monitoring Locations Layout Plan	001	101753912
2	MCA/WRA/2 Groundwater Control Technical Note	001	101753915
3	EW0400 Groundwater Modelling – DCO Modelling Report	P01	101726967
4	EA and NE Modelling and Monitoring Requirements for MCA.WRA.2 Contact Report	001	101753383
5	MCA/WRA/2 Proposed Monitoring Locations	001	101793469
6	DCO Requirement 11: Water Monitoring and Management Plan (East Suffolk Council ref: DC/24/0471/DRR)	1.0	https://publicaccess.eastsuffolk.gov.uk/online-applications/applicationDetails.do?activeTab=documents&keyVal=S8JA5GQX06O00
7	MCA/WRA/2 Proposed Monitoring Locations and Superficial Geology	001	101793449
8	Dewatering Well and Piezometer Layout Tile-A20	001	101804841
9	Dewatering Well and Piezometer Layout Tile-A29	001	101804842
10	TCA/WRA/16 monitoring proposal	001	101631417
11	TCA/WRA/16 Water Monitoring Technical Note	002	101572347
12	TCA/WRA/16 Water Monitoring Technical Note Annex B	001	101574058

1.5 Sensitive Receptors

The following types of sensitive receptors have been considered taking into account the modelled radius of influence of the dewatering activity. Where there is a potential for the effects of dewatering to extend to a sensitive receptor consideration has been given to dedicated monitoring points in **Section 2**. Where the receptor is not within the radius of influence, the monitoring proposed to demonstrate the COW is performing in line with its design specification, will be used to ensure there is no impact on the receptor.

1.5.1 Designated sites

The following Sites of Special Scientific Interest (SSSIs), Special Areas of Conservation (SACs), Special Protection Areas (SPAs) and Ramsar sites have been identified as sensitive receptors. Location of the features of interest are shown on MCA/WRA/2 Existing Monitoring Locations Layout Plan [Ref. 1] for reference.

Table 1 Sensitive Receptors

Sensitive Receptor Site	Distance from Permit location
Sizewell Marshes SSSI *	0.03 km W from COW

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Minsmere to Walberswick SSSI	0.07 km N from COW
Minsmere to Walberswick Heaths and Marshes SAC	0.07 km N from COW
Minsmere-Walberswick SPA	0.07 km N from COW
Minsmere-Walberswick Ramsar site	0.07 km N from COW
Marsh Harried Compensation Habitat **	0.78 km NW from COW
Wild Aldhurst **	1.50 km SW from COW

* Note that part of the Sizewell Marshes has been part of the SZC land-take to enable construction. Land-take and compensation due to habitat loss have been agreed at Development Consent Order (DCO) stage.

** Compensation habitats assessed as functional designated sites for this permit application.

The designated sites are wetland habitats containing ecological features of interest supported by groundwater and surface water.

Dewatering will take place by abstraction of groundwater from boreholes installed within the perimeter of the proposed COW (refer to MCA/WRA/2 Groundwater Control Technical Note, Ref. 2). These boreholes will be constructed to abstract groundwater from the Crag Formation. All abstraction will be inside the low permeability plastic COW, which will completely enclose the MCA and extend into the underlying Harwich Formation to create a hydraulic barrier. Drawdown of groundwater levels outside the COW is limited in magnitude and extent, as indicated within the Groundwater Modelling Report [Ref. 3]. Therefore, dewatering within the Crag will not cause an impact on the hydraulic function of the wetland sites.

In addition to the above sensitive receptors, both Wild Aldhurst and the Marsh Harrier compensation habitats are considered of importance, with the Marsh Harrier specifically mentioned in the joint comment note from the Environment Agency and Natural England, dated 20/02/2026 [Ref. 4]. The proposed groundwater level monitoring will ensure that the effects of the COW dewatering at the MCA do not extend to the Marsh Harrier or Wild Aldhurst sites, and that there is no unacceptable change in Crag groundwater levels beneath the compensation habitats. For a location plan including the Marsh Harrier compensation habitat and the Wild Aldhurst, please refer to enclosed MCA/WRA/2 Existing Monitoring Locations Layout Plan [Ref. 1].

Given the significance of these sensitive receptors, assurance monitoring is proposed as set out in **Section 2.2**. This assurance monitoring is intended to identify any change in groundwater levels relative to the historical monitoring record at receptor specific compliance points. The proposed monitoring, trigger levels and management actions have been developed to ensure that the MCA dewatering would not result in a change to the water levels at the designated sites.

It is noted that the principal engineered control to limit the influence of the dewatering is the COW. Should a defect occur in the integrity of the COW as a hydraulic barrier this may result in a greater than anticipated drawdown of water levels in the Crag outside the COW. Should the defect be sufficiently large this could result in a change in the hydrogeological and hydrological regime.

A full description of the groundwater control system is set out in a separate document, MCA/WRA/2 Groundwater Control Technical Note [Ref. 2]. The principal considerations in relation to the proposed monitoring are as follows:

- Any defect in the COW would be identified at the start of dewatering;
- Depending on the scale of the defect and the required corrective action abstraction may cease if the external drawdown is too great;

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- Significant defects would be mitigated by interventions such as injection grouting to improve the performance as a hydraulic barrier;
- Minor defects may be managed by local reinjection of water to reduce drawdown outside the COW; and
- Small defects may be managed through regular monitoring to determine whether one or more of the above interventions is required.

In order to demonstrate the performance of the COW is in line with the design specification a network of closely spaced monitoring points is proposed around the perimeter of the COW. These monitoring points would be constructed prior to dewatering abstraction commencing and would have trigger levels to identify rapid changes in external groundwater levels that could not otherwise be caused by natural groundwater level fluctuation. These monitoring points and trigger levels are discussed in Sections 2 and 3.

1.5.2 Licenced abstractions

There are no licenced abstractions within the zone of influence of the dewatering. The nearest licenced abstraction points are shown in **Table 2**.

Table 2 Licenced Abstractions

Licenced abstraction	Distance from Permit location	EA Permit Reference
TCA borehole	1.20 km NW from COW	AN/035/0003/016
Northern surface water abstraction point	2.15 km N from COW	7/35/03/*S/0047
Southern surface water abstraction point	0.90 km W from COW	7/35/03/*S/0075

Location of the licenced abstraction shown on MCA/WRA/2 Existing Monitoring Locations plan [Ref. 1] shown on **Figure 1**.

The Temporary Construction Area (TCA) borehole operation was not originally anticipated to continue once dewatering commences as water supply for the project will be met by the desalination plant. However, to allow flexibility in meeting the project's water needs the numerical modelling assessment does consider the potential effects of operating the TCA borehole at a higher abstraction rate during the MCA dewatering. This assessment shows that there is minimal superposition of drawdown related to each abstraction activity. Any in-combination environmental effects would be considered as part of a subsequent application to vary the TCA borehole abstraction licence.

A conservative numerical modelling assessment has been carried out that considers abstraction from the TCA borehole taking place at the same time as dewatering within the MCA. The north and south surface water abstractions are anticipated to continue operating in line with their current licence conditions during dewatering within the COW.

On the basis that the modelled radius of influence of the MCA dewatering does not extend to any licenced abstractions no location specific monitoring is proposed for inclusion on the permit. Protection of these receptors can be achieved by the proposed monitoring to demonstrate the performance of the COW is in line with the design specification.

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1.5.3 Other features

There are no groundwater supported non-designated ecological features of interest within the radius of influence of the MCA dewatering.

Local watercourses or other surface water features that lie outside designated sites are considered outside the radius of influence of the MCA dewatering.

On the basis that the modelled radius of influence of the MCA dewatering does not extend to any other sensitive receptors, no location specific monitoring is proposed for inclusion on the permit. Protection of these receptors can be achieved by the proposed monitoring to demonstrate the performance of the COW is in line with the design specification.

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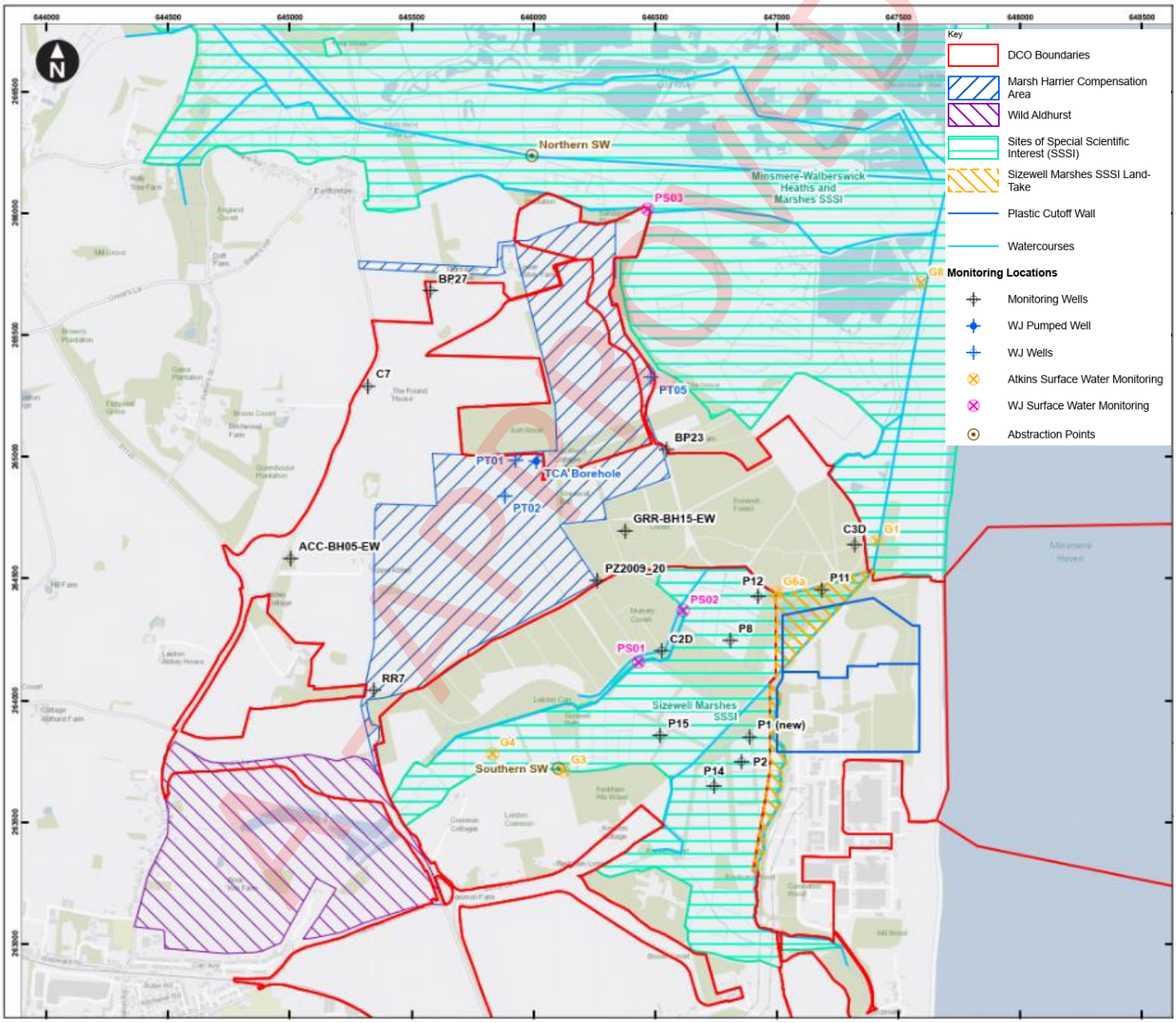
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2 MONITORING LOCATIONS

2.1 Existing Monitoring Locations

Figure 1 shows existing monitoring points with respect to the COW. All points presented in **Figure 1** represent the available locations at which monitoring can be undertaken.

Figure 1 – Existing Monitoring Locations [Ref. 1]



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2.2 Proposed compliance points

2.2.1 Overview

The purpose of the compliance points is to validate the lack of change at sensitive receptors shown in the predictive modelling. While there is no impact on the hydraulic function of the sensitive receptors this is based on a defined magnitude and extent of external drawdown. The compliance points and associated trigger levels will allow data to be collected to demonstrate the conditions assessed during permit determination are reflected during operation of the MCA dewatering system.

Compliance points have been proposed where there is an existing monitoring point between the edge of the MCA dewatering and the receptor. Refer to the enclosed map MCA/WRA/2 Proposed Monitoring Locations [Ref. 5]. It should be noted that where proposed groundwater monitoring locations are within the Crag, they are considered valid for monitoring and assessing impact within the nearby SSSI locations, compensation habitats and the superficial peat deposits. This is because, if significant changes occur in the Crag due to abstraction within the COW, variance in groundwater levels in the monitoring boreholes (which are monitoring the Crag) will be detected before changes are observed within the peat. Similarly, where surface water monitoring points are proposed they will reflect changes in peat groundwater due to the hydraulic continuity between surface water and peat groundwater. The monitoring proposals for the Minsmere-Walberswick sites do not consider the underlying clay layer, assuming hydraulic continuity between surface water environment and the Crag aquifer as a precautionary approach. SZC's proposed monitoring and triggers are conservative, since changes in water levels will be detected first in the Crag during dewatering within the COW.

2.2.2 Compliance Points for Sizewell Marshes SSSI

Monitoring point C2D is situated to the west of the MCA dewatering and approximately 470m from the eastern boundary of the Sizewell Marshes SSSI. The use of C2D as a compliance point is proposed as it will give a direct measurement of any increased drawdown beneath the SSSI itself.

Change in the Sizewell Marshes SSSI is already assessed under the Water Monitoring and Management Plan (WMMP) [Ref. 6] as part of DCO Requirement 11. While it would be preferable to maintain separation between regulatory controls it is proposed to include peat monitoring points P2, P4, P12 from the WMMP as compliance points. These are the closest peat monitoring points to the MCA dewatering meaning any change would first be identified at these locations. Peat levels in the remainder of the Sizewell Marshes SSSI will continue to be monitored via the remainder of the P-series monitoring points under the WMMP provision.

2.2.3 Compliance Points for the Minsmere to Walberswick SSSI

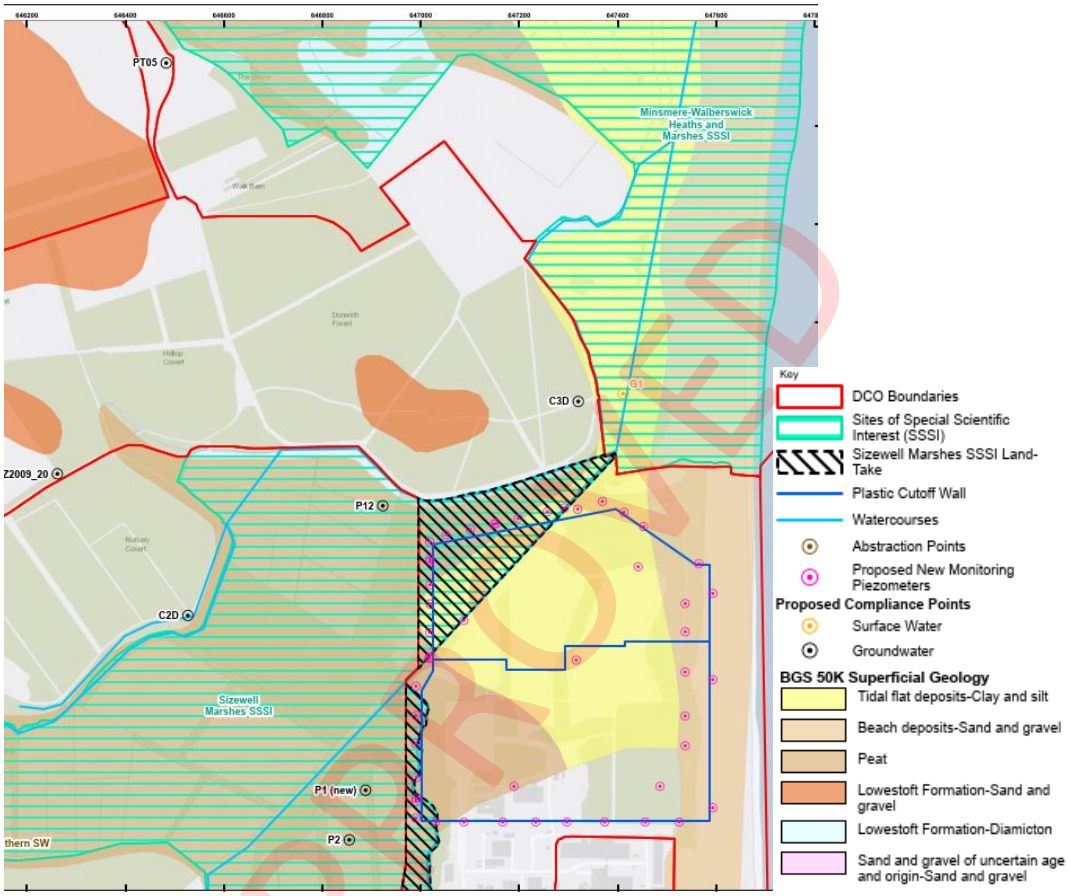
The Minsmere to Walberswick SSSI features of interest are related to the wetland environment associated with the shallow groundwater system in the peat, which is in hydraulic continuity with the Sizewell Drain and local unnamed channels and ditch systems. The published British Geological Survey (BGS) geological mapping for the area suggests that the shallow water environment is likely to be perched on low permeability Tidal Flats, please refer to enclosed MCA/WRA/2 Proposed Monitoring Locations and Superficial Geology [Ref. 7]. The boundary of the SSSI in relation to the mapped extent of the Tidal Flat deposits is shown on **Figure 2**

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Figure 2 – BGS Superficial Deposits 1:50k



Given the likely hydraulic separation between Crag groundwater and the shallow water environment which supports the ecological features of interest in the Minsmere SSSI, combined with the limited extent of observable change in Crag groundwater shown in the modelling, impact to the hydraulic function of the shallow groundwater environment is deemed unlikely. However, assuming the strata of the base of COW is not completely impermeable, to demonstrate the magnitude of change is not greater than modelled, it is proposed to use C3D to demonstrate whether there is an observable effect from the dewatering. C3D is located due west of the southern extent of the Minsmere SSSI and will give a direct measure of change in the Crag water levels beneath the Tidal Flats that support the shallow groundwater system in the Minsmere SSSI. Additionally, given the hydraulic continuity between the shallow peat groundwater and surface water, monitoring points G1 and G8 will be used to assess change in surface water flows that would indicate there is a reduction in water levels in the SSSI as a result of MCA dewatering.

All three proposed compliance points benefit from long datasets extending over multiple years. This allows the derivation of representative trigger levels to prompt investigation and, if necessary, intervention to address unacceptable change if it is caused by the dewatering abstraction.

It is not proposed to install new monitoring infrastructure within the Minsmere SSSI itself. In order to install monitoring equipment there would be disturbance to the environment. This may be justified if new monitoring equipment would provide beneficial data, however without a long-term record of natural variability in the shallow groundwater it would not be possible to derive representative trigger values. As seen in the long-term monitoring records for peat monitoring points in the Sizewell Marshes SSSI, there is a sufficient degree of natural variability within a normal annual cycle to make deriving a representative trigger value impossible

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without a long-term record. The trigger values within the Sizewell Marshes SSSI have been derived using statistical analysis of multiple years of data to determine representative thresholds within which water levels should remain. In the absence of this long-term record such an exercise would not be possible for any new installations in the Minsmere SSSI. The use of arbitrary triggers in any new monitoring locations is not considered protective of the environment.

2.2.4 Compliance Points for the Minsmere to Walberswick SAC, SPA and Ramsar sites

Change at this receptor would be the same as that for the Minsmere to Walberswick SSSI due to their location and spatial overlap.

2.2.5 Compliance Points for the Marsh Harrier Lagoon

The Marsh Harrier compensation habitat includes a lagoon which is in continuity with Crag groundwater. In order to demonstrate the observed change is in line with the modelling results, monitoring locations C2D, GW4 and PT05 are proposed as compliance points.

C2D and PZ2009_20 are Crag monitoring points that are closer to the MCA dewatering than the Marsh Harrier Compensation Habitat. Any change in levels at these locations which breaches a trigger value would provide an early indication of drawdown propagating to the Marsh Harrier Lagoon.

PT05 is located to the south of the Marsh Harrier Lagoon and would give a direct measurement of change in the immediate proximity of the sensitive receptor.

2.2.6 Compliance Points for Wild Aldhurst

Changes at Wild Aldhurst would be assessed in the same way as for the Sizewell Marshes SSSI, which are situated between Wild Aldhurst and the MCA.

2.2.7 Summary

Based on the location of the available monitoring points the compliance listed in **Table 3** have been proposed.

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Table 3 – Proposed Monitoring Points

Monitoring Point	Surface water or Groundwater	Easting	Northing	Depth (m bgl)	Proposed Monitoring Method	Comments / Rationale
PT05	Groundwater	646479	265315	15.0	Datalogger	Considered as a suitable monitoring point for detecting changes in the Marsh Harrier Compensatory Habitat as included in the joint comment note [Ref. 4]
C3D	Groundwater	647320	264639	24.0	Datalogger (to include recording of Electrical Conductivity)	C3D extends within the Alluvium Deposits and the Crag Formation. This monitoring point is proposed for assessment as it is located close to the Minsmere Marshes SSSI, to the north of the proposed COW (see **Figure 1**). Its purpose is to detect any potential effects on the Minsmere Marshes caused by dewatering. It should be noted that this point is tidally influenced and therefore the monitoring will detect daily fluctuations in water levels due to the tide.
PZ2009_20 (GW4)	Groundwater	646261	264492	10.7	Datalogger	PZ2009_20 (also known as GW4) is proposed to monitor change in the groundwater levels which could result from the dewatering show impact on the boundary of the Marsh Harrier Compensation Area, to the north-west of the COW as shown on **Figure 1**.
C2D	Groundwater	646527	264204	24.0	Datalogger	This groundwater monitoring point is intended to track up-gradient changes in groundwater that may affect the Marsh Harrier Compensation Habitat, as well as detect potential impacts to the Wild Aldhurst Compensation Area. Positioned west of the COW (see **Figure 1**), a decrease in groundwater level here would be detected before any changes occur at PZ2009_20 (GW4).
P2	Groundwater	646855	263748	1.61	Automatic loggers recording water level with monthly downloads and manual measurements	Monitoring locations sit in the nationally designated fen meadow habitats. They measure groundwater in the shallow peat and lie within the zone where drawdown of more than 0.1m is predicted in Crag. Whilst smaller effects are predicted in the peat, the monitoring locations are proposed to verify these findings. Trigger

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Monitoring Point	Surface water or Groundwater	Easting	Northing	Depth (m bgl)	Proposed Monitoring Method	Comments / Rationale
					where feasible. Monthly water quality.	water levels have been established for these locations as part of the WMMP [Ref. 6].
P1 (new)	Groundwater	646888	263849	1.57	Automatic loggers recording water level with monthly downloads and manual measurements where feasible. Monthly water quality.	The proximity of these monitoring locations to the MCA, the realigned Sizewell Drain (DRN162G0202 and DRN163G0201), and areas of maximum drawdown in the peat. The measure groundwater in the shallow peat and will allow the early identification of effects that may extend further to designated wetland. Trigger water levels have been established for these locations as part of the WMMP [Ref. 6].
P12	Groundwater	646923	264427	1.55	Automatic loggers recording water level with monthly downloads and manual measurements where feasible. Monthly water quality.	Monitoring locations sit in the nationally designated fen meadow habitats. They measure groundwater in the shallow peat and lie within the zone where drawdown of more than 0.1m is predicted in Crag. Whilst smaller effects are predicted in the peat, the monitoring locations are proposed to verify these findings. Trigger water levels have been established for these locations as part of the WMMP [Ref. 6].
G1	Surface Water	647411	264655	N/A	Automatic loggers recording water level with monthly downloads and manual measurements where feasible. Monthly water quality.	Surface water monitoring providing the means of demonstrating the lack of effect downstream of the MCA. The reach is influenced by tide locking at Minsmere Sluice, which can only fully be separated from the fluvial influence by using both gates. This point monitors the shallow water environment within the Minsmere Marshes SSSI.
G8	Surface Water	647593	265715	N/A	Automatic loggers recording water level with monthly downloads and manual measurements where feasible. Monthly water quality.	Surface water monitoring providing the means of demonstrating the lack of effect downstream of the MCA. The reach is influenced by tide locking at Minsmere Sluice, which can only fully be separated from the fluvial influence by using both gates. This point monitors the shallow water environment within the Minsmere Marshes SSSI.

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NA

2.3 Proposed New Monitoring Piezometers

Besides monitoring water levels at existing points, perimeter piezometers spaced 30–50m apart outside the COW will be installed for monitoring groundwater levels during the MCA dewatering. The monitoring points are spaced laterally and vertically to provide coverage of the full extent of the COW. Their location and depth are shown on Dewatering Well and Piezometer Layout Tile-A20 [Ref. 8] and Dewatering Well and Piezometer Layout Tile-A29 [Ref. 9]. The primary purpose of these monitoring points is to demonstrate the COW performance as a hydraulic barrier is in line with the design specification. However, this dense monitoring network in close proximity to the COW ensures it is possible to demonstrate that dewatering effects do not impact the wider water environment. Northern piezometers would ensure that no dewatering impact reaches Minsmere Marshes SSSI; western ones will detect changes in groundwater levels that could impact Sizewell Marshes SSSI and the compensation habitats (Marsh Harrier and Wild Aldhurst). Eastern and southern piezometers will confirm that dewatering effects stay inside the COW.

A rapid decrease in groundwater levels in external monitoring points may signal a defect in the COW. Given the Crag deposits' high transmissivity, incoming water could pose risks to construction within the MCA and potentially affect nearby designated areas. A proposed threshold for acceptable change is set out in **Section 3**. Some of the monitoring points are expected to be tidally influenced due to their proximity to the sea which is considered in the trigger levels defined at those locations.

Table 4 presents details of the proposed piezometers outside the COW, along with indicative locations of dewatering wells for reference. Coordinates may vary slightly due to unforeseen site constraints.

Table 4 - List of proposed new piezometers outside the COW and dewatering wells

ECS Code	Well No.	Easting (m)	Northing (m)	Elevation (m AOD)	Type of well	NGR
0WSO8001MPL0001	IW24	647087.540	264193.917	0.782	Piezometer	TM 47088 64194
0WSO8001MPL0002	IW23	647441.552	264303.177	2.213	Piezometer	TM 47442 64303
0WSO8001MPL0003	IW28	647315.747	264113.340	1.307	Piezometer	TM 47316 64113
0WSO8001MPL0004	IW30	647189.342	263856.691	6.000	Piezometer	TM 47189 63857
0WSO8001MPL0005	IW31	647486.061	263856.691	6.558	Piezometer	TM 47486 63857
0WSO8001POW0001	IW25	647169.049	264125.331	0.385	Dewatering Well	TM 47169 64125
0WSO8001POW0002	IW26	647181.076	264083.476	0.489	Dewatering Well	TM 47181 64083
0WSO8001POW0003	IW27	647295.926	264151.846	0.410	Dewatering Well	TM 47296 64152
0WSO8001POW0004	IW29	647399.777	264131.280	0.803	Dewatering Well	TM 47400 64131
0WSO8002MPL0001	EM05	647593.125	264248.944	3.840	Piezometer	TM 47593 64249
0WSO8002MPL0002	EM06	647537.062	264228.204	4.021	Piezometer	TM 47537 64228
0WSO8002MPL0003	EM07	647537.062	264170.993	3.972	Piezometer	TM 47537 64171
0WSO8002MPL0004	EM08	647537.062	264089.064	3.970	Piezometer	TM 47537 64089
0WSO8002MPL0005	EM09	647593.125	264073.645	3.835	Piezometer	TM 47593 64074
0WSO8002MPL0006	EM10	647537.062	263999.602	3.975	Piezometer	TM 47537 64000
0WSO8002MPL0007	EM11	647537.062	263939.141	3.973	Piezometer	TM 47537 63939
0WSO8002MPL0008	EM12	647593.274	263813.282	4.040	Piezometer	TM 47593 63813

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ECS Code	Well No.	Easting (m)	Northing (m)	Elevation (m AOD)	Type of well	NGR
0WSO8002MPL0009	EM13	647525.022	263784.281	4.012	Piezometer	TM 47525 63784
0WSO8002MPL0010	EM14	647455.964	263784.281	4.019	Piezometer	TM 47456 63784
0WSO8002MPL0011	EM15	647373.756	263784.281	3.826	Piezometer	TM 47374 63784
0WSO8002MPL0012	EM16	647296.771	263784.281	3.804	Piezometer	TM 47297 63784
0WSO8002MPL0013	EM17	647233.546	263784.281	3.783	Piezometer	TM 47234 63784
0WSO8002MPL0014	EM18	647166.527	263784.281	3.782	Piezometer	TM 47167 63784
0WSO8002MPL0015	EM19	647087.890	263784.281	3.759	Piezometer	TM 47088 63784
0WSO8002MPL0016	EM20	647030.252	263784.281	3.994	Piezometer	TM 47030 63784
0WSO8002MPL0017	EM21	646989.905	263792.062	0.748	Piezometer	TM 46990 63792
0WSO8002MPL0018	EM15	646990.367	263826.873	3.969	Piezometer	TM 46990 63827
0WSO8002MPL0019	EM16	646990.495	263832.550	3.939	Piezometer	TM 46990 63833
0WSO8002MPL0020	EM17	646991.228	263874.530	3.928	Piezometer	TM 46991 63875
0WSO8002MPL0021	EM18	646989.962	263943.639	3.930	Piezometer	TM 46990 63944
0WSO8002MPL0022	EM19	646990.355	264000.922	3.930	Piezometer	TM 46990 64001
0WSO8002MPL0023	EM20	646990.279	264060.490	3.971	Piezometer	TM 46990 64060
0WSO8002MPL0024	EM21	647016.883	264116.577	3.873	Piezometer	TM 47017 64117
0WSO8002MPL0025	EM22	647017.578	264119.308	3.861	Piezometer	TM 47018 64119
0WSO8002MPL0026	EM23	647018.081	264169.618	4.108	Piezometer	TM 47018 64170
0WSO8002MPL0027	EM24	647018.704	264227.589	5.227	Piezometer	TM 47019 64228
0WSO8002MPL0028	EM25	647019.236	264266.549	5.992	Piezometer	TM 47019 64267
0WSO8002MPL0029	EM26	647019.024	264314.364	6.903	Piezometer	TM 47019 64314
0WSO8002MPL0030	EM27	647018.943	264318.622	7.005	Piezometer	TM 47019 64319
0WSO8002MPL0031	EM28	647018.108	264353.937	7.298	Piezometer	TM 47018 64354
0WSO8002MPL0032	EM29	647051.650	264367.972	7.300	Piezometer	TM 47052 64368
0WSO8002MPL0033	EM30	647100.687	264379.129	7.300	Piezometer	TM 47101 64379
0WSO8002MPL0034	EM31	647148.936	264390.107	7.300	Piezometer	TM 47149 64390
0WSO8002MPL0035	EM32	647153.671	264391.184	7.300	Piezometer	TM 47154 64391
0WSO8002MPL0036	EM33	647197.900	264401.247	7.300	Piezometer	TM 47198 64401
0WSO8002MPL0037	EM34	647257.248	264414.749	7.300	Piezometer	TM 47257 64415
0WSO8002MPL0038	EM35	647291.878	264422.628	7.300	Piezometer	TM 47292 64423
0WSO8002MPL0039	EM36	647318.908	264420.117	8.128	Piezometer	TM 47319 64420
0WSO8002MPL0040	EM01	647369.104	264435.986	7.735	Piezometer	TM 47369 64436
0WSO8002MPL0041	EM02	647412.852	264413.793	6.819	Piezometer	TM 47413 64414
0WSO8002MPL0042	EM03	647452.719	264384.627	5.909	Piezometer	TM 47453 64385
0WSO8002MPL0043	EM04	647564.964	264309.077	6.919	Piezometer	TM 47565 64309
0WSO8002POW0001	IW04	647576.529	264226.207	2.434	Dewatering Well	TM 47577 64226
0WSO8002POW0010	IW13	647177.917	263804.012	2.933	Dewatering Well	TM 47178 63804
0WSO8002POW0011	IW14	647029.582	263800.384	2.703	Dewatering Well	TM 47030 63800
0WSO8002POW0012	IW15	647004.744	263927.602	2.681	Dewatering Well	TM 47005 63928

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ECS Code	Well No.	Easting (m)	Northing (m)	Elevation (m AOD)	Type of well	NGR
0WSO8002POW0013	IW16	647004.745	264024.688	2.681	Dewatering Well	TM 47005 64025
0WSO8002POW0014	IW17	647028.965	264128.664	2.673	Dewatering Well	TM 47029 64129
0WSO8002POW0015	IW18	647028.965	264232.485	4.179	Dewatering Well	TM 47029 64232
0WSO8002POW0016	IW19	647029.255	264316.976	5.809	Dewatering Well	TM 47029 64317
0WSO8002POW0017	IW20	647083.382	264350.793	6.056	Dewatering Well	TM 47083 64351
0WSO8002POW0018	IW21	647208.204	264375.210	6.113	Dewatering Well	TM 47208 64375
0WSO8002POW0019	IW22	647309.573	264399.593	6.732	Dewatering Well	TM 47310 64400
0WSO8002POW002	IW05	647576.542	264160.077	2.655	Dewatering Well	TM 47577 64160
0WSO8002POW0020	IW01	647424.200	264391.616	5.453	Dewatering Well	TM 47424 64392
0WSO8002POW0021	IW02	647483.595	264356.357	4.769	Dewatering Well	TM 47484 64356
0WSO8002POW0022	IW03	647537.492	264270.323	3.935	Dewatering Well	TM 47537 64270
0WSO8002POW003	IW06	647576.542	264142.755	2.689	Dewatering Well	TM 47577 64143
0WSO8002POW004	IW07	647576.527	264045.946	2.514	Dewatering Well	TM 47577 64046
0WSO8002POW005	IW08	647576.546	263997.475	2.683	Dewatering Well	TM 47577 63997
0WSO8002POW006	IW09	647576.157	263906.772	2.634	Dewatering Well	TM 47576 63907
0WSO8002POW007	IW10	647576.026	263809.906	3.083	Dewatering Well	TM 47576 63810
0WSO8002POW008	IW11	647477.156	263805.492	3.106	Dewatering Well	TM 47477 63805
0WSO8002POW009	IW12	647308.445	263803.320	2.916	Dewatering Well	TM 47308 63803

NOTE: the provided locations could slightly change depending on access, constraints or final location of COW. The listed points are based on a maximum dewatering extent at the MCA.

As well as providing general assurance monitoring for the water environment this network of new monitoring points would also provide additional protection to designated sites close to the COW. The rapid identification of any defects would ensure rapid intervention and corrective action.

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2.4 Summary

The monitoring network proposed for the dewatering activities at the MCA comprises of both compliance point of existing monitoring locations and new perimeter piezometers along the exterior side of the COW

As detailed in the sections above, the purpose of the existing points is to comply with the requirements for no change at sensitive receptors because of the dewatering activities at the MCA.

The primary purpose of the new piezometers along the COW is to demonstrate the COW performance as a hydraulic barrier is in line with the design specification.

Similar to the TCA monitoring proposal [Ref. 10], if any of the proposed monitoring points located outside the COW are damaged, a like-for-like replacement would be constructed as close to the original location as possible.

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3 TRIGGER LEVELS

Monitoring points that are located between the MCA COW and the designated sites have been proposed in this section to allow identification of any influence on groundwater from the dewatering operations before it reaches the closest boundary of a designated site.

3.1 Proposed Compliance Points

3.1.1 Historic monitoring records

The historic monitoring records of water levels are available for the locations listed in **Table 5** below. The available monitoring datasets for PT05, C2D, C3D, PZ2009_20 (GW4) have been collected during the Development Consent Order (DCO) stage (October 2013 – June 2019), the post-DCO monitoring (January 2019 – October 2021), during the TCA borehole pumping test (February 2025 – March 2025) and some limited other periods (e.g. C2D October 2021 – May 2022 and C3D April 2025 – June 2025) which is added for completeness. Monitoring data for PT05 does not extend before 2025 as it was constructed for TCA borehole monitoring.

Surface Water points G1, G3, G4 and G8 are included in the WMMP [Ref. 6] for continuous monitoring and have associated trigger levels developed already.

Compliance points P2, P1 (new) and P12 are already part of the WMMP with associated trigger levels and action plan and therefore have not been included in **Table 5.**

Table 5 – Historic Water Level Monitoring Records for Proposed Monitoring Points

Monitoring Point	Surface Water or Groundwater	Min Water level (mAOD)	Max water level (mAOD)	Average Water Level (mAOD)	Monitoring Period
PT05*	Groundwater	0.95	1.02	0.99	04/02/2025 – 13/03/2025
C2D	Groundwater	0.685	0.898	0.794	20/10/2021 - 11/05/2022
		0.528	0.972	0.762	31/01/2019 - 20/10/2021
		0.396	0.892	0.696	14/10/2013 – 05/06/2019
C3D	Groundwater	0.37	1.11	0.73	17/04/2024 – 11/06/2025
		0.504	0.952	0.745	04/06/2019 – 20/10/2021
		0.361	0.864	0.685	18/10/2013 – 05/06/2019
PZ2009_20 (GW4)	Groundwater	1.23	1.29	1.26	04/02/2025 – 13/03/2025
		1.033	1.486	1.268	02/05/2019 – 20/10/2021
		0.910	1.435	1.224	18/10/2013 – 02/05/2019

* PT05 was constructed in 2025. No data is available for this point before February 2025.

The historic monitoring records in **Table 5** correspond to continuous monitoring within the specified periods which are included as graphs for completeness in Annex C.

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In addition to the historic monitoring of water levels data is also available for monitoring point C3D for Electrical Conductivity for the period 2013 to 2014. Groundwater in C3D was shown to have low Electrical Conductivity (<500s/cm) with little variation over time during the monitoring period. The historic data will be made available for new monitoring data to be compared against.

3.1.2 Proposed Trigger Levels

Following similar logic to that used in the WMMP [Ref. 6], the proposed trigger levels have been determined from the historical data sets available for the proposed monitoring points.

The trigger levels for monitoring points C2D, C3D and PZ2009_20 (GW4), which have a long-term record, have been defined in the TCA/WRA/16 Water Monitoring Technical Note [Ref. 11]. The trigger levels (**Table 6**) have been set at the 70th centile of the historical monitoring record, i.e. the level at which water levels are above 70% of the time on the full dataset of records for that monitoring location, i.e. 30% of water level records are lower than the 70th centile. This allows timely intervention if a trigger level is passed. We are proposing to use the trigger levels for C2D, C3D and PZ2009_20 (GW4) already established within the abstraction licence for the TCA borehole (AN/035/0003/016).

Table 6 – Trigger Levels Based on TCA Borehole Abstraction Permit

Location	Ground level (mAOD)	Monitoring period	Typical Groundwater level inferred from DCO contour map	Observed DD (m) from pump test	Trigger level (mAOD)	Rationale
C2D	1.77	14/10/2013 - 11/05/2022	0.77	n/a	**0.67**	70th centile of full dataset, excluding pump test data
C3D	2.77	18/10/2013 - 11/06/2025	0.5	n/a	**0.53***	70th centile of full dataset
PZ2009_20 (GW4)	7.17	18/10/2013 - 13/03/2025	1.31	n/a	**1.17**	70th centile of full dataset

*Water levels influenced by the tide. Rolling daily average to be used for the comparison against proposed trigger level.

Compliance points P2, P1 new and P12 are already part of the WMMP [Ref. 6] with associated trigger levels and action plan and therefore have not been included in **Table 6** above.

The logger installed at C3D also records Electrical Conductivity, but no trigger value is proposed for this parameter.

3.2 Proposed New Monitoring Piezometers

In addition to the existing monitoring points, external piezometers positioned at the perimeter are proposed to be utilised to observe water levels outside the COW. Proposed trigger thresholds are defined based on a rate of change in groundwater levels observed over a two-week period at a specific monitoring point:

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NA

- A decrease greater than 1m: dewatering operations must cease.
- A decrease of 0.5 – 1m: SZC is required to notify the Environment Agency (EA). Dewatering activities may continue.
- A decrease of 0.5m or less: no action is necessary; MCA dewatering activities may continue as normal.

The proposed period of 2 weeks to detect changes in water levels in the Crag is based on the period of time that was required to detect change in rate of drawdown caused by a defect in the diaphragm wall during the construction of Sizewell B, after the start of dewatering.

The ranges chosen for the dewatering are more restrictive than the applied during the dewatering at Sizewell B, which considered a 2m change in drawdown over 2 weeks.

It is expected that some of the external piezometers are likely to be tidally influenced, therefore the rate of change is proposed to be applied to the rolling daily average of the monitoring points which present tidal fluctuations, i.e. C3D.

Prior to commencement of dewatering operations at least 1 week of data is proposed to be recorded at each monitoring point. This will allow baseline conditions to be established and identify any issues with monitoring installations or equipment.

Data is proposed to be captured using dataloggers installed at each monitoring point to record water levels. The loggers are proposed to record data at a 15-minute frequency and will either be telemetered or downloaded on a weekly basis. The data is proposed to be reviewed weekly during the first three months of operation, then fortnightly thereafter to determine if a trigger level has been passed. The frequency of the review reflects the nature of the designated sites and the potential for impact.

Prior to the commencement of the dewatering, datalogger data are proposed to be collected for at least 1 week to determine a baseline for the new monitoring points. The data then to be reviewed to determine which monitoring points are tidally influenced and therefore their trigger levels would be based on rolling daily average record instead of rate of change of groundwater levels.

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4 PROPOSED MANAGEMENT ACTIONS

Similar to the management actions applied in the TCA abstraction permit (AN/035/0003/016), on passing a trigger level, a review is proposed to be undertaken of trends in the monitoring points identified in the existing monitoring points (see **Table 6**), plus other available monitoring locations in the surrounding area to determine whether the fall in water levels is related to the dewatering or reflects natural variation in response to prevailing climatic conditions. Additional data sources include monitoring undertaken under the WMMP [Ref. 6] and data from the EA's monitoring network.

Monitoring points with tidal fluctuations are proposed to use trigger levels based on a rolling daily average. For external COW perimeter piezometers, trigger levels consider groundwater changes at each point over two weeks. If a trigger is passed, the same management actions are proposed to be implemented as follows.

Review of the monitoring data will allow the cause of the reduced levels to be determined. Possible indications of a natural cause include the following:

- water levels in the Crag show a consistent long-term downward trend;
- surface water flows show a consistent downward trend;
- there has been an extended period of little or no rainfall;
- lower trigger levels in the peat monitoring points in the WMMP [Ref. 6] are being passed; and
- drought conditions have been formally declared.

In the cases above, if there is no evidence that the abstraction is causing additional reduction in water levels, then there will be no corrective action needed and the borehole can continue to be operated, with regular reviews of the monitoring data. It is proposed that monthly reviews of the wider dataset continue to be undertaken until the water levels recover to be above the trigger level.

Evidence that the reduction in water levels is a consequence of the MCA dewatering operations include:

- a clear signal showing the evolution of drawdown at the monitoring point following commencement of pumping. This would manifest as a drawdown curve;
- rising or stable water levels in the wider water environment; and
- the reduction in water levels being limited to one or more monitoring points, with reduced levels being greatest in the monitoring points closest to the COW.

If the cause of groundwater levels falling below the trigger level can be attributed to the operation of the dewatering, an assessment of the significance will be undertaken. It is proposed that as long as the water levels at the monitoring point indicate the hydrogeological regime is within a tolerable range for the designated sites despite the additional drawdown induced by pumping then operation can continue. The frequency of monitoring level data reviews will increase to weekly until levels return to be above the trigger level, when they will revert to fortnightly.

Should monitoring indicate decreased levels due to dewatering operations at the MCA, remedial actions such as adjusting dewatering rates or suspending pumping operations will be implemented until levels are restored and defects along the COW are addressed. If necessary, injection/recharge of the pumped water may be employed along the perimeter piezometers to prevent any reduction in groundwater from extending to adjacent designated sites.

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5 CONCLUSIONS

The proposed monitoring locations have taken into account the sensitive receptors included in **Section 1.5** and the comments received from the EA and Natural England (see Annex A1 and A2). The monitoring points were set between the MCA COW and the designated site boundaries, so that changes in groundwater levels due to dewatering or a defect in the COW, can be detected before the impact propagates to the designated sites.

Available water level record datasets have been analysed and used to determine the 70th centile water level from the available extended groundwater monitoring datasets at key locations. The new monitoring points along the external perimeter of the COW will be installed and trigger levels are based on change in water levels from baseline over a period of 2 weeks. The trigger levels will allow for timely intervention to determine whether changes in water levels are due to dewatering operations within the MCA COW.

If a drop in groundwater levels is detected below the trigger levels, further analysis and review will be undertaken to determine whether the drop in water level is related to the abstraction. If abstraction is not determined to be the cause of the water level drop, then cessation of pumping would not be required as it would not result in significant change in water levels.

If the analysis of the cause of groundwater level drop determines that low groundwater levels are a consequence of the MCA dewatering operations, there will be an increased frequency of data review. If review of the monitoring data indicates the hydrogeological regime is within a tolerable range for the designated sites, despite the additional drawdown induced by the dewatering, then operation can continue until levels are deemed unacceptable. This will ensure that there is no impact at designated sites.

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MCA/WRA/2 WATER MONITORING TECHNICAL NOTE

ANNEX A EA COMMENT SHEET AND AGREED APPROACH

A.1 MCA/WRA/2 Comment Tracker – Comments regarding monitoring

ID	Originator	Focus	Comment	Initial Approach	Additional Information Required	Cross-Reference to Query	Approach Agreed?
6	EA	Monitor	There could also be an impact on external groundwater levels from the wall itself, acting as a barrier to the prevailing directions of groundwater flow. Please provided information/data regarding the flow path of groundwater around the newly constructed wall, to demonstrate there is no risk of shallow groundwater backing up into the protected area. Could the piezometers installed to identify a breach of the cut off wall during dewatering be used to identify a rise in water level post dewatering?	Modelled predictions from DCO show no backing up of water on the west of the cut-off wall. This is consistent with the nature of the Crag which is highly transmissive allowing water to flow around the barrier created by the cut-off wall rather than rising significantly. An analogue for this is the cut-off wall at SZB which does not cause a discernable increase in monitored water levels upgradient. Nonetheless the sentinel boreholes used to demonstrate the integrity of the SZC COW could be used for reassurance monitoring while water levels re-equilibrate following cessation of dewatering.	Narrative summary of evidence for no potential barrier effects from presence of cut-off wall Description of assurance monitoring to demonstrate above using sentinel boreholes Mitigation plan in case of cut-off wall failure Statement of relevance of DCO modelling		Yes
8	EA	Monitor	The design suggests 12 new piezometers, 200m apart, in close proximity to the cut off wall. These additional observation points are to monitor external drawdown and particularly if there is a defect in the cut off wall resulting in greater drawdown.	Noted - context for specific queries below.	N/A		Yes
8	EA	Monitor	a. 200m is a considerable distance, how have you decided on that spacing?	Initial spacing based on contractor experience of defect identification from previous schemes. Plans comprise preliminary monitoring points for sentinel network. Should a defect be identified (either by observation in monitoring point or higher than anticipated flow rates being needed to lower water levels within cut-off wall) further boreholes would be drilled to increase resolution of network in a targeted fashion. Monitoring to only be from installations in the Crag horizon.	Agreed form of words describing the purpose of the sentinel monitoring points, and how resolution would be increased as necessary should a defect be identified Combination map with proposed monitoring locations, plus sensitive sites and existing WMMP monitoring locations Scientific reasoning for spacing - WJGL input on background to design Anecdotal evidence from SZB to be obtained and summarised.		Yes
8	EA	Monitor	b. how will you narrow down where the defect is within 200m?	As above	As above		Yes
10	EA	Monitor	If external drawdown is, in general, greater than modelled we will want to agree triggers for when recharge is required and if so potential changes to the frequency in monitoring.	Develop triggers that are suitably protective of the environment, while also being operationally viable. Triggers proposed for new monitoring points to be installed in the Crag to the west and north of the site outside the cut-off wall. DCO modelling to be used to understand anticipated drawdown in Crag and relationship with water environment in sensitive environments.	Agreed trigger levels derived from analysis of anticipated drawdown in Crag outside cut-off wall		Yes
13	EA	Monitor	If recharge close to the SSSI is required during dewatering, then provision should be made to continue some pumping during the recovery phase if required. The triggers for pumping in the recovery phase should be consistent with the triggers established during the dewatering phase.	This can be incorporated into the system design. It is not envisaged that a new need for recharge would be identified following cessation of dewatering, but if there is recharge required during the dewatering phase it would need to be continued through the subsequent re-equilibration.	Agreed position on arrangements for continuation of recharge (if required during active dewatering) for a period informed by response to comment 5 Permitting input required	Query 20	Yes
16	EA	Monitor	Monitoring will form a significant part of the HRA/Appendix 4 and licencing of the dewatering. Clearly identify, with NGRS, and on the map from point 10., monitoring points in proximity to the site that can be used for licensing conditions.	This will be included	Details specified to be included		Yes
23	EA	Monitor	It has been mentioned by SZC in WR meetings that the Minsmere-Walberswick sites are underlaid by a layer of clay. NE and the EA consider that that the consistency and integrity of this would need to be assured to a high degree of confidence before its presence can negate the need for any further consideration of Minsmere-Walberswick in regard to modelling and monitoring. NE add that in other areas on the east coast with broadly similar mixed geology between the crag and surface the thickness and continuity of clay layers varies to an extent where they are not confident that it provides such an impermeable layer to disregard all groundwater effects on habitats.				
24	EA	Monitor	There will be monitoring/modelling directly outside the cut off wall, but we consider that it is important to consider points/locations to understand any potential effects on designated sites themselves				

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A.2 Comment Tracker MCA/WRA/2 – Additional Information for Monitoring Proposals

6. There could also be an impact on external groundwater levels from the wall itself, acting as a barrier to the prevailing directions of groundwater flow. Please provided information/data regarding the flow path of groundwater around the newly constructed wall, to demonstrate there is no risk of shallow groundwater backing up into the protected area. Could the piezometers installed to identify a breach of the cut off wall during dewatering be used to identify a rise in water level post dewatering?

- Narrative summary of evidence for no potential barrier effects from presence of cut-off wall

  Not associated with abstraction licence but related to long term presence of cut-off wall following cessation of abstraction for construction dewatering. Any rise in water levels as a result of barrier effects during dewatering would not be a consequence of abstraction so not within water resources permitting remit. Long term barrier effects would not be subject to abstraction licensing as no ongoing abstraction following construction. Regardless, barrier effects were considered at DCO and not shown to be a material concern. This remains the case and is shown in updated numerical modelling of the cut-off wall undertaken to support the abstraction licence application.

- Description of assurance monitoring to demonstrate above using sentinel boreholes

  New monitoring points to be installed to monitor performance of cut-off wall described in Section 3.2 of this Technical Note. These monitoring points will record any rise in water levels outside the cut-off wall prior to abstraction commencing.

- Mitigation plan in case of cut-off wall failure

  Considered in Groundwater Control Technical Note.

- Statement of relevance of DCO modelling

  Considered in Groundwater Modelling Technical Note.

8. The design suggests 12 new piezometers, 200m apart, in close proximity to the cut off wall. These additional observation points are to monitor external drawdown and particularly if there is a defect in the cut off wall resulting in greater drawdown.

a. 200m is a considerable distance, how have you decided on that spacing?

b. how will you narrow down where the defect is within 200m?

- Agreed form of words describing the purpose of the sentinel monitoring points, and how resolution would be increased as necessary should a defect be identified

  Number of perimeter monitoring points along the external part of the COW is shown in Section 2.3. Original spacing described is adequate to identify the presence of a defect. The more closely spaced observation points described in Section 3.2 allow for the position of a defect to be identified.

- Combination map with proposed monitoring locations, plus sensitive sites and existing WMMP monitoring locations
  - *MCA/WRA/2 Existing Monitoring Locations Layout Plan [Ref. 1];*
  - *Dewatering Well and Piezometer Layout Tile-A20 [Ref. 8];*

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- *Dewatering Well and Piezometer Layout Tile-A29 [Ref. 9].*

- Scientific reasoning for spacing - WJGL input on background to design

Original spacing of observation points described is adequate to identify the presence of a defect. These form part of the dewatering design package which focusses on the abstraction component of the groundwater control system. The more closely spaced observation points described in Section 3.2 allow for the position of a defect to be identified and form part of the cut-off wall design package which considers the hydraulic barrier component of the groundwater control system.

- Anecdotal evidence from SZB to be obtained and summarised.

Refer to MCA/WRA/2 Groundwater Control Technical Note [Ref. 2]

10. If external drawdown is, in general, greater than modelled we will want to agree triggers for when recharge is required and if so potential changes to the frequency in monitoring.

- Agreed trigger levels derived from analysis of anticipated drawdown in Crag outside cut-off wall

See Section 3 for proposed trigger levels

13. If recharge close to the SSSI is required during dewatering, then provision should be made to continue some pumping during the recovery phase if required. The triggers for pumping in the recovery phase should be consistent with the triggers established during the dewatering phase.

- Agreed position on arrangements for continuation of recharge (if required during active dewatering) for a period informed by response to comment 5

If recharge is required during planned dewatering phase of construction, then the abstraction licence would be varied to allow provision for continued abstraction and recharge at a reduced rate as water levels within the COW recover. Given the timescales for the dewatering there is adequate time to secure either a licence variation or an alternative source of water to manage external recharge as mitigation if it has been implemented during the construction phase.

- Permitting input required

Initial advice from EA is that recharge provision can be made on the abstraction licence.

16. Monitoring will form a significant part of the HRA/Appendix 4 and licencing of the dewatering. Clearly identify, with NGRS, and on the map from point 10., monitoring points in proximity to the site that can be used for licensing conditions.

- Details specified to be included

Refer to Section 2 for the proposed monitoring locations. Location plans are as listed in the response to Comment 8:

- *MCA/WRA/2 Existing Monitoring Locations Layout Plan [Ref. 1];*
- *Dewatering Well and Piezometer Layout Tile-A20 [Ref. 8];*
- *Dewatering Well and Piezometer Layout Tile-A29 [Ref. 9].*

23. A comment from EA/NE joint comments note (20/02/2026): It has been mentioned by SZC in WR meetings that the Minsmere-Walberswick sites are underlaid by a layer of clay. NE and the EA consider that that the

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consistency and integrity of this would need to be assured to a high degree of confidence before its presence can negate the need for any further consideration of Minsmere-Walberswick in regard to modelling and monitoring. NE add that in other areas on the east coast with broadly similar mixed geology between the crag and surface the thickness and continuity of clay layers varies to an extent where they are not confident that it provides such an impermeable layer to disregard all groundwater effects on habitats.

Refer to Section 2.2.3.

24. A comment from EA/NE joint comments note (20/02/2026): There will be monitoring/modelling directly outside the cut off wall, but we consider that it is important to consider points/locations to understand any potential effects on designated sites themselves

Compliance Points with associated triggers are proposed as part of the monitoring in addition to the piezometers outside the COW. Refer to Section 2.2.

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ANNEX B BOREHOLE LOGS

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WJ UK
Expert in Water Management
Tel: +44 (0)20 8950 7256 www.wjgl.com

Location ID PT05

Project	Ground Level	Easting	Northing	Drilling Method
TCA Pumping Test	3.53mOD	646479.76	265315.86	Cable Percussion

Client	Location	Scale	
Sizewell C	Sizewell	1:112	Sheet 1 of 1

INSTALLATION			SAMPLES	BOREHOLE RECORD			
Strike	Well	Depth (m)	Depth/Type (m)	Thickness (m)	Level (mAOD)	Key	Description
		2.00		(2.15)	+1.38		Loose orangish brown fine to medium SAND.
		4.00		(2.95)	+-1.57		Medium dense brownish orange slightly gravelly fine to medium SAND. Gravel is fine to medium of angular flint.
		6.00					Medium dense brownish orange gravelly fine to medium SAND. Gravel is medium to coarse subangular to angular flint.
		8.00		(4.65)	+-6.22		
		10.00		(2.45)	+-8.67		Medium dense brownish orange fine to medium SAND
		12.00		(2.80)	+-11.47		Medium dense reddish orange slightly silty fine to medium SAND.
		14.00					End of Borehole at 15 m.
		16.00					
		18.00					

Backfill:

Depth Top	Depth Base	Description
0.00	10.00	Bentonite
10.00	15.00	Gravel

Waterstrike:

Time Elapsed (mins)	Depth Water (m)

Remarks:

Contractor:

Bore Size:	200mm	Liner Size:	60mm	Slot Size:	1mm	Rig: Dando 2000	Lead Driller: M Barrett
Drilling Start:	20/01/2025	Drilling End:	23/01/2025	Prepared By:	C Denny	Checked By: E Riley	Approved By: U Markowicz

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Borehole Log

Borehole No. **BH C2D**
Sheet 1 of 3

Project Name:	SZC - Ground Investigation Data	Project No.: SZC -Ground Investigation Data	Co-ords: 646527E - 264204N
Location:	Sizewell, UK		Level: 1.77
Client:	EDF		Dates:

Hole Type: CP
Scale: 1:50
Logged By: JG

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.10	1.67		Dark grey sandy TOPSOIL with leaf litter and roots. Topsoil
					0.40	1.37		Medium dense light brown orange slightly gravelly slightly silty fine to mediumSAND. Gravel is subangular medium to coarse of flint. SD_ALV_S
					0.70	1.07		Loose pale brown and brown slightly gravelly fine to medium SAND. Gravel ismedium to coarse of flint. SD_ALV_S
	▼							Orange and light grey mottled slightly gravelly slightly clayey slightly siltyfine to medium SAND. Gravel is subangular to subrounded medium tocoarse of flint and quartz. NCG
					2.00	-0.23		Brown orange slightly gravelly silty fine to medium SAND. Gravel issubangular to subrounded fine of flint and gravel. NCG
					4.00	-2.23		Dense orange brown silty fine SAND. NCG
								Continued on Next Sheet

Remarks

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Borehole Log

Borehole No. **BH C2D**
Sheet 2 of 3

Project Name:	SZC - Ground Investigation Data	Project No. SZC -Ground Investigation Data	Co-ords: 646527E - 264204N
Location:	Sizewell, UK		Level: 1.77
Client:	EDF		Dates:

Hole Type: CP
Scale: 1:50
Logged By: JG

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
								Dense orange brown silty fine SAND. NCG
					11.00	-9.23		Orange brown slightly silty fine to medium SAND with fine white shell fragments. NCG
					14.00	-12.23		Light brown very silty fine to medium SAND. NCG
					20.00	-18.23		Continued on Next Sheet

Remarks

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Borehole Log
Borehole No. BH C2D
Sheet 3 of 3

Project Name:	SZC - Ground Investigation Data	Project No. SZC -Ground Investigation Data	Co-ords: 646527E - 264204N
Location:	Sizewell, UK		Level: 1.77
Client:	EDF		Dates:

Hole Type: CP
Scale: 1:50
Logged By: JG

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
								Light brown silty fine to medium SAND with fine to medium shell fragments. RCG
					24.00	-22.23		End of Borehole at 24.00m

Remarks

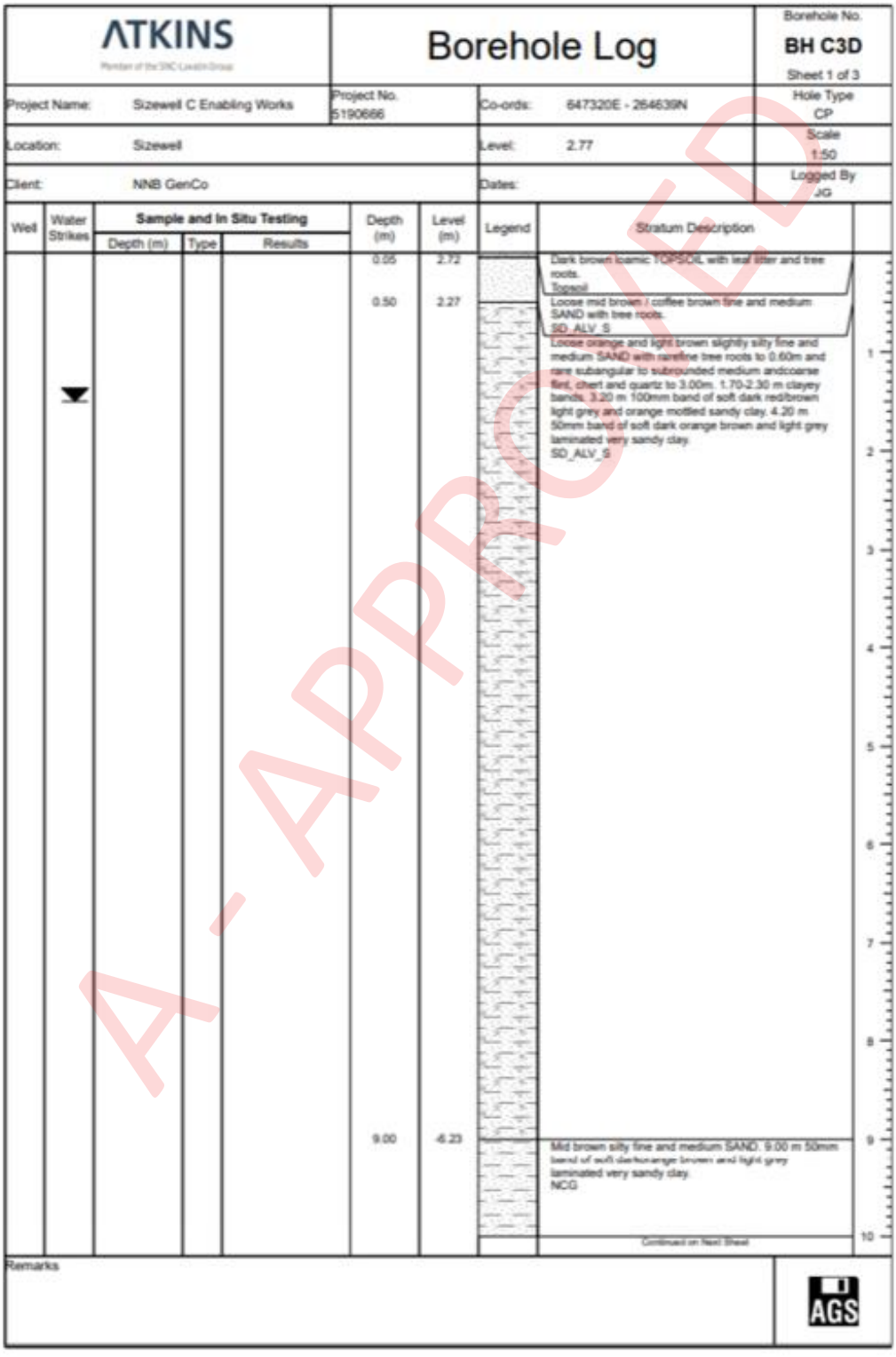
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Borehole Log

Borehole No. BH C3D
Sheet 1 of 3

Project Name: Sizewell C Enabling Works	Project No. 5190686	Co-ords: 647320E - 264639N	Hole Type CP
Location: Sizewell		Level: 2.77	Scale 1:50
Client: NNB GenCo		Dates:	Logged By JG

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.05	2.72		Dark brown loamic TOPSOIL with leaf litter and tree roots. Topsoil
					0.50	2.27		Loose mid brown / coffee brown fine and medium SAND with tree roots. SD_ALV_S
	▼							Loose orange and light brown slightly silty fine and medium SAND with rare fine tree roots to 0.60m and rare subangular to subrounded medium and coarse flint, chert and quartz to 3.00m. 1.70-2.30 m clayey bands. 3.20 m 100mm band of soft dark red/brown light grey and orange mottled sandy clay. 4.20 m 50mm band of soft dark orange brown and light grey laminated very sandy clay. SD_ALV_S
					9.00	-6.23		Mid brown silty fine and medium SAND. 9.00 m 50mm band of soft dark orange brown and light grey laminated very sandy clay. NCG
								Continued on Next Sheet

Remarks

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Borehole Log

Borehole No. BH C3D
Sheet 2 of 3

Project Name:	Sizewell C Enabling Works	Project No. 5190666	Co-ords: 647320E - 264639N
Location:	Sizewell		Level: 2.77
Client:	NNB GenCo		Dates:

Hole Type: CP
Scale: 1:50
Logged By: JG

Well	Water Strikes	Sample and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
								Mid brown silty fine and medium SAND. 9.00 m 50mm band of soft dark/orange brown and light grey laminated very sandy clay. NCG
					13.00	-10.23		Mid brown/dark red silty fine to medium SAND with fine shell fragments and rare fine flint gravel. NCG
					20.00	-17.23		Continued on Next Sheet

Remarks

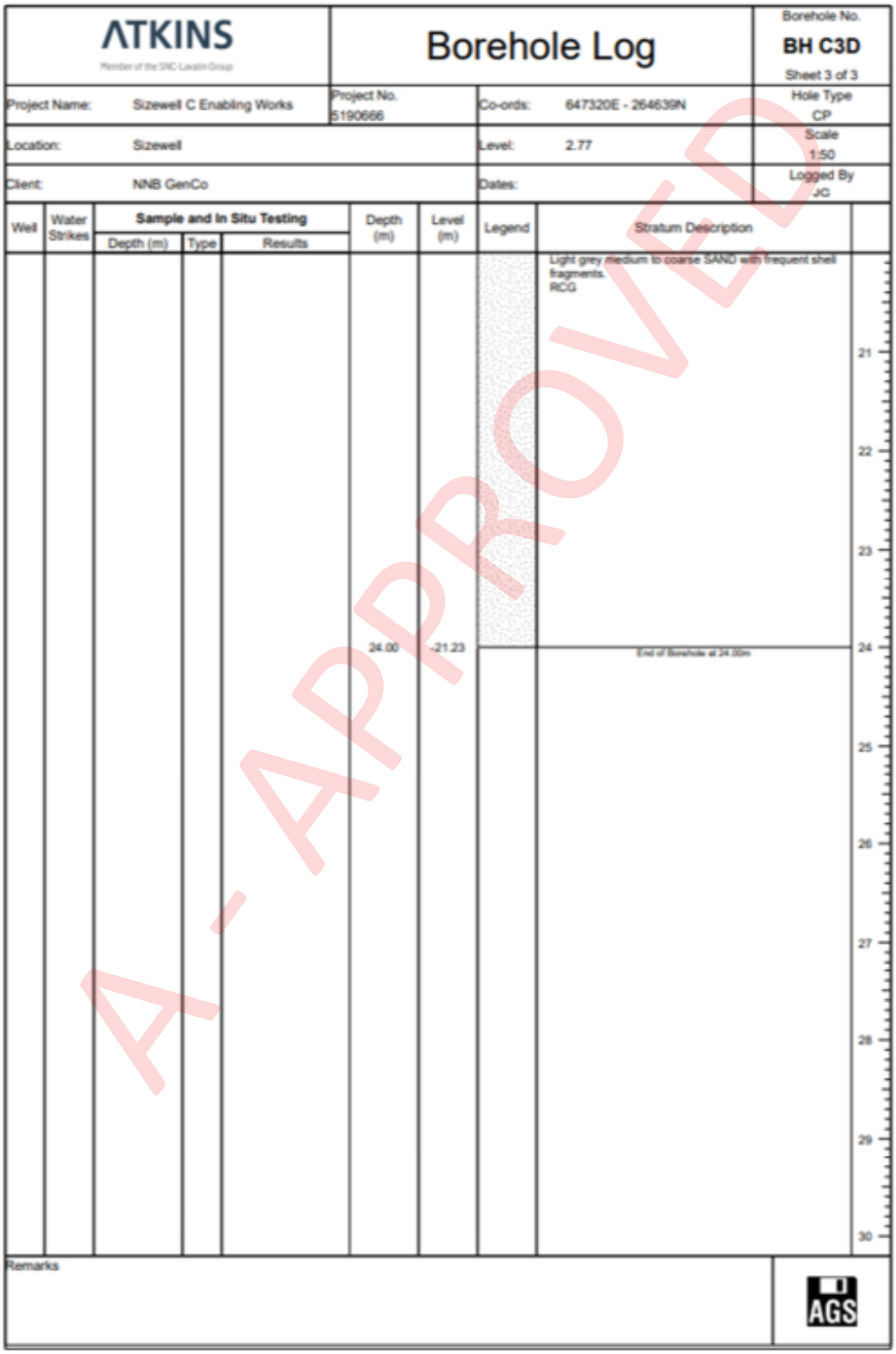
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Borehole Log

Borehole No.
BH C3D
Sheet 3 of 3

Project Name:	Sizewell C Enabling Works	Project No. 5190666	Co-ords: 647320E - 264639N	Hole Type CP
Location:	Sizewell		Level: 2.77	Scale 1:50
Client:	NNB GenCo		Dates:	Logged By JC

Well	Water Strikes	Sample and In Situ Testing Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
								Light grey medium to coarse SAND with frequent shell fragments. RCG
					24.00	-21.23		End of Borehole at 24.00m

Remarks

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Borehole Log

Soil Mechanics

Drilled MR Logged EM Checked MT	Start 17/10/2010 End 17/10/2010	Equipment, Methods and Remarks Dando 2000 Cable percussion boring.	Depth from 0.00m	to 10.70m	Diameter 200mm	Casing Depth 10.70m	Ground Level +7.17 mOD Coordinates E 646261.56 National Grid N 264492.19 Chainage

Samples and Tests

Depth	Type & No	Records	Date Casing	Time Water
		0.00-1.20 m Hand excavated inspection pit.		
0.30	D 1			
0.80	D 2			
1.20	D 3			
2.20	D 4			
3.20	D 5			
4.20	D 6			

Strata

Description	Depth, Level (Thickness)	Legend	Backfill/ Instruments
Sandy TOPSOIL. (Foreman's description)	0.20 +6.97		
Orangish brown slightly silty fine to medium SAND. (CRAG DEPOSITS)			
Crag to 10.70m			
Stratum continues to 10.70 m			

Depth	Type & No	Records	Date Casing	Time Water

Groundwater Entries
No. Struck (m) Post strike behaviour Depth sealed (m)
None observed (see Key Sheet)

Depth Related Remarks *
From to (m)

Chiselling
Depths (m) Time Tools used

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.
(c) Soil Mechanics www.soil-mechanics.com 408 24 21/02/2011 12:16:35
Scale 1:25

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

Borehole GW4
Sheet 1 of 1

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Borehole Log

Soil Mechanics

Drilled MR Logged EM Checked MT	Start 17/10/2010 End 17/10/2010	Equipment, Methods and Remarks Dando 2000 Cable percussion boring.	Depth from 0.00m to 10.70m	Diameter 200mm	Casing Depth 10.70m	Ground Level +7.17 mOD Coordinates E 646261.56 National Grid N 264492.19 Chainage

Samples and Tests					Strata			
Depth	Type & No	Records	Date Casing	Time Water	Description (Continued from Sheet 1)	Depth, Level (Thickness)	Legend	Backfill/ Instruments
					Orangish brown slightly silty fine to medium SAND. (CRAG DEPOSITS)			
5.50	D 7					(10.50)		
6.20	D 8							
7.20	D 9							
8.20	D 10							
9.20	D 11							
Depth	Type & No	Records	Date Casing	Time Water	Stratum continues to 10.70 m			

Groundwater Entries			Depth Related Remarks *		Chiselling		
No.	Struck (m)	Post strike behaviour	Depth sealed (m)	From to (m)	Depths (m)	Time	Tools used
None observed (see Key Sheet)							

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. (c) Soil Mechanics www.soil-mechanics.com 408.24 21/02/2011 12:16:36	Project	ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE	Borehole GW4
Scale 1:25	Project No.	A0012-10	Sheet 2 of 3
	Carried out for	NNB Generation Company Limited	

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Borehole Log

Soil Mechanics

Drilled MR Logged EM Checked MT	Start 17/10/2010 End 17/10/2010	Equipment, Methods and Remarks Dando 2000 Cable percussion boring.	Depth from 0.00m to 10.70m Diameter 200mm Casing Depth 10.70m	Ground Level +7.17 mOD Coordinates E 646261.56 National Grid N 264492.19 Chainage	

Samples and Tests				Strata			
Depth	Type & No	Records	Date Casing / Time Water	Description (Continued from Sheet 2)	Depth, Level (Thickness)	Legend	Backfill/ Instruments
			17/10/2010	Orangish brown slightly silty fine to medium SAND. (CRAG DEPOSITS)			
				EXPLORATORY HOLE ENDS AT 10.70 m	10.70 -3.53		SP
Depth	Type & No	Records	Date Casing / Time Water				

Groundwater Entries
No. Struck (m) Post strike behaviour Depth sealed (m)
None observed (see Key Sheet)

Depth Related Remarks *
From to (m)

Chiselling
Depths (m) Time Tools used

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.
Scale 1:25 (c) Soil Mechanics www.soil-mechanics.com 408.24 21/02/2011 12:16:37 AGS

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

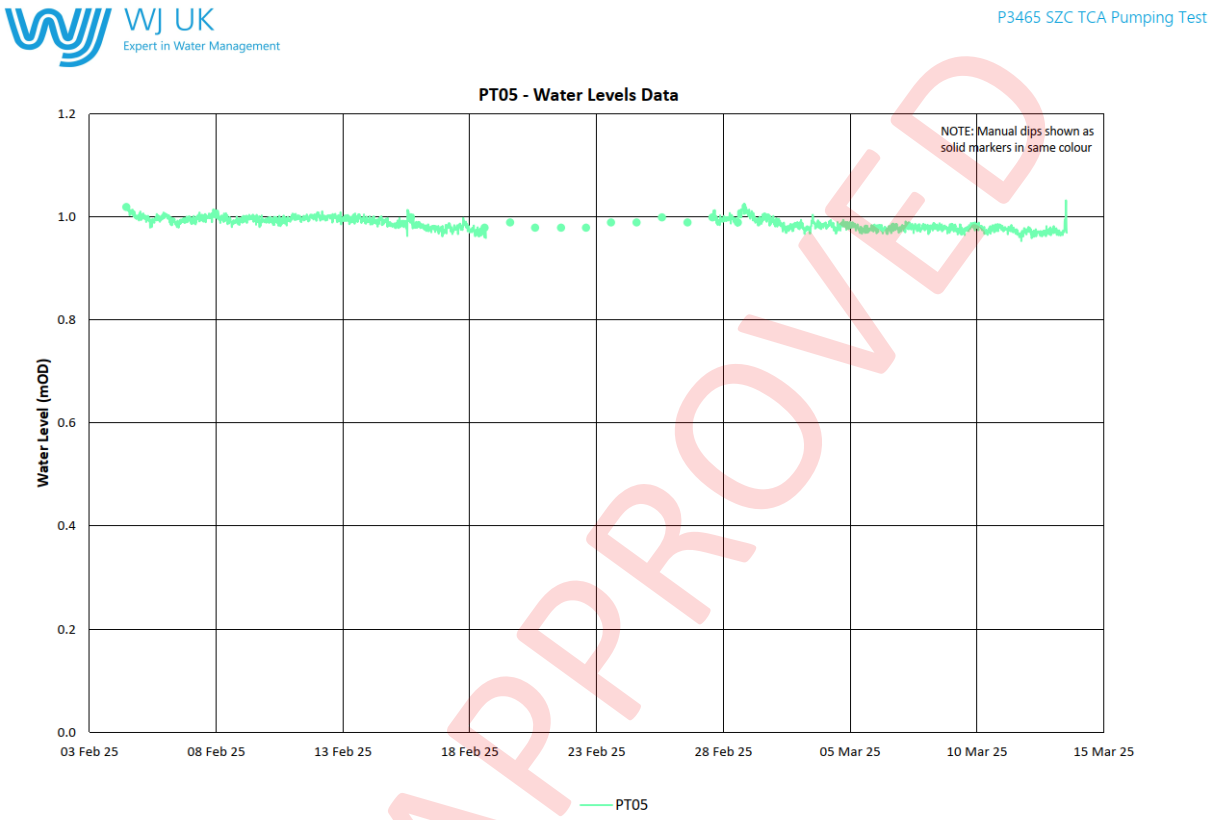
Borehole GW4
Sheet 3 of 3

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ANNEX C HISTORIC WATER LEVEL MONITORING GRAPHS

Extracted from Ref. 12 (Annex B to TCA Borehole Water Monitoring Technical Note)

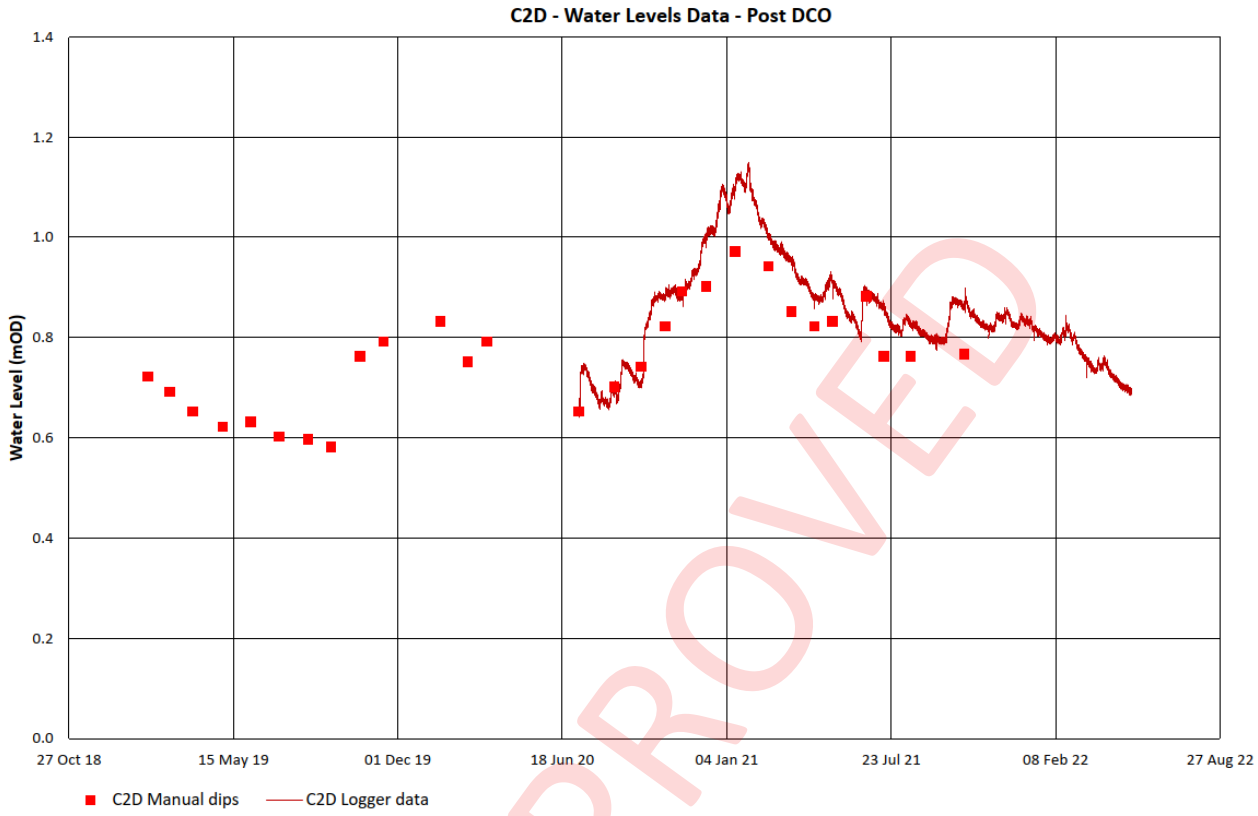


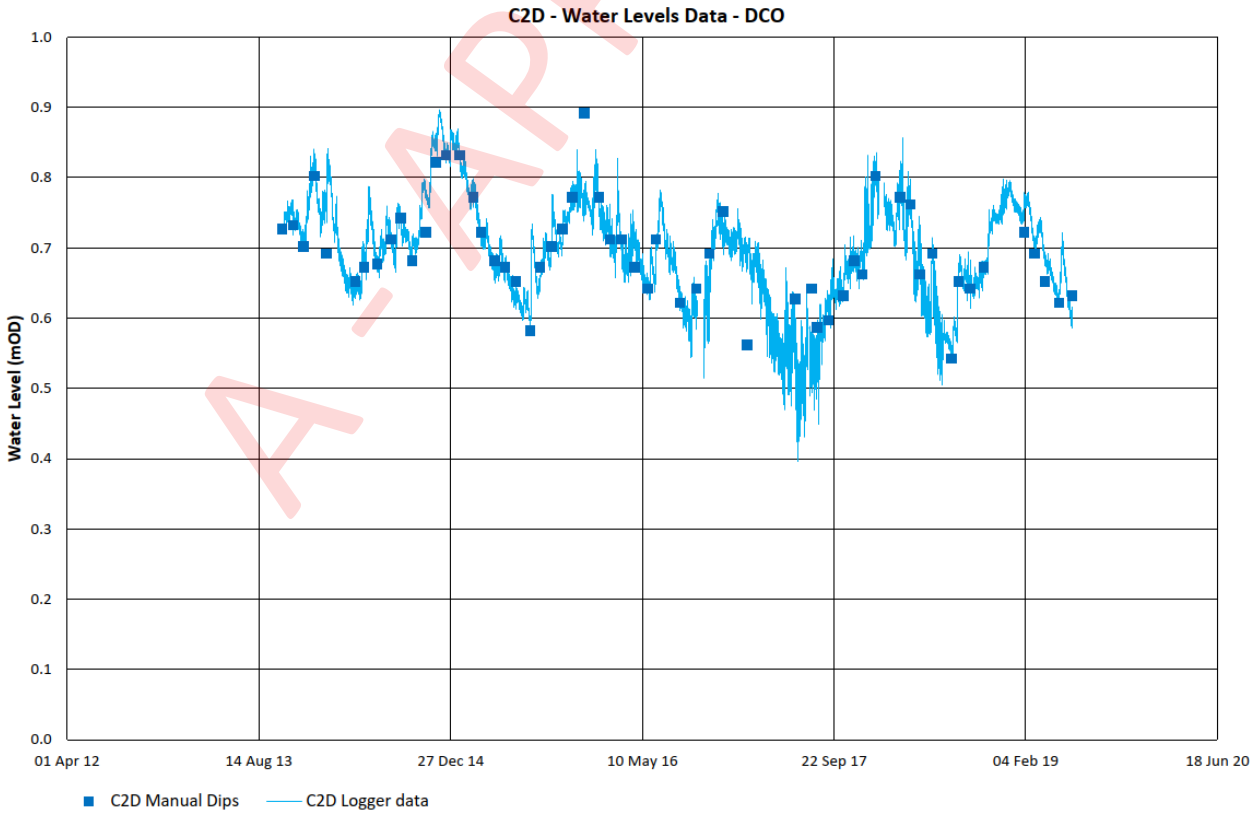
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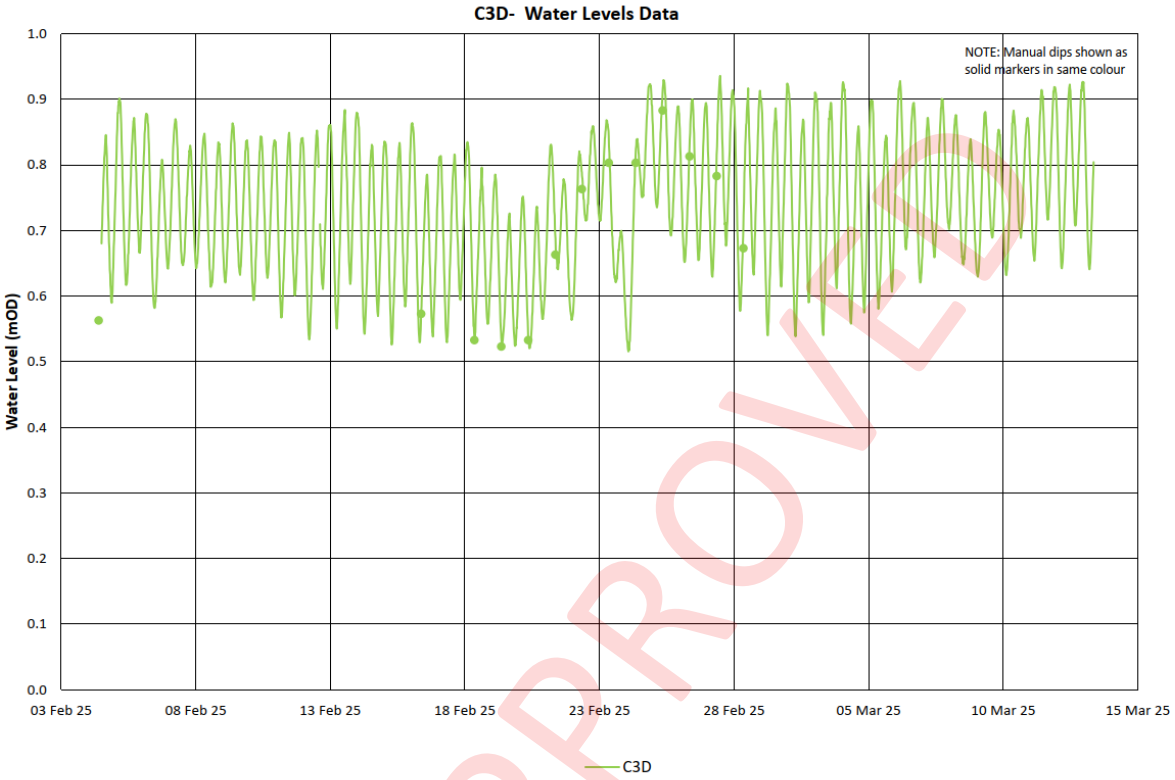




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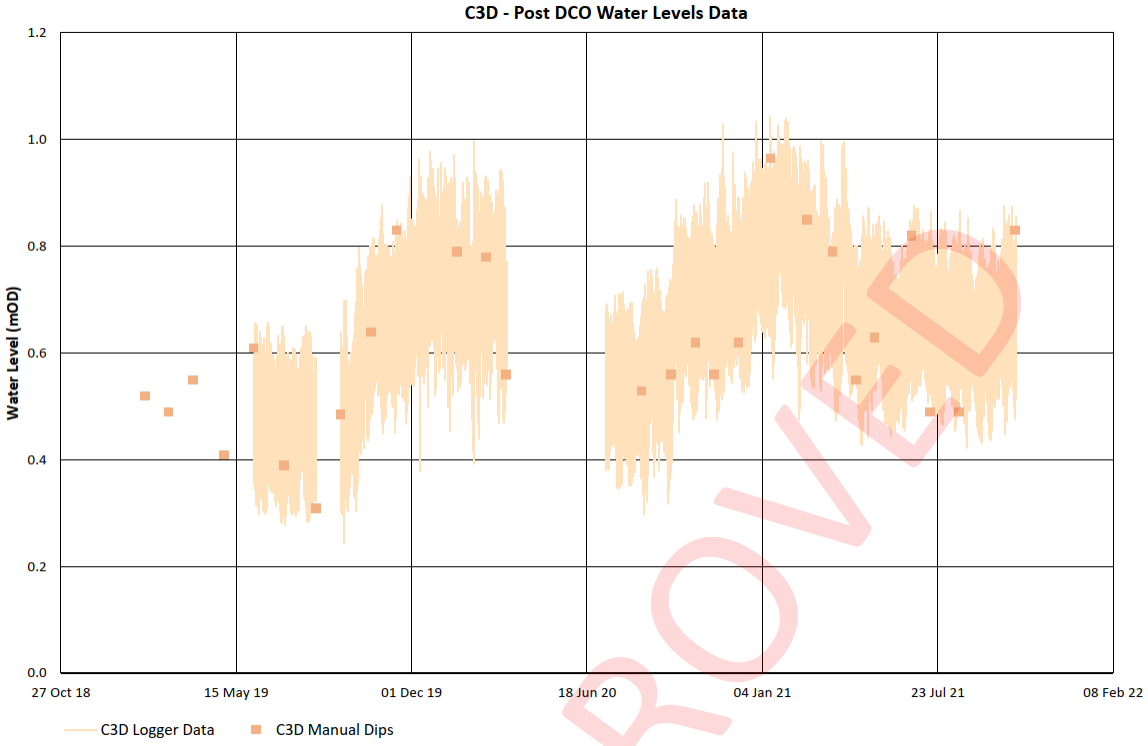
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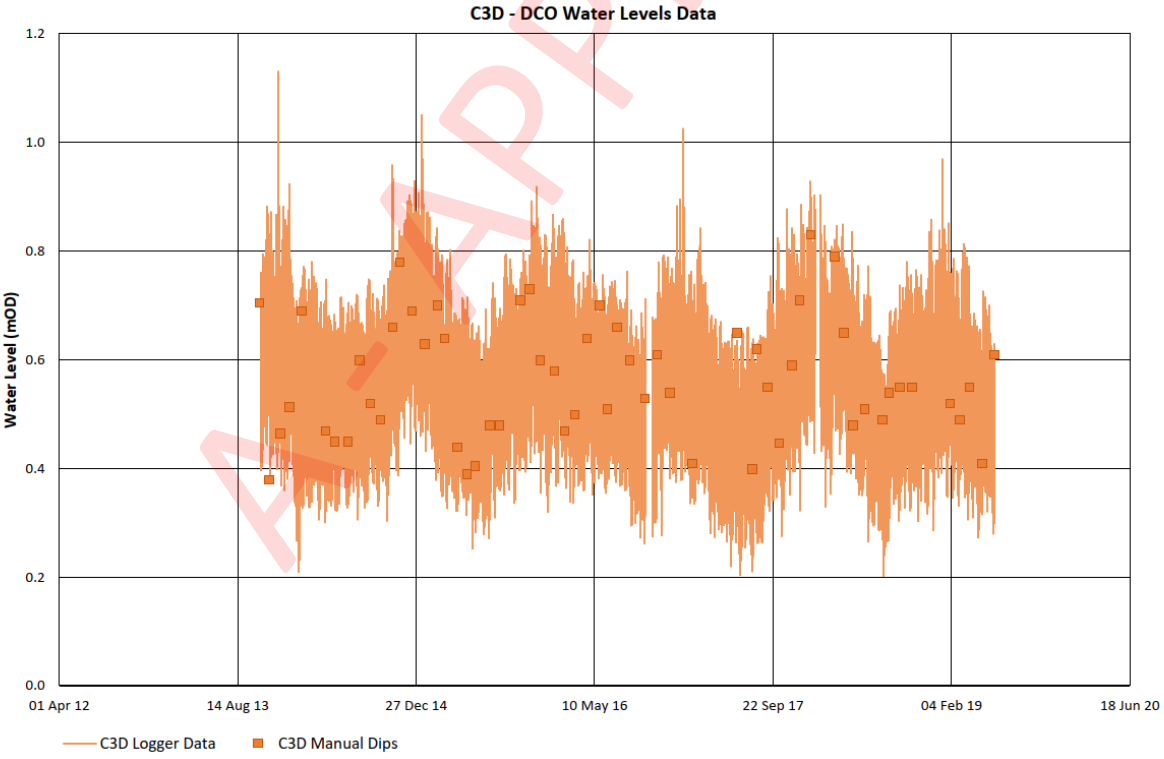


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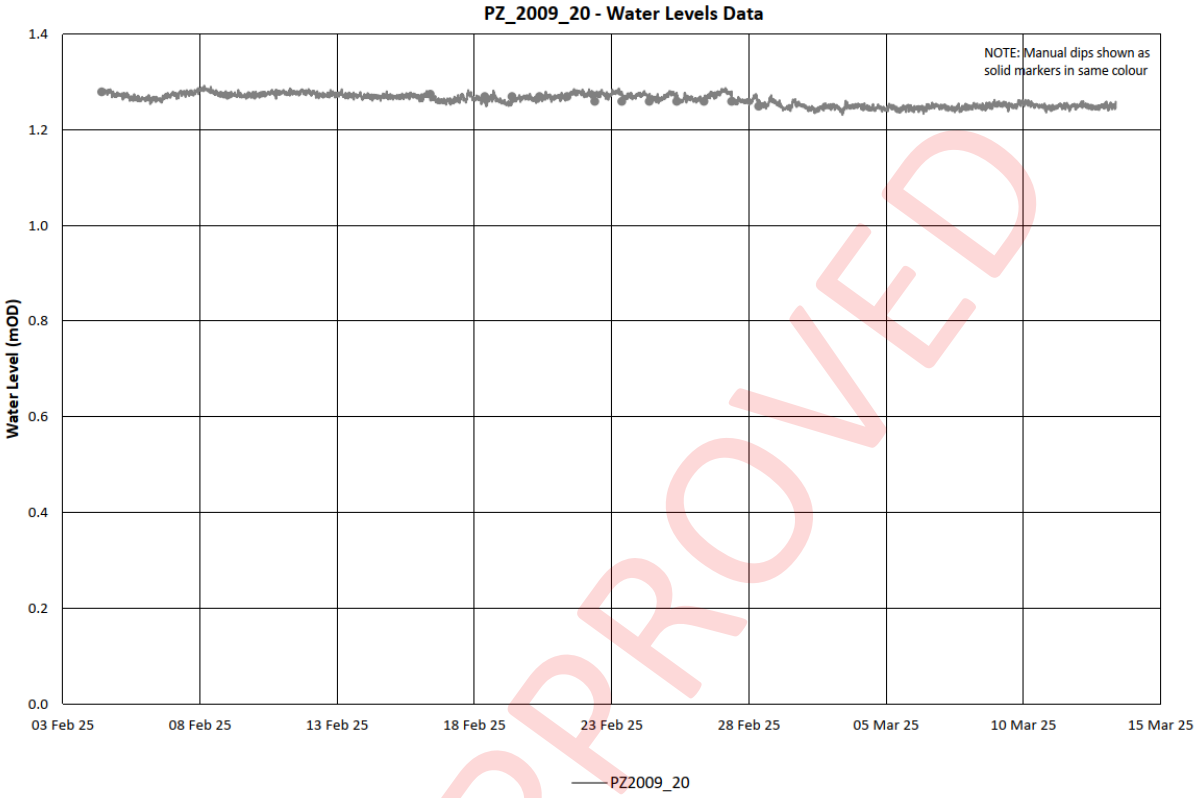




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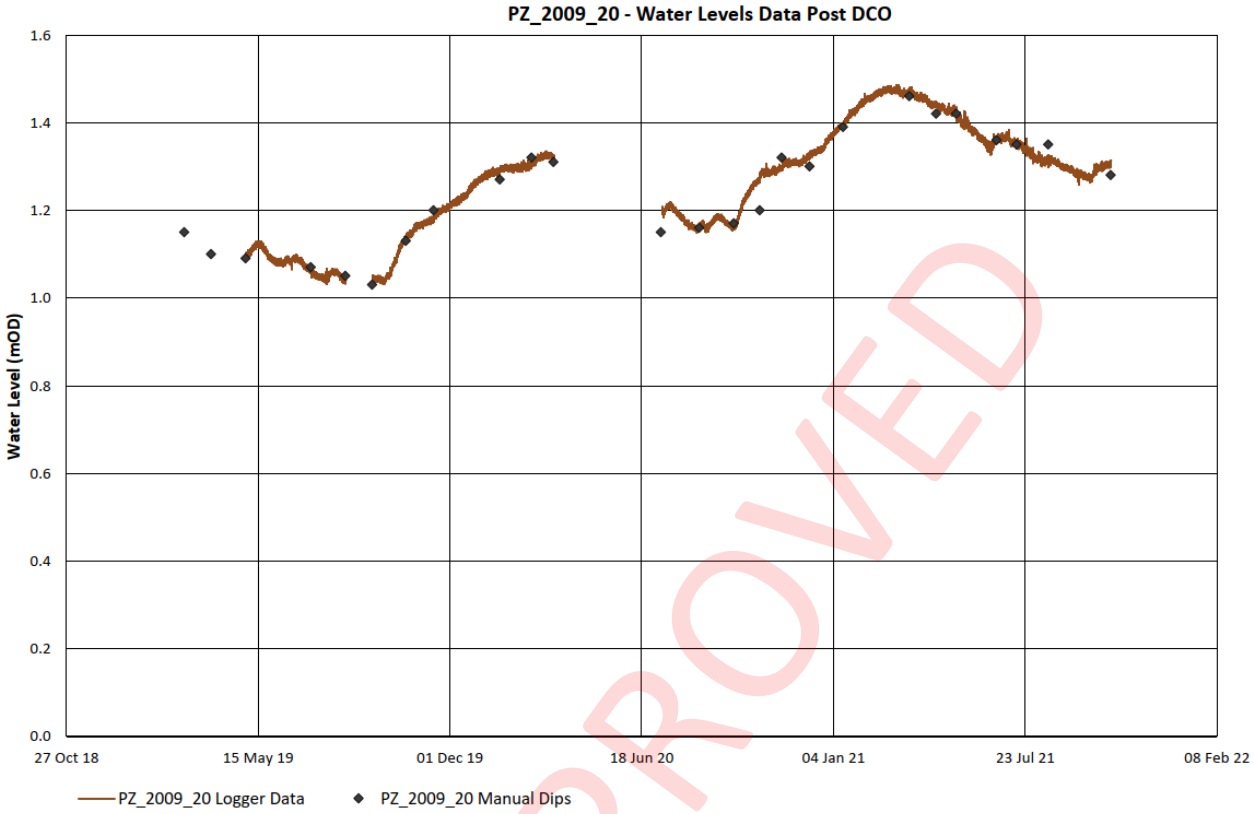
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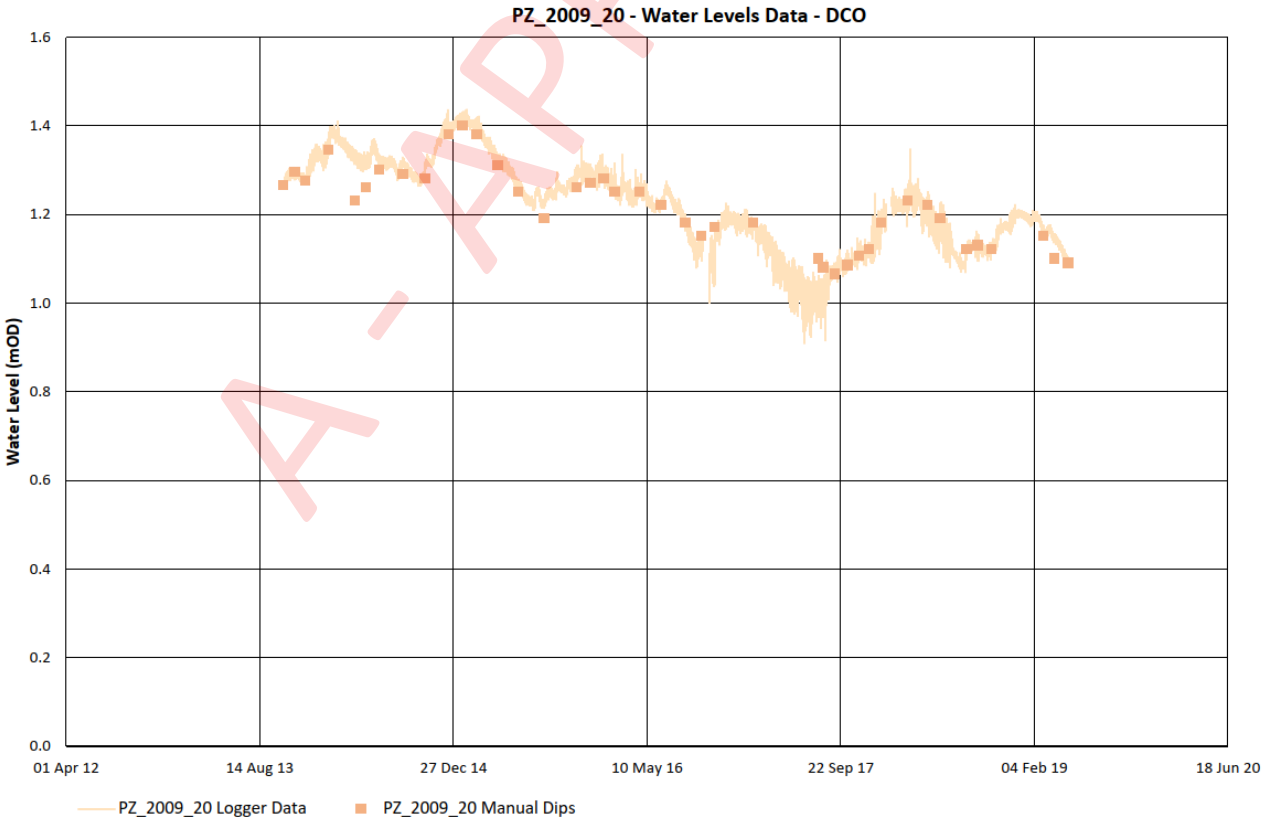


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EW0400 Groundwater Modelling - DCO Modelling Report

Project	**SZC: Sizewell C**	Teamcenter ID	**101726967**
Teamcenter Contract	**Early Works EWXXXX_098_01**		
Client	**NNB Generation Co.**	Contractor Reference	**SZC-EW0400-ATK-XX-HSZ-XXXXXX-REP-CIV-900007**
Contractor	[redacted]	Contractor Rev	**P01**
Purpose of Issue	**P4 - Published for Contractor Design**		
Supplier	[redacted]	Originators Ref	**5213850-SNC-XX-XX-TREP-G-900199**
Prepared by	[redacted]	Role	**Associate Hydrogeologist**
Reviewed by		Role	**Associate Director**
Approved by		Role	**Project Director**

REVISION HISTORY

Revision	Purpose	Amendment	Prepared By	Date
P01	P4 - Published for Contractor Design	Update following client comments	MC	20/05/26

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Document history

Client Doc Code: SZC-EW0400-ATK-XX-HSZ-XXXXXX-REP-CIV-900007
Document title: EW0400 Groundwater Modelling - DCO Modelling Report

Rev	Status	Purpose Description	Originated	Checked	Reviewed	Authorised	Date
P01	S3	P4 - Update following client comments	[redacted]				20/05/26

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1. Introduction

The task objective is to derive an updated Sizewell C (SZC) Development Consent Order (DCO) model to represent the New (previously alternative) cut-off wall (COW) design. The previous (Original) DCO model was originally designed to provide confidence for the regulator regarding the potential impact to sensitive receptors associated with the construction of the SZC facility and associated required dewatering and rewatering activities. The original model build and results were presented in the Sizewell C Groundwater Modelling Report [1].

The work completed is in line with the Basis of Analysis [2], unless noted otherwise.

The updated simulation, was undertaken on the 'Updated DCO model', and included the following:

- Update the existing Original DCO model, with the New Design COW and Main Construction Area (MCA), for the relevant period (covering 10 years construction (including dewatering) and 8 years operation);
- Validation of Updated baseline DCO model against the Original DCO model and/or relevant monitoring data;
- Model runs to derive groundwater elevations and assess the impact of the New Design on surrounding critical receptors - the Sizewell Marshes Site of Special Scientific Interest (SSSI), the Minsmere-Walberswick Heaths and Marshes SSSI (Minsmere SSSI) and Sizewell B (SZB); and
- Compare results against Original DCO modelling results.

The outputs of the tasks above are in support of:

- Environmental/planning and permitting requirements. The outputs are intended to evaluate the impact of the New Design dewatering design within the existing DCO domain and to provide evidence for regulatory approval of dewatering and associated permits; and
- Understanding changes to water levels within existing SZB footprint associated with the proposed construction activities at SZC.

2. Scope and objectives

2.1 Scope of the work

The aim of this modelling is to evaluate drawdown around the SZC site at the sensitive receptors (Sizewell Marshes SSSI, Minsmere SSSI and SZB) for the New Design under an intermediate climate scenario. The modelling will be used to identify potential change in the drawdown at sensitive receptors around the site, to provide the project confidence that there is no increase in risk when compared to the Original design, reported as part of the original DCO modelling reports [1].

Based on the aims of this study, the scope of work includes the following steps:

- Task 1: Updating the existing DCO model (discussed as the 'Original DCO model') with the current SZC design (New Design);
- Task 2: Validation modelling of Updated baseline DCO model against existing relevant groundwater monitoring data (2022 to 2024) and Original DCO results (2022 to 2040);
- Task 3: Running the Updated DCO model for construction phase scenario modelling across an intermediate climate scenario;
- Task 4: Assessing the impact of the project on groundwater levels across the SSSIs and SZB; and
- Task 5: Reporting the results and comparing against the Original DCO model results.

The tasks have been described in further detail within the Basis of Analysis (BoA) [2].

2.2 Available information

The current assessment has been based on the following available documentations:

- Sizewell C Numerical Modelling Report, 2020 [1] (and appended at the end of the document as Appendix G);
- AtkinsRéalis, 2025, Construction Phase DCO Modelling Basis of analysis [2];
- AtkinsRéalis, 2026, Dewatering Design report [3].

This report should be read in conjunction with the reports above to fully understand the modelled representation of groundwater behaviour.

2.3 Key differences from BoA

2.3.1 Surface water coupling

Groundwater flow models, including FEFLOW, have limited capability in simulating the surface water-groundwater interaction. The Original DCO modelling was completed with a coupled groundwater- and surface water- model to represent the interaction of groundwater (modelled in FEFLOW) and surface water (modelled in MIKE11) in the vicinity of the site, particularly within the Sizewell Marshes. However, the software used for the original modelling is no longer supported by the manufacturer. As such, the modelling work has been completed in the current version of FEFLOW as of 2025, FEFLOW 10. Following attempts to update the model coupling with the currently supported surface water software, issues with the coupling software were identified that would not be rectified within the timescales that the project requires. As such, and in agreement with the Environment Agency, the results of the uncoupled model (FEFLOW only) have been utilised to review the impact of the New Design. A comparison of the

difference between the coupled and uncoupled Original DCO model has also been completed and is discussed in Section 3.4. The removal of the surface water coupling from the Original DCO model results in little difference in heads across the key receptors. In general, the uncoupled modelled reports slightly increased drawdown, generally up to approximately 4 cm.

Unless specified, all discussion presented within the report are regarding results of uncoupled modelling.

Removing the surface water coupling module from the modelling required a series of alterations and assumptions to ensure that the correct boundary conditions were still represented within the completed model runs. This includes the Sizewell Marsh surface water level boundary condition. A spatially variable and temporally constant specific head fluid transfer boundary condition was applied throughout the construction and operational phase within the Updated DCO modelling, using the marsh water level extracted from Original DCO model reported in Sizewell C Numerical Modelling Report, 2020 [1]. Further information on this and the uncoupling of the model is presented in Section 3.4.

2.3.2 Model validation

Following the model update, the baseline model (pre-construction) was run and resulting groundwater level data compared to the original DCO model outputs.

Validation of the original DCO model was generally able to meet the groundwater level targets of to within 10 centimetres (cm) within the Peat of the Sizewell Marshes, to 25 cm in the Crag near the Sizewell Marshes and within 50 cm elsewhere in the model domain. Validation of flows were as follows: surface water flows to within 10%, low flows within 25% and peak flows within 30%. Where possible the same validation has been maintained. Where there are differences in the validation these are presented and discussed in Section 4.

2.3.3 Model run dates

The BoA stated that the model would be run for up to 20 years between 2025 and 2045 under intermediate climatic conditions. The scenarios would include runs with baseline implementation of the construction of Unit 1 (starts January 2027) for 1 year and Unit 2 (starts January 2028) for up to eight years plus ten years operation in line with the current construction programme.

Due to the time-slice scenarios that the original DCO model was set up to run, the final model run years are different to the above construction timeline, but the durations and timings of the development items are correct as per the information from SZC. To ensure suitable comparisons, the model has been run for the same duration within construction and eight years for operation between 2022 and 2040, with the correct duration of the relevant construction features and timeline from 2025-2045. The modelling uses UKCP18 climate change data from 2022-2040 [4]. The Updated model was run for a total of 18 years with the construction of the New Design COW layout commencing with Unit 1 in September 2022 with dewatering of Unit 1 starting September 2023 for 1 year and dewatering of Unit 2 starting September 2024. The operational phase starts in 2032. Eight years of operational phase were considered sufficient to review the recovery of groundwater and aligns with the Original DCO modelling times/durations. Further information on run model dates is presented in Section 5.1.

3. Modelling updates - Methodology

3.1 Model setup

The hydrogeological setting, including the model input parameters across the wider model domain, are generally as set out in the Sizewell C Groundwater Modelling Report [1], and as per the Original DCO modelling. The model extent remains the same, covering approximately 62 square kilometres, and is presented below in Figure 3.1.

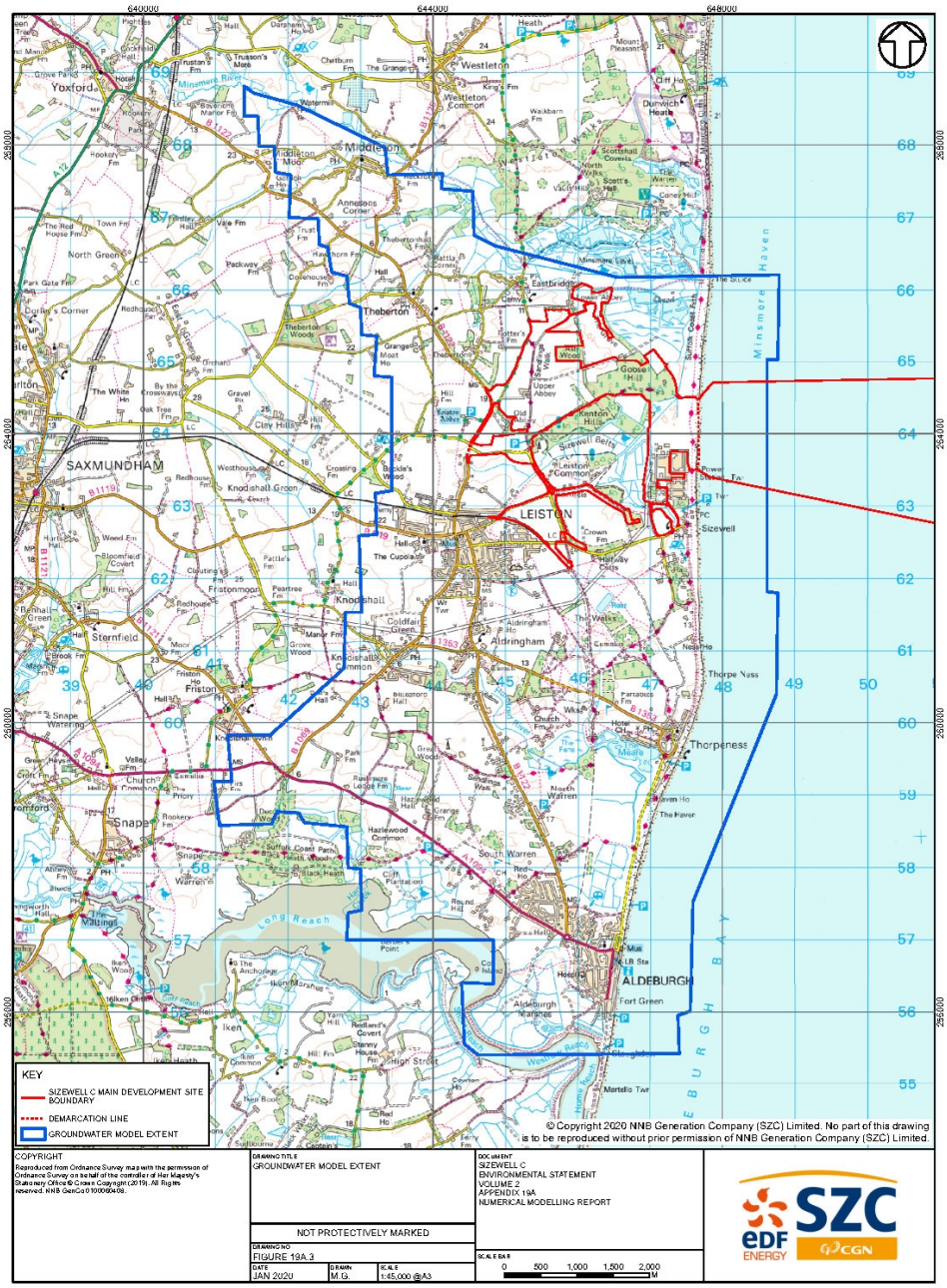


Figure 3.1 – Model extent (extracted from [1])

The BoA [2] details refinements to the existing DCO model to derive the Updated DCO model as follows:

- remeshing of the model domain to a finer resolution in the vicinity of the and SZC platform, enabling more accurate representation of relevant New Design development features including COW, key building foundations, environmental barrier, SSSI crossing and Permanent Sea Defence, presented in Section 3.3.1. The remeshing was to a coarser resolution away from the platform to minimise the number of elements and consequently speed up model run time;
- updating the initial head (principally within the Sizewell Marshes as discussed in Section 3.4.) and key boundary conditions (e.g. depressed dewatering contour within MCA, as presented in Section 3.3.3), dimensions (including COW thickness 1.0 m) and material properties within the platform to represent the SZC design and existing features at greater resolution as per relevant design information;
- updating the modelled representation of SZB from a monolithic block of low permeability material to include a representation of the SZB COW, backfill and key foundations, as presented in Section 3.3.2; and,
- updating the boundary conditions and timeseries associated with the construction phase of the site as per the New Design and dewatering, discussed in Section 5.1.

3.2 Harwich Formation

Where the Harwich Formation is discussed within this work package, this refers to the unit previously reported as the London Clay within the original DCO modelling work. The London Clay, now interpreted to be the Harwich Formation, formed the base of the original DCO model.

No other variables associated with the representation of the unit within the models (e.g. hydraulic conductivity) have been changed, it is only a change in nomenclature. The top of this unit still forms the base of the Updated FEFLOW DCO model(s); the Formation is incorporated at the base of the model as a in/out flow boundary only, rather than as a layer in the model. Where relevant, the representation of the formation is based on site-specific data, where available, and there is no evidence that the Harwich Formation properties are different to the previously interpreted London Clay. No change to any parameters has been made. The modelling has not been impacted by the change in name.

3.3 Model mesh and geometry

3.3.1 MCA mesh

The model geometry (mesh) representing the SZC construction has been Updated to represent the New Design. The update also improves the representation of the building foundations and backfill within the MCA and northern mound and temporary and permanent sea defences. Further details of the updates are presented in the BoA [2]. A comparison of the Original and Updated model mesh is presented in Figure 3.2. It should be noted that, in line with the updated design, the mesh within the Updated Model represents the SZC COW as 1.0 m in thickness, an increase from the 0.8 m thickness COW in the original design.

Mesh refinement, and hence the accuracy of feature extents, is greatest in the vicinity of the MCA and adjacent wetlands, where the impacts of construction are expected to be most significant. Coarser elements have been implemented towards the edges of the Main Development Site, where slight discrepancies between the design and model extents of features are not expected to affect the key outputs of the model in a significant manner but result in a faster run time for the model(s).

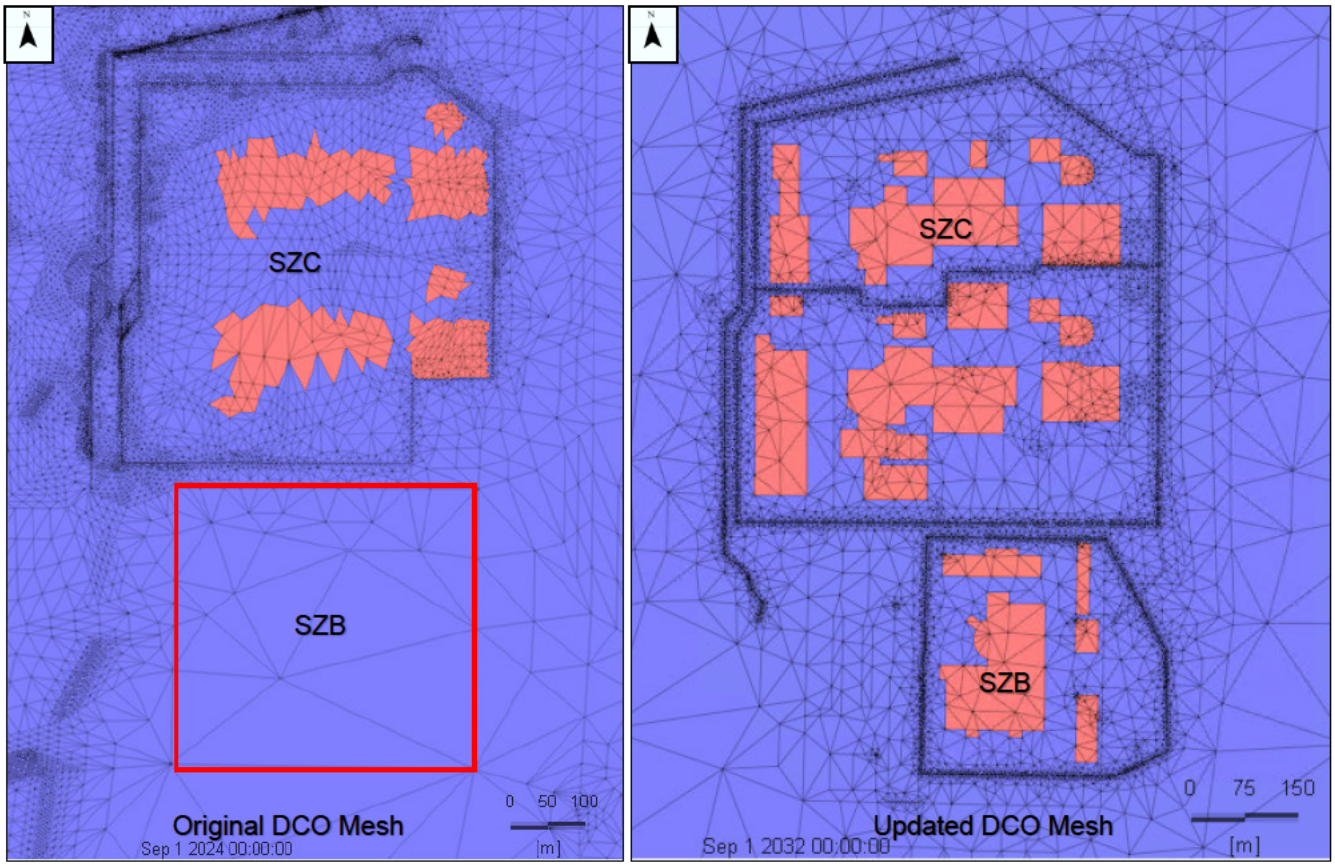


Figure 3.2 – Comparison of Original and Updated FEFLOW representation of SZC MCA and SZB

Ground improvements are also known to be proposed to occur in and around the plastic wall, however these have not been represented in the model. The exact location of proposed ground improvement, and their impact on the hydraulic properties of the ground, is not known and so has conservatively been selected not to be presented within the model. The presence of any ground improvements should only lower the hydraulic conductivity of the affected ground, resulting in a decrease to the impact of the dewatering. As such, not having the ground improvement in the model is conservative.

3.3.2 Representation of SZB

The representation of SZB has been updated within the model, as per the BoA [2]. The model (mesh) representing the SZB facility has been updated to represent the SZB COW, backfill and key building foundations. SZB was represented in the Original DCO model as a monolithic block of low permeability material. A comparison of the Original and Updated model mesh for SZB is presented in Figure 3.2.

The updated representation of SZB allows for interpretation of groundwater levels within and outside of the SZB COW, and the potential impacts of SZC dewatering on SZB foundations. The previously modelled representation of SZB was unable to provide these outputs.

3.3.3 SZC dewatering

As per the BoA [2], the action of dewatering has been represented in the model as a boundary condition that follows the dewatering modelling drawdown. Drawdown from the initial groundwater conditions to the target groundwater depth (up to -32 metres above ordnance datum (m AOD)) is modelled as completed over 60 days for Unit 1 and 60 days for Unit 2, as specified in the 2026 Dewatering Design Report [3]. This 'best case', most efficient dewatering has been applied within the Updated DCO modelling to allow for assessment of the maximum potential rate of

drawdown which is likely to have the largest impact on groundwater. In reality the drawdown within the COW is likely to take longer and so the impact of the drawdown will also be slower. The maintenance phase groundwater contours of the depressed water elevation across both Units is presented in Figure 3.3, below, in m AOD.

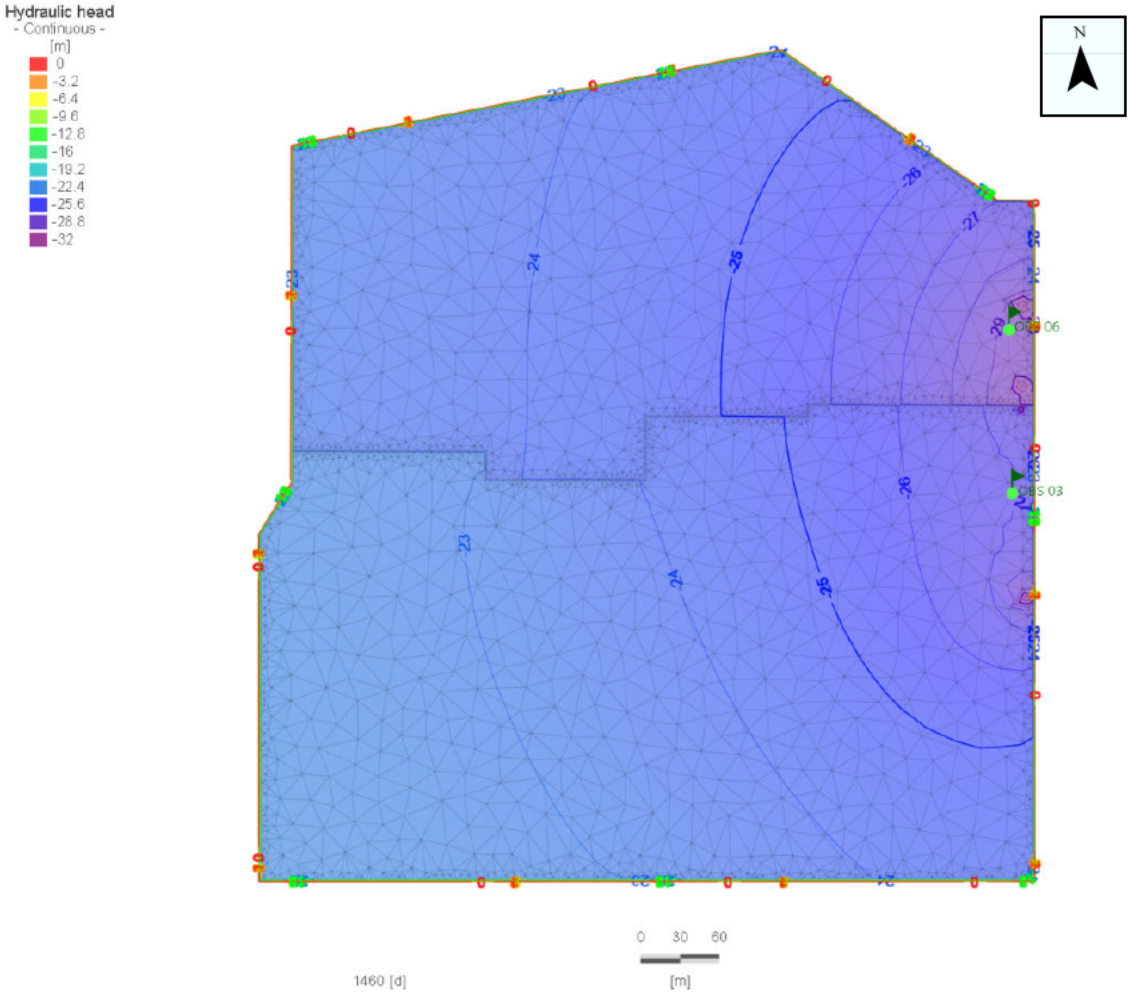


Figure 3.3 – Depressed Dewatering MCA Contour Head

3.3.4 TCA borehole

The Temporary Construction Area (TCA) abstraction borehole is located within the model domain approximately 950 m north-west of the MCA COW wall, as presented in Figure 3.4. The credible upper limit for abstraction (at the time of writing) is 1.1 megalitres per day (Ml/d) or 1,100 metres cubed per day (m^3/d). Where included in the modelling, as presented in Section 5.3, the TCA borehole has been assumed as being operational throughout the whole construction period. To maintain parity with the original DCO modelling, the TCA borehole has not been included in the baseline modelling (no construction scenario).

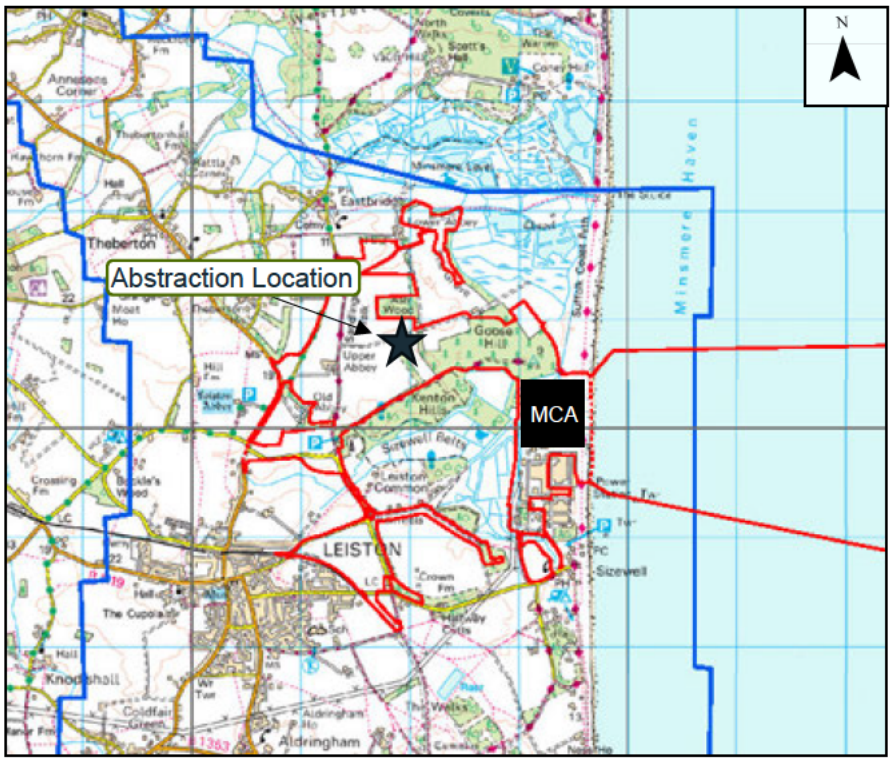


Figure 3.4 – TCA borehole location

3.4 Uncoupling Original DCO model

3.4.1 Representation of Sizewell Marshes

To allow a direct comparison of the Updated model (uncoupled results) and the Original model, the Original model has been uncoupled from the surface water interaction module and rerun. Relevant boundary conditions were simplified where required, and set to those as per the Original Model with the exception of the water level of the Sizewell Marshes, which was updated to a simplified, representative, conservative spatially variable and temporally constant specific head fluid transfer boundary condition which aligns with the Updated model. This allowed a direct comparison of the impacts of the change in design, rather than being subject to inconsistent boundary conditions in the Marsh.

Results of the Original baseline modelling prior to the 2022 modelled year, and the derived results [1], remain applicable as the modelling has not significantly changed within the New Design and so the models would be the same. Marsh water levels derived within this modelling for September 2022 were used as the starting point for the uncoupled modelling.

The boundary condition in the Sizewell Marshes was applied based on a conservative low level, ranging between 0.71 m AOD in the west and 0.13 m AOD in the east, as shown in Figure 3.5. The majority of the area of the Marshes was set to an elevation of approximately 0.13 m AOD. These values are lower than the values modelled within the coupled Original model. A conservative low set of values were selected to allow for direct comparison of the impact of the design changes, rather than changes in the input values for the water level in the Marshes.

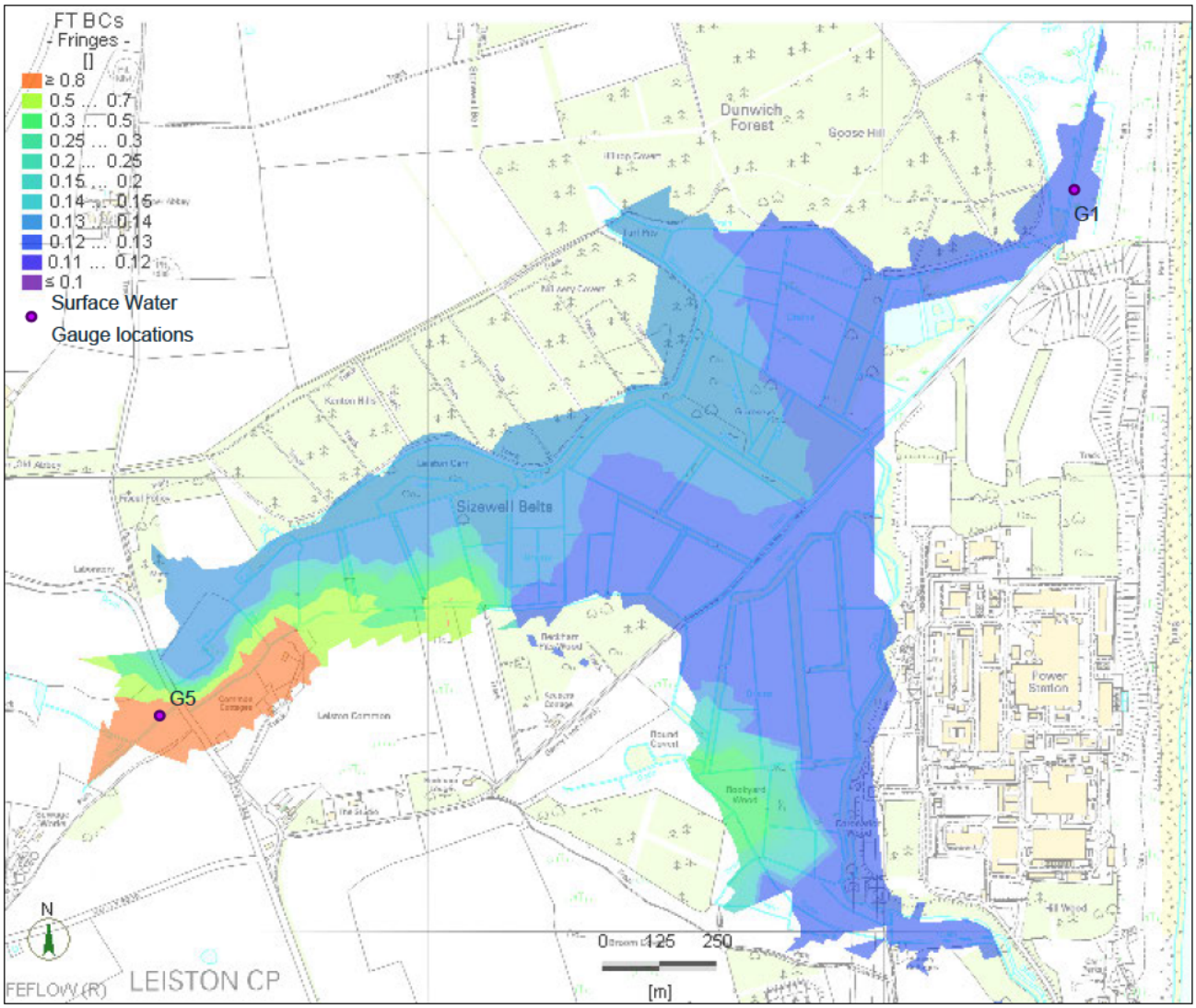


Figure 3.5 – Uncoupled marsh water levels

At surface water flow gauge G1, located at the downstream (eastern) end of the Sizewell Marshes, the Updated modelling utilises a value of 0.13 m AOD. The average value within the coupled modelling was 0.46 m AOD between 2022 and 2040. At surface water flow gauge G5, at the upstream (western) end of the Sizewell Marshes, the applied value was 0.71 m AOD within the Updated modelling, compared to an average of 0.76 m AOD within the coupled modelling.

Comparison of the coupled and uncoupled marsh water levels for surface water gauge locations G1 and G5 are presented below in Figure 3.6.

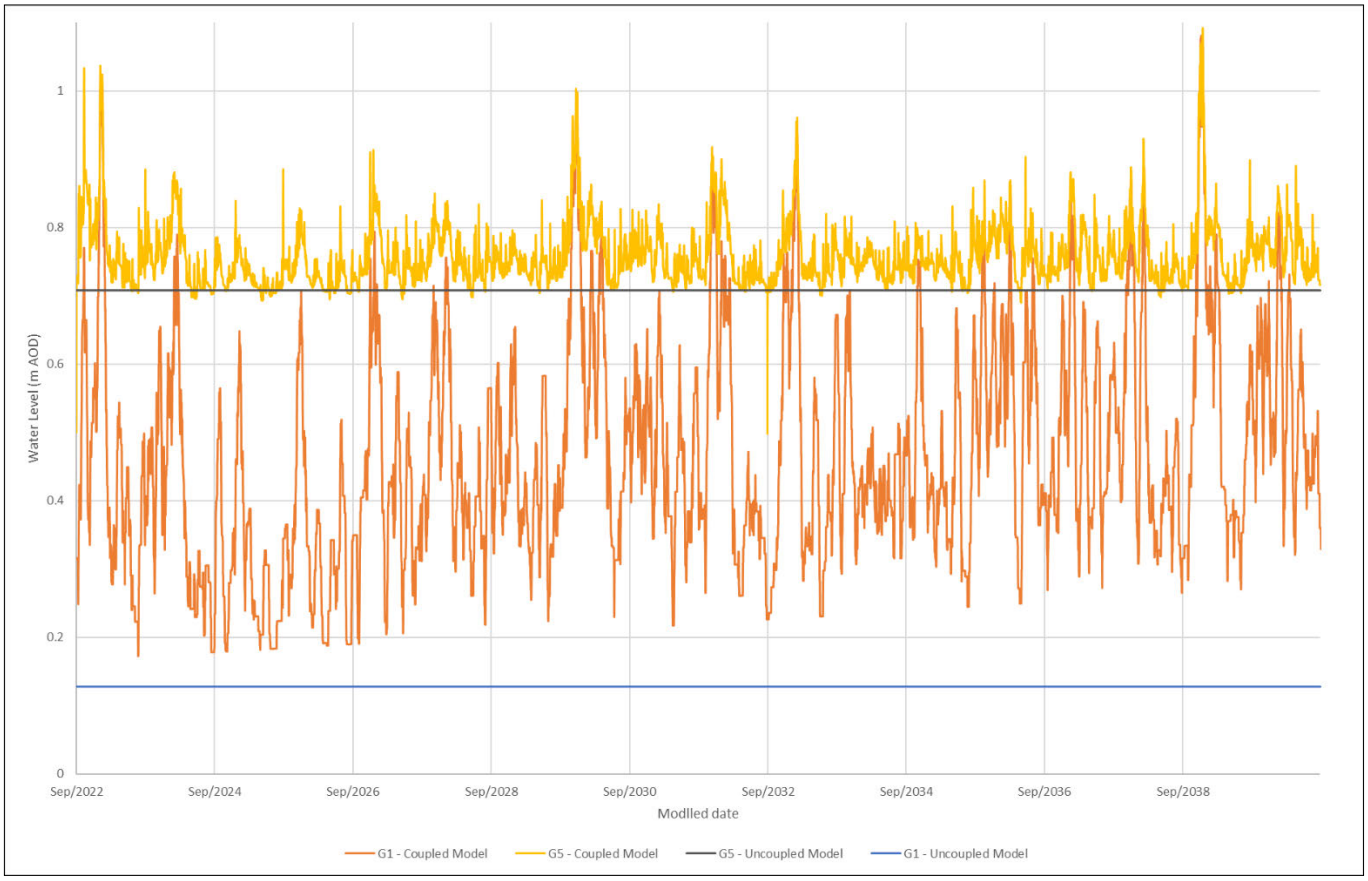


Figure 3.6 – Comparison of coupled and uncoupled marsh water level

The uncoupled modelling also assumes that the construction doesn't impact the starting levels. This has been assumed to allow direct comparison between the baseline and construction scenarios to derive drawdown values associated with the change in design.

3.4.2 Comparison of couple and uncouple model results

Figures presenting the maximum modelled drawdown, presented as negative metres (m) of drawdown, within the coupled and uncoupled Original DCO models for the Peat and Crag are presented in Figure 3.7 and Figure 3.8, below.

The uncoupled model results show a larger area of drawdown in the Peat east and west of the MCA and similar drawdown to north and south. A slightly higher maximum drawdown is reported in the immediate vicinity of the MCA within the uncoupled model, particularly in the west in the Sizewell Marshes and south between the SZC COW and SZB COW. The drawdown to the north of the MCA is generally similar and the shape of the drawdown to the south, extending around the representation of SZB is also similar. The magnitude of drawdown in the region between SZB and SZC is higher in the uncoupled model results. In general, the uncoupling of the Original model results in higher magnitudes and larger areas of drawdown around SZC, particularly beneath the Sizewell Marshes. This means that results generated by an uncoupled model can be considered conservative, compared to the Original coupled model.

The maximum drawdown in the Peat of the Sizewell Marshes is reached 480 days after the start of dewatering.

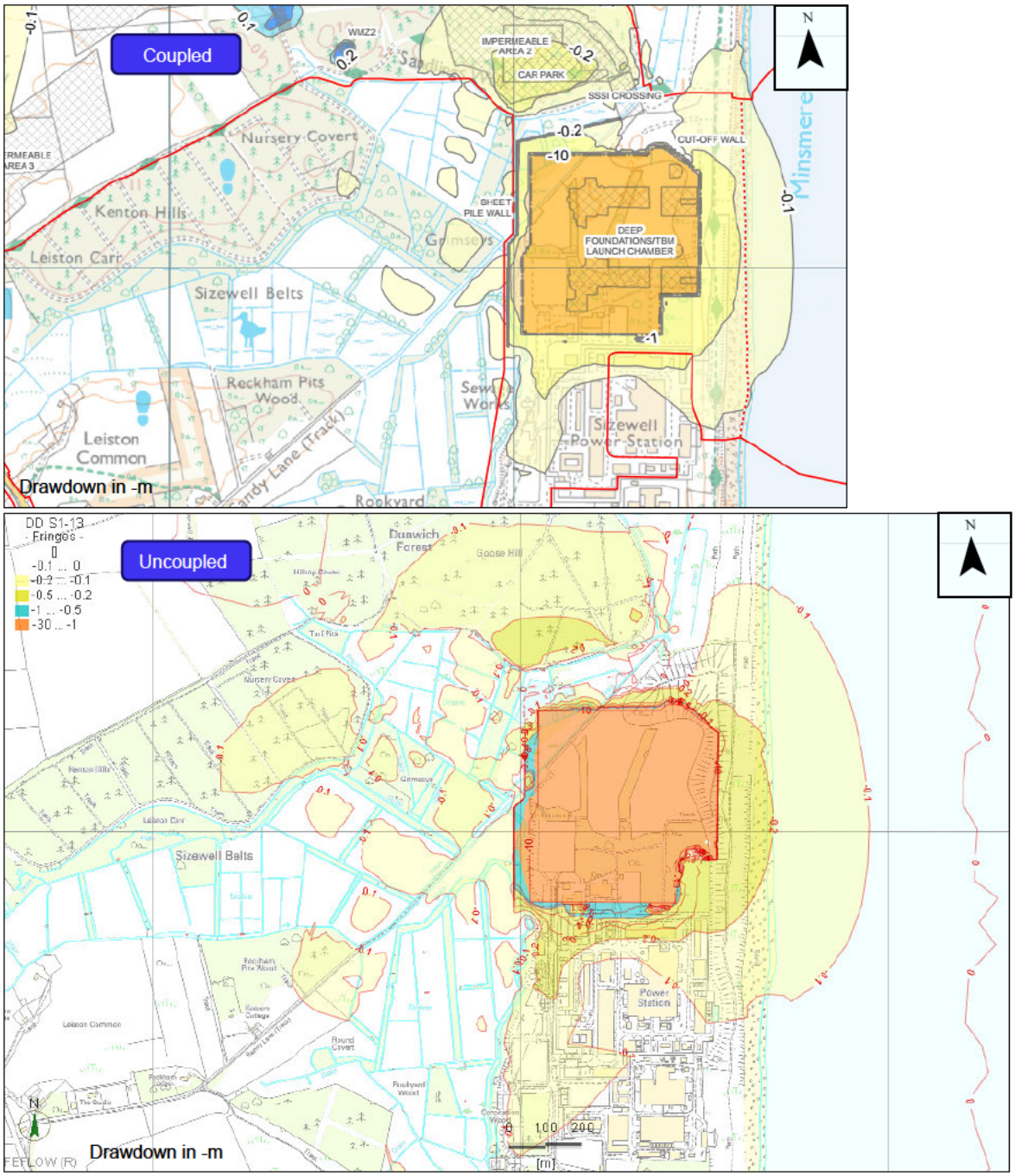


Figure 3.7 – Coupled and uncoupled Original DCO model, maximum drawdown, Peat

The results for the Crag show a generally similar area of influence between the models, with the uncoupled model showing a minor increase in the magnitude of drawdown to the south of the MCA and a larger area of influence, and magnitude, beneath the Sizewell Marshes. The 0.1 m drawdown contour line moves east beneath the Sizewell Marshes by approximately 200 m. The uncoupled model reports an area of 0.3 m drawdown to the west and south west of the MCA, which is not present in the coupled model results. The maximum drawdown in the Peat of the Sizewell Marshes in the coupled model is 0.16 m and in the uncoupled model is 0.21 m.

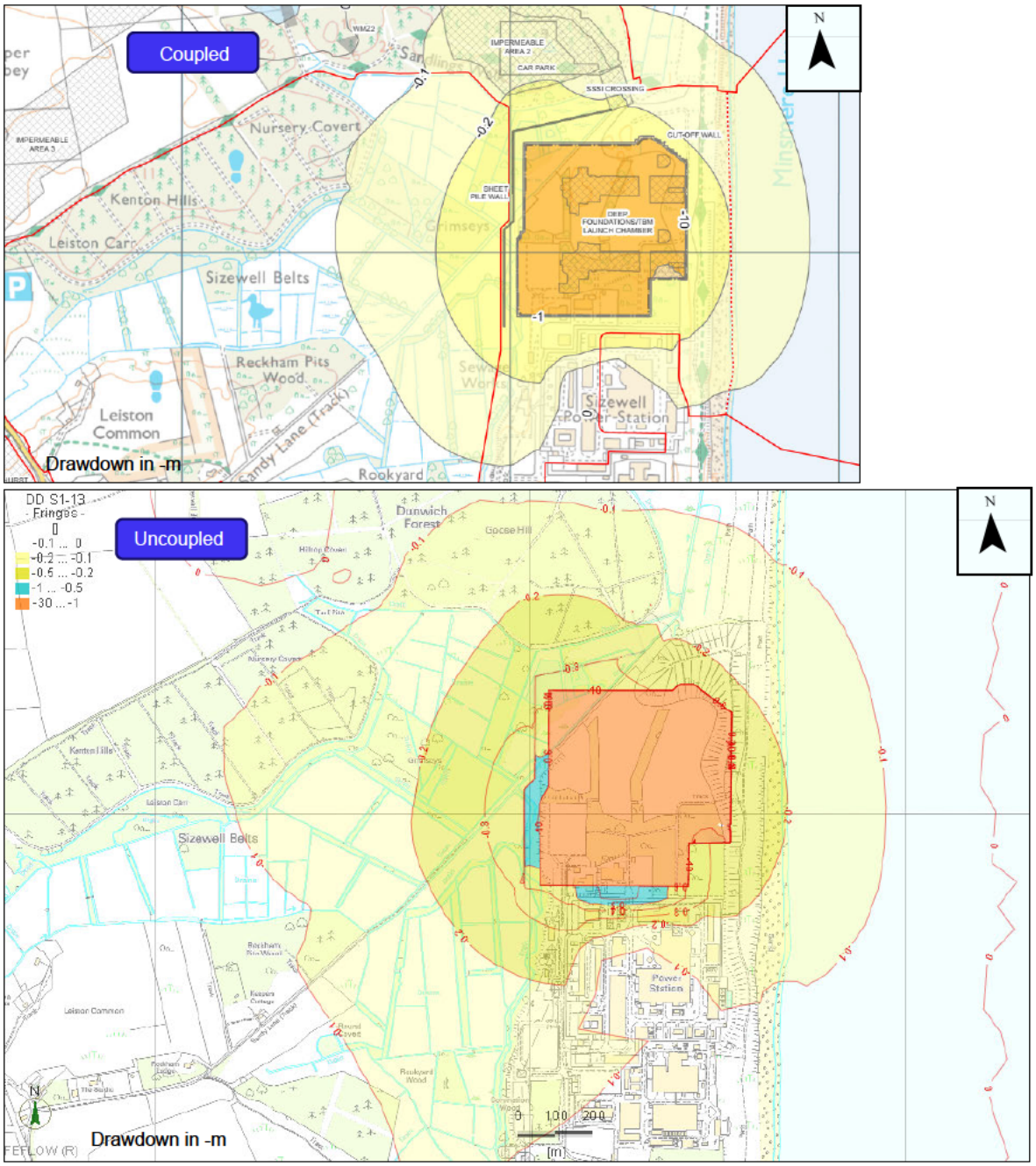


Figure 3.8 – Coupled and uncoupled Original DCO model, maximum drawdown, Crag

In general, the comparison of the coupled and derived uncoupled models suggests that use of the uncoupled modelling is conservative. This is supported by hydrographs of drawdown for the construction scenario across the period 2022 – 2026, presented in Figure 3.9, below. The hydrographs show that at almost all locations (outside of the COW/immediate vicinity of the COW), the uncoupled modelled reports slightly increased drawdown, generally up to approximately 4 cm. This difference is much lower than the difference in Marsh head conditions applied in the modelling, at approximal 0.3 m, which indicates that the comparison of uncoupled results are suitably conservative and allow for comparison of impact within the design whilst maintaining confidence that the coupled drawdown, and 'real-world' drawdown, would be lower than the uncoupled model outputs.

The maximum drawdown in the Crag beneath the Sizewell Marshes in the coupled model is 0.27 m and in the uncoupled model is 0.32 m.

The coupled modelling, which is more representative of field conditions, reports lower magnitude and area of drawdown, across both Peat and Crag. This means that where values are discussed between the Updated model results, later in the report, these are likely to be slightly worse than the results of an equivalent coupled comparison would be, and that the resulting 'real world' impact would be anticipated to be lower than the information presented.

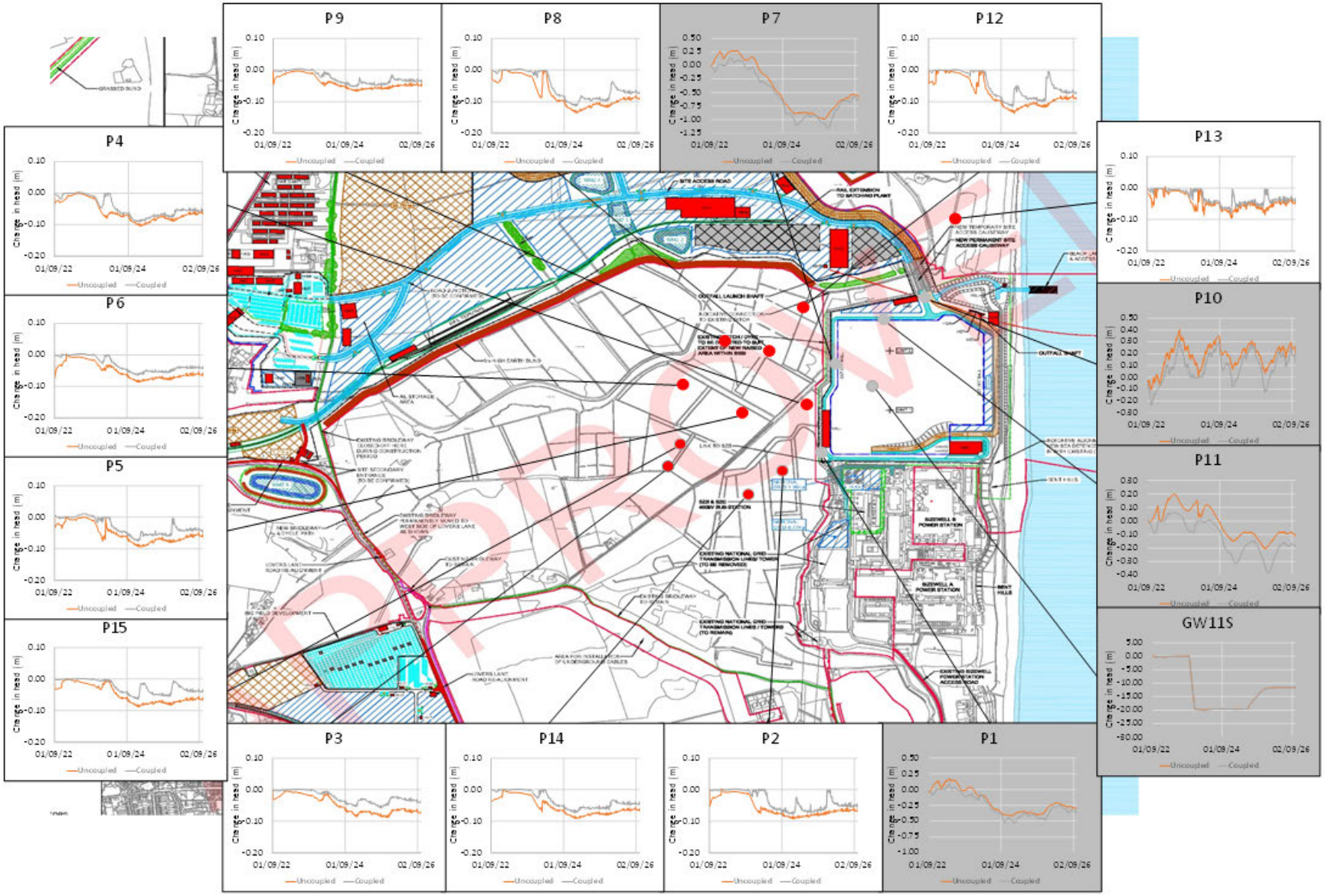


Figure 3.9 – Coupled and uncoupled Original DCO model drawdown Hydrographs, Original Design Construction Scenario, Peat

4. Model Validation

To validate the Updated model, a validation comparison has been completed, comparing the results of the Updated DCO model baseline run, without SZC development features, to the equivalent Original DCO baseline model for 18 years (ten years of construction and eight years of operational phases).

The Updated Baseline DCO model has been updated with the latest design details of SZC development features, with a refinement of the mesh where relevant. Calibration of the Original DCO model was generally able to meet the targets of to within 0.1 m of monitored/observed groundwater levels within the Peat of the Sizewell Marshes, to 0.25 m in the Crag near the Sizewell Marshes and within 0.5 m elsewhere in the model domain. Calibration of flows were as follows: surface water flows to within 10%, low flows within 25% and peak flows within 30%.

Model validation was conducted by completing a cross-check, comparing the results of the original baseline model runs with results of the Updated baseline DCO model for 2022 – 2032 (construction phase) and 2032 – 2040 (operational phase). In addition to the comparison between model outputs, model results have been compared to observed data between 2022 and 2025, presented in Appendix B.

4.1 2022-2032

Groundwater hydrographs for the results of the Updated DCO model have been compared to the Original model results at 57 locations within the Peat and Crag for first 10-years, nominally the 2022 – 2032 period. These comparison hydrographs are shown in Appendix A.1 for Peat and Crag. The piezometric locations represent on-site boreholes and were used as calibration points within the Original DCO model.

Within the appendices, grey data traces correspond to the results of the Original model, and the blue traces correspond to the results of the Updated DCO model. In general, the plots indicate that both the models report the same patterns of water fluctuation and seasonality. This is not the case for few locations in the Peat - P9 and P2 (Appendix A.1a); and in Crag - PZ21 (Appendix A.1b), C4S, C2S (Appendix A.1c), C2D (Appendix A.1d) which is anticipated to be associated with the change in input parameters as discussed below. All other monitoring points indicated similar or identical results within a few centimetres. In general, the results of the Updated DCO model align closely to the results of the Original DCO model, confirming the validity of the Updated DCO model.

In general, the groundwater levels reported within the Peat appear comparable between the models, but the reported groundwater levels in the Crag within the Updated model are generally slightly lower across most locations, particularly in the locations listed above. This may be a result of the simplification of the model during the uncoupling process, and the removal of the surface water interaction, but may also be a result of the generally more averaged head conditions applied as boundary conditions within the coarser mesh of the Updated model, resulting in lower flows downwards to the Crag. In comparison, heterogenous marshy conditions were represented in the Original model, applied within a finer model mesh, which could have retained the vertical flow of groundwater from the shallow layers of the model, resulting in higher heads in the Crag. The in/out flow boundary condition at the base of the model is the same in both models.

The relevant model head contours are shown in m AOD in Figure 4.1 for both Peat and Crag. The blue lines are the contours representing groundwater head results from Original DCO model. Model groundwater head results from Updated Baseline DCO model are shown as colour shaded contours. The contour plots indicate that simulated heads for 29 August 2024, are highly comparable between the Original and Updated models for both Peat and Crag, with only minor deviations between the Original and Updated model.

Minor deviations between the models, to a maximum difference of approximately 10 cm is observed in the Peat, especially during peaks in groundwater level in the north of the Sizewell Marshes (location P9). The locations of the

borehole/observation nodes that report the largest differences between the models are presented on Figure 4.1, below. The difference is lower than 5 cm at location P2. In the Crag, PZ21, which is located west of the SZB COW and reports a deviation of maximum 10 cm in April 2024 (Appendix A.2 b). Along the northern and north-western regions of Sizewell Marshes SSSI, C2S and C4S indicate a maximum deviation of 25 cm in the Crag. At these listed locations, shown in red in Figure 4.1, the deviations may be attributed to the remeshing of the model and associated changed at the specific sites, such as recharge to model elements. Where levels are lower the overall fluctuations in level, and seasonal variations, remain similar to the Original model in these, and all other, locations.

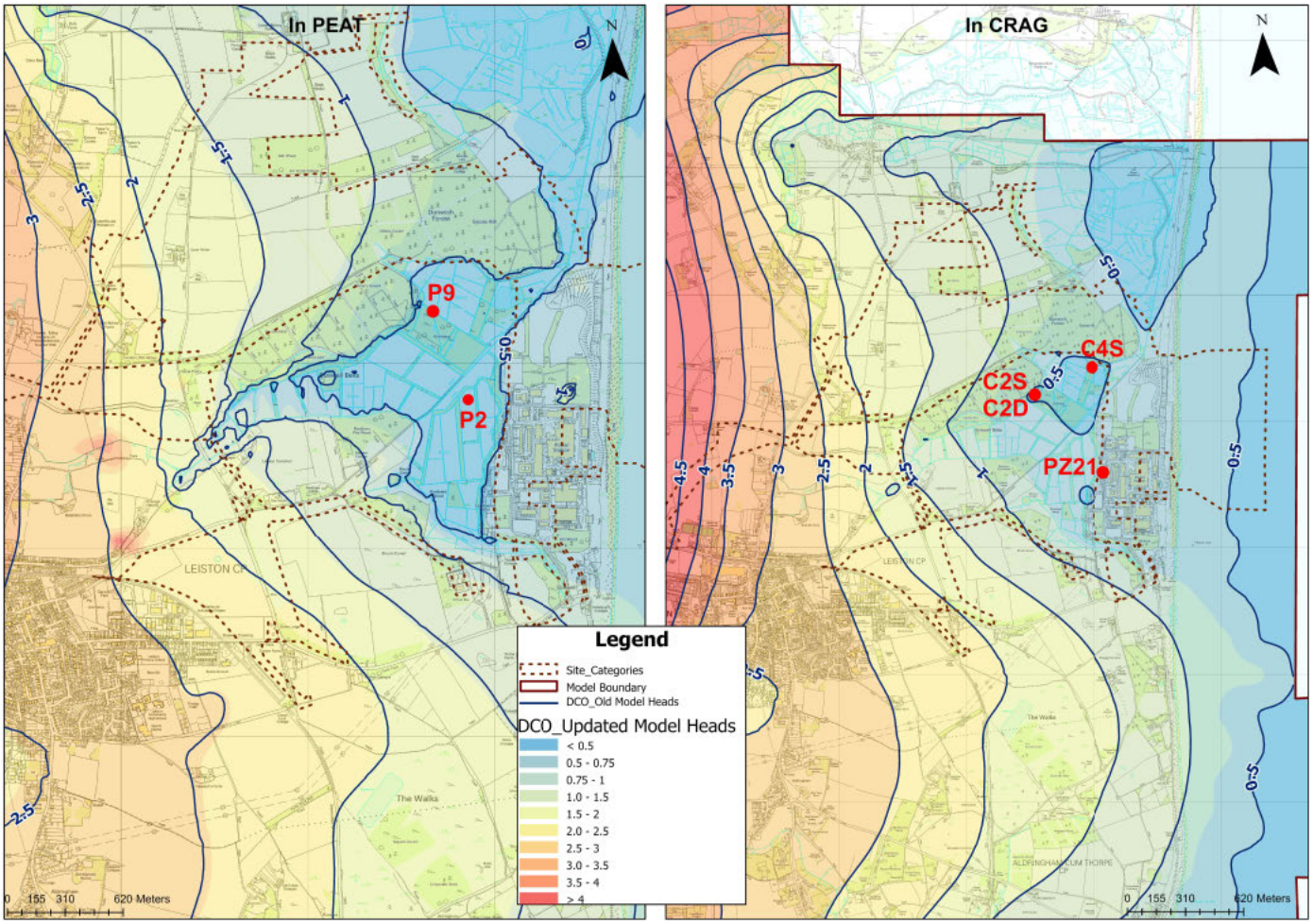


Figure 4.1 – Model heads contours (m AOD) in Peat and Crag for 29 August 2024

4.2 2032-2040

Groundwater hydrographs comparing outputs between the Original and Updated models have been generated for 2032 – 2040 as forecasted groundwater elevations across the operational phase at the site, presented in Appendix A.2. Blue traces present levels from the Updated model show a direct continuation of levels reported from the Original model simulations (shown in grey). These indicate that there is a stable regional groundwater baseline condition across this period, under a scenario with no SZC construction.

During 2032 – 2040, it is observed that Updated DCO model results match with the results from the Original model for the forecasted period at ~ 90% of the locations. Deviations in model heads up to a maximum of 10 cm, are identified in locations similar to those discussed in 4.1.1, with deviations at P9, P7, P2, P1 in Peat, as shown in Appendix A.2 (a). At these locations in the Updated model, heads are lower than Original model results except for in

P9 and P2 locations, which indicated higher heads from the Updated model. Similarly, in the Crag, PZ21 (Appendix A.2 b), C2S (Appendix A.2 c), C2D and BP9 (Appendix A.2d) indicated lower heads from Updated model as compared with Original model results. This pattern is similar to the one observed for 2022 – 2032 period (as discussed above in Section 4.1.1). Updated model heads report higher levels in C4S in the Crag only.

These deviations are likely to be resulting from the same changes as discussed above, including the decoupling itself, and the use of averaged flow conditions assigned within the coarser mesh of Update DCO model. Flow conditions in drains in the Sizewell Marshes in the Updated model have been simplified and were assumed to be same as in Original DCO model. Although spatial variability in flow conditions is included, constant flows over 18-years period have been assumed with no temporal variability in the model. This change in reference head within the Marshes will result in a slight divergence of the model results.

4.3 Validation Summary

The validation exercise has indicated that:

- Sensitivity to variations in the model; including run-off, vertical hydraulic conductivity, stream bed conductance, evapotranspiration and a variety of analyses on the surface water modelling, were completed on the original DCO model [2]. The results of these were summarised in the BoA and assumed to remain valid.
- Updated DCO model generated water head values comparable to the heads generated Original model, both in the Peat and in the Crag, except for at a few locations. At these identified monitoring points, the Updated model heads were lower by a maximum of 10 cm in Peat and 20 cm in Crag during peak heads. The average change is lower and only a few centimetres across most locations. This is attributed to the use of more averaged head boundary conditions within the Updated DCO model and the simplification of the model for uncoupled running, compared to the finer heterogenous boundary conditions adopted in the fine-meshed Original model.
- There is no change in the model simulation heads when compared amongst the same month over different years – 2022, 2032 and 2042. This validates the stability and efficiency of the model for long-term simulations and forecasts.
- Baseline model head are lower each December than reported head in August, with fluctuations across months within years. This is due to seasonal fluctuations and input parameters.
- The difference in calibration between the Updated and Original version of the models are generally minor deviations and due to relevant initial and boundary conditions, assumed to be constant over the long-term. No recalibration or work to increase the comparability of the Updated model to the Original model has been completed.

In addition to the comparison between model outputs, model results have been compared to observed data between 2022 and 2025, presented in Appendix B.

Whilst there is a possibility of non-uniqueness within the model parameterisation, the model has been previously calibrated to available monitoring data across a number of scenarios, and input parameters have been compared to the EA regional groundwater model, and therefore the model is considered to be a good representation of site conditions. Whilst it is acknowledged that there would be different permutations of parameters that may yield the same results the fact that the parameters that have been selected result in data similar to real data (within calibration) the possibility of non-uniqueness is not considered to be a risk for predictive scenarios.

5. Scenario modelling

5.1 Modelled scenarios

As per the BoA [2], the construction timeline has been implemented based on the SZC MCA Time Slices document, dated 10/11/2025, received via email from Kevin Mullins, SZC MCA Technical Engineering Manager, on 19/11/2025 [5]. The Time Slices document indicates that:

- the start of construction works was January 2025;
- the completion of Unit 1 COW is January 2027;
- the start of excavation of Unit 1 is October 2027;
- the completion of Unit 2 COW is January 2028; and
- the excavation of Unit 2 is September 2028.

To enable the excavation of Unit 1 and Unit 2 it has been assumed that dewatering is commenced as soon as possible, i.e. the relevant COW has been competed:

- the start of dewatering of Unit 1 in January 2027; and
- the start of dewatering of Unit 2 in January 2028.

A high-level summary of the timing for other key development items that have been incorporated into the models is presented in the BoA [2].

Due to the time-slice scenarios that the Original DCO model was set up to run, the final model run years are different to the above construction timeline, but the durations and timings of the development items are correct, as per the information from SZC. The following model scenarios have been completed on the Updated DCO model:

- Baseline model: 2022-2040, no SZC development features present. This model run does include the updated representation of the realigned surface water features and SZB;
- Scenario runs with SZC construction present and without TCA borehole: Intermediate climate conditions, split across the following scenarios:
  - Pre-dewatering 2022-2023;
  - Unit 1 dewatering 2023-2024;
  - Unit 2 dewatering and Unit 1 maintenance 2024-2026;
  - Unit 1 and 2 maintenance dewatering 2026-2032; and
  - Operational phase 2032-2040.
- Scenario runs with SZC construction present and with TCA borehole: Intermediate climate conditions, split into the same scenarios as above.

The scenarios represent the changes and anticipated duration of key phases of the development to allow temporal variation to be assessed, and the period required for the modified groundwater flow regime to stabilise to be determined. The scenario runs with the TCA borehole allow for the identification of the potential combined drawdown impact associated with the proposed MCA dewatering and TCA abstraction (at its credible upper operational limit of 1.1 Ml/d). The drawdown with the TCA abstraction is discussed in Section 5.2.5.

All scenarios have been run using typical baseline groundwater levels to determine the potential impact under an intermediate climate. The validated transient model was used to assess the range of design stages representing discrete phases of the development comprising one year of pre-construction, construction and operation, as summarised in the BoA.

Where construction timelines are different from the modelled timelines, the impact of dewatering can still be approximated. The calculated time to maximum impacts (days after start of pumping) would remain approximately accurate and so still be valid, although the exact maximum values may change due to the impact of seasonal variation that is seen within the model results.

It should be noted that groundwater models are a simplified representation of actual environments and are inherently limited. The modelling outputs should not be used as 'absolutes', but are intended to inform decision making for design and risk considerations.

The water balance for the Updated model without the TCA abstraction from 2028 is presented in Appendix C, along with the water balance for the coupled and uncoupled Original model.

5.2 Results

5.2.1 Introduction

Modelled results presented in this section represents the drawdown associated with the MCA dewatering only; the TCA abstraction is not present within the model runs.

The contour plots of drawdown, presented below, are derived based on calculated maximum drawdown across the modelled period. Contour plots are presented as negative metres of drawdown. The maximum drawdown is usually identified within the winter months. The maximum drawdown is representative of worst-case scenario and is not seen across the majority of the drawdown data. Hydrographs of groundwater elevation and drawdown at key borehole locations in the Peat of the Sizewell Marshes are presented in Appendix D. Larger versions of the presented contour plots are presented in Appendix E. Wider scale plots of the whole domain showing the theoretical '0' drawdown contour line are also presented in the appendix. It should be noted that the 0 contour line is considered to be primarily associated with process of modelling. Drawdowns less than a few centimetres are within numerical processing errors and so may not be representative and should not be relied upon to review maximum impact of proposed works.

5.2.2 Dewatering Unit 1

The dewatering of Unit 1 has been theoretically calculated as taking a minimum of approximately 60 days to drawdown the water within the COW [3]. This 'best case', most efficient dewatering, has been applied within the model to allow for assessment of the maximum potential rate of drawdown which is likely to have the largest impact on groundwater. In reality, the drawdown within the COW is likely to take longer and so the impact of the drawdown will also be slower to propagate.

Following the commencement of dewatering of Unit 1, drawdown outside of the COW in the Sizewell Marshes does not find equilibrium with the rate of dewatering and stabilise before the dewatering of Unit 2 begins.

5.2.3 Dewatering Unit 2

Dewatering of Unit 2 has also conservatively been implemented as taking 60 days to drawdown water within the COW. The resulting stabilised, maximum drawdown is not reached at the same time across the whole of the area of the Sizewell Marshes, varying in time from December 2025 to in December 2026 based on the proximity of the borehole to the MCA. The maximum drawdown resulting from the dewatering is presented for 12/12/2026, 1563 days after the start of dewatering of Unit 1 and 1,198 days after the start of Unit 2, in the Peat in Figure 5.1 and in the Crag in Figure 5.2. Larger versions of the presented contour plots are presented in Appendix E.

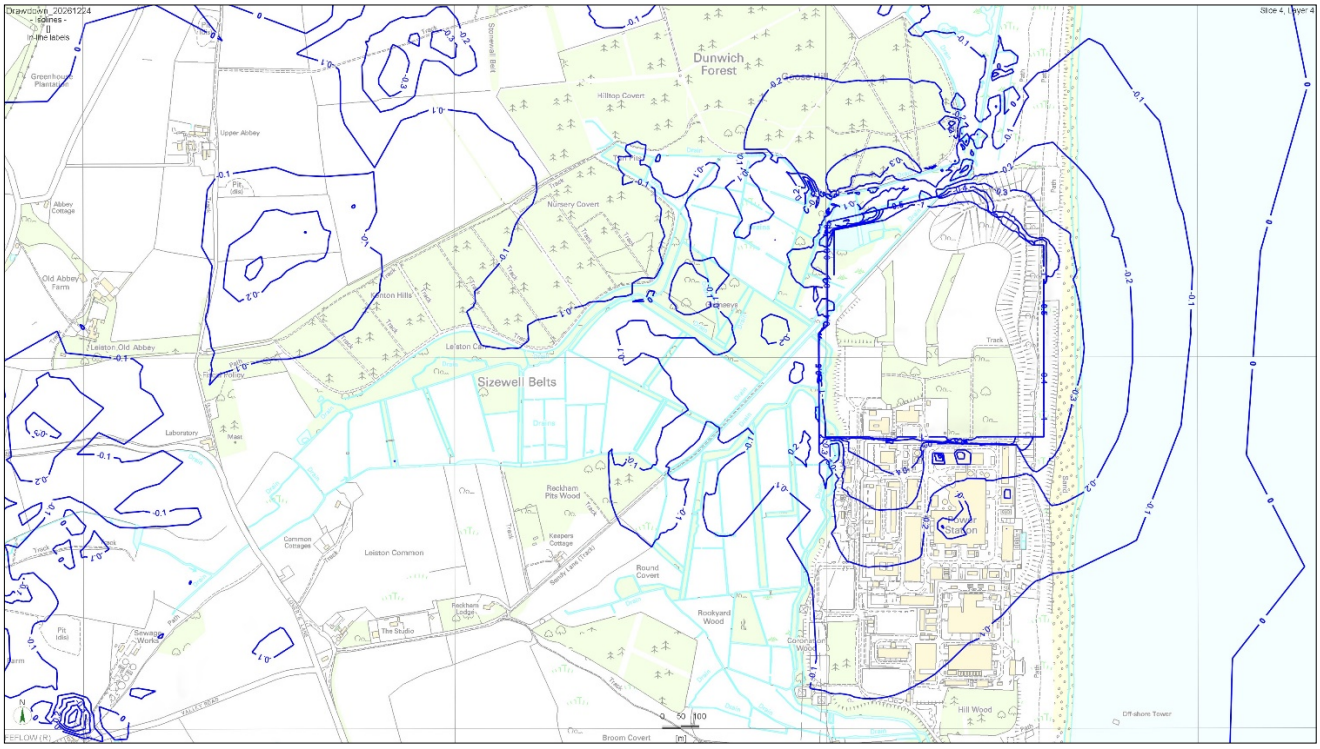


Figure 5.1 – Maximum drawdown in Peat without TCA abstraction following Unit 2 dewatering

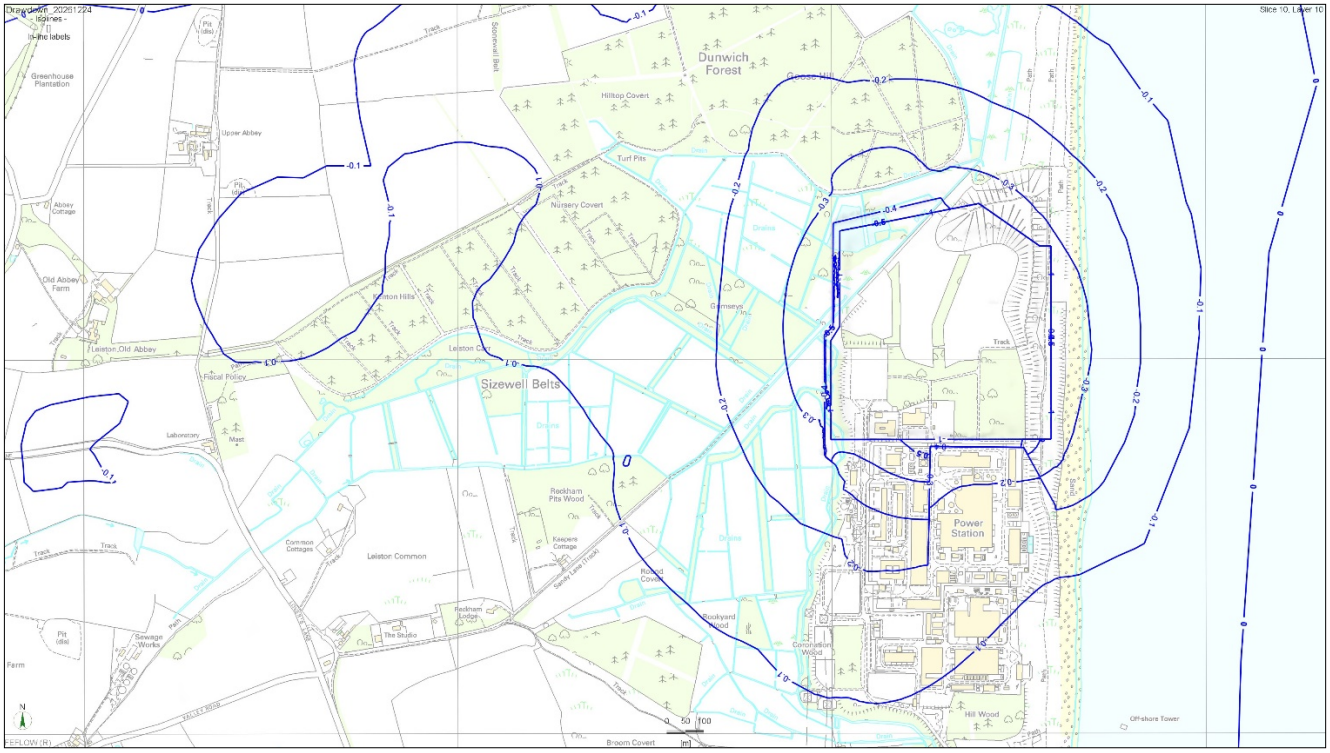


Figure 5.2 – Maximum drawdown in Crag without TCA abstraction following Unit 2 dewatering

Following dewatering of Units 1 and 2, the maximum drawdown in the Sizewell Marshes SSSI is 0.21 m, in the Minsmere SSSI is 0.25 m and in SZB is 0.28 m in the Peat and 0.36 m, 0.27 m and 0.23 m in the Crag, respectively.

Average drawdown values across data from available boreholes through the modelled period 01 September 2024 to 31 August 2032 are lower, as follows: 0.16 m in the Sizewell Marshes SSSI and 0.22 m in SZB in the Peat and 0.17 m and 0.21 m in the Crag respectively. The average drawdown across the majority of the Minsmere SSSI is less than 0.05 m in both Peat and Crag.

5.2.4 Comparison of drawdown to Original DCO model

The drawdown for the dewatering associated with the New Design, following dewatering of Unit 1 and Unit 2, are generally similar to the dewatering associated with the original design [1]. the maximum and average drawdowns at key locations across the sensitive receptors, and the maximum extent of drawdown, have been compared and are discussed below.

Maximum drawdown – magnitude

The maximum drawdown in Peat and Crag for the uncoupled Original DCO model are presented in Figure 3.7 and Figure 3.8. Larger version of the contour plots and comparison figures are presented in Appendix E.

The maximum drawdown in the Peat and Crag in the uncoupled Original DCO model results in the Sizewell Marshes SSSI are approximately 0.21 m and 0.32 m and in the Minsmere SSSI are approximately 0.15 m and 0.18 m respectively. The Original model did not represent SZB with a high degree of accuracy but the highest drawdown in the immediate vicinity, outside of the SZB COW is reported as approximately 0.5 m in both the Peat and Crag. This is located within the ‘corridor’ between the SZC and SZB COWs. The slightly increased drawdown in this area makes sense as water flow at this location will be limited by low permeability nature of the COWs.

As presented in above in Section 5.2.3, the maximum drawdown reported in the Updated DCO model in the Peat and Crag for the Sizewell Marshes SSSI is 0.21 m and 0.36 m, in the Minsmere SSSI is 0.25 m and 0.27 m and in SZB is 0.28 m and 0.34 m respectively. Outside of the SZB COW the maximum drawdown is approximately 0.6 m in the Peat and 0.8 in the Crag. These values are summarised in Table 5.1.

Table 5.1 – Comparison of maximum drawdown – Original and Updated models

Location	Original Model Maximum Drawdown (m)	Updated Model Maximum Drawdown (m)	Difference (m)
Peat			
Sizewell Marshes	0.21	0.21	0.0
Minsmere SSSI	0.15	0.25	+0.10
SZB (outside SZB COW)	0.50	0.60	+0.10
SZB (inside COW)	-	0.28	-
Crag			
Sizewell Marshes	0.32	0.36	+0.04
Minsmere SSSI	0.18	0.27	+0.09
SZB (outside SZB COW)	0.50	0.80	+0.3
SZB (inside COW)	-	0.34	-

In general, the reported maximum drawdowns within the key receptors resulting from the New Design Updated DCO model associated with the dewatering are similar to, or only slightly larger than, the results of the Original DCO modelling. The maximum drawdown in the Peat of the Sizewell Marshes does not increase, whilst the drawdown in the Crag only increases by 4 cm. The drawdown in the Minsmere SSSI appears to increase by the largest amount at 0.10 m and 0.09 m for Peat and Crag but this only effects the most southerly area of the SSSI, with the majority of the area of the SSSI being beyond the area of influence associated with the dewatering and so experiencing no change.

The comparison of drawdown outside SZB suggests drawdown is approximately similar in the models, although the layout of contours is notably different. The contours around SZB do not allow a direct comparison due to the update to the representation of the area.

Maximum drawdown - extent

In general, the lateral extent of drawdown is similar between the models. Comparisons of the maximum drawdown within the Original modelling and Updated modelling, without the TCA present, for the Peat and Crag, are presented in Figure 5.3 and Figure 5.4 respectively.

The extend of drawdown in the Updated model is larger in the north, east and south in both the Peat and Crag. The drawdown is smaller in the Peat to the west, beneath the Sizewell Marshes. The drawdown is similar in the Crag beneath the Sizewell Marshes but larger in the Crag to the north west of the site, generally north of the Sizewell Marshes.

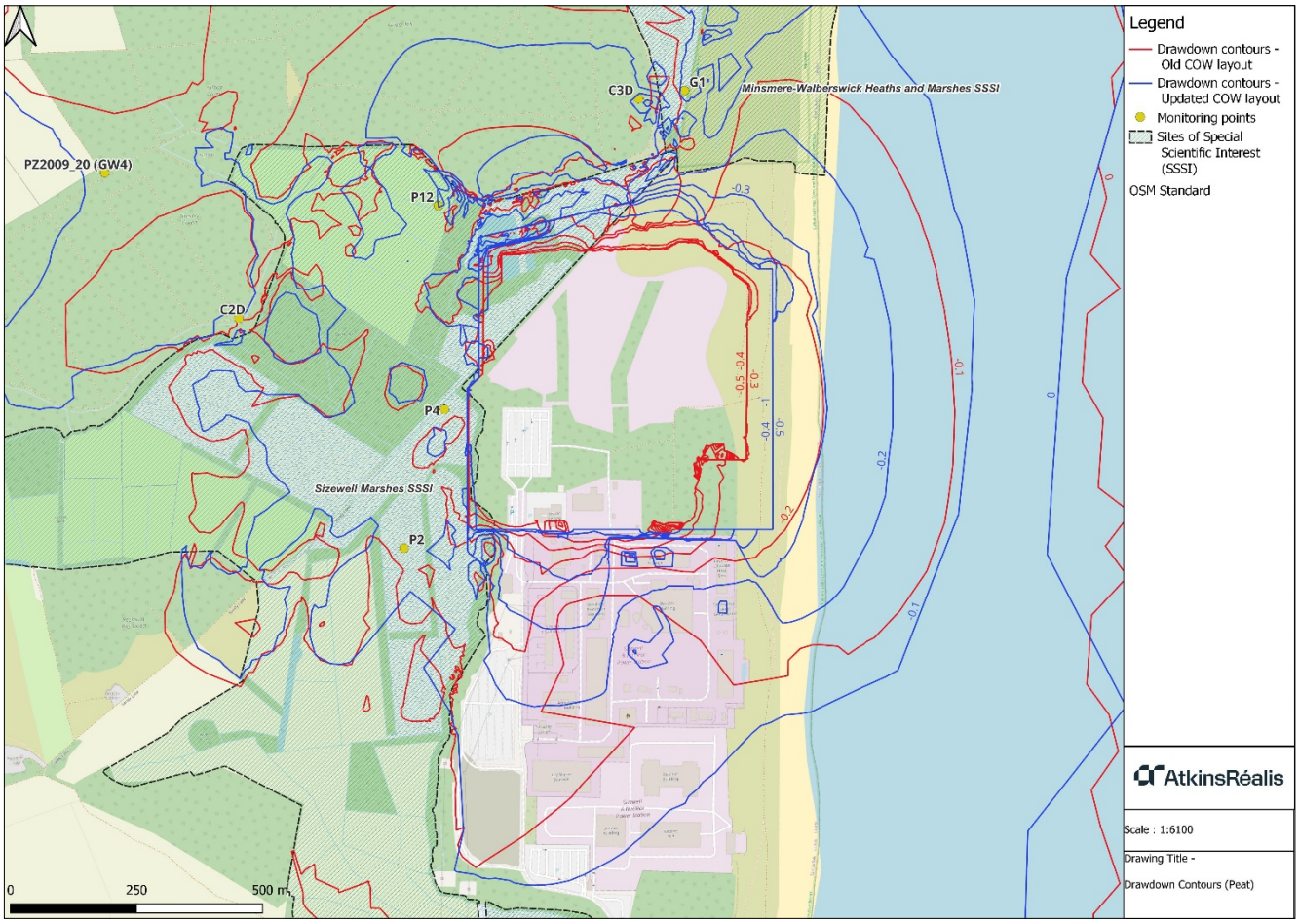


Figure 5.3 – Comparison of maximum drawdown contours, Original and Updated modelling, without TCA abstraction, Peat

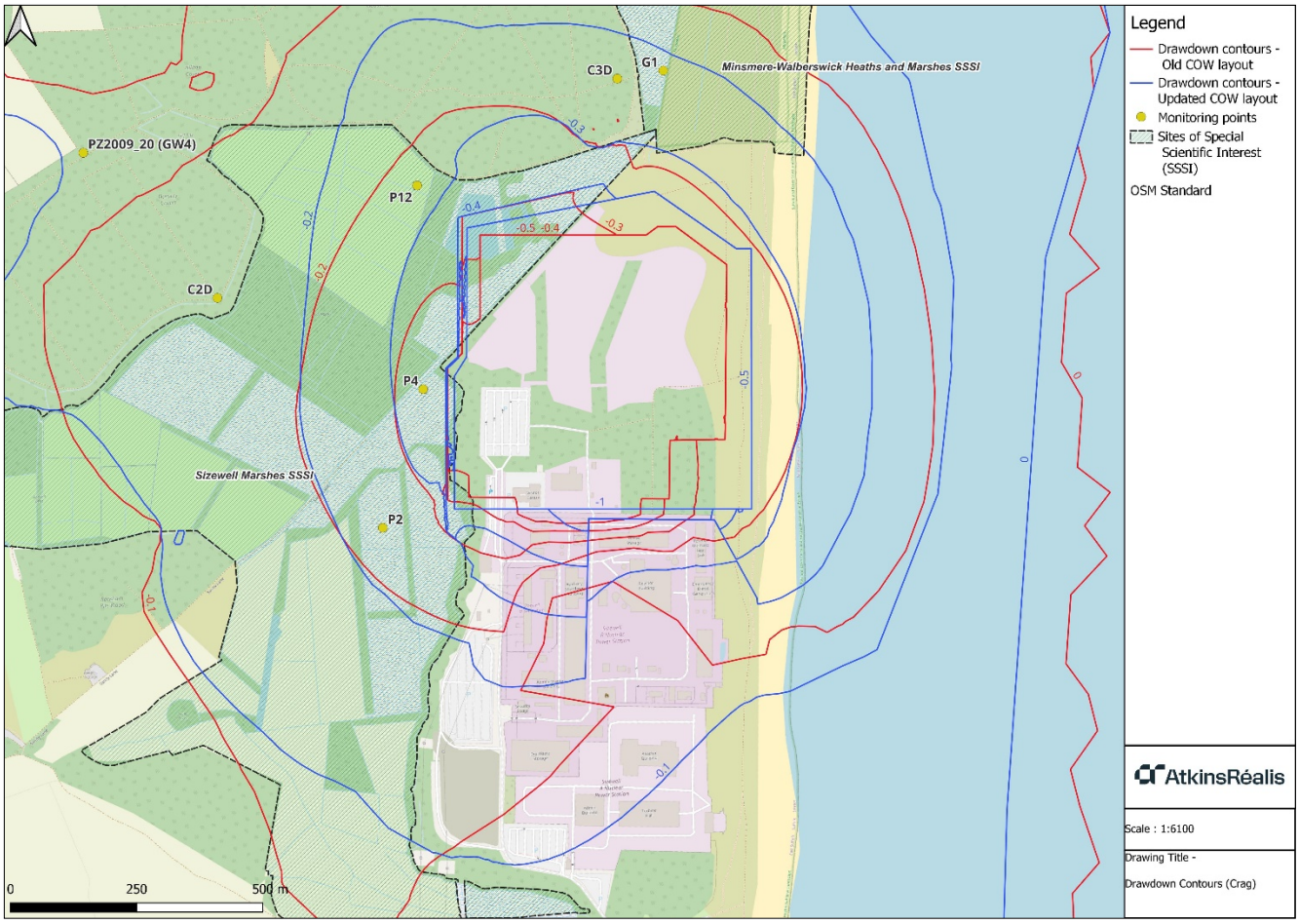


Figure 5.4 – Comparison of maximum drawdown contours, Original and Updated modelling, without TCA abstraction, Crag

The comparisons show that the lateral extents of the drawdown contours follow generally similar lines to the east and west in the Peat and Crag.

Beneath the Sizewell Marshes, west of the COW, the 0.1 m and 0.2 m drawdown contours follow similar lines in the models. The drawdown in the Peat is slightly smaller in the Updated model with the shape of the contours being closely associated with the ground elevation in the Marshes. In the Crag, the 0.1 m and 0.2 m contours extend a similar distance west compared to the contours in the Original model, although the effect of dewatering in the north of the Sizewell Marshes is slightly larger. The maximum reported drawdown is also higher, with the 0.3 m contour reported further north beneath the northern area of the Marshes in the Updated modelling.

To the north, east and south-east, the contours in the Peat and Crag are generally reporting a slight increase in drawdown in the Updated model, with the 0.1 m and 0.2 m contours extending further in these directions in both Peat and Crag. A 0.3 m drawdown contour is also present near the eastern COW in the Updated modelling. The easternmost section of the 0.1 m contour is controlled by the sea boundary condition applied in the model and so does not change. The sea boundary condition, and impact on the 0.1 m contour, is sufficiently distant from the area of interest at the site to avoid artificially constraining the change being assessed. The shallow modelled drawdown beneath the sea is a conservative, theoretical, maximum as the sea itself would not be drawn down by the proposed works. The location of the applied sea boundary condition was pushed towards the east, further from the coastal

line and MCA, at the request of the Environment Agency within the Original modelling to ensure that the impact from the dewatering was not artificially limited by the proximity of the set boundary condition (decreased).

The Updated DCO modelling shows that contours to the south extend further through/past SZB when compared to the results of the Original modelling. However, this will be associated with the inherent limitation of the Original model's representation of SZB, as a monolithic block of low permeability material, rather than the change to the SZC COW in the Updated model, due to the improved representation of SZB foundations, backfill and COW. The Updated model allows the contours to pass through the SZB platform and COW and so the location of the contours in the south west is not as limited as it was in the Original modelling.

The Updated COW covers an area approximately 24% larger than the original design, with the line of the COW increasing the area of the MCA most in the north and east of the COW. The target depth of dewatering is 12 m deeper than the Original model in the east of the COW (up to -32m AOD in the east of the COW) and less than 5 m deeper than Original model in the west (approx. -23.5 m in the west) when compared to the target dewatering depth in the Original design (-18.9 m AOD). Whilst this equates to a volume of dewatering approximately double the Original design, the Updated design also increases the thickness of the COW from 0.8 m to 1.0 m which acts to counter the other changes to the design. As such, the relatively minor changes to the impact of dewatering, primarily located in the vicinity of the east of the COW, are expected. The overall change in impact is considered low compared to the changes in the dewatering requirement.

Hydrographs and average drawdown

Hydrographs of groundwater elevation and drawdown at key borehole locations in the Peat of the Sizewell Marshes within the construction phase are presented in Appendix D. The hydrographs show cyclical fluctuations in levels associated with seasonal variation in recharge within the model. The annual fluctuations in groundwater elevation vary between locations but are generally between 0.3 m and 0.5 m. The annual variation is also present in drawdown but the fluctuation in drawdown is lower at between 3 cm and 6 cm across an annual cycle. The hydrographs also show that the values of maximum drawdown (as presented in the contour figures) are only experienced for a short period of time, with the majority of the drawdown across an annual cycle being smaller.

Within the annual fluctuations, the drawdown is generally identified at its largest in early winter, in December and January, with lower drawdown across the summer months. This is visible in the hydrograph for location P4, shown in Figure 5.5, below. Borehole P4 is located in the east of the Sizewell Marshes SSSI, close to the SZC environmental barrier and western COW and screens the Peat. As maximum drawdown is reported in winter months, the risk associated with the drawdown itself is reduced as the seasonal changes mean the maximum drawdown coincides with increased winter rainfall, and so recharge to ground, which would act to counter the drawdown.

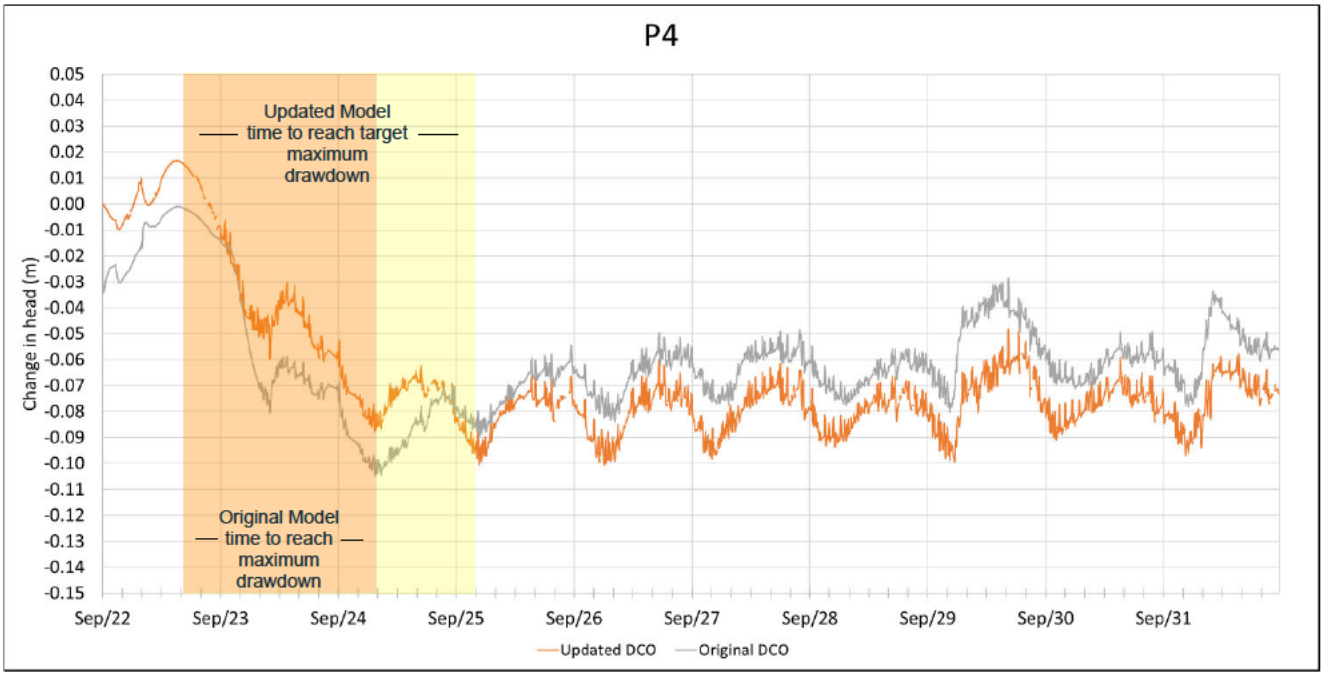


Figure 5.5 – Hydrograph P4, comparison of drawdown, Updated and Original DCO

Figure 5.5, shows that the time until the maximum drawdown at P4, takes one year longer within the Updated modelling than within the Original Baseline model. The figure shows that the Original model results in a higher maximum drawdown, but that the Updated model reports a more consistent higher drawdown over the construction period. This aligns with the increased volume of water and size of the COW within the updated design.

The data shows that the changes to the design of the COW creates a minimal difference in overall drawdown at P4, with the 50th percentile drawdown across the period 01 September 2023 to 01 September 2032 (start of dewatering to end of construction phase/dewatering) within the Original model being 0.080 m of drawdown and 0.075 m within the Updated modelling. This is a reduction of 0.5 cm of drawdown resulting from the change in the design of the MCA and associated dewatering at location P4, located near to the western wall of the COW within the Sizewell Marshes. The maximum difference reported in 50th percentile is 1 cm, reported for locations P9 and P13.

A notable difference in the modelling is that the days to reach the calculated maximum drawdown within the Peat of the Sizewell Marshes within the Original model is 480 days, but within the Updated model is 1563 days from the start of dewatering. This is likely to be associated with the change to two separate phases of dewatering within the updated design resulting in a slower initial rate of drawdown, and so driving groundwater gradient, when compared to the single phase of dewatering within the original design.

It should be noted that the contour plots show a worst-case view of the maximum drawdown as the lateral change in drawdown is apparently large when compared to the vertical change. The hydrographs show that the change in maximum drawdown at key boreholes across the domain is low, below 10 cm in all locations and as little as 2 cm. The change in average drawdown is lower than maximum, at 1 cm or less, for example being 0.5 cm lower in the Updated modelling at location P4.

Summary

In general, the comparison of the modelled drawdown in the Original and Updated models indicates little difference with the reported maximum drawdowns within the key receptors resulting from the New Design Updated model being similar to, or only slightly larger than, the results of the Original DCO modelling. The extent of the drawdown is also similar, with minor increases in area for 0.1 m, 0.2 m and 0.3 m contours beneath the Sizewell Marshes, and the overall change in impact considered low compared to the change in the scale of dewatering.

Within the annual fluctuations, the drawdown is generally identified at its largest in early winter, in December and January, with lower drawdown across the summer months. Due to this seasonal fluctuation, the average drawdown is lower than the maximum with the seasonal fluctuation in drawdown between approximately 3 cm and 6 cm across the locations in the Peat.

5.3 TCA abstraction

The presence of the pumping associated with the TCA abstraction will impact groundwater in the vicinity of the abstraction and towards the MCA. For the purposes of this assessment, the TCA abstraction has conservatively been assumed to be in operation at its upper credible limit output, 1,100 m^3/d, throughout the MCA dewatering and SZC construction phase. This equates to 10 years within the model run, between 2022 and 2032. The combined maximum drawdown from the MCA dewatering and TCA abstraction is presented for the Peat in Figure 5.6 and for the Crag in Figure 5.7. Larger versions of the presented contour plots are presented in Appendix E.

Contour plots

The maximum drawdown within the Sizewell Marshes with the TCA abstraction also included in the modelling is observed seven and a half years after the commencement of abstraction (2,709 days) and 6 and a half years after the commencement of dewatering (2,344 days).

The modelled drawdown contours represent a worst case theoretical maximum drawdown associated with the MCA dewatering and the TCA abstraction. However, in this case, the modelled maximum drawdown is not considered to be likely to be possible in the real-world operation of the abstraction because of the existing agreed groundwater monitoring and trigger levels associated with the existing permit for the abstraction (licence serial number AN/035/0003/016, dated 13/10/2025). The trigger levels and modelled groundwater elevations at the maximum drawdown are presented in Table 5.2, below.

Table 5.2 – Comparison of maximum drawdown – Updated models

Observation Location/ Borehole ID	Trigger level in permit (m AOD)	Minimum modelled groundwater elevation at location (m AOD)
PT05	0.94	0.77
C3D	0.53	0.44
PZ2009_20 (GW4)	1.17	0.66
C2D	0.67	0.41

As shown in Table 5.2, the trigger levels are all higher than the modelled groundwater locations. As such, the monitoring and trigger levels would result in a reduction or cessation of abstraction should the drawdown associated with the abstraction reaches the trigger levels, which are above the contours derived from the credible upper operational limit of 1.1 Ml/d rate, and so reduce the maximum effect of the abstraction itself.

Hydrographs of drawdown at key borehole locations in the Peat of the Sizewell Marshes are presented in Appendix F.

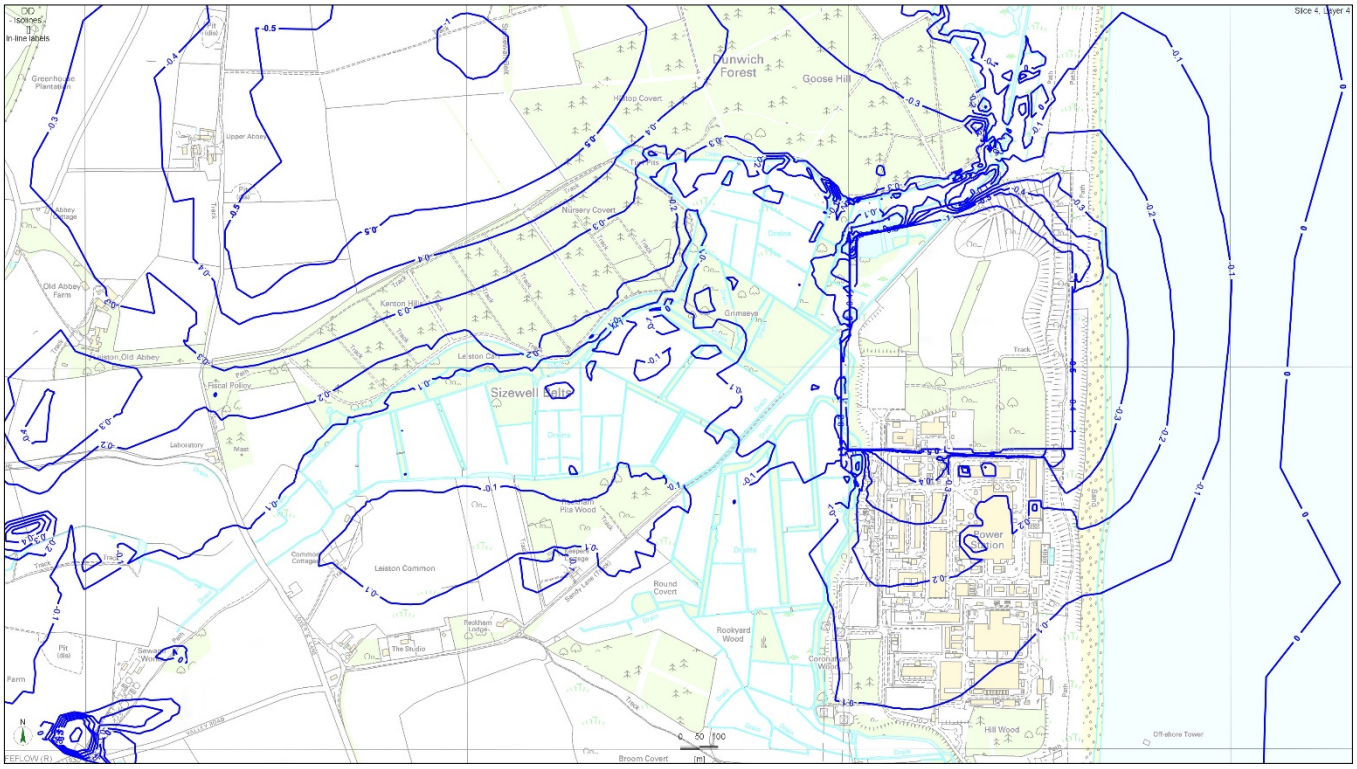


Figure 5.6 – Maximum drawdown in Peat, including TCA abstraction, following Unit 2 dewatering

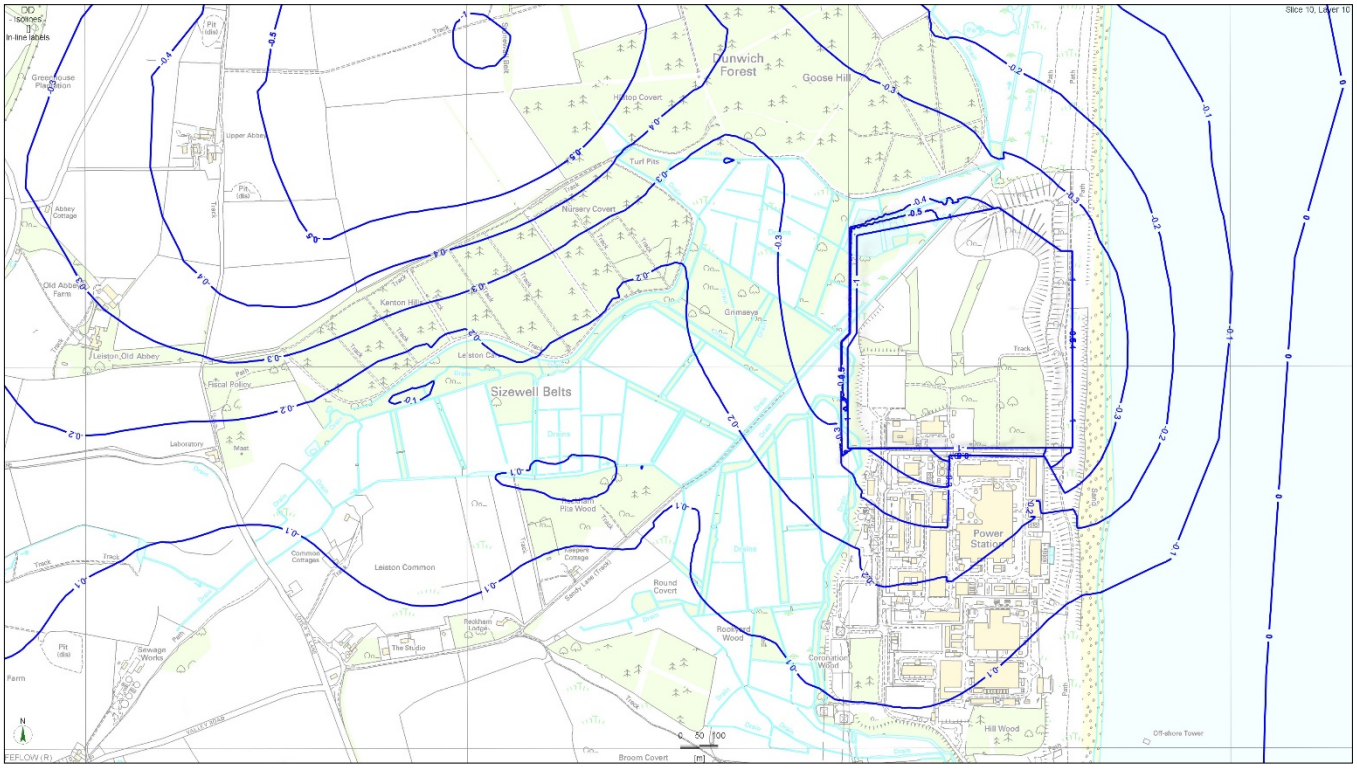


Figure 5.7 – maximum drawdown in Crag, including TCA abstraction, following Unit 2 dewatering

The comparisons between the models with and without the TCA abstraction show that the 0.1 m drawdown contour in the Peat beneath the Sizewell Marshes increases in area when the TCA abstraction is also present, covering more of the Sizewell Marshes and more of the surrounding vicinity north and south for the marshes with variable

drawdown up to 0.1 m. The 0.2 m do not change much within the Marshes, but do increase to the north of the Marshes and towards the location of the abstraction. The data suggests that the maximum drawdown across the majority of the Peat will not be significantly higher with the TCA abstraction present. The effect of dewatering on the Minsmere SSSI is also minimal, with small change in the location of the 0.1 m and 0.2 m drawdown contours.

The change in drawdown within the Crag is more pronounced, with the 0.1 m, 0.2 m and 0.3 m contours beneath the Sizewell Marshes moving westward, and towards the north of the Sizewell Marshes SSSI, in the immediate vicinity of the TCA. The 0.1 m drawdown contour in the Crag extends beneath the Sizewell Marshes significantly, covering the whole of the Sizewell Marshes and surrounding vicinity south of the Marshes. The area of the 0.3 m contour beneath the Sizewell Marshes extends to a wider area north-west, around the TCA. The effect of dewatering on the Minsmere SSSI is generally low, with a minor increase in drawdown and the location of the 0.1 m and 0.2 m drawdown contours in the far south of the area of the SSSI. The TCA abstraction is targeting, and pumping from, the Crag and so the identified change in the Crag aligns with this, as does the difference between the maximum drawdown in the Peat compared to the Crag.

Compared to the Original DCO modelling, the model with the TCA abstraction is not notably higher in the Peat with little difference in the maximum drawdown, but covers a notably larger area within the Crag, with the maximum area of 0.1 m of drawdown over a larger area and covering most of the Sizewell SSSI.

The modelled results without the TCA abstraction present shows that the MCA dewatering has minor additional impact on the Sizewell Marshes SSSI, primarily in the areas of the Marshes that are further from the MCA. However, whilst the maximum area of drawdown when the TCA abstraction is active is higher than the Original modelling, particularly in the Crag, the addition of the TCA abstraction still has little impact on levels within the Peat of the Sizewell Marshes SSSI itself.

Hydrographs

Hydrographs of drawdown with and without the TCA at key borehole locations in the Peat of the Sizewell Marshes are presented in Appendix F between 2022 and 2034. Both the data series show similar levels seasonal variation associated with the recharge applied within the model.

The difference in drawdown between the modelling with and without the TCA abstraction is clear within the first two years. At the start of the modelled period, the drawdown with the abstraction in operation increases more rapidly and results in a consistently higher drawdown compared to the results without the abstraction. The drawdown associated with the abstraction stabilises at the same time as the drawdown without the abstraction, by the middle of the third year following commencement of dewatering.

The reduction in drawdown identified within 2030 and 2032 in both models is due to an increase in the modelled seasonal recharge in winter months represented within the model. This general trend of generally steady maximum drawdown with seasonal cyclical continues until 2032, when the abstraction and dewatering cease, and groundwater levels recover. The recovery is modelled as being rapid with drawdown between the models with and without the abstraction being similar after less than one year.

The maximum average drawdown within the monitoring locations installed in the Peat of the Sizewell Marshes with the TCA abstraction present is 0.16 m drawdown, 0.02 m higher than the 0.14 m maximum average drawdown that is reported without the TCA abstraction present.

The hydrograph for location P9, located on the northern side of the Sizewell Marshes closer to the TCA abstraction is presented in Figure 5.8, below.

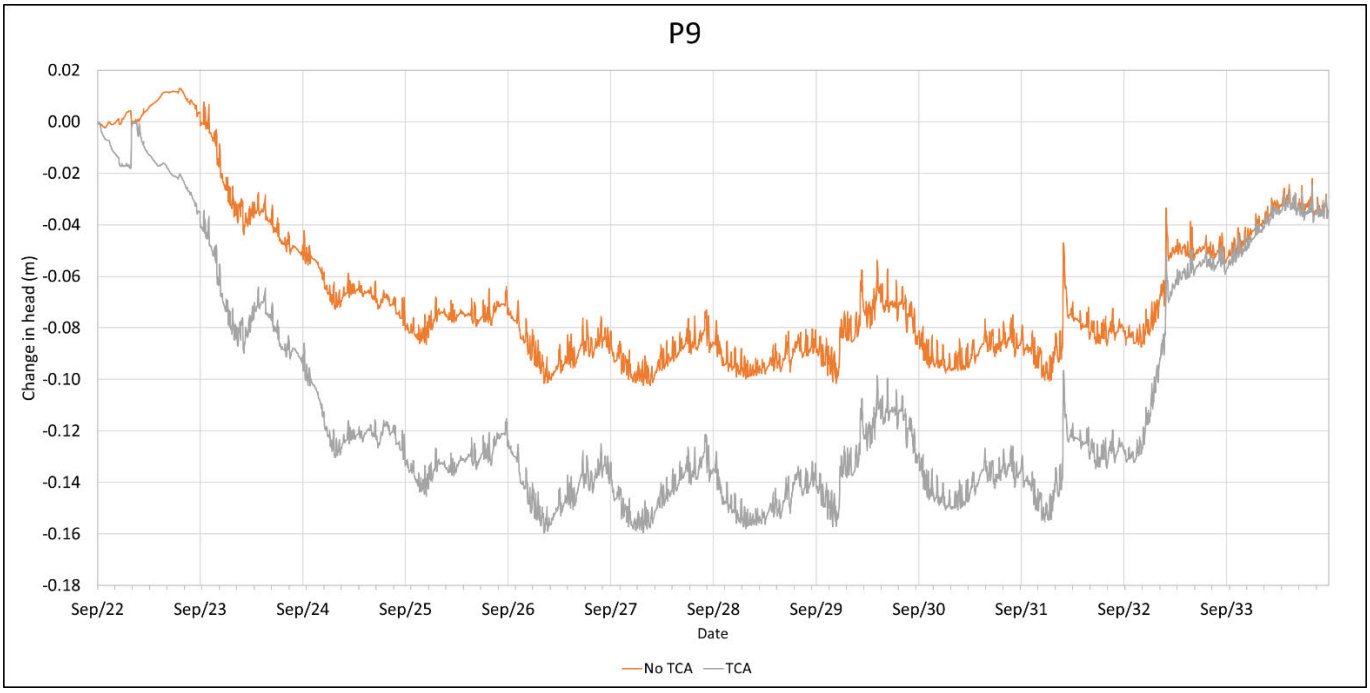


Figure 5.8 – Hydrograph, Location P9, with and without TCA abstraction

6. Conclusions

The Original DCO model has been updated to represent the New MCA design, including changes to the COW and dewatering target depth. The aim of the modelling was to evaluate drawdown around the SZC site at the sensitive receptors (Sizewell Marshes SSSI, Minsmere SSSI and SZB) for the New Design under an intermediate climate scenario.

Due to software compatibility issues between the surface water and groundwater modelling elements, since Original DCO model was constructed, it was not possible to run the Updated model using coupled surface water/groundwater functionality. Therefore, with the agreement of the Environment Agency, both the Original and Updated models were run in an uncoupled state to facilitate direct comparison. The uncoupled models show a more conservative impact than the coupled versions, but are considered suitable for comparison between the original and New Designs.

The modelling indicates that the change to the MCA and associated dewatering results in limited differences to the impact already identified within the Original modelling at the sensitive receptors, with the extent of the drawdown increasing slightly in the east, but decreasing to the west beneath the Sizewell Marshes with the maximum drawdown in key boreholes across the domain changing by, generally, less than 10 cm, and mostly only 3-6 cm. The increase in 50th percentile drawdown across the Sizewell Marshes between the start of dewatering, 2023, and the end of the construction phase, 2032, is lower, at 1 cm or less.

The maximum area of drawdown when the TCA abstraction is active is higher than the Original modelling, particularly in the Crag where the 0.1 m drawdown contour covers the whole of the Sizewell Marshes SSSI. However, the addition of the TCA abstraction still has little impact on maximum drawdown identified within boreholes across the Peat of the Sizewell Marshes SSSI itself, with an average change of less than approximately 10 cm.

At the time of writing the alignment of the COW is assumed to be a maximum and any changes to the alignment of the COW associated with refinement of the design, such as the change in the south-western corner, would represent a reduction in footprint, and consequently reduced dewatering requirement, and therefore result in a reduced impact on sensitive receptors.

7. References

[1] EDF NNB GenCo, “Sizewell C Numerical Modelling Report,” Sizewell C DCO submission, Vol. 2, Ch. 19, App. A, 2020.

[2] AtkinsRéalis, “EW0400 Groundwater Modelling - Construction Phase DCO Modelling Basis of Analysis, SZC-EW0400-ATK-XX-HSZ-XXXXXX-REP-CIV-900006,” 2026.

[3] AtkinsRéalis, “Design Report - Dewatering, SZC-EW0430-ATK-XX-HSZ-XXXXXX-REP-CIV-000003,” 2026.

[4] Met Office, “UKCP18 data home page.,” 2018. [Online]. Available: https://www.metoffice.gov.uk/research/collaboration/ukcp/download-data. [Accessed 06 2025].

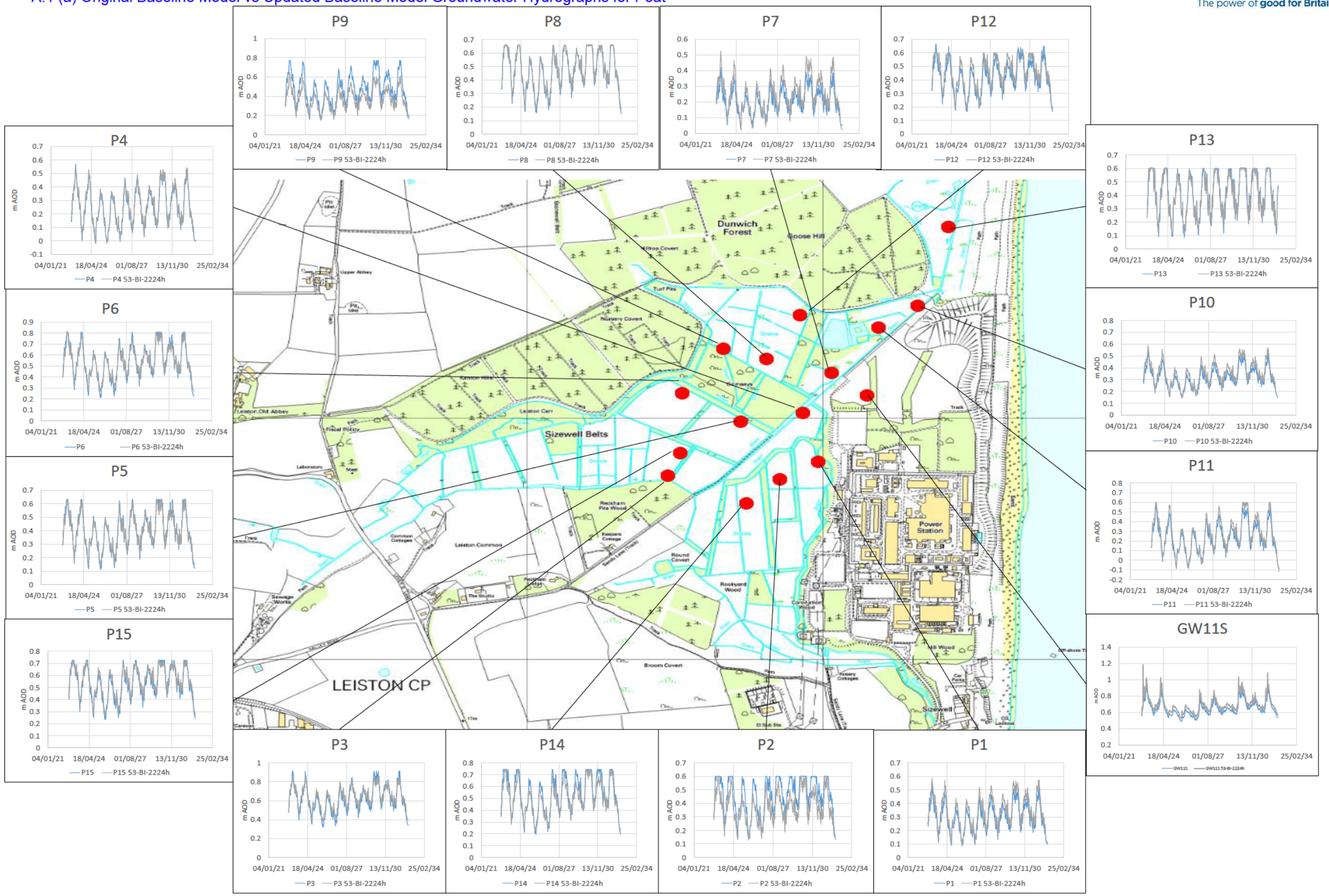
[5] [redacted] *Dewatering and timeslices,* SZC MCA Technical Engineering Manager, 19/11/2025 10:44.

Appendix A. Validation Hydrographs

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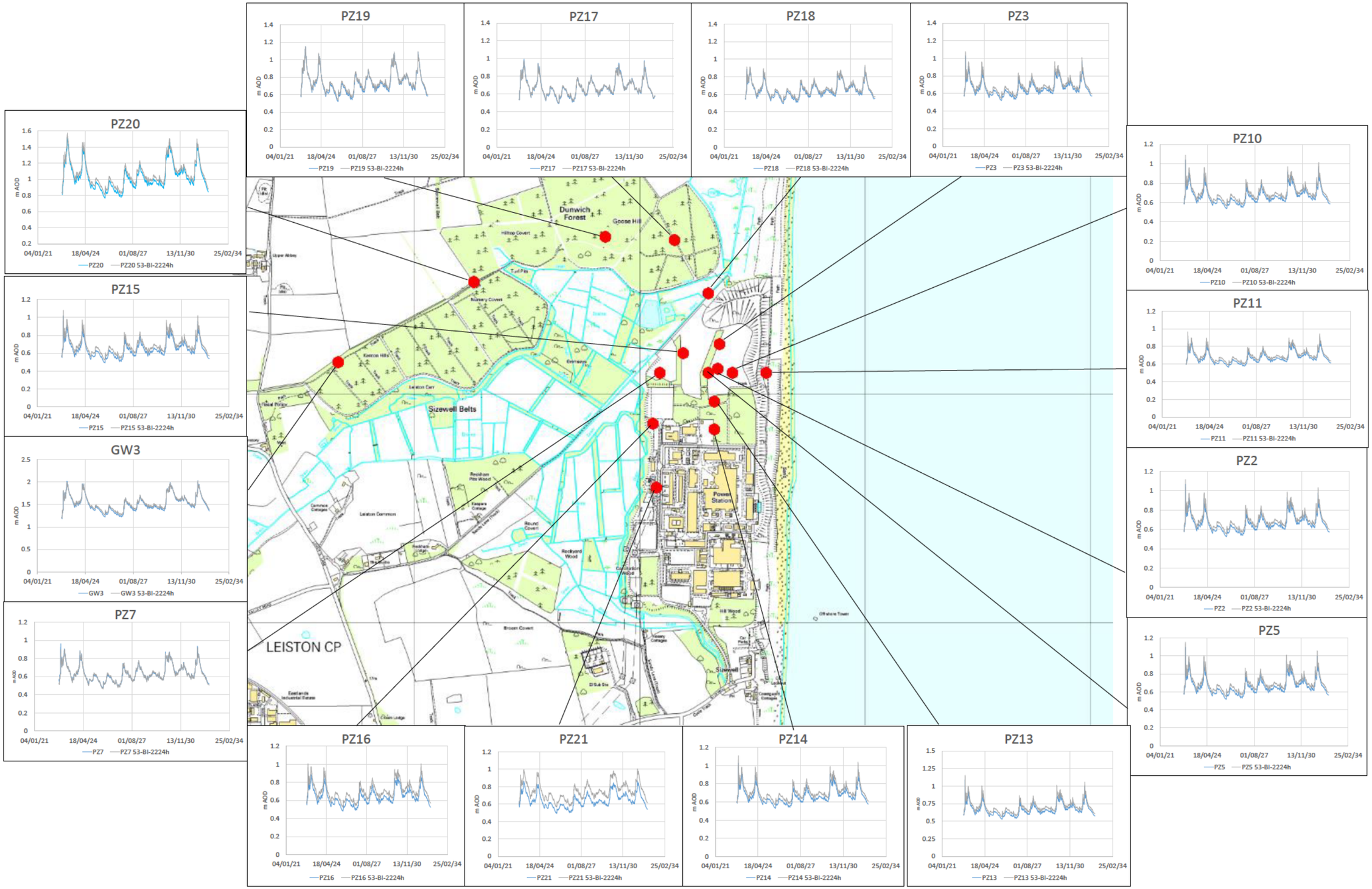
Sizewell C
The power of good for Britain

A.1 (a) Original Baseline Model vs Updated Baseline Model Groundwater Hydrographs for Peat



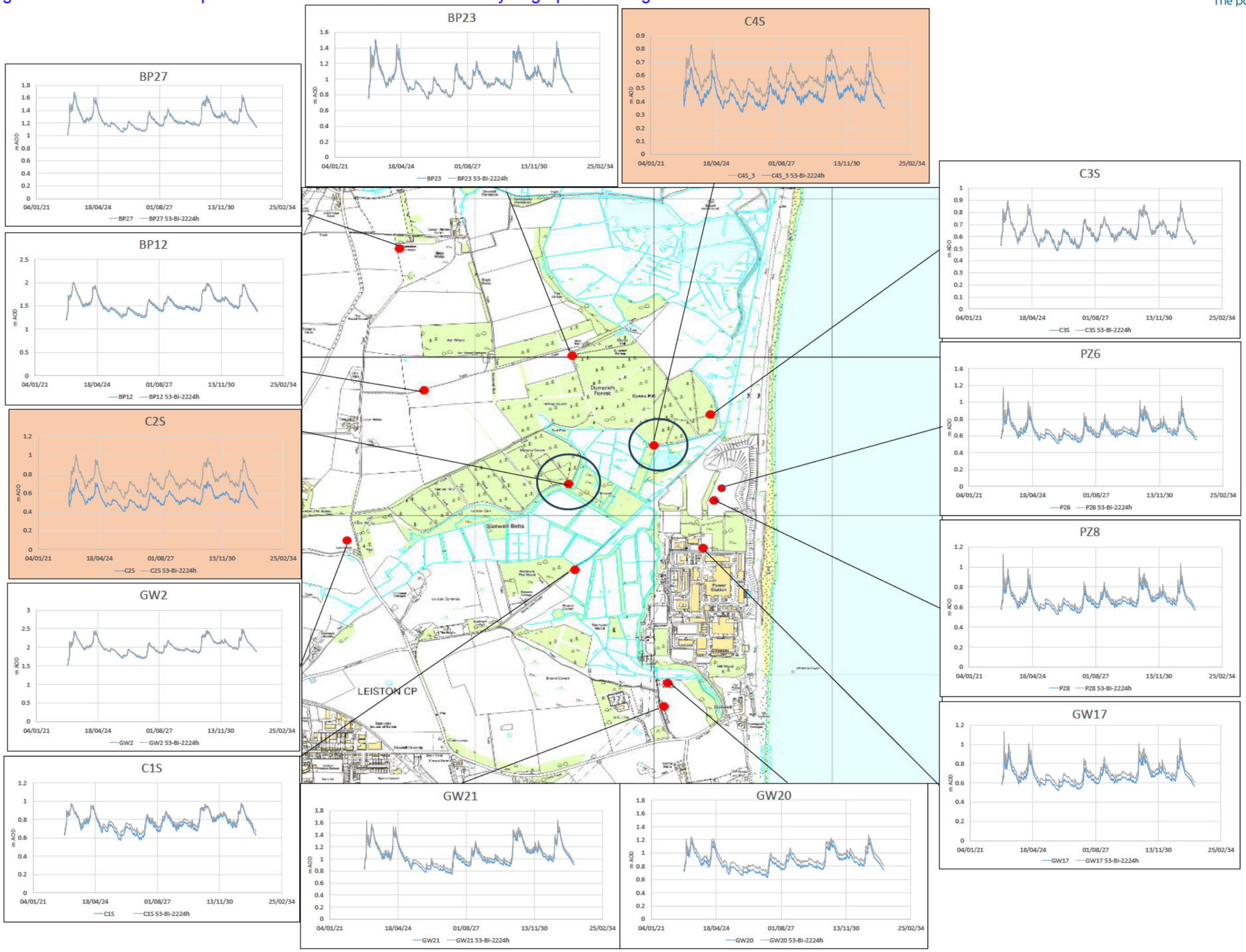
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A.1 (b) Original Baseline Model vs Updated Baseline Model Groundwater Hydrographs for Crag - 1



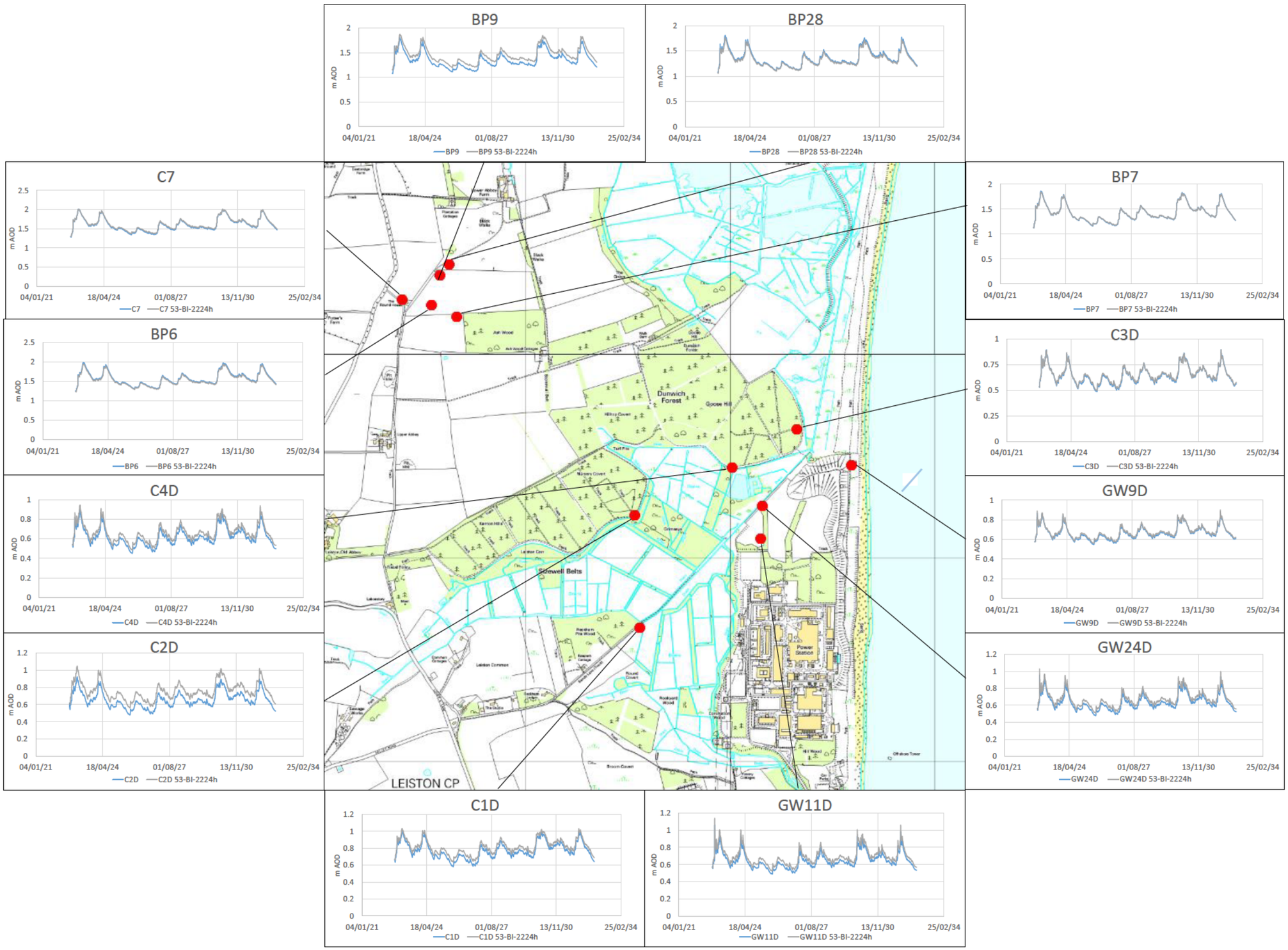
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A.1 (c) Original Baseline Model vs Updated Baseline Model Groundwater Hydrographs for Crag - 2



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A.1 (d) Original Baseline Model vs Updated Baseline Model Groundwater Hydrographs for Crag - 3

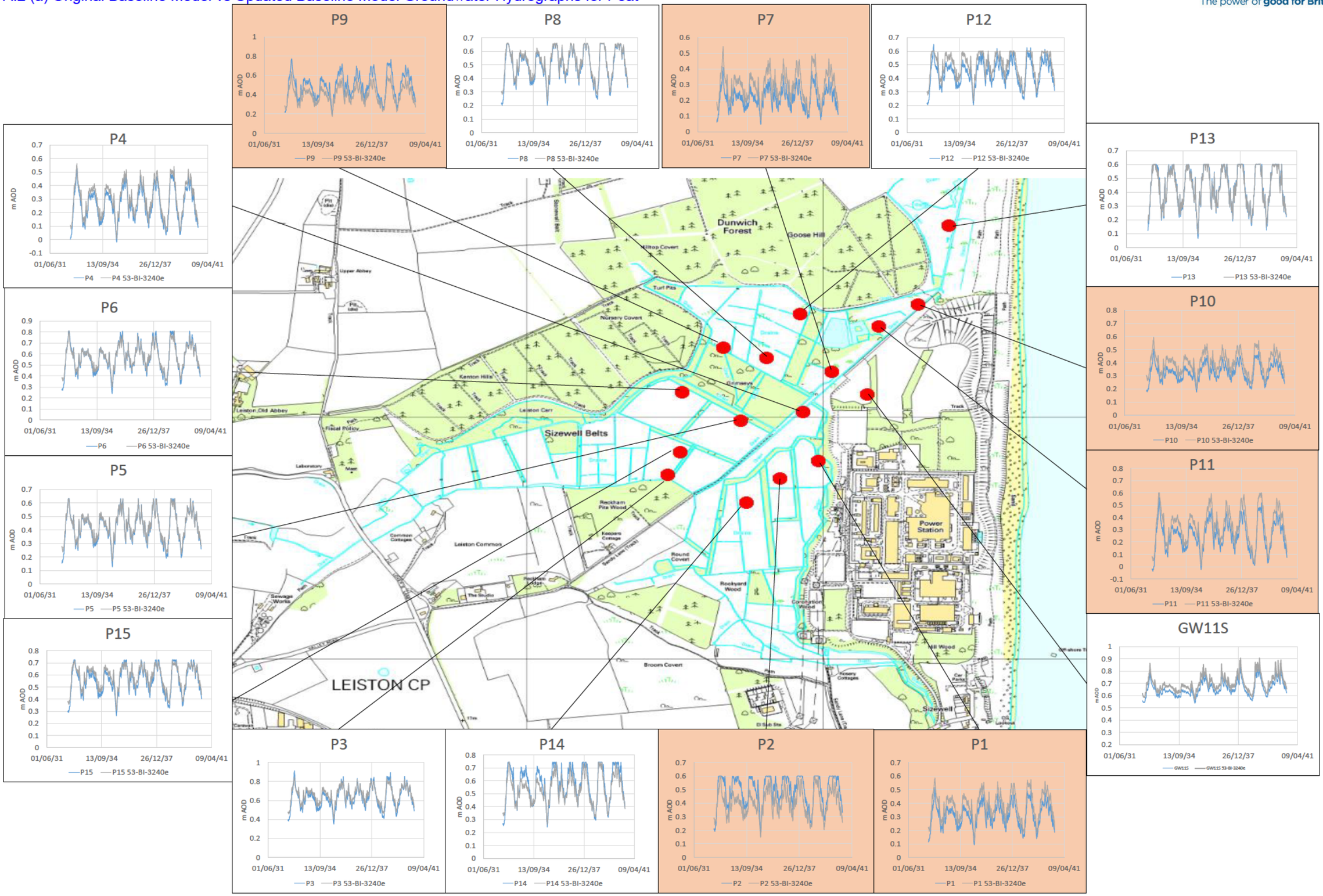


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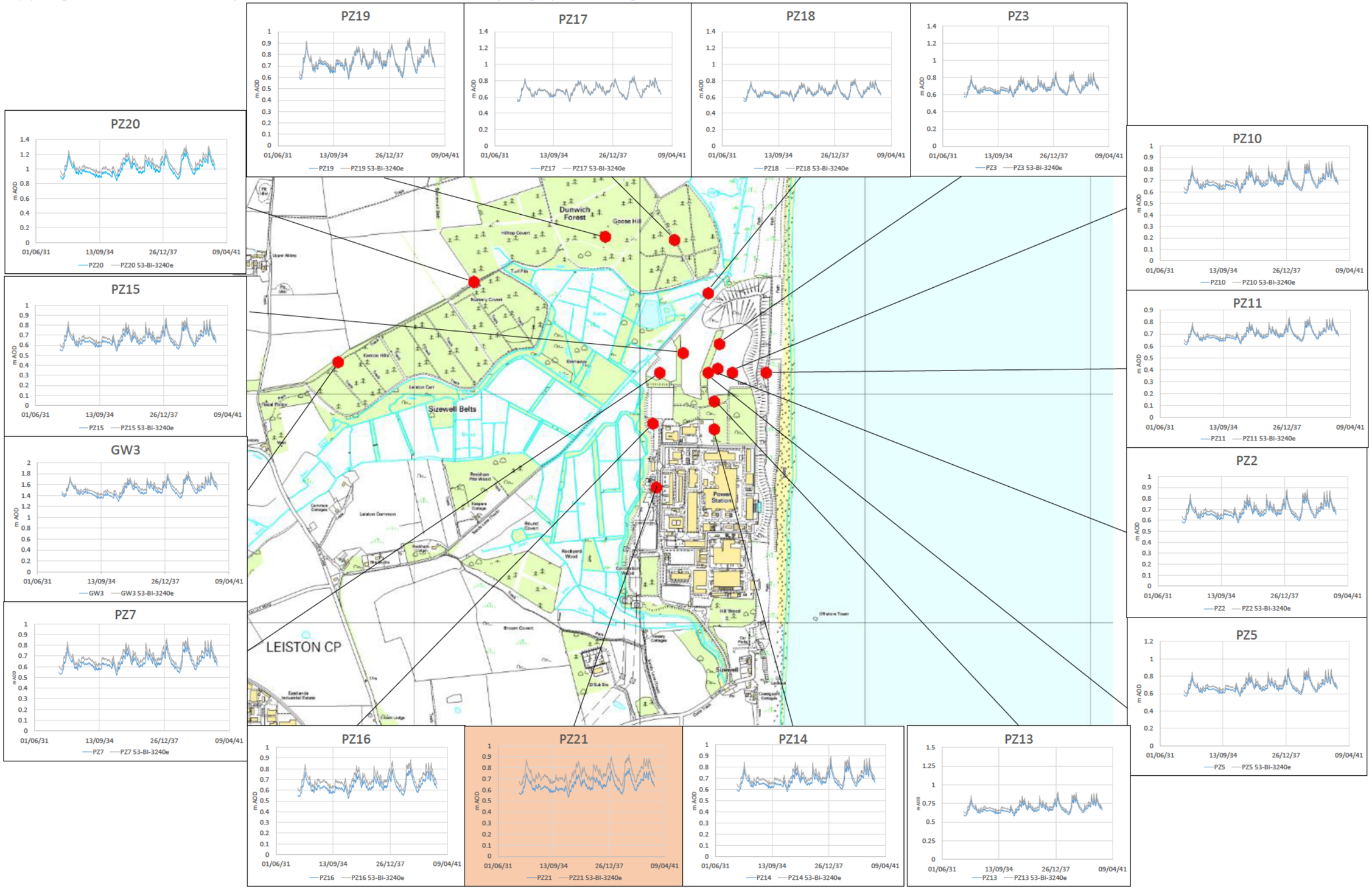
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A.2 (a) Original Baseline Model vs Updated Baseline Model Groundwater Hydrographs for Peat



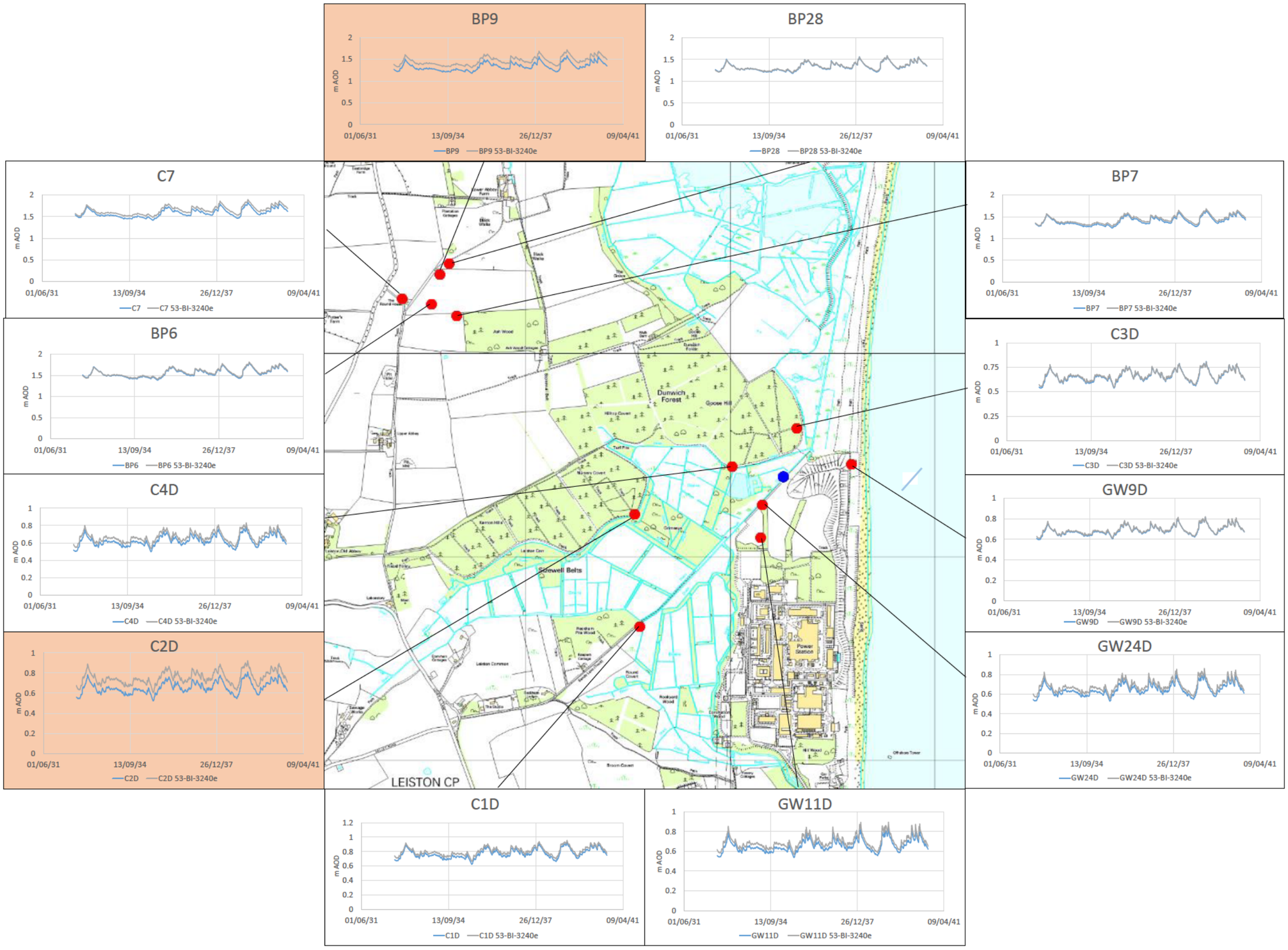
A.2 (b) Original Basline Model vs Updated Basline Model Groundwater Hydrographs for Crag - 1



A.2 (c) Original Baseline Model vs Updated Baseline Model Groundwater Hydrographs for Crag - 2



A.2 (d) Original Baseline Model vs Updated Baseline Model Groundwater Hydrographs for Crag - 3



Appendix B. Model Validation to Field Data

B.1 Discussion

Groundwater monitoring data was obtained for around 18 locations between 13 September 2022 and 8 Oct 2025. Data from these loggers has been presented and compared with the model head results. Observed data is plotted as orange lines in Appendix.B.2. In the Peat, as presented in the figure in Appendix B.2a, it is observed that field logger data of P15, P3 coincides with the Original and Updated DCO model heads for the first 1.5 yrs (Sep 2022 to Apr 2024). Beyond April 2024, model simulations are lower than the logger data of peat locations (especially P15, P3).

Modal simulation head levels are initially higher during September 2022 to June 2023 (Appendix B.2a) than field observed water heads at location P3, while matching during June 2023 to April 2024. A similar pattern of low heads during initial years (2022 – 2023) is observed in the Crag at C3S, C1S and C1D (Appendix B.2b). Modelled data match the available logger data at these locations during 2023 – 2025 period. Modelled head values from the Original model match with logger data at C2S, while the Updated DCO model indicates lower groundwater heads than observed during 2023 -2025 period.

These differences in model simulation heads and observed logger data is anticipated to be primarily a result of the modelling not considering the interaction between surface water and groundwater within the uncoupled modelling. Rainfall and corresponding recharges considered in the Updated DCO model are the same as within the Original model. The modelled rainfall and actual rainfall over the period are not the same which would also result in differences to the modelled groundwater data. Whilst the difference in the modelled rainfall data and actual data are present, as presented in Figure B.1, below, the rainfall data is generally similar.

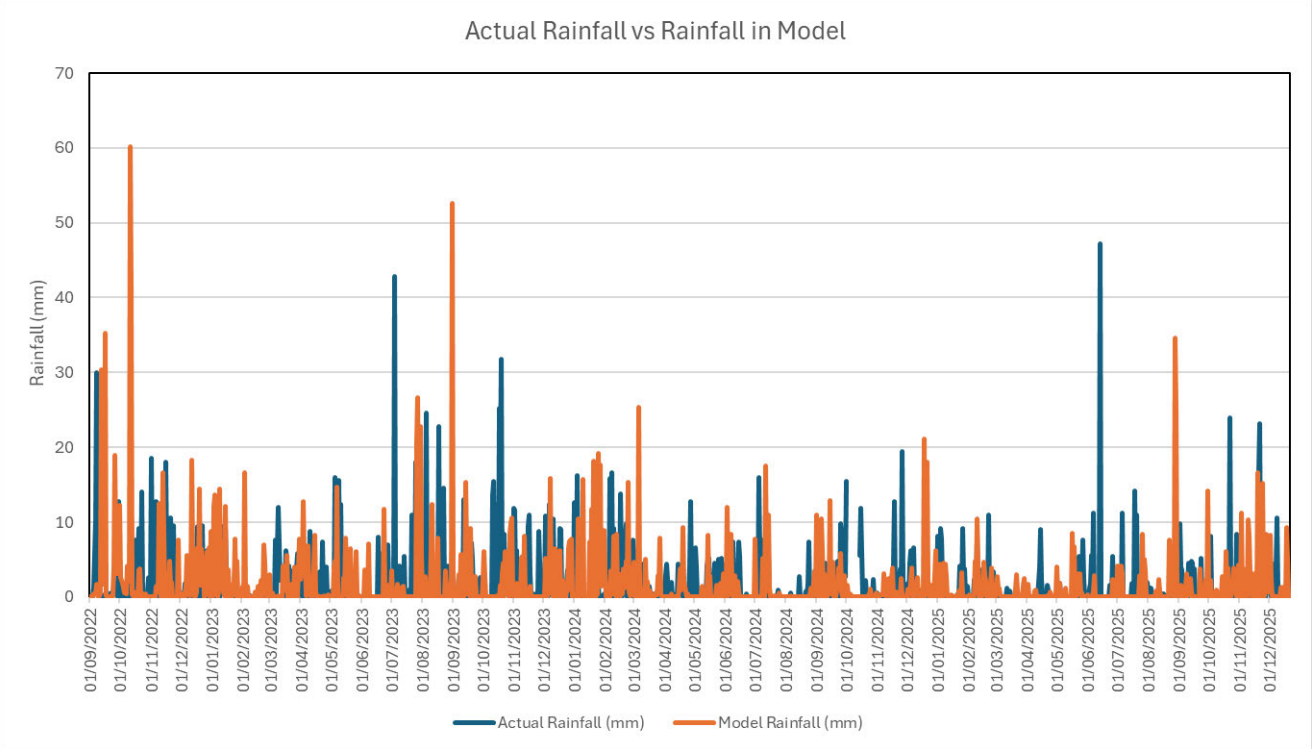


Figure B.1 – Modelled and actual rainfall, 2022-2025

Table B.1, below, presents a summary of some statistics of the rainfall data. The data is generally similar, with a similar mean and 75 percentile and a total rainfall across the period only differing by 42.7 mm, or approximately 2

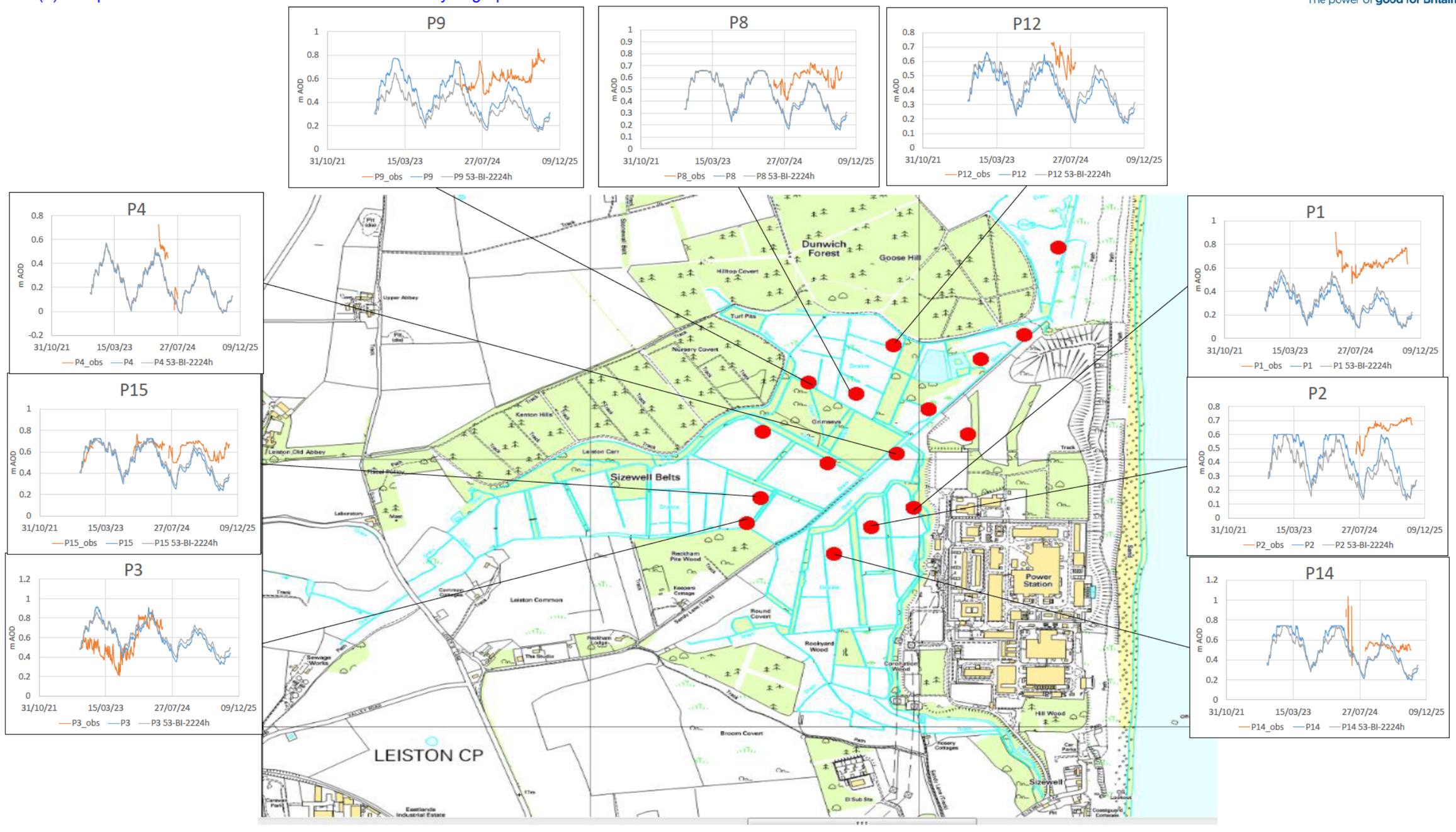
percent (%). The main difference is that within the actual rainfall there were 578 days with no rainfall reported, whilst the modelled rainfall data had only 325, nearly 50% lower. At a high level, the modelled data is likely to under-represent dry days and over represent light rainfall and extreme rainfall events/storms.

Table B.1 – Statistical summary for rainfall data

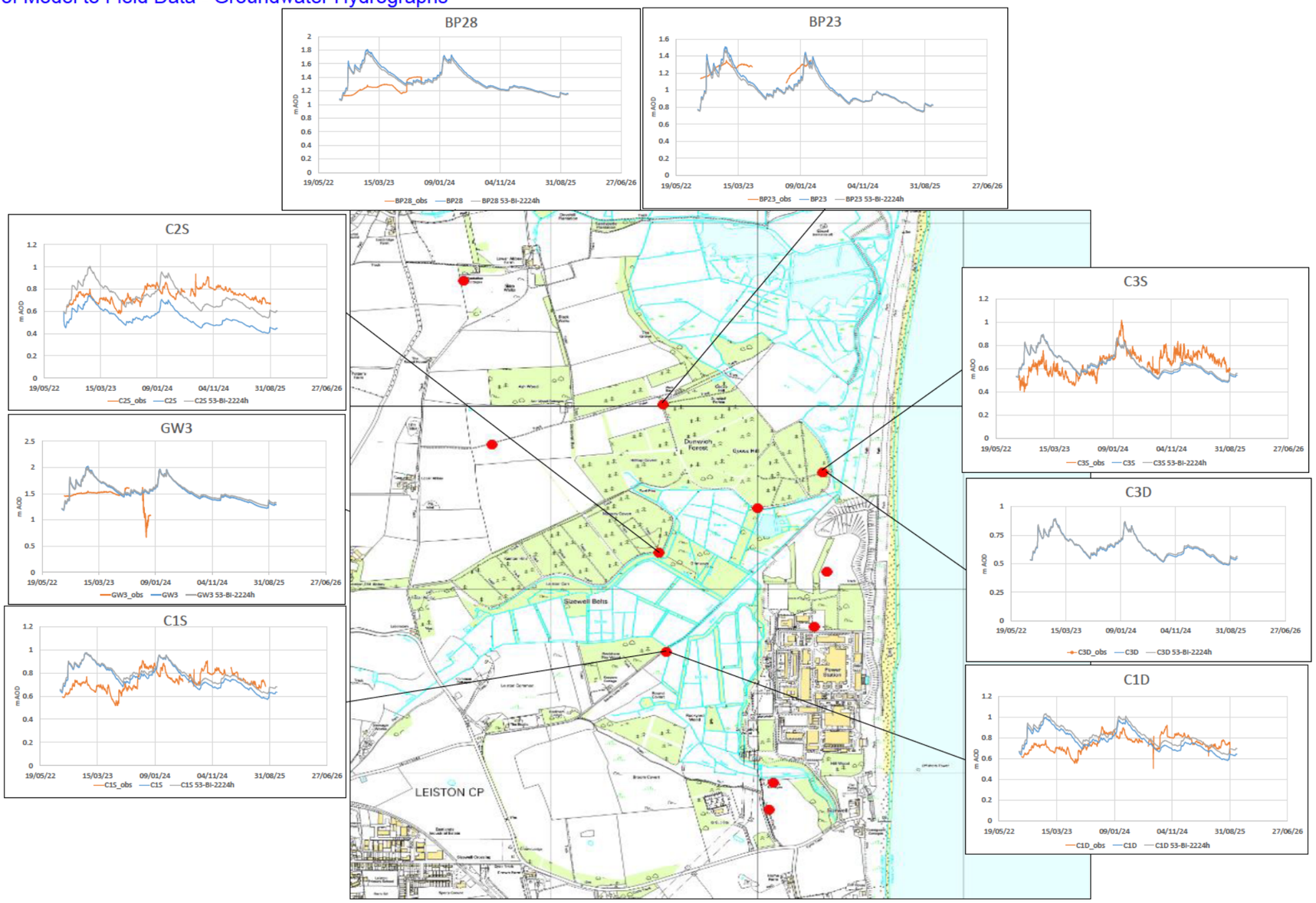
Criteria	Actual rainfall	Modelled Rainfall
Mean (mm per day)	1.81	1.81
Median (mm per day)	0.20	0.09
75th percentile (mm per day)	1.6	1.64
Total rainfall (mm)	2140	2187
Number of days with 0 rainfall (days)	578	325
Days of data (days)	1185	1208

B.2 Validation Hydrographs

B.2 (a) Comparison of Model to Field Data - Groundwater Hydrographs



B.2 (b) Comparison of Model to Field Data - Groundwater Hydrographs



Appendix C. Water balance

Water balance calculations have been completed on the following models: Original coupled, Original uncoupled and Updated without the TCA abstraction, for the whole domain, presented in Table C.1, below, for 2028 (during the construction phase). Table C.2 presents the water balance for the updated model without the TCA abstraction for 2036 (during the operational phase). The resulting imbalance for the Updated Model (without TCA abstraction) is 0.025% in 2028 and 0.07% in 2036, which are low. Within the 2028 water balance values, the imbalance for the Updated model is lower than the coupled or uncoupled Original model.

It should be noted that the water balance calculations have been completed via a simplistic method on the model output (DAC) file which records single weekly data points. Running the balance check at actual time steps on the full model results would likely result in lower imbalances than reported.

Table C.1 – Model water balance, 2028

Flow	Original Coupled Model		Original Uncoupled Model		Updated Model No TCA Abstraction	
	In (m^3)	Out (m^3)	In (m^3)	Out (m^3)	In (m^3)	Out (m^3)
Boundary conditions	1.04E+08	1.06E+08	1.04E+08	1.06E+08	2.10E+08	2.12E+08
Surface water / streams	5.69E+04	3.42E+05	4.11E+03	5.85E+05	7.47E+03	7.96E+05
Wells	-	1.38E+06	-	1.38E+06	-	1.41E+06
Rainfall recharge and up-flow from deep aquifer	3.03E+06	1.64E+06	3.03E+06	1.57E+06	2.97E+06	1.53E+06
Storage change	4.58E+06	2.17E+06	4.55E+06	2.14E+06	4.44E+06	2.07E+06
Totals	1.11E+08	1.11E+08	1.11E+08	1.11E+08	2.18E+08	2.18E+08
Imbalance (m^3)	4.80E+04		6.10E+04		5.52E+04	
Imbalance (%)	0.04		0.06		0.03	
BC inflows & outflows						
East (Sea)	8.11E+07	8.13E+07	8.11E+07	8.12E+07	1.71E+08	1.71E+08
West (Up hydraulic gradient)	1.87E+06	3.28E+04	1.88E+06	3.27E+04	2.39E+06	5.72E+04
North (Minsmere River)	7.33E+04	1.26E+06	7.33E+04	1.26E+06	3.30E+07	8.56E+06
South (River Alde)	2.06E+07	4.80E+05	2.06E+07	4.75E+05	3.47E+05	1.75E+06

Table C.2 – Model water balance, 2036

Flow	Updated Model No TCA Abstraction	
	In (m^3)	Out (m^3)
Boundary conditions	2.03E+08	2.05E+08
Surface water / streams	3.65E+03	1.01E+06
Wells	-	1.39E+06
Rainfall recharge and up-flow from deep aquifer	7.73E+06	1.23E+06
Storage change	3.81E+06	5.76E+06
Totals	2.14E+08	2.14E+08
Imbalance (m^3)	1.50E+05	
Imbalance (%)	0.07	
BC inflows & outflows		
East (Sea)	1.67E+08	1.67E+08
West (Up hydraulic gradient)	2.32E+06	9.02E+04
North (Minsmere River)	3.34E+07	8.68E+06
South (River Alde)	3.43E+05	1.83E+06

Rate budget graphs presenting recharge and evapotranspiration for the Updated model (without TCA abstraction) in 2028 and 2036 are presented in Figure C.1 and C.2 respectively.

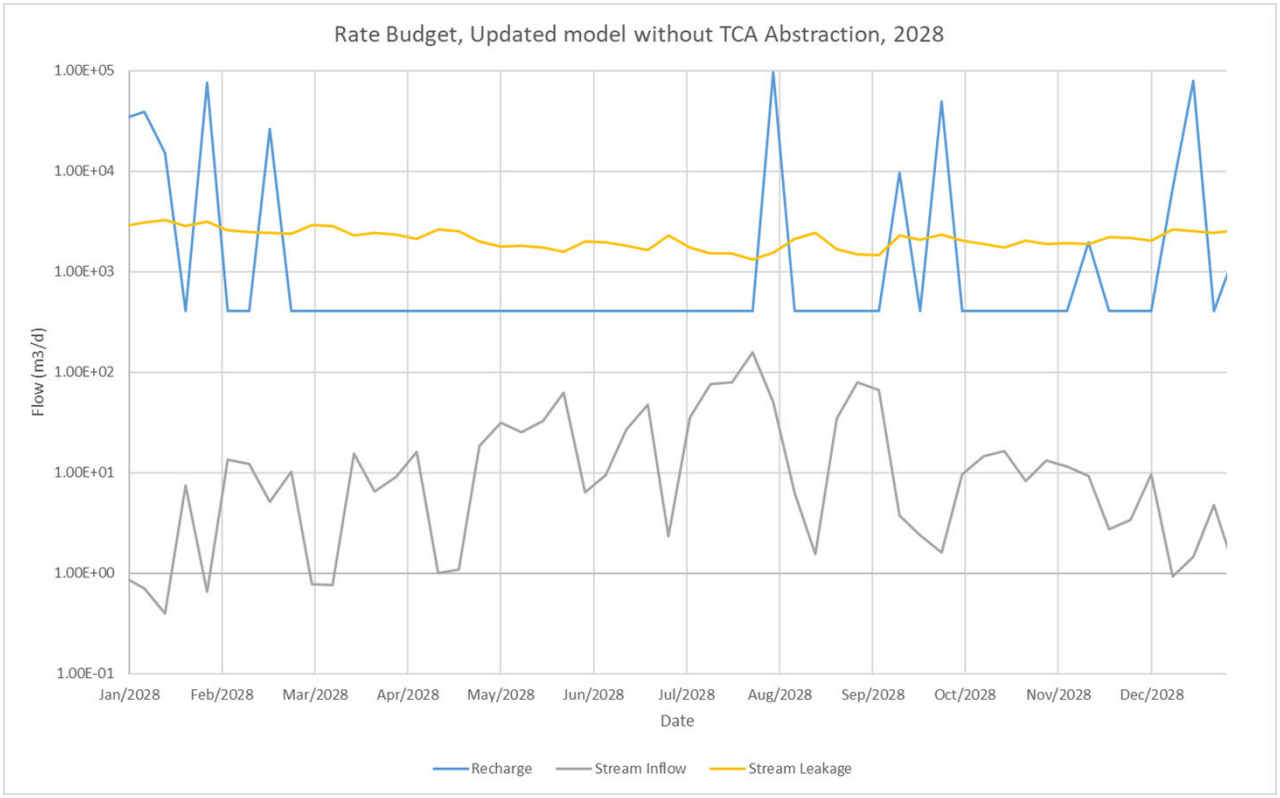


Figure C.1 – Rate Budget, Updated model without TCA Abstraction, 2028

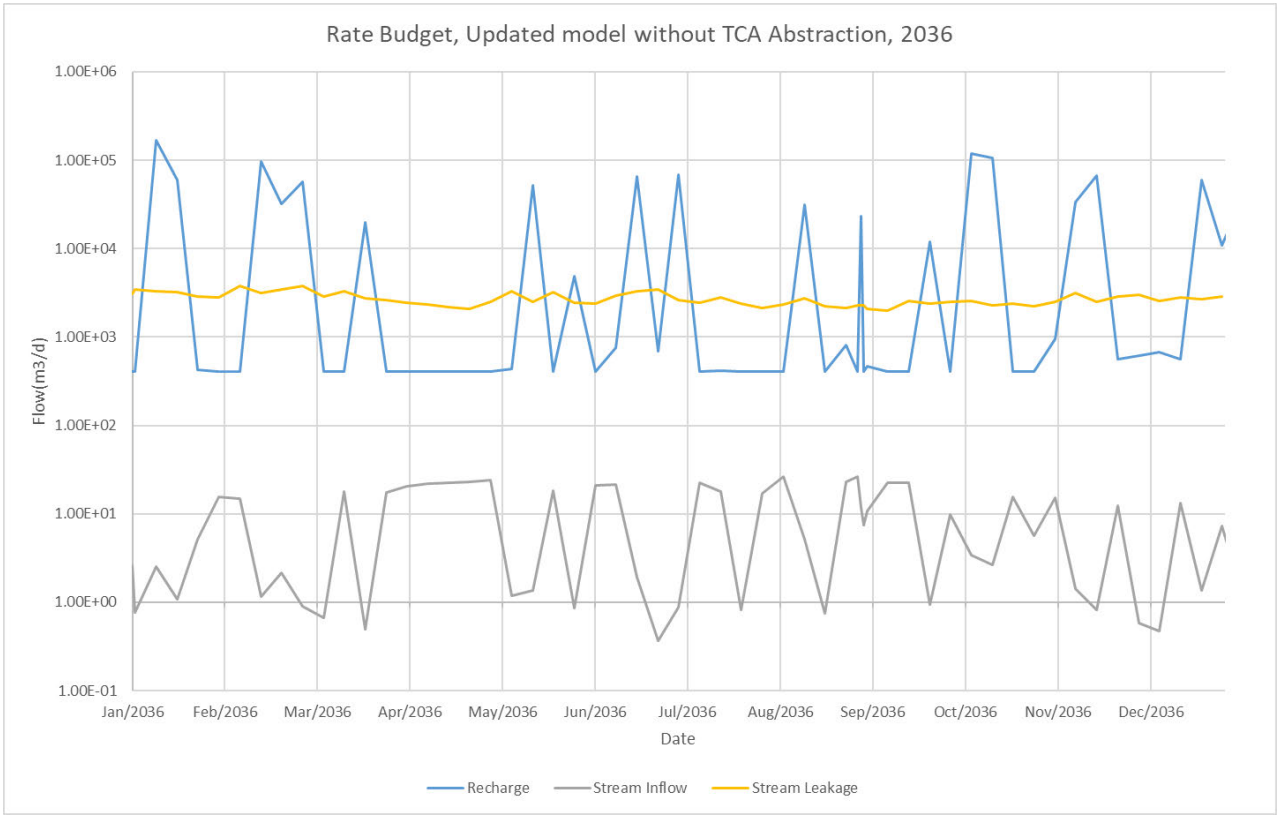
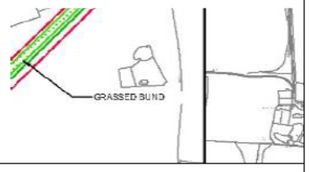


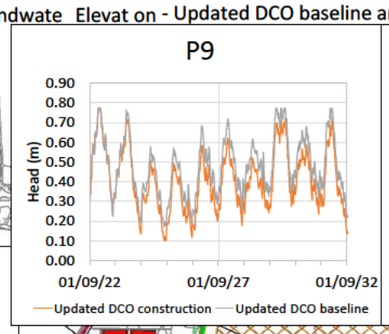
Figure C.2 – Rate Budget, Updated model without TCA Abstraction, 2036

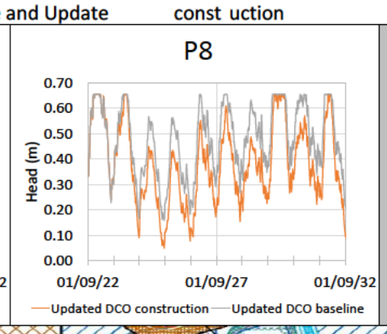
Appendix D. Hydrographs – Updated DCO and Original DCO

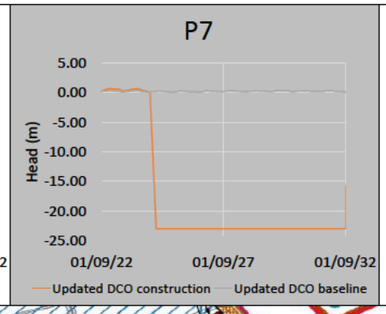
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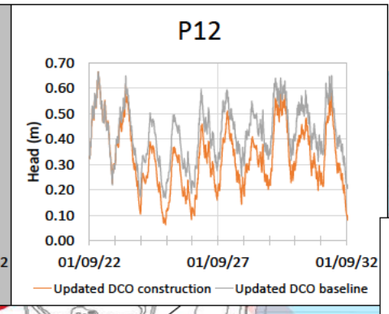
App ndix D.1 - Comparison of Groundwate Elevat on - Updated DCO baseline and Update const uction

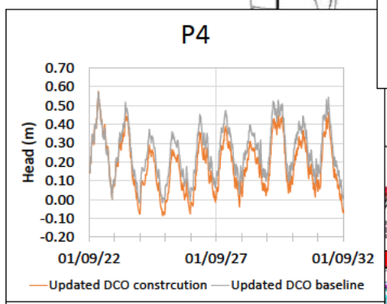


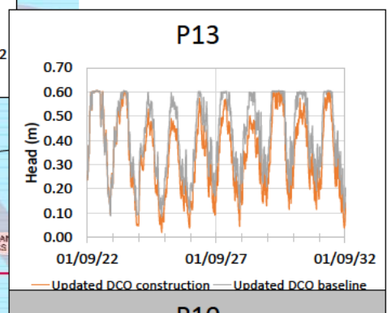


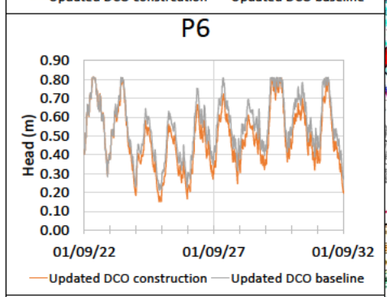


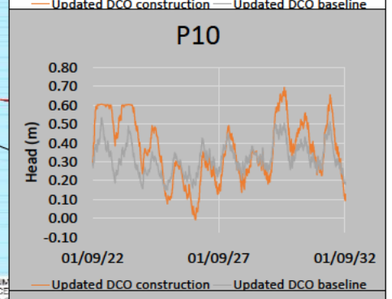


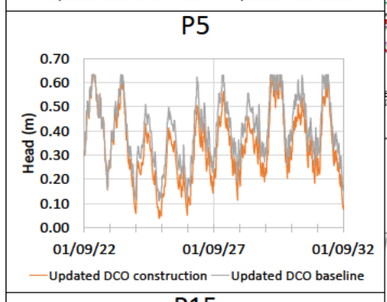


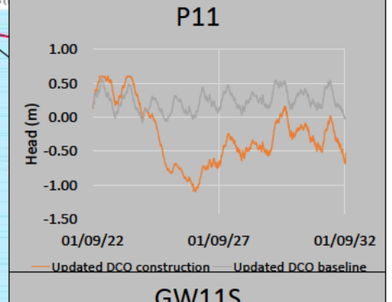


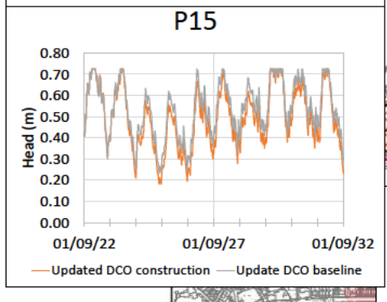


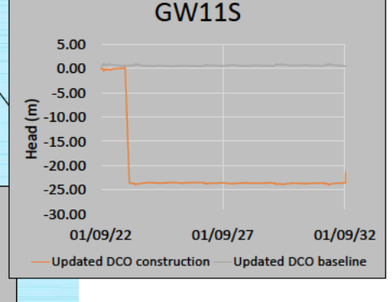


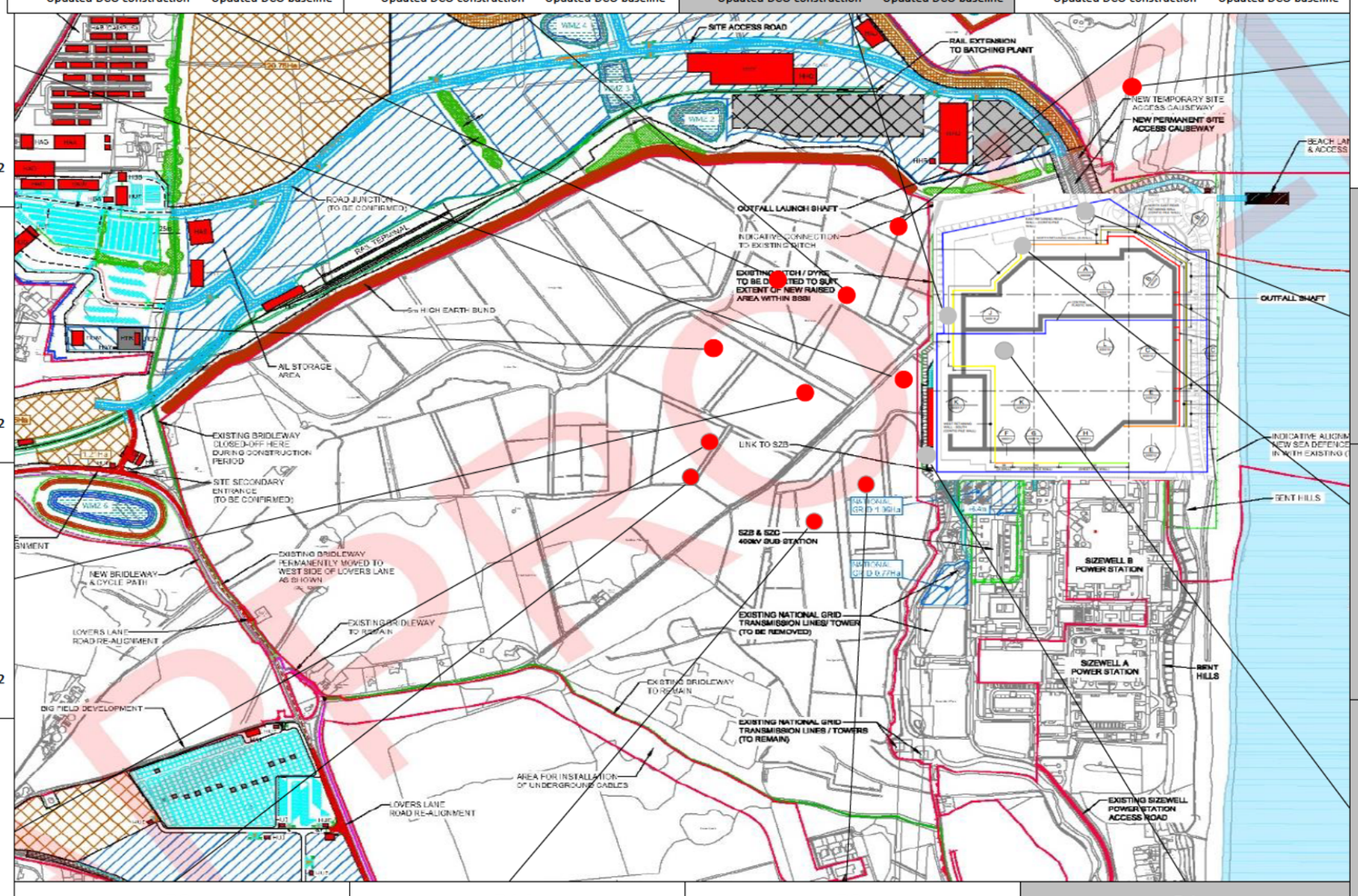


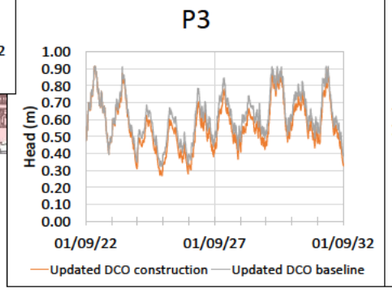


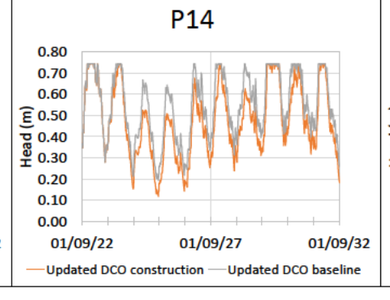


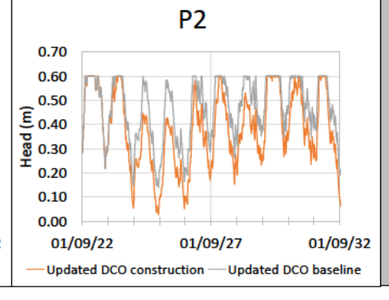


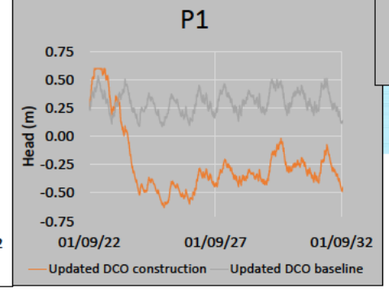




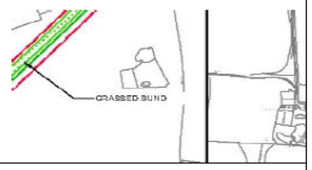


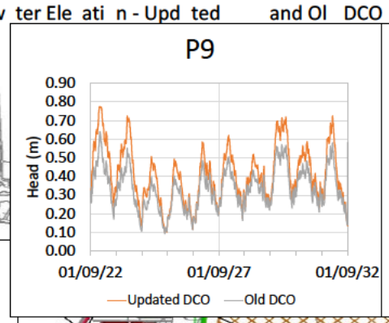


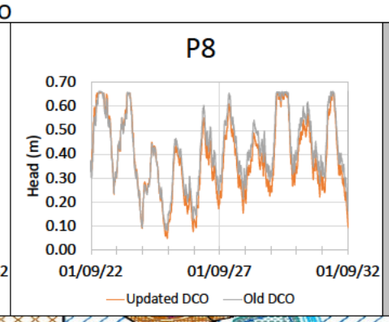


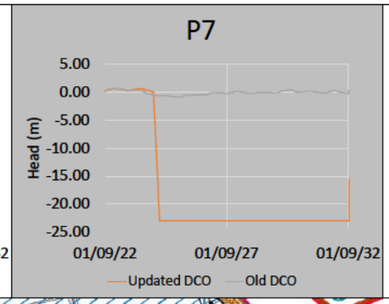


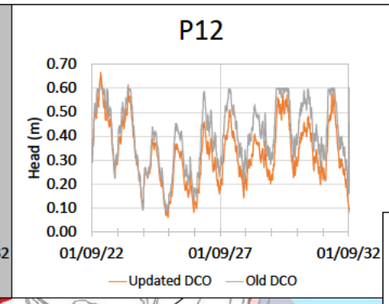
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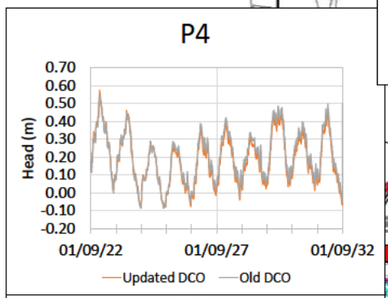

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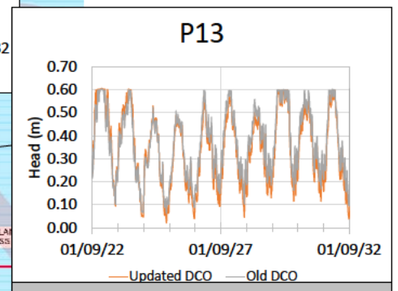

P9
Head (m)
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01/09/22 01/09/27 01/09/32
Updated DCO Old DCO

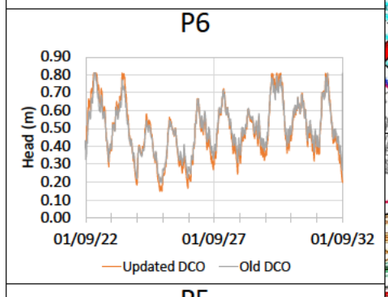

P8
Head (m)
0.70 0.60 0.50 0.40 0.30 0.20 0.10 0.00
01/09/22 01/09/27 01/09/32
Updated DCO Old DCO

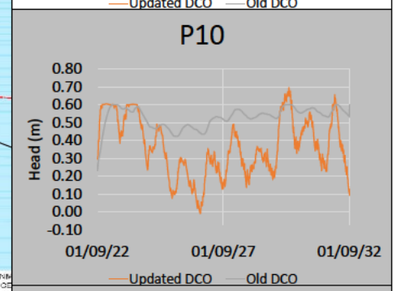

P7
Head (m)
5.00 0.00 -5.00 -10.00 -15.00 -20.00 -25.00
01/09/22 01/09/27 01/09/32
Updated DCO Old DCO

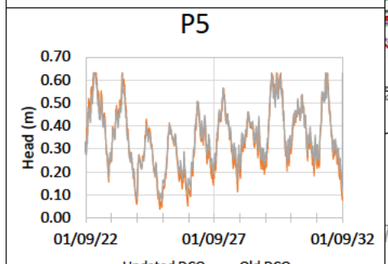

P12
Head (m)
0.70 0.60 0.50 0.40 0.30 0.20 0.10 0.00
01/09/22 01/09/27 01/09/32
Updated DCO Old DCO

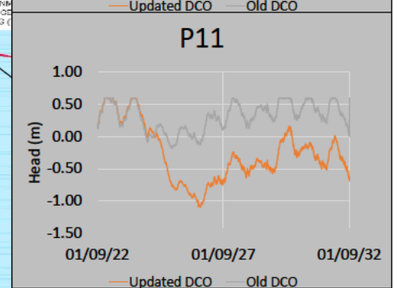

P4
Head (m)
0.70 0.60 0.50 0.40 0.30 0.20 0.10 0.00 -0.10 -0.20
01/09/22 01/09/27 01/09/32
Updated DCO Old DCO

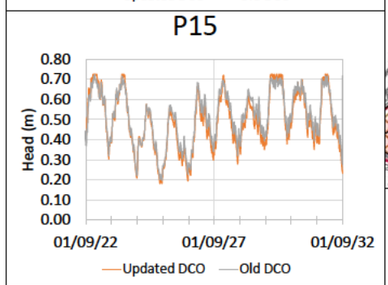

P13
Head (m)
0.70 0.60 0.50 0.40 0.30 0.20 0.10 0.00
01/09/22 01/09/27 01/09/32
Updated DCO Old DCO

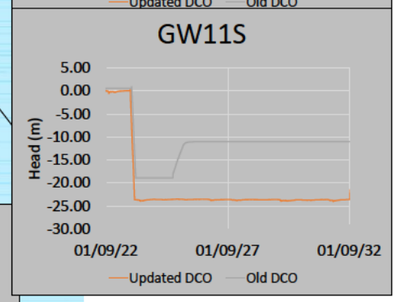

P6
Head (m)
0.90 0.80 0.70 0.60 0.50 0.40 0.30 0.20 0.10 0.00
01/09/22 01/09/27 01/09/32
Updated DCO Old DCO

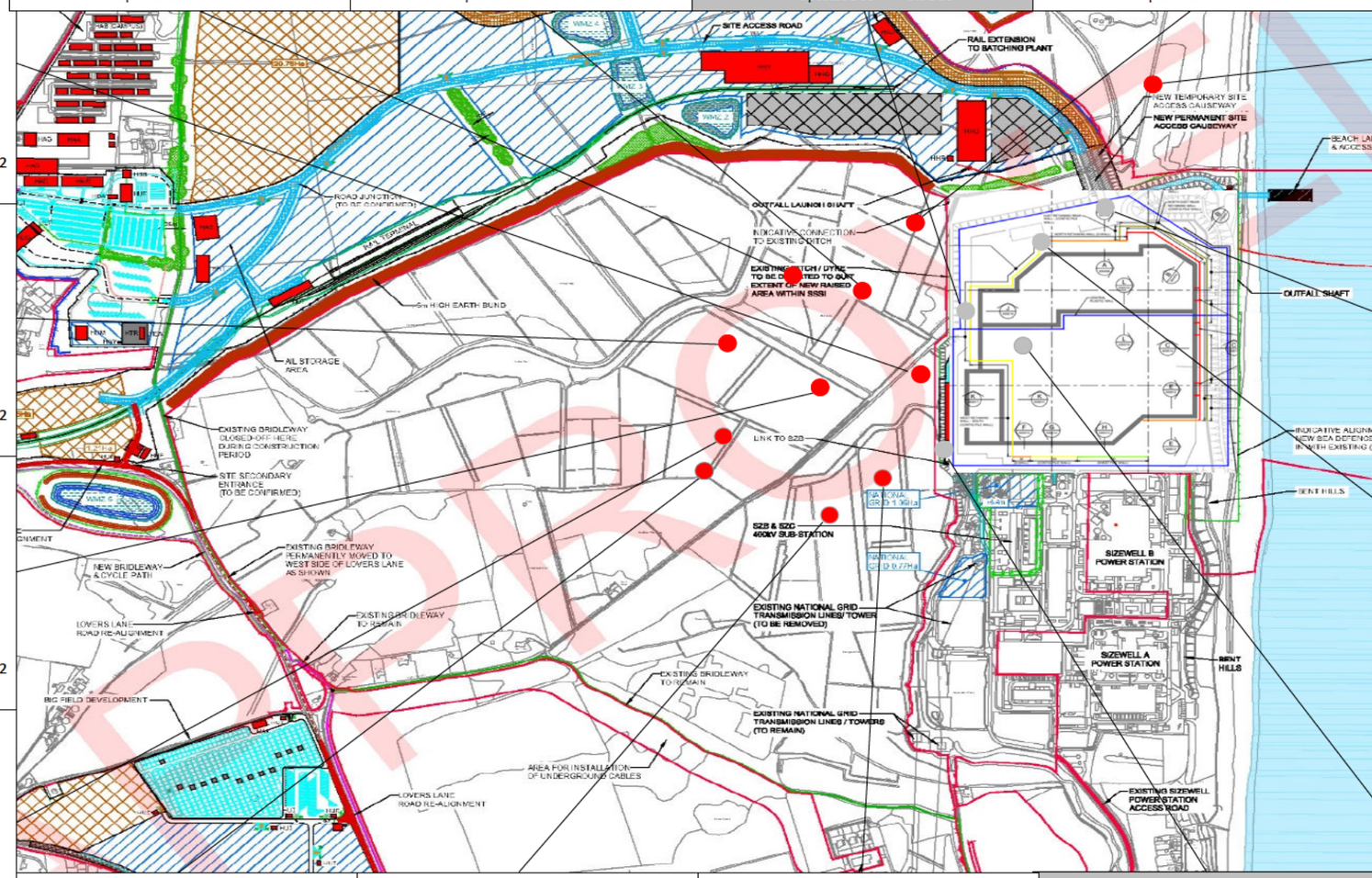

P10
Head (m)
0.80 0.70 0.60 0.50 0.40 0.30 0.20 0.10 0.00 -0.10
01/09/22 01/09/27 01/09/32
Updated DCO Old DCO

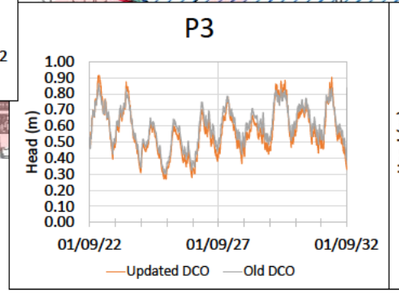

P5
Head (m)
0.70 0.60 0.50 0.40 0.30 0.20 0.10 0.00
01/09/22 01/09/27 01/09/32
Updated DCO Old DCO

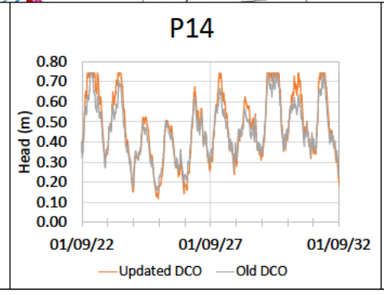

P11
Head (m)
1.00 0.50 0.00 -0.50 -1.00 -1.50
01/09/22 01/09/27 01/09/32
Updated DCO Old DCO

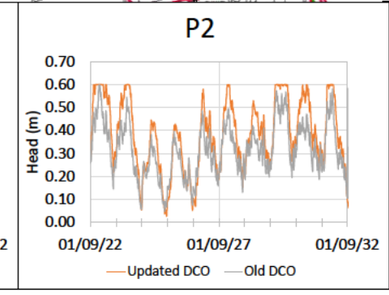

P15
Head (m)
0.80 0.70 0.60 0.50 0.40 0.30 0.20 0.10 0.00
01/09/22 01/09/27 01/09/32
Updated DCO Old DCO

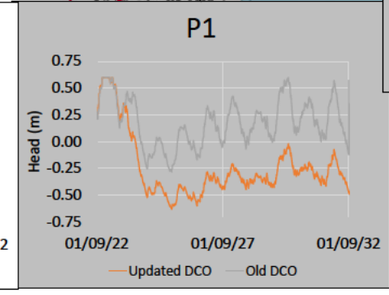

GW11S
Head (m)
5.00 0.00 -5.00 -10.00 -15.00 -20.00 -25.00 -30.00
01/09/22 01/09/27 01/09/32
Updated DCO Old DCO

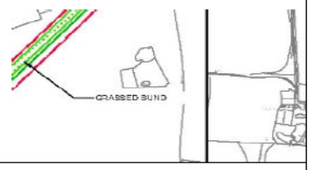

SITE ACCESS ROAD
RAIL EXTENSION TO BATCHING PLANT
NEW TEMPORARY SITE ACCESS CAUSEWAY
NEW PERMANENT SITE ACCESS CAUSEWAY
OUTFALL LAUNCH SHAFT
INDICATIVE CONNECTION TO EXISTING DITCH
OUTFALL SHAFT
5m HIGH EARTH BUND
ROAD JUNCTION (TO BE CONFIRMED)
EXISTING BRIDLEWAY CLOSED OFF HERE DURING CONSTRUCTION PERIOD
SITE SECONDARY ENTRANCE (TO BE CONFIRMED)
NEW BRIDLEWAY & CYCLE PATH
EXISTING BRIDLEWAY PERMANENTLY MOVED TO WEST SIDE OF LOVERS LANE AS SHOWN
LOVERS LANE ROAD RE-ALIGNMENT
EXISTING BRIDLEWAY TO REMAIN
BIG FIELD DEVELOPMENT
AREA FOR INSTALLATION OF UNDERGROUND CABLES
LINK TO SZB
SZB & SZC 400kV SUB-STATION
EXISTING NATIONAL GRID TRANSMISSION LINES/ TOWER (TO BE REMOVED)
EXISTING NATIONAL GRID TRANSMISSION LINES / TOWERS (TO REMAIN)
SIZEWELL B POWER STATION
SIZEWELL A POWER STATION
EXISTING SIZEWELL POWER STATION ACCESS ROAD
BENT HILLS

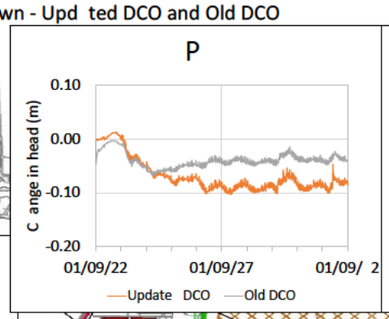

P3
Head (m)
1.00 0.90 0.80 0.70 0.60 0.50 0.40 0.30 0.20 0.10 0.00
01/09/22 01/09/27 01/09/32
Updated DCO Old DCO

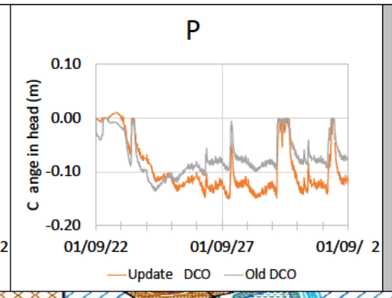

P14
Head (m)
0.80 0.70 0.60 0.50 0.40 0.30 0.20 0.10 0.00
01/09/22 01/09/27 01/09/32
Updated DCO Old DCO

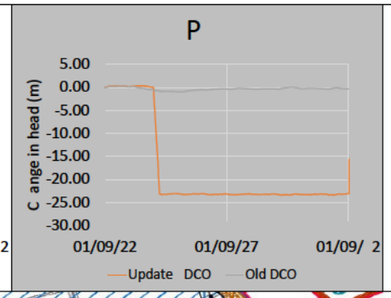

P2
Head (m)
0.70 0.60 0.50 0.40 0.30 0.20 0.10 0.00
01/09/22 01/09/27 01/09/32
Updated DCO Old DCO

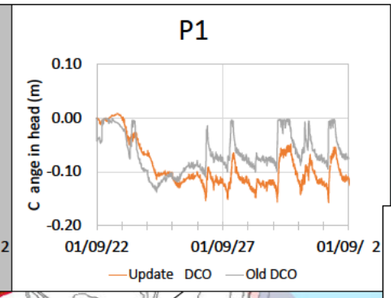

P1
Head (m)
0.75 0.50 0.25 0.00 -0.25 -0.50 -0.75
01/09/22 01/09/27 01/09/32
Updated DCO Old DCO

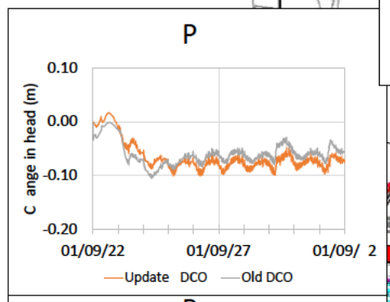

GRASSED BUND

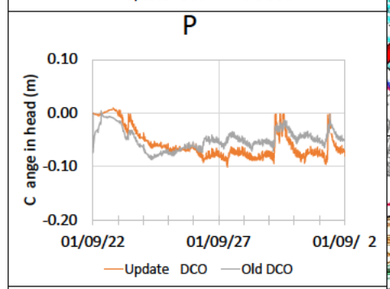

P
C ange in head (m)
0.10
0.00
-0.10
-0.20
01/09/22
01/09/27
01/09/ 2
Update DCO Old DCO

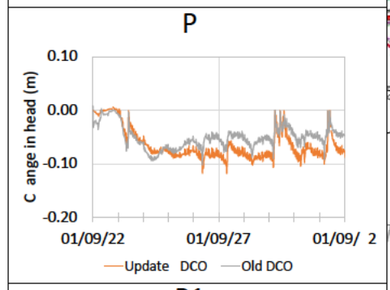

P
C ange in head (m)
0.10
0.00
-0.10
-0.20
01/09/22
01/09/27
01/09/ 2
Update DCO Old DCO

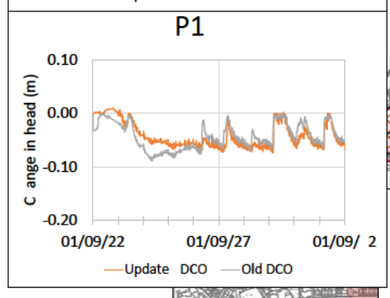

P
C ange in head (m)
5.00
0.00
-5.00
-10.00
-15.00
-20.00
-25.00
-30.00
01/09/22
01/09/27
01/09/ 2
Update DCO Old DCO

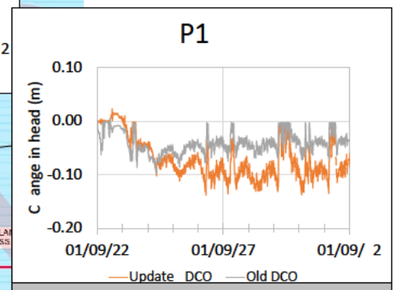

P1
C ange in head (m)
0.10
0.00
-0.10
-0.20
01/09/22
01/09/27
01/09/ 2
Update DCO Old DCO

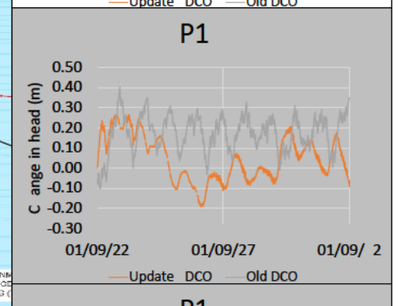

P
C ange in head (m)
0.10
0.00
-0.10
-0.20
01/09/22
01/09/27
01/09/ 2
Update DCO Old DCO

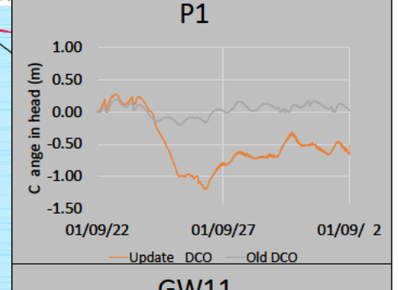

P
C ange in head (m)
0.10
0.00
-0.10
-0.20
01/09/22
01/09/27
01/09/ 2
Update DCO Old DCO

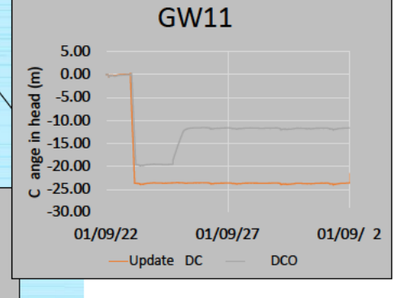

P
C ange in head (m)
0.10
0.00
-0.10
-0.20
01/09/22
01/09/27
01/09/ 2
Update DCO Old DCO

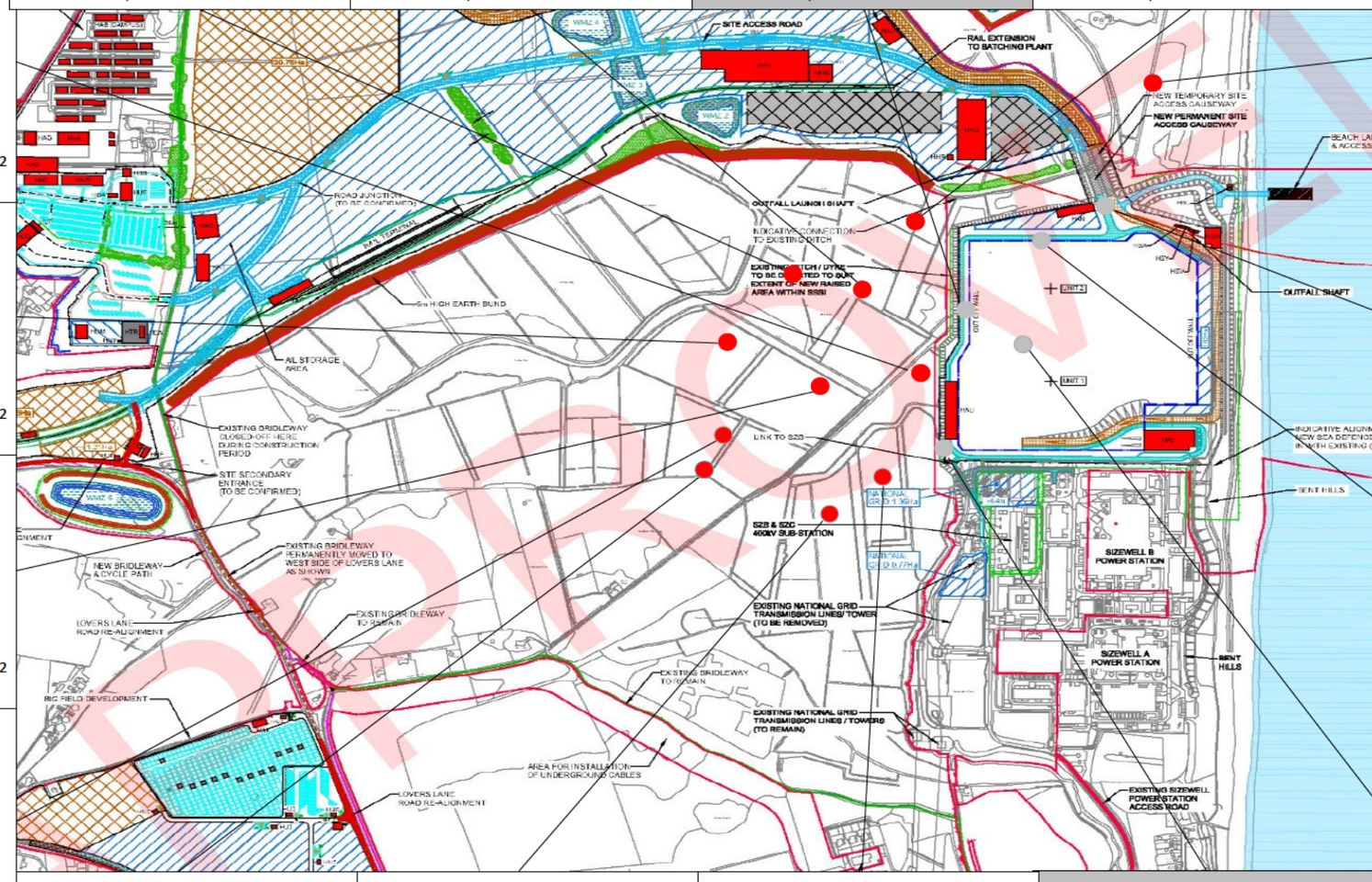

P1
C ange in head (m)
0.10
0.00
-0.10
-0.20
01/09/22
01/09/27
01/09/ 2
Update DCO Old DCO

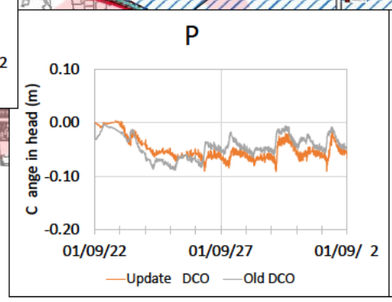

P1
C ange in head (m)
0.10
0.00
-0.10
-0.20
01/09/22
01/09/27
01/09/ 2
Update DCO Old DCO

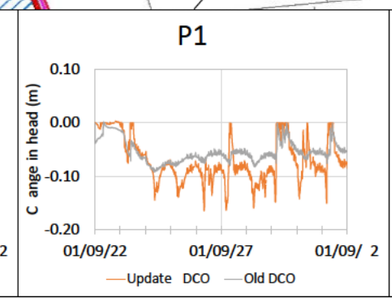

P1
C ange in head (m)
0.50
0.40
0.30
0.20
0.10
0.00
-0.10
-0.20
-0.30
01/09/22
01/09/27
01/09/ 2
Update DCO Old DCO

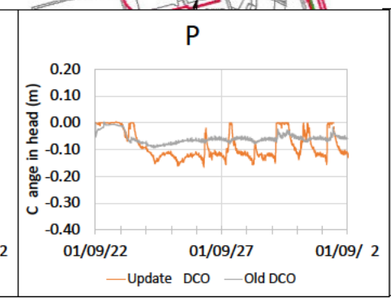

P1
C ange in head (m)
1.00
0.50
0.00
-0.50
-1.00
-1.50
01/09/22
01/09/27
01/09/ 2
Update DCO Old DCO

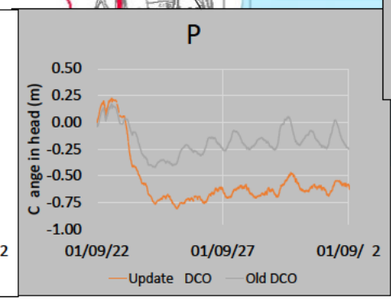

GW11
C ange in head (m)
5.00
0.00
-5.00
-10.00
-15.00
-20.00
-25.00
-30.00
01/09/22
01/09/27
01/09/ 2
Update DC DCO


SITE ACCESS ROAD
RAIL EXTENSION TO BATCHING PLANT
NEW TEMPORARY SITE ACCESS CAUSEWAY
NEW PERMANENT SITE ACCESS CAUSEWAY
OUTFALL LAUNCH SHAFT
INDICATIVE CONNECTION TO EXISTING DITCH
OUTFALL SHAFT
5m HIGH EARTH BUND
ROAD JUNCTION TO BE CONFIRMED
RAIL TERMINAL
AIL STORAGE AREA
EXISTING BRIDLEWAY CLOSED OFF HERE DURING CONSTRUCTION PERIOD
SITE SECONDARY ENTRANCE (TO BE CONFIRMED)
NEW BRIDLEWAY & CYCLE PATH
EXISTING BRIDLEWAY PERMANENTLY MOVED TO WEST SIDE OF LOVERS LANE AS SHOWN
EXISTING BRIDLEWAY TO REMAIN
LOVERS LANE ROAD RE-ALIGNMENT
BIG FIELD DEVELOPMENT
LINK TO B23
SIZEWELL B POWER STATION
SIZEWELL A POWER STATION
SIZEWELL C
SIZEWELL B
SIZEWELL A
SZB & SZC 400kV SUB-STATION
EXISTING NATIONAL GRID TRANSMISSION LINES/ TOWER (TO BE REMOVED)
EXISTING NATIONAL GRID TRANSMISSION LINES / TOWERS (TO REMAIN)
AREA FOR INSTALLATION OF UNDERGROUND CABLES
EXISTING SIZEWELL POWER STATION ACCESS ROAD
BENT HILLS


P
C ange in head (m)
0.10
0.00
-0.10
-0.20
01/09/22
01/09/27
01/09/ 2
Update DCO Old DCO


P1
C ange in head (m)
0.10
0.00
-0.10
-0.20
01/09/22
01/09/27
01/09/ 2
Update DCO Old DCO

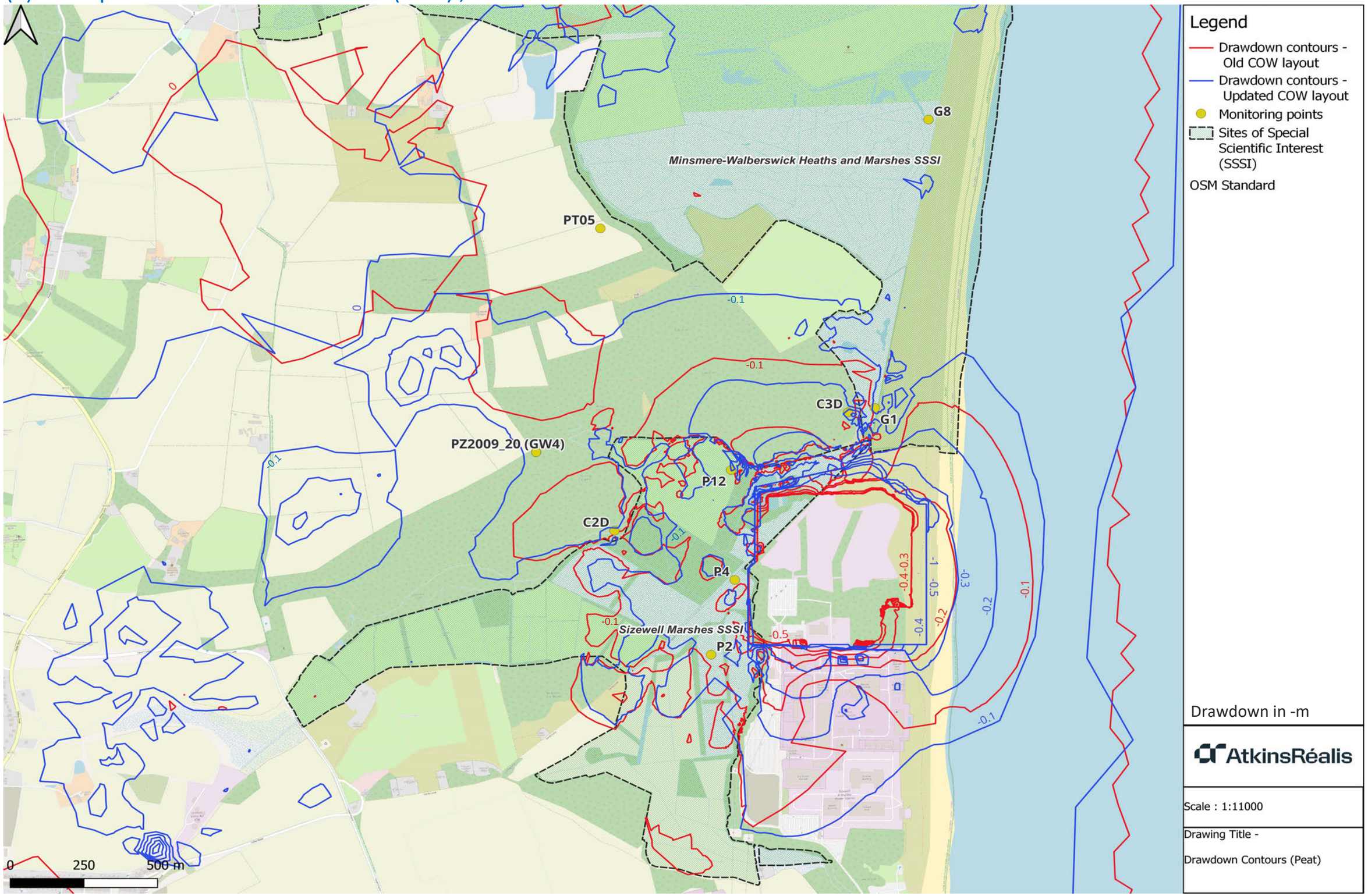

P
C ange in head (m)
0.20
0.10
0.00
-0.10
-0.20
-0.30
-0.40
01/09/22
01/09/27
01/09/ 2
Update DCO Old DCO


P
C ange in head (m)
0.50
0.25
0.00
-0.25
-0.50
-0.75
-1.00
01/09/22
01/09/27
01/09/ 2
Update DCO Old DCO

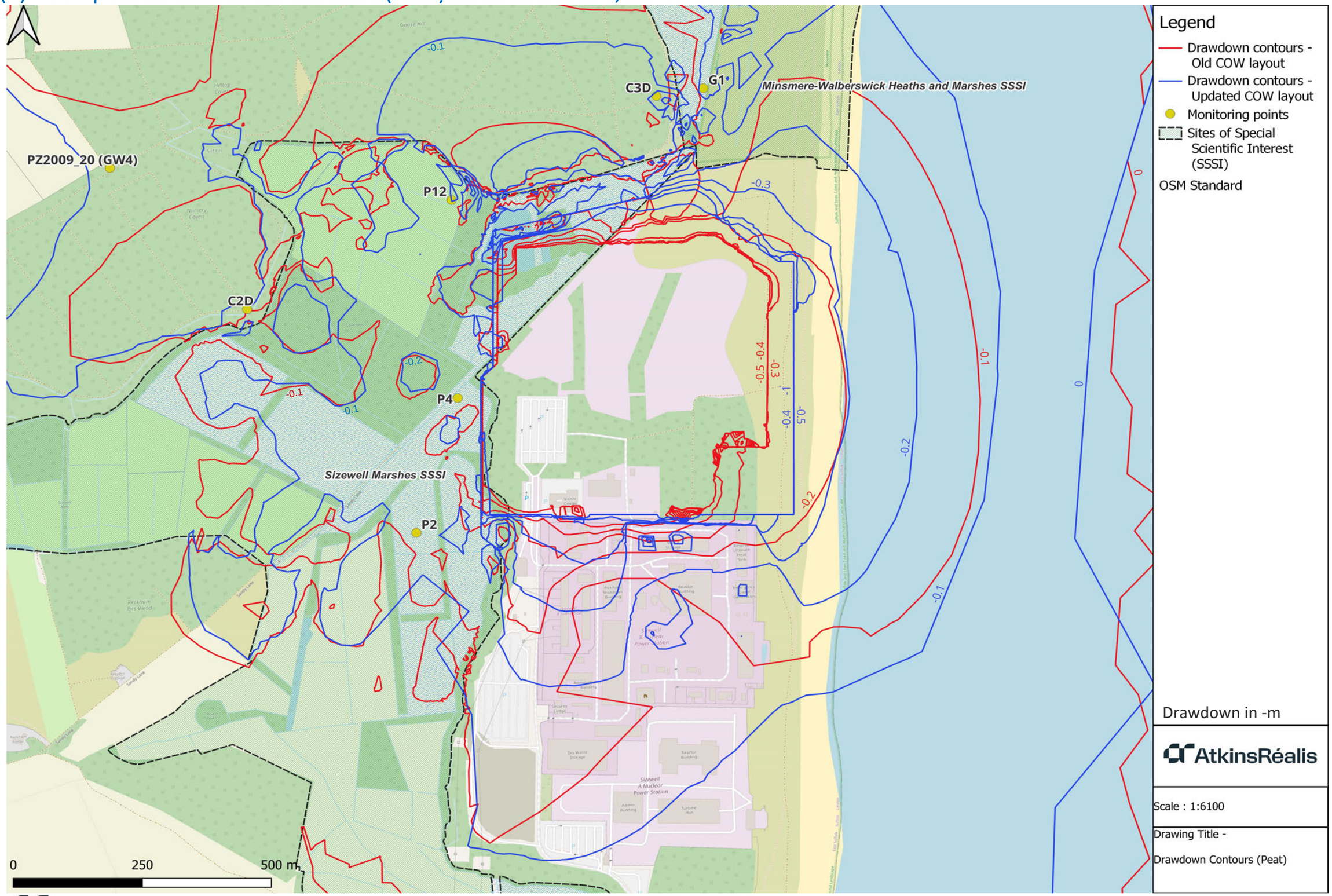
Appendix E. Contours Plots

Appendix E - Contour plots

(1) - Comparison drawdown contours (Peat) , No TCA abstraction

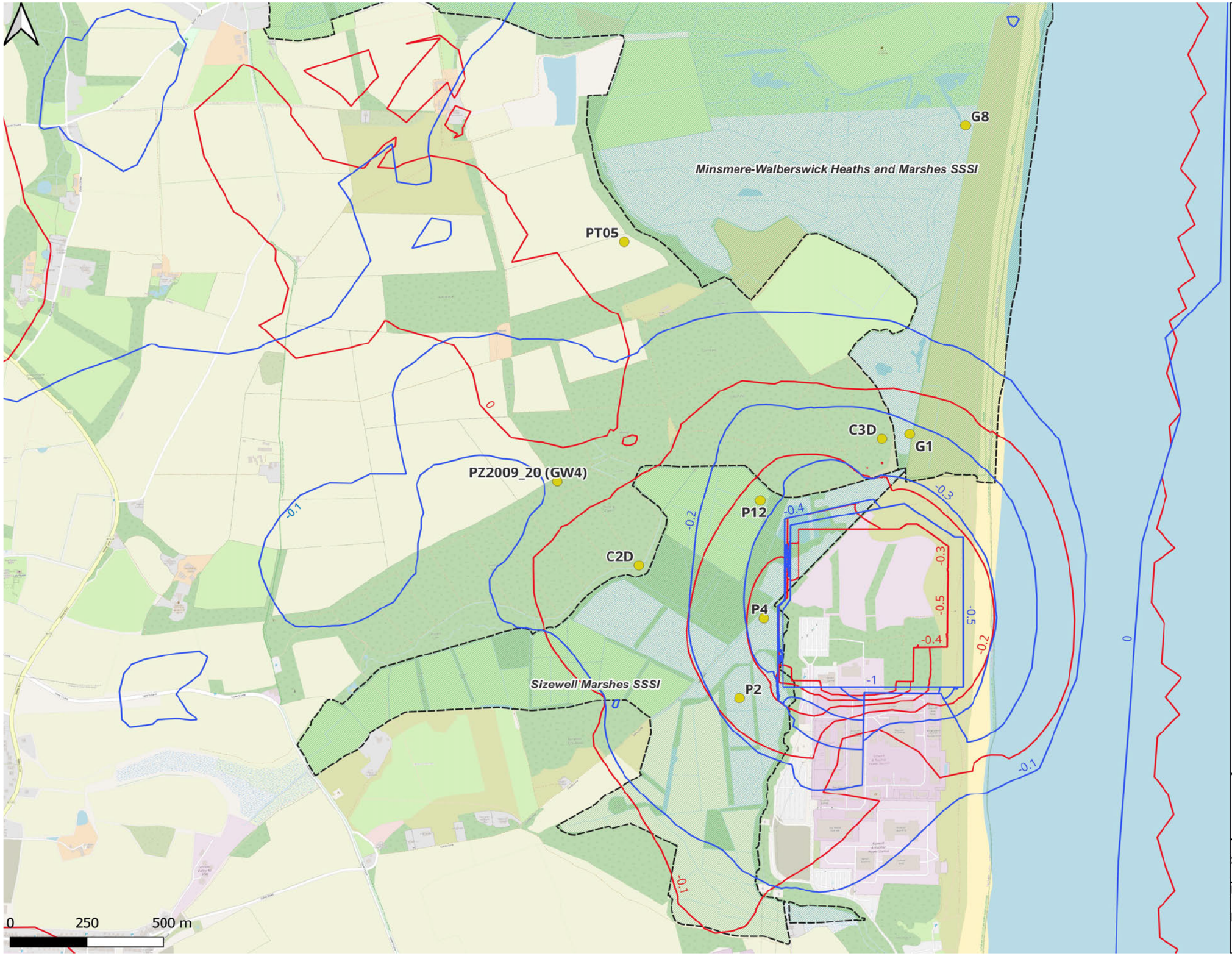


(2) - Comparison drawdown contours (Peat) Sizewell B and C, No TCA abstraction



(3) - Comparison drawdown contours (Crag), No TCA abstraction

Sizewell C
The power of good for Britain



Legend

- Drawdown contours - Old COW layout
- Drawdown contours - Updated COW layout
- Monitoring points
- Sites of Special Scientific Interest (SSSI)

OSM Standard

Drawdown in -m

AtkinsRéalis

Scale : 1:11000

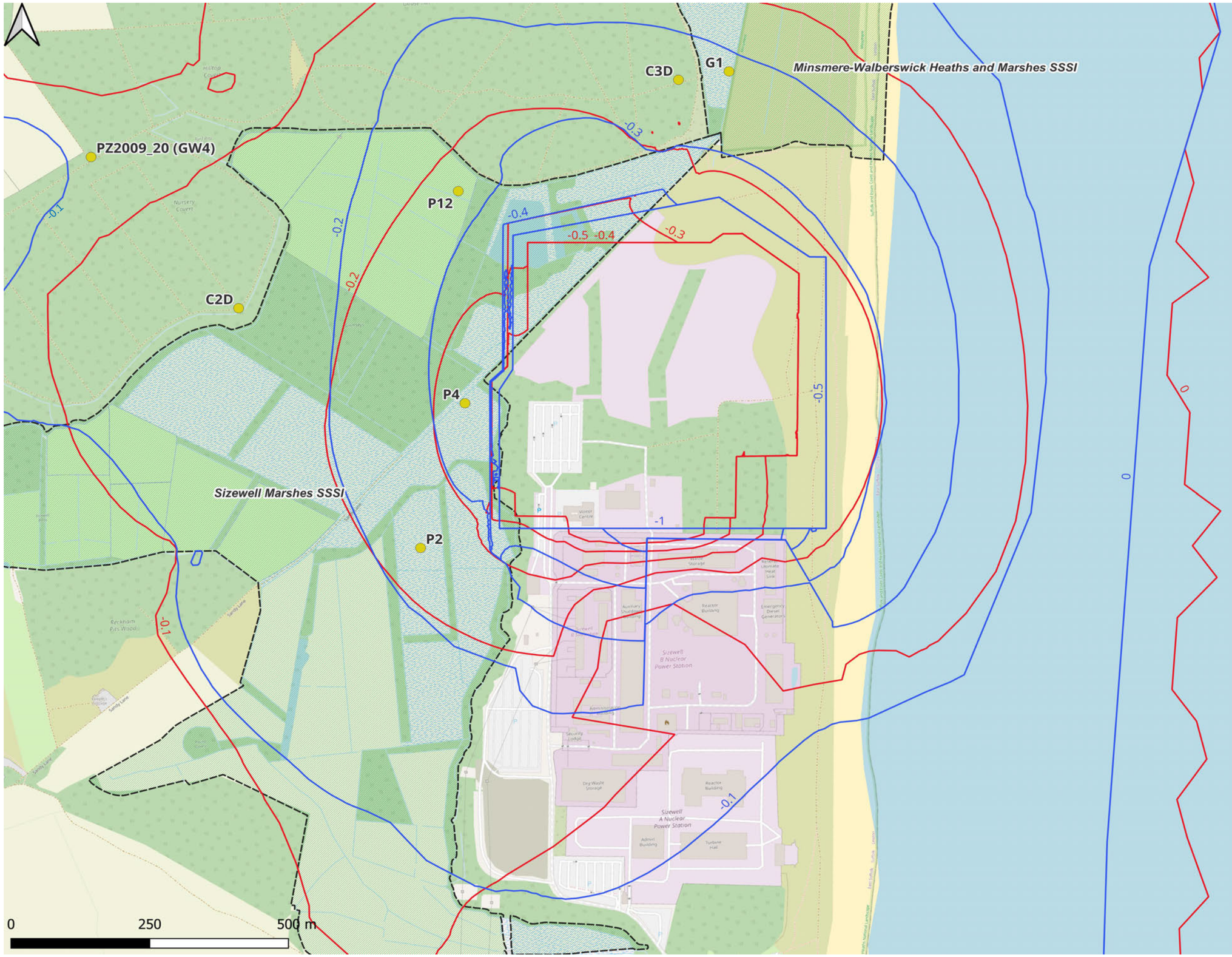
Drawing Title -

Drawdown Contours (Crag)

N T PROTECTIVE Y MARKED

(4) - Comparison drawdown contours (Crag) Sizewell B and C, No TCA abstraction

Sizewell C
The power of good for Britain



Legend

- Drawdown contours - Old COW layout
- Drawdown contours - Updated COW layout
- Monitoring points
- Sites of Special Scientific Interest (SSSI)

OSM Standard

Drawdown in -m

AtkinsRéalis

Scale : 1:6100

Drawing Title -

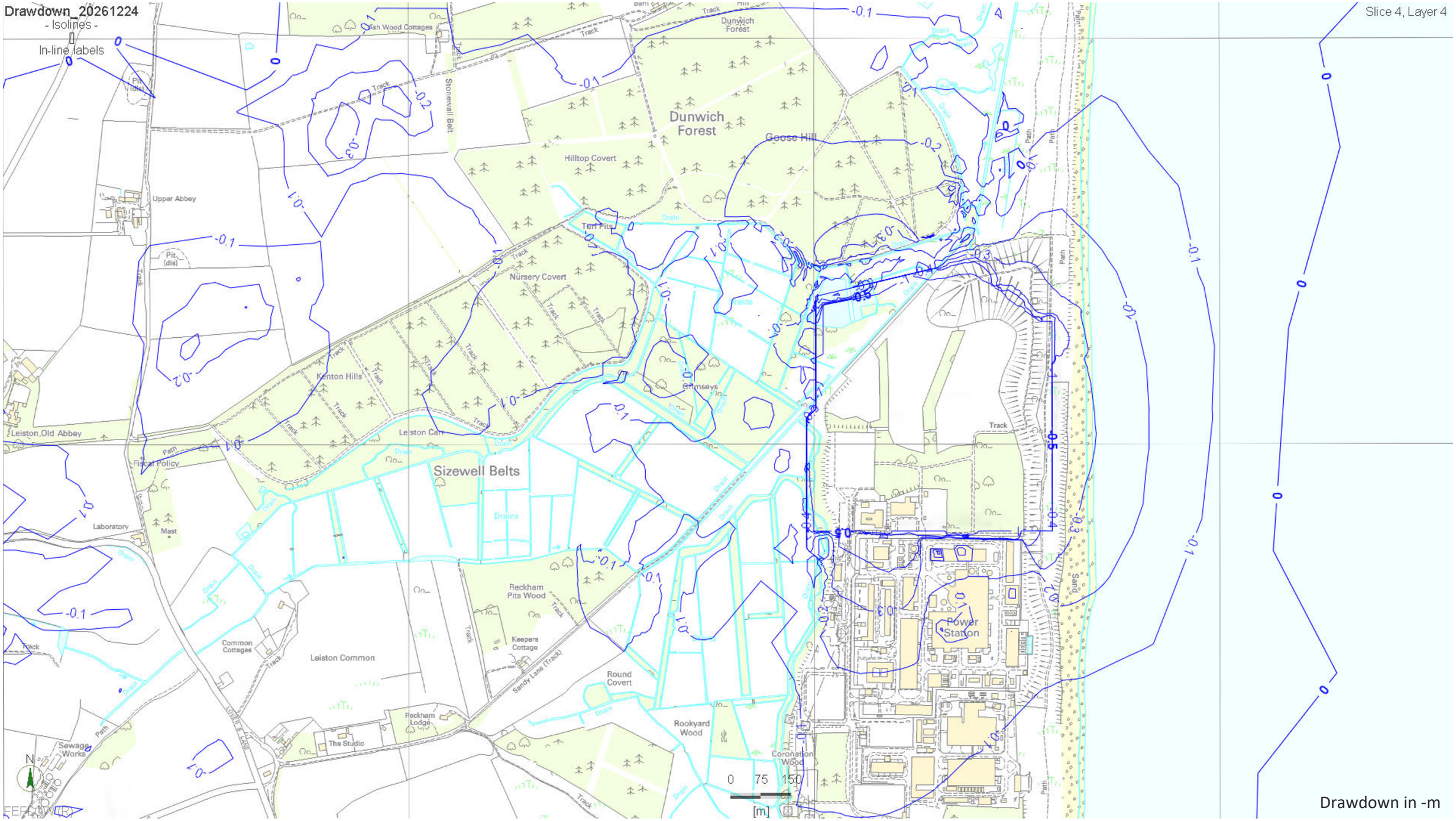
Drawdown Contours (Crag)

UNCONTROLL D WH N PRINT D
NOT PROTECT VELY MARKED

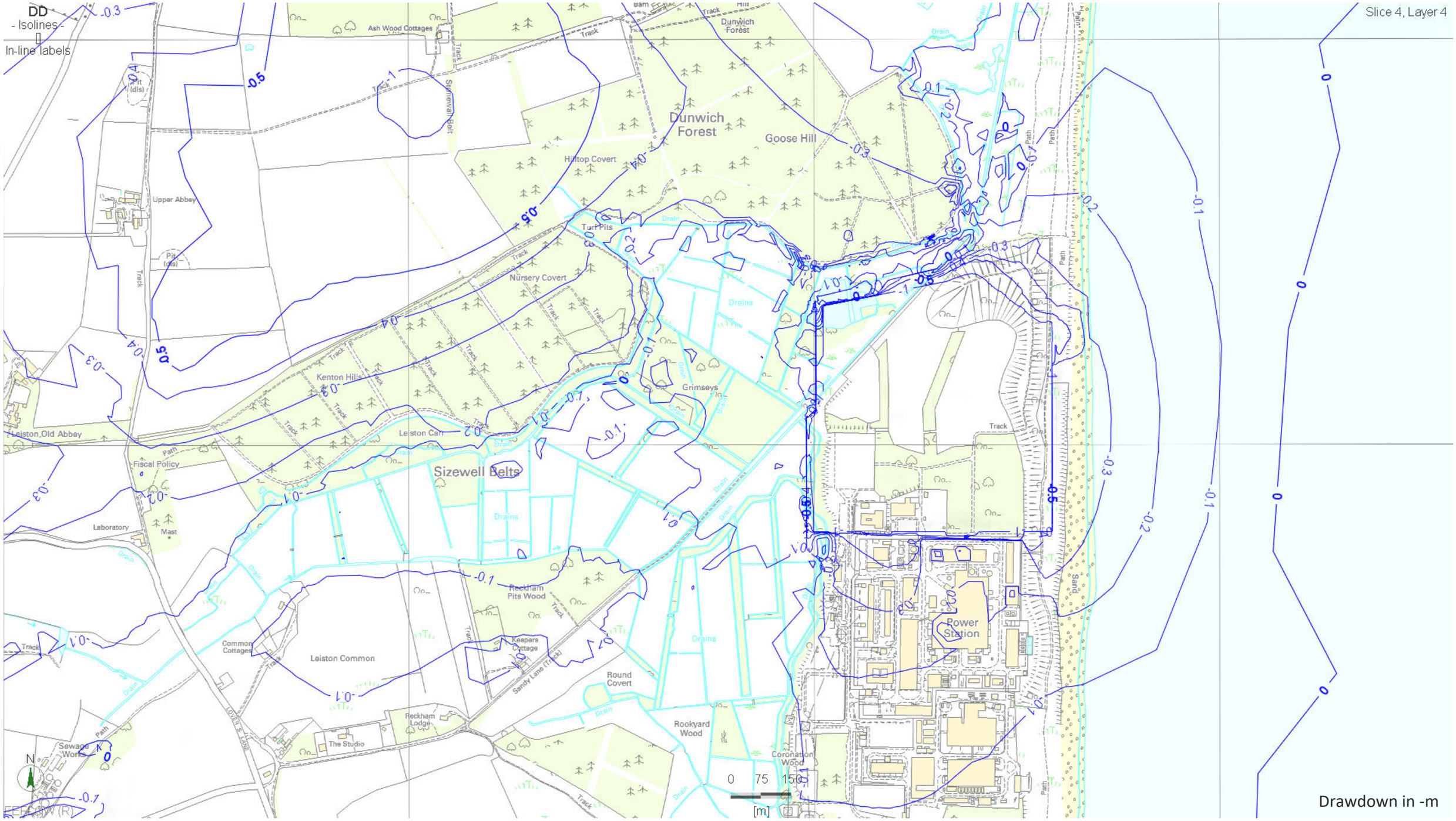
(5) - Maximum drawdown contours, Old COW layout, Peat, Marsh SSSI



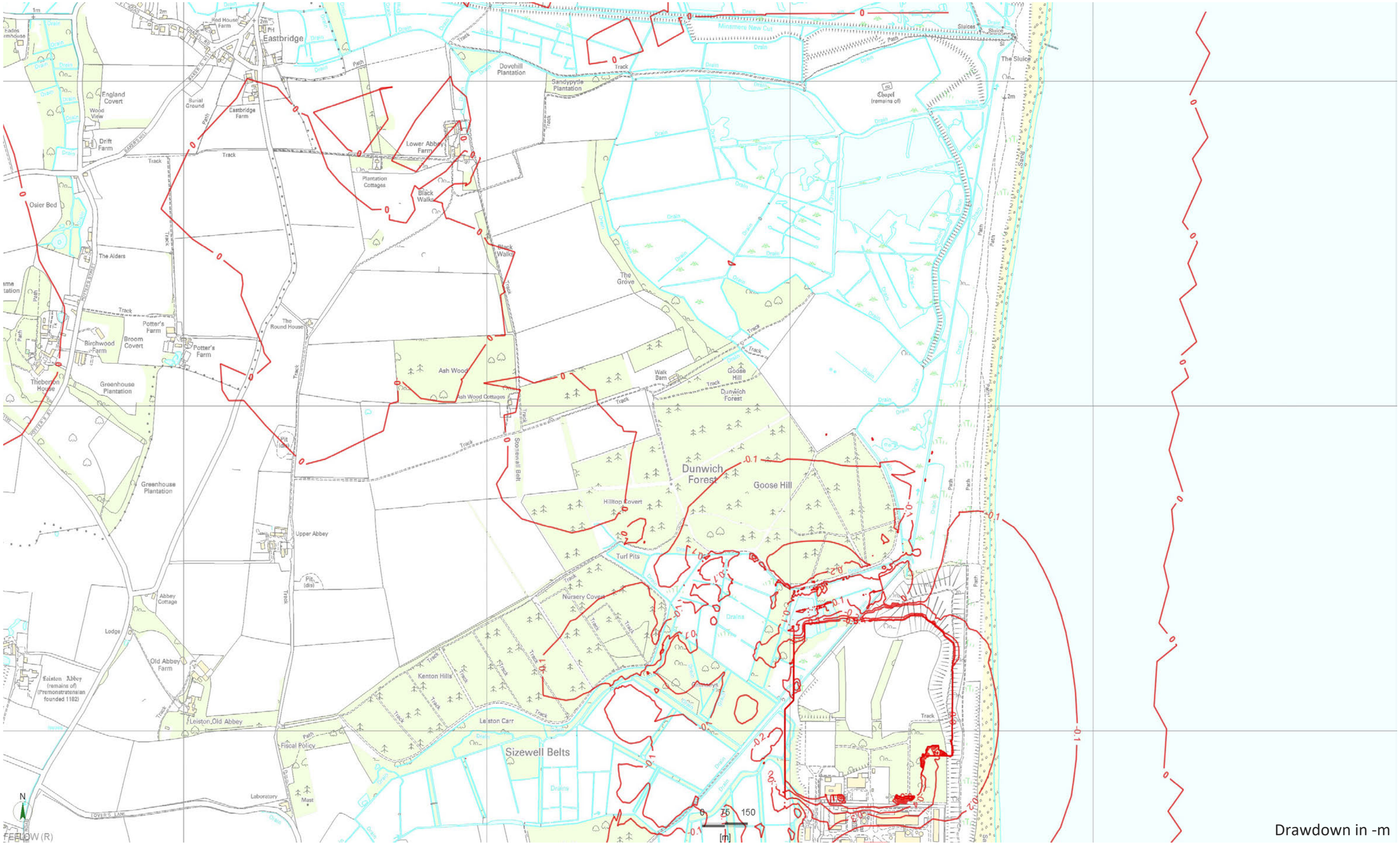
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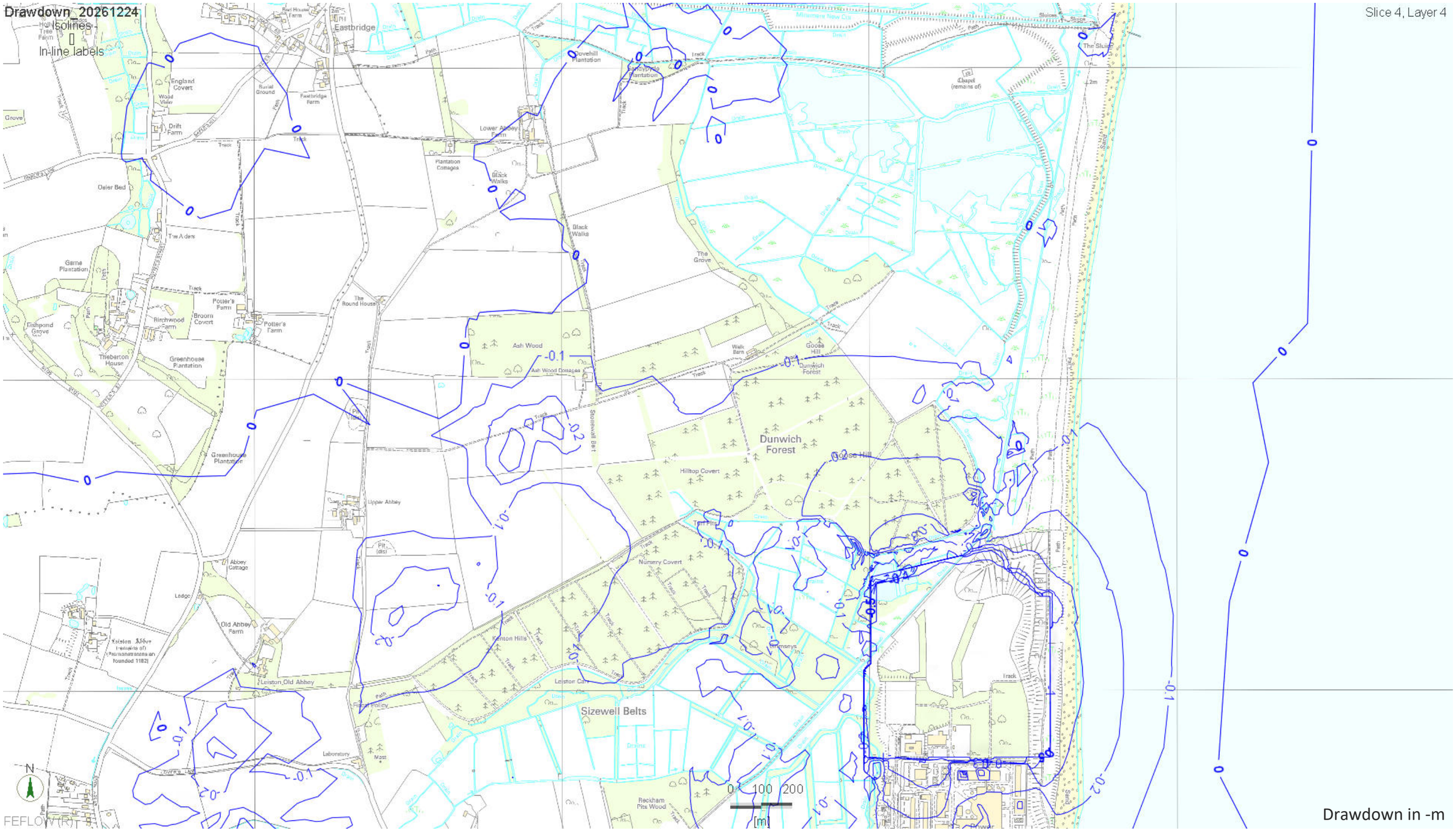
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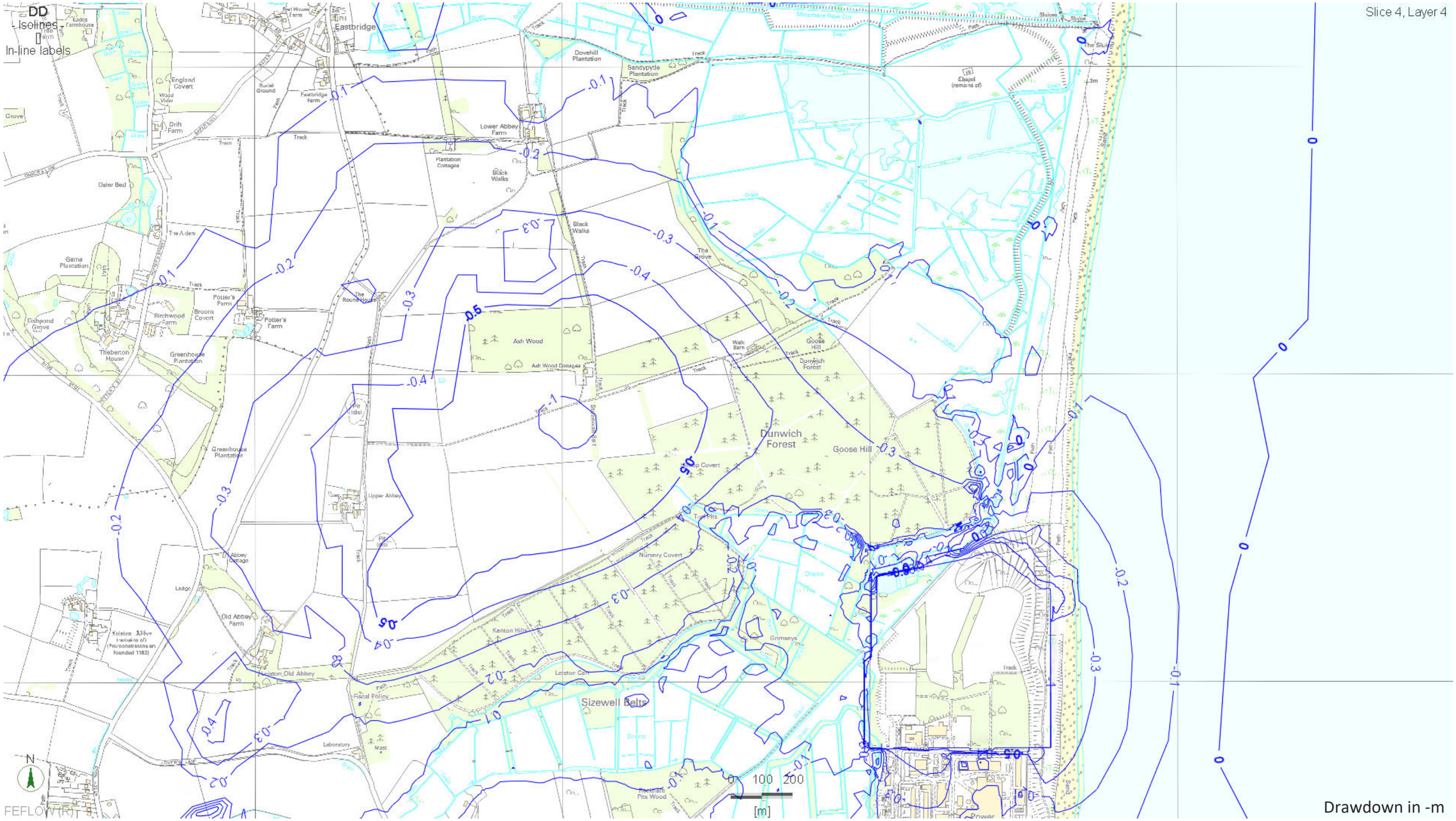


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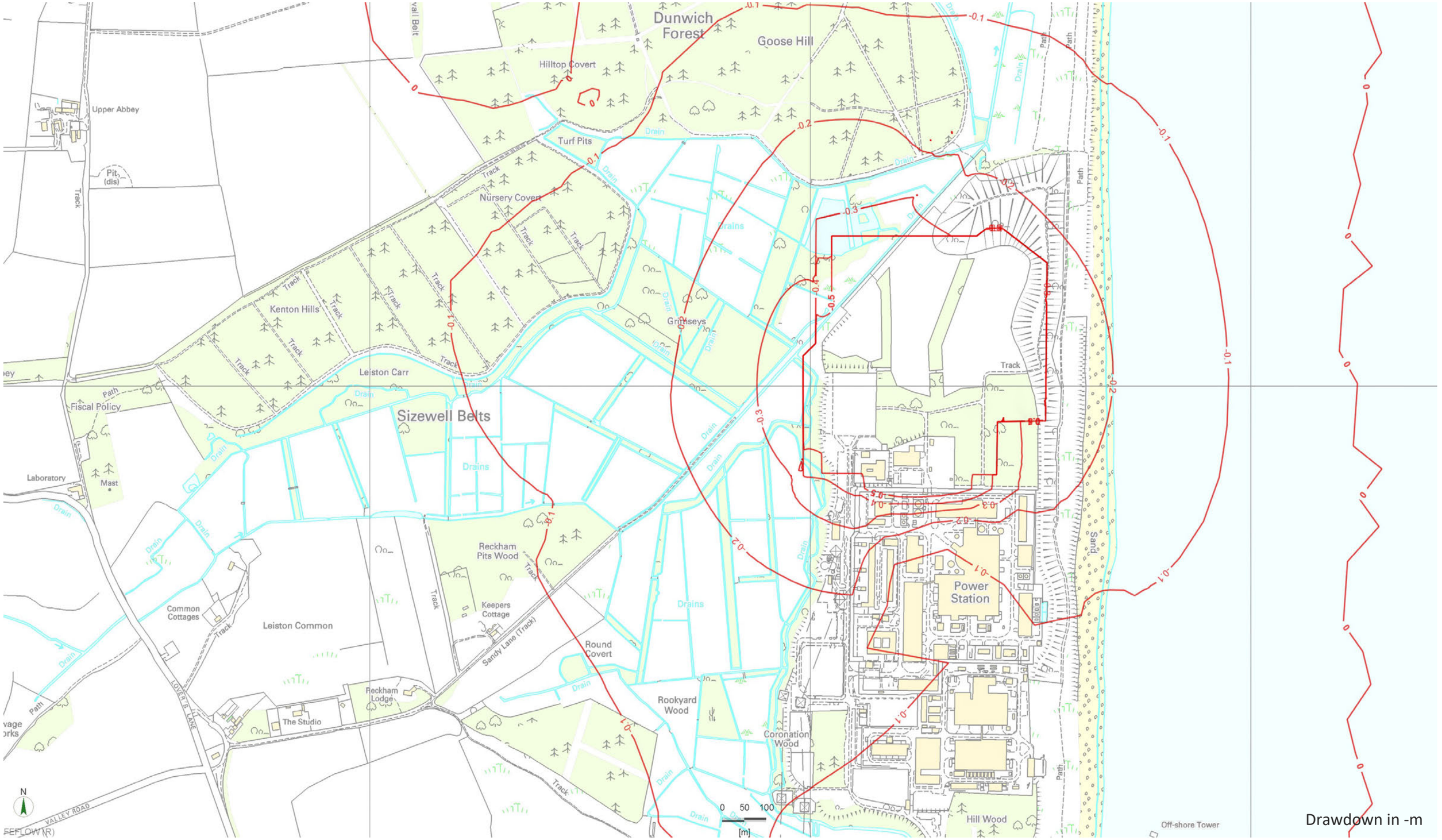


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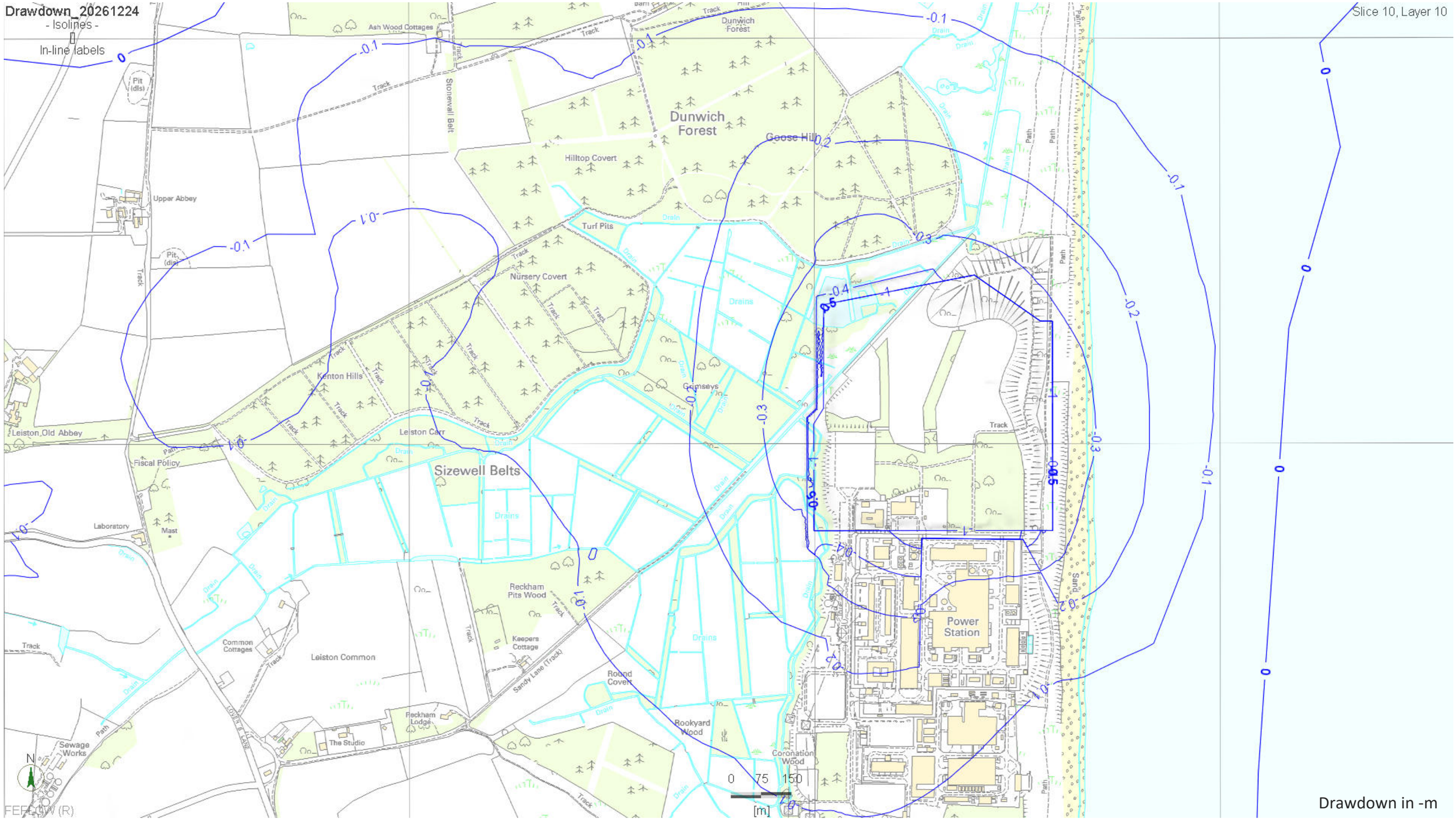
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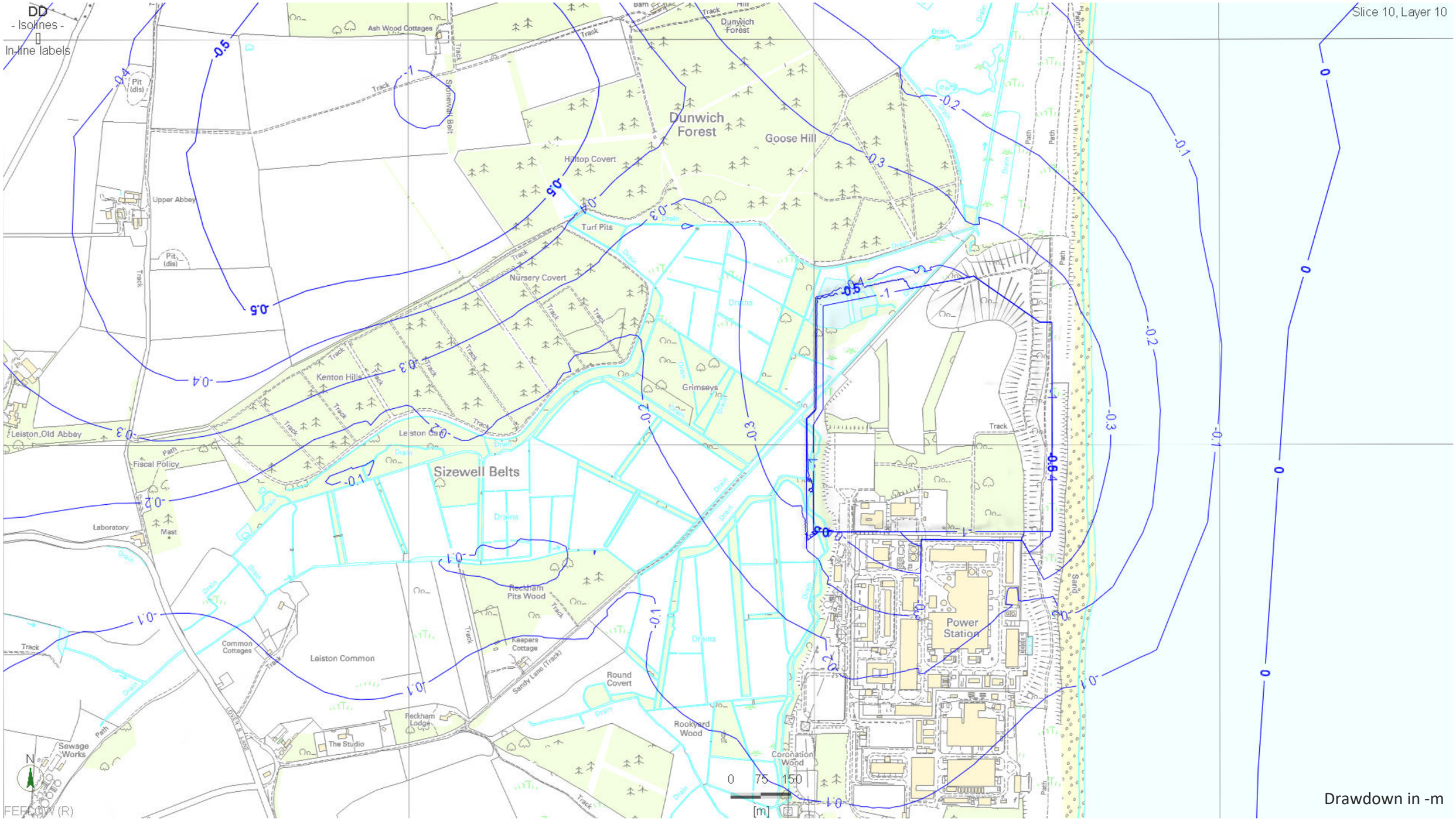
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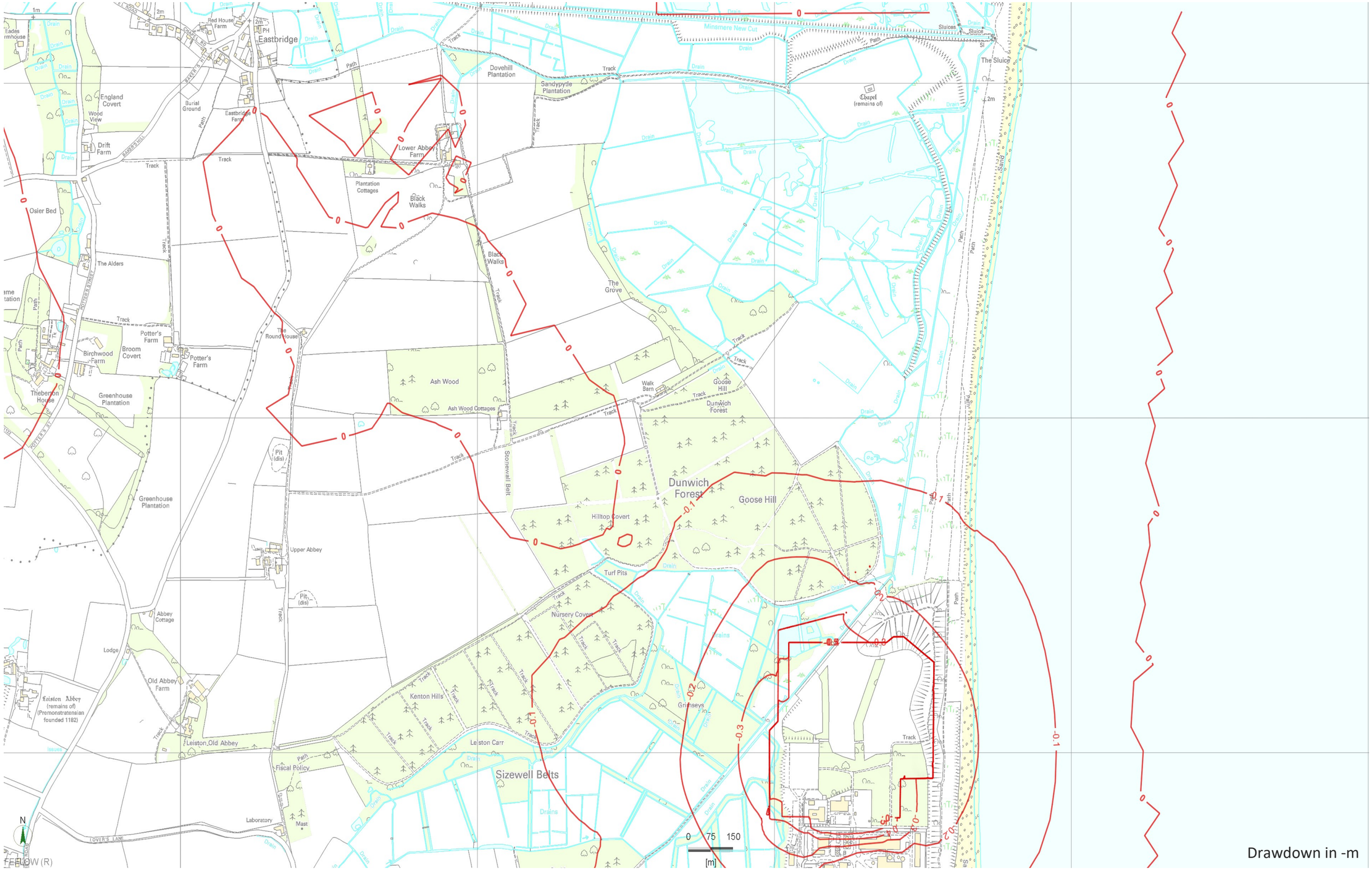


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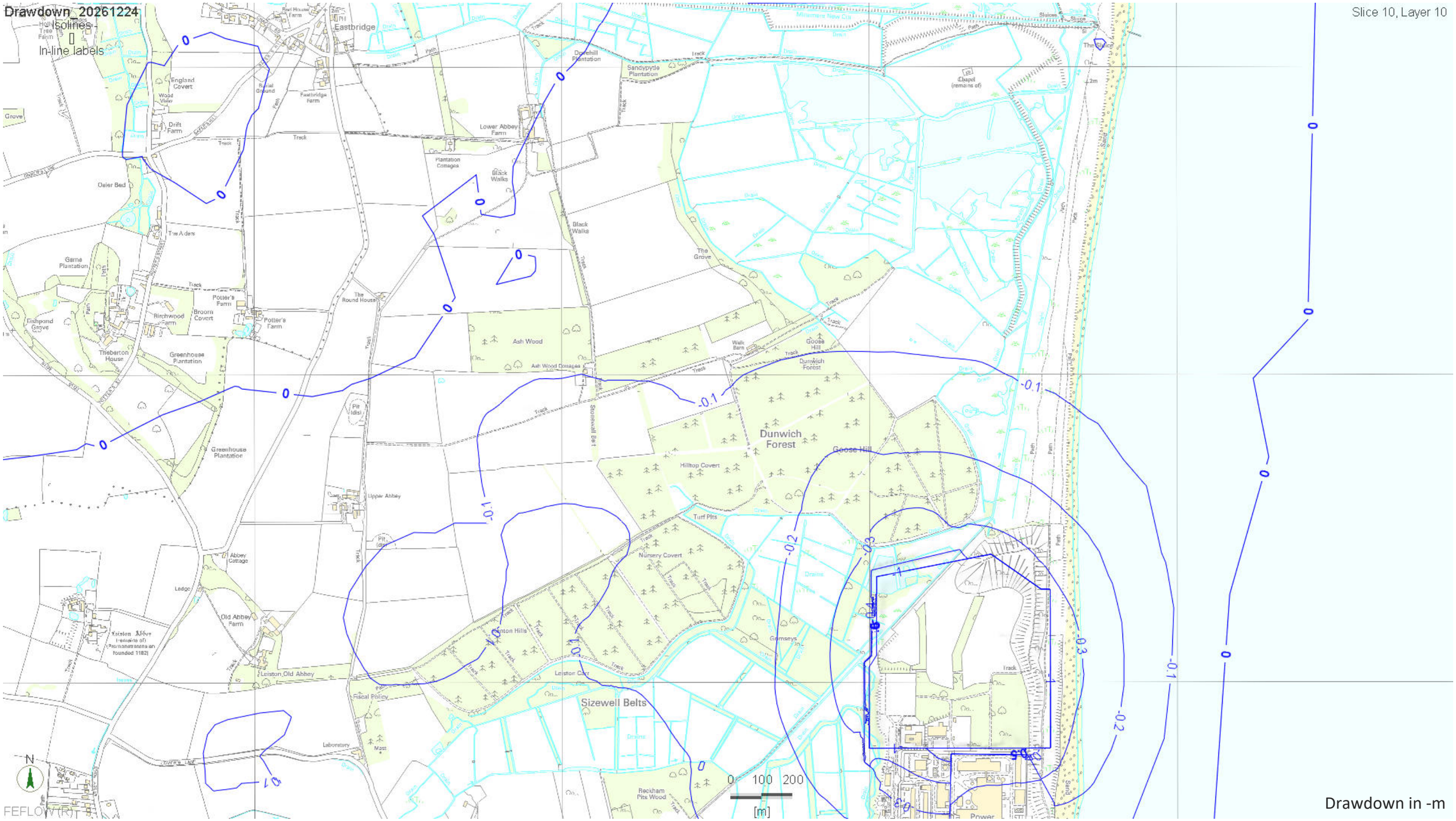


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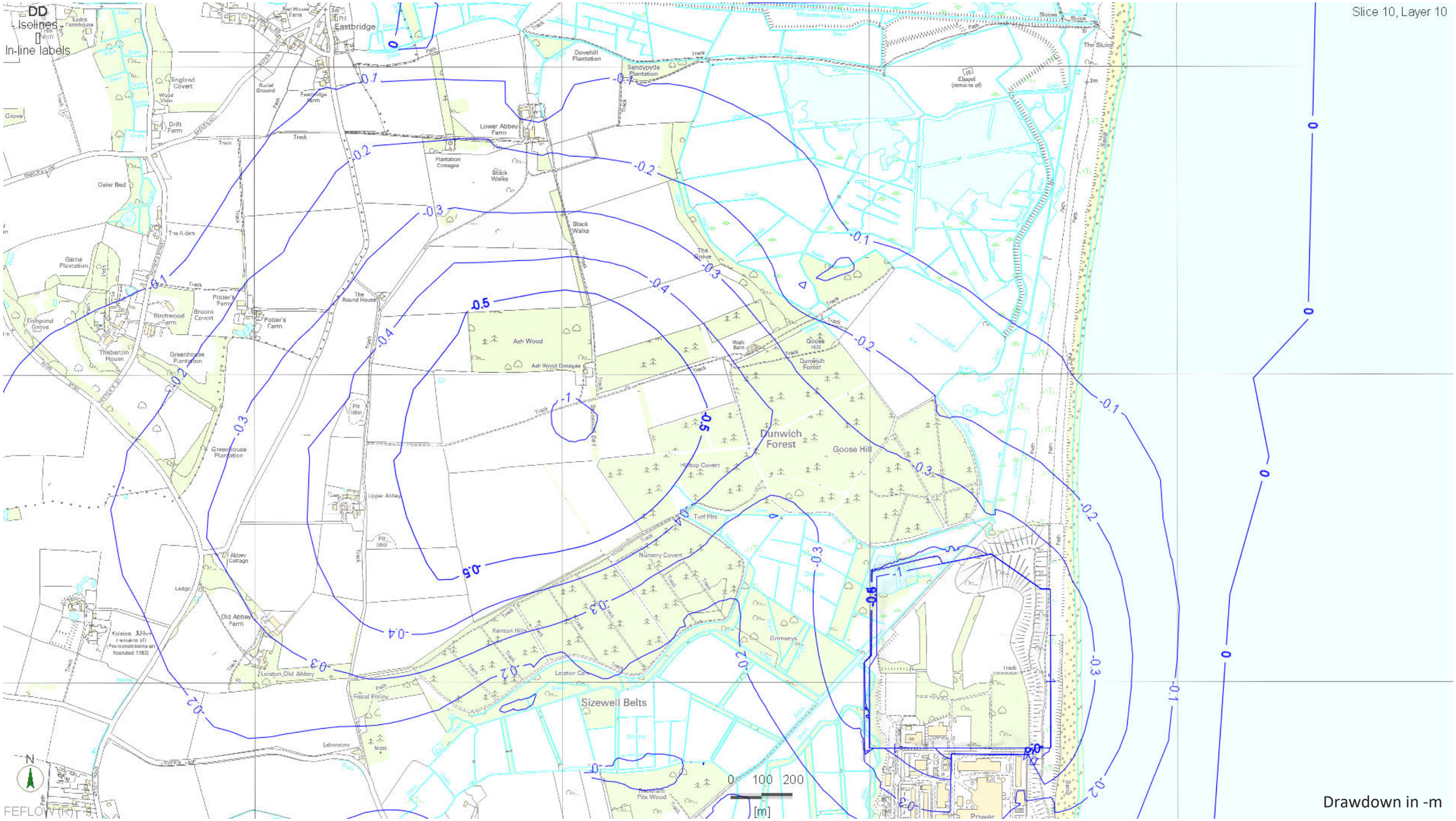
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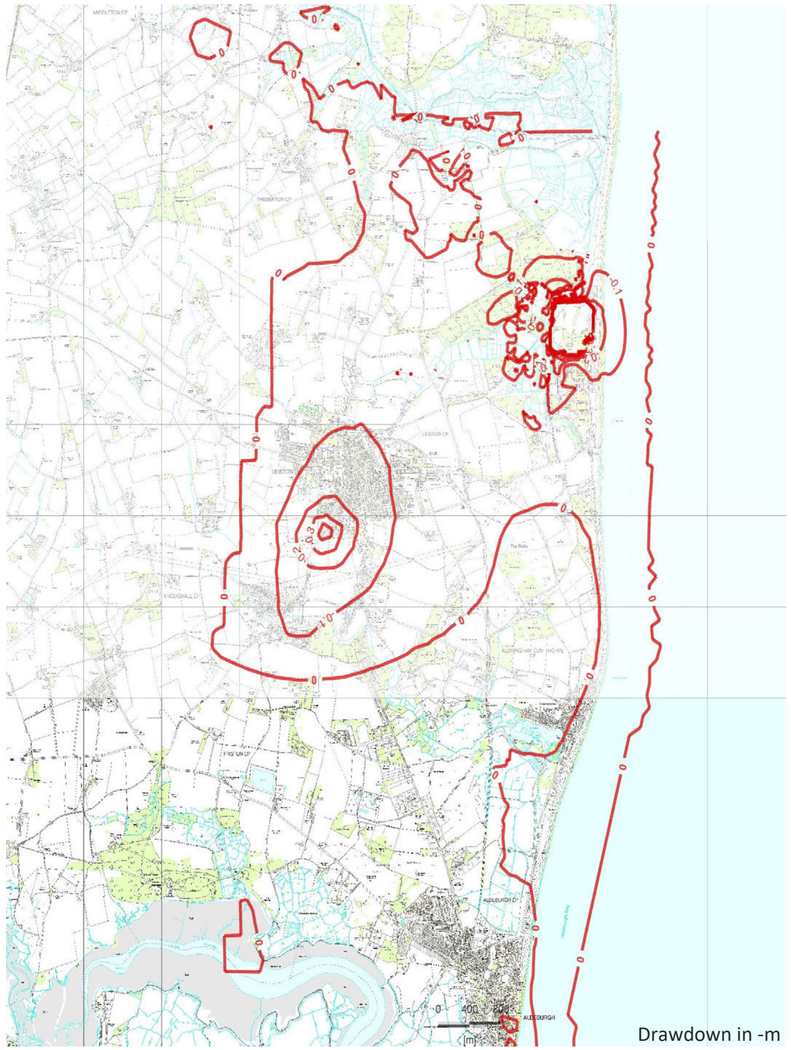


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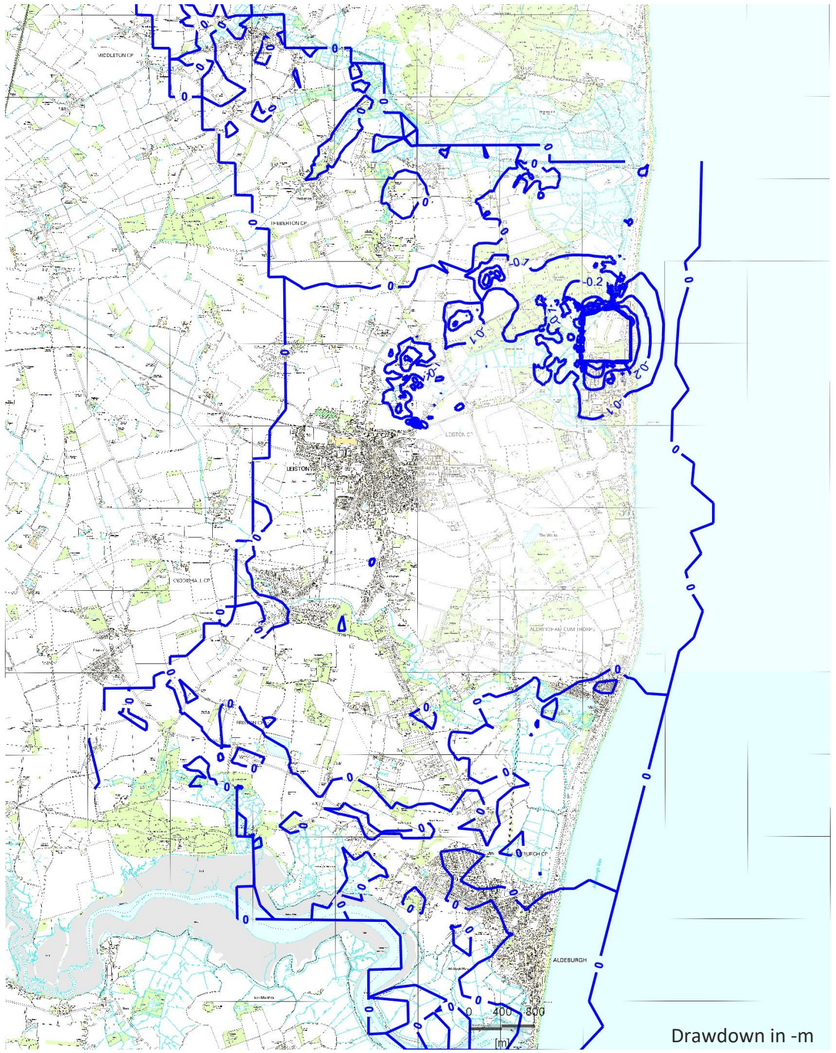


(17) - Full domain drawdown presenting '0' Line contours for maximum drawdown, Original Model, No TCA Abstraction model and TCA Abstraction model

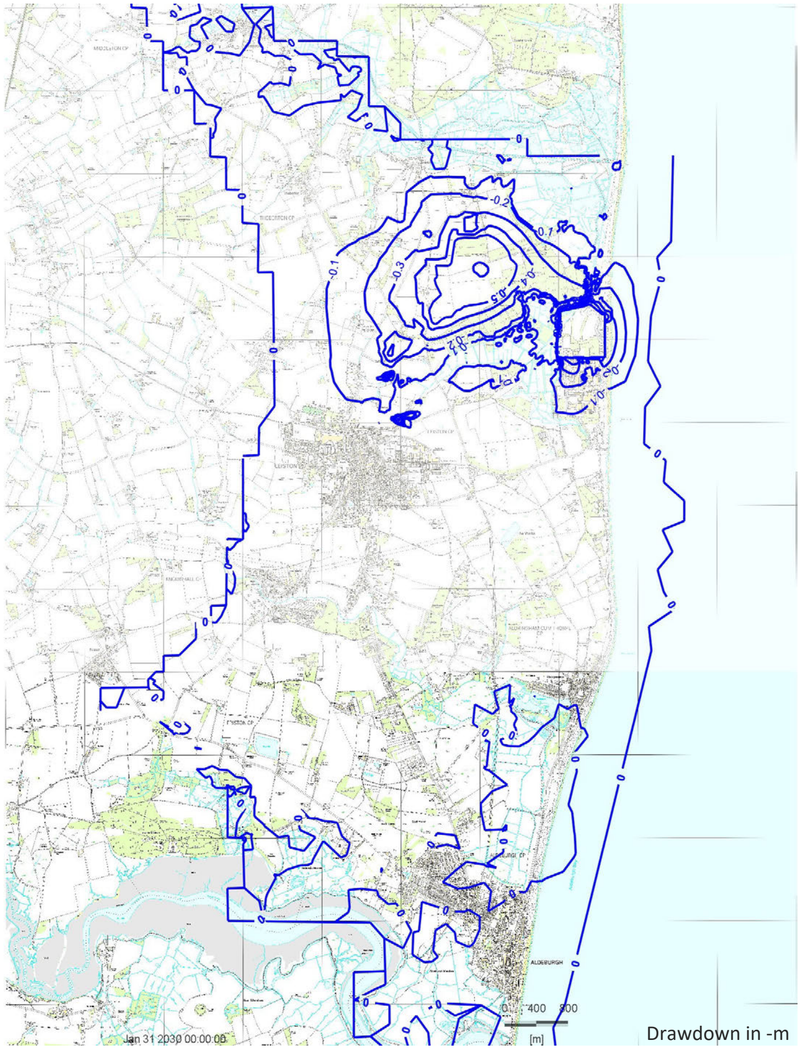
Original Design



Updated Design, No TCA Abstraction



Updated Design, with TCA Abstraction

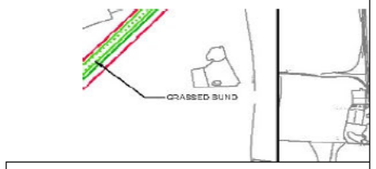


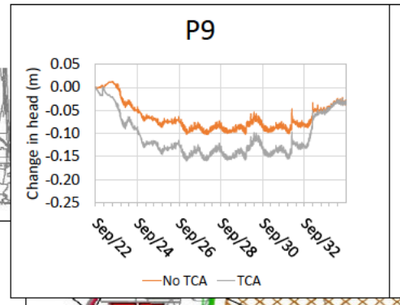
Appendix F. Hydrographs – Impact of TCA Abstraction

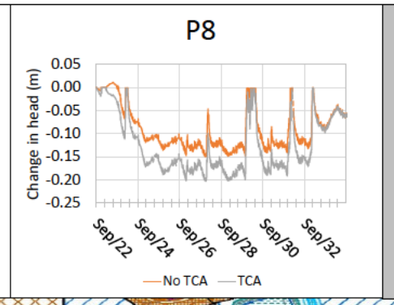
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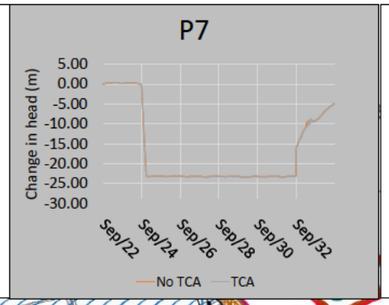
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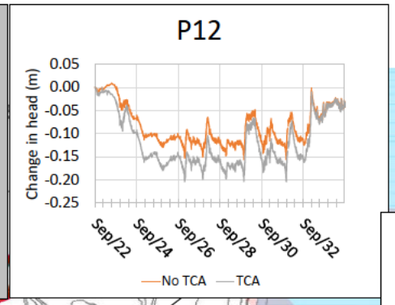
Appendix F - TCA drawdown comparison

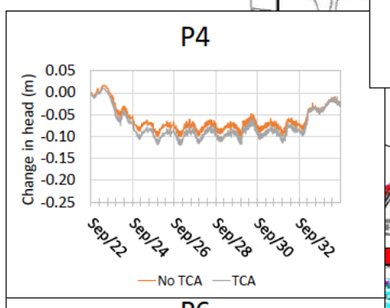


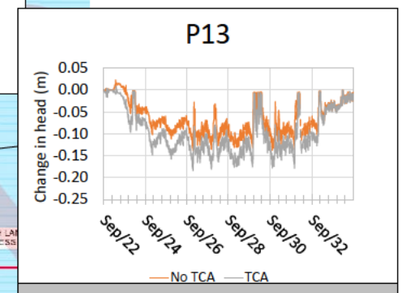


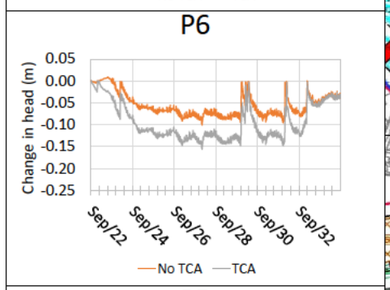


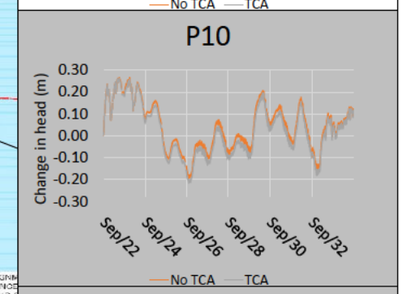


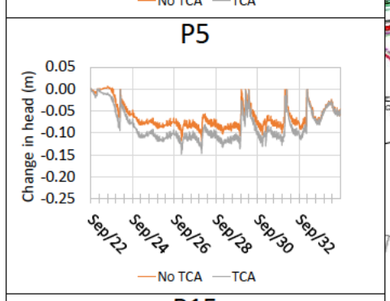


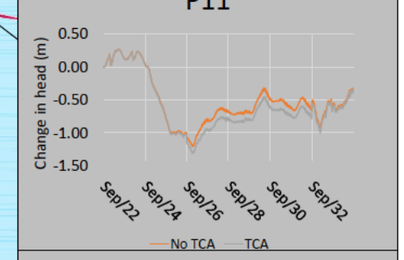


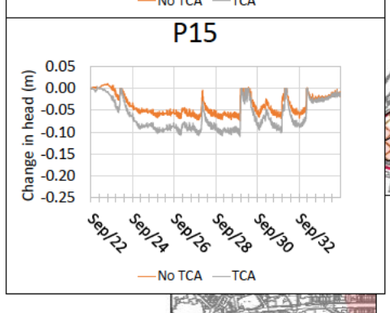


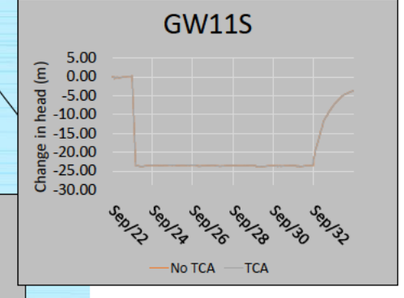


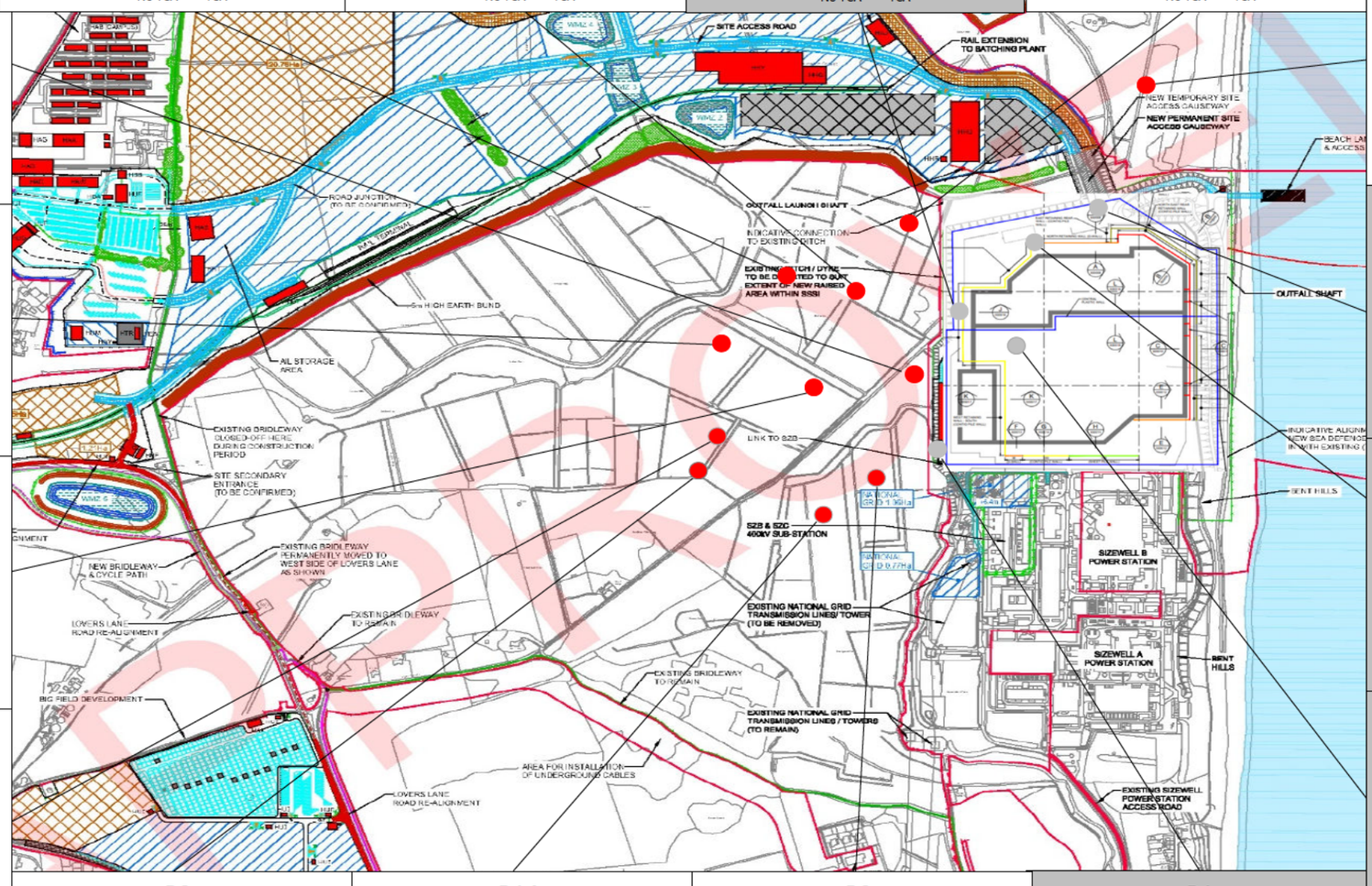


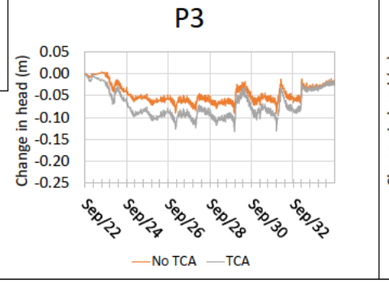


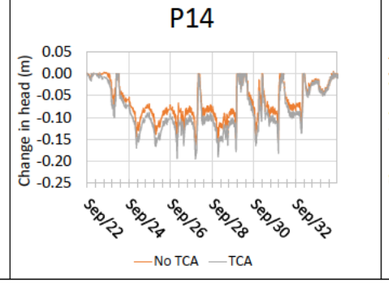


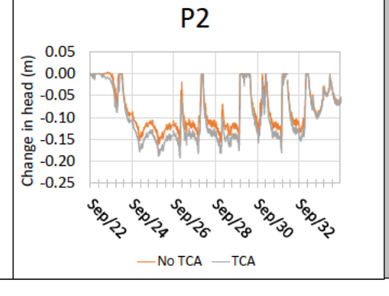


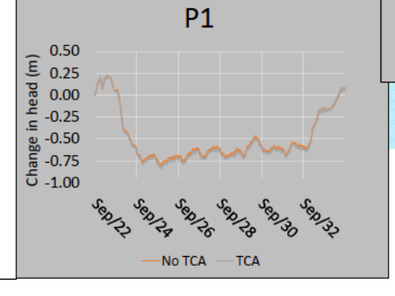












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Appendix G. 2020 DCO Modelling Report

Available on the planning inspectorate portal:

Part 1: https://nsip-documents.planninginspectorate.gov.uk/published-documents/EN010012-001914-SZC_Bk6_ES_V2_Ch19_Groundwater_and_Surface_Water_Appx19A_Part_1_of_6.pdf

Part 2: https://nsip-documents.planninginspectorate.gov.uk/published-documents/EN010012-001915-SZC_Bk6_ES_V2_Ch19_Groundwater_and_Surface_Water_Appx19A_Part_2_of_6.pdf

Part 3: https://nsip-documents.planninginspectorate.gov.uk/published-documents/EN010012-001916-SZC_Bk6_ES_V2_Ch19_Groundwater_and_Surface_Water_Appx19A_Part_3_of_6.pdf

Part 4: https://nsip-documents.planninginspectorate.gov.uk/published-documents/EN010012-001917-SZC_Bk6_ES_V2_Ch19_Groundwater_and_Surface_Water_Appx19A_Part_4_of_6.pdf

Part 5: https://nsip-documents.planninginspectorate.gov.uk/published-documents/EN010012-001918-SZC_Bk6_ES_V2_Ch19_Groundwater_and_Surface_Water_Appx19A_Part_5_of_6.pdf

Part 6: https://nsip-documents.planninginspectorate.gov.uk/published-documents/EN010012-001919-SZC_Bk6_ES_V2_Ch19_Groundwater_and_Surface_Water_Appx19A_Part_6_of_6.pdf

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101815719
Revision 2

Sizewell C
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Sizewell C Project

Basal Stability Assessment During the Temporary Excavation of the Main Construction Area

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DOCUMENT CONTROL

This document is stored and approved in the Electronic Document and Records Management System (EDRMS).

Prepared by:	[redacted]
Verified by:	[redacted]
Approved by:	[redacted]

REVISION HISTORY

Rev	Status	Amendment	Prepared By	Date
1	Final		[redacted]	18 May 2026
2	Final	Moved to a new template	[redacted]	23 June 2026

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APPENDIX A ..... HEADING 13

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1 INTRODUCTION

1.1 Purpose

Text

1.2 Scope

Text

1.3 Definitions

Term / Abbreviation	Definition
EDRMS	Electronic Document and Records Management System
SZC	Sizewell C

1.4 References

Ref	Title	Location	Document No.
1	AtkinsRealis (26 March 2026): Technical Note – EW0430 Dewatering (Phase 2) Preliminary Basal Stability Assessment.	Online	-
2	British Standard Institute, BS EN 1997-1:2004+A1:2013, Eurocode 7 – Geotechnical design Part 1 : General Rules, 2013.	Online	-
3	British Standard Institute, NA+A2:2022 to BS EN 1997-1:2004+A1:2013, Eurocode 7 – Geotechnical design Part 1 : General Rules, 2022.	Online	-

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2 BACKGROUND AND PURPOSE

The construction of the Sizewell C (SZC) main nuclear structures involves deep excavation works within the Main Construction Area (MCA). As part of the temporary works, a deep plastic cut-off wall will be constructed extending into the low-permeable Harwich Formation to control the ground water flow into the excavation in order to facilitate the construction of the permanent works. One of the critical aspects of the temporary dewatering design involves the assessment of basal stability due to the uplift water pressure acting at the base of the Harwich Formation when the excavation level reached the Practical Bottom of Excavation (PBOE).

AtkinsRealis carried out a preliminary basal stability assessment and summarised in the Technical Note – EW0430 Dewatering (Phase 2) Preliminary Basal Stability Assessment [Ref. 1], hereafter referred as Atkins Report. A critical review has been carried out on the Atkins Report and the review findings are summarized in this Technical Note (TN). As part of this TN, supplementary analyses have been carried out as proposed improvements to the Atkins Report. For the deeper excavation zones, the risk associated with the basal stability is mitigated by appropriate construction control measures and these measures are detailed in this TN.

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3 DESIGN CONSIDERATIONS

3.1 Description of the Problem

An idealised ground model details under the MCA is shown together with the ground parameters in Figure 1, obtained from the Atkins Report. The Harwich formation is on average 14m thick and the cut-off wall is designed to penetrate a minimum of 3m into the stratum. The groundwater head above the Harwich Formation is at +1.0 m AOD, however, there is no data available with regard to the waterhead in the Lambeth Group strata directly underneath the Harwich Formation. Conservatively, it has been assumed that the water head in the Lambeth Group beneath the Harwich Formation is in hydraulic connectivity with the underlying Chalk Group, which is at +6.5m AOD; for the basal stability assessment, this can be taken as the worst-case water head at the underside of the Harwich Formation. The waterhead difference above and below Harwich Formation is sustained by the low permeability Harwich Formation.

During the bulk excavation of the MCA, only the waterhead above the Harwich Formation is dewatered to facilitate dry construction area by maintaining the water level at nominal 1m below the excavation level at all times. The deepest excavation level is at -26.3m AOD (see Figure 2) and basal stability of the Harwich Formation shall be checked for this worst design situation with de-watered level at -27.3m AOD and the confined water head below the strata maintained at +6.5m AOD.

As covered in the Atkins Report, basal stability check will involve the following two scenarios:

- stability against uplift failure of the Harwich Formation plug;
- stability against hydraulic heave failure within the Harwich Formation.

3.2 Uplift Stability Assessment

Commentary on Atkins Report

The uplift stability assessment methodology of the Harwich Formation adopted in the Atkins Report is based on the following:

a) vertical stress reduction on top of the Harwich caused by the bulk excavation evaluated using 3D PDISP software;
b) undrained shear strength (150 kPa) utilized for the Harwich Formation with the strength reduction partial factor of 1.4;
c) uplift stability assessment made in plane strain strips; i.e. 3D beneficial effects ignored when deriving the downward stabilizing shear resistance from the Harwich Formation;
d) in the absence of monitoring data within the Lambeth Group underneath the Harwich Formation, the waterhead measured within the Chalk Strata at depth (+6.5m AOD) taken as the Design water pressure underneath the Harwich Formation, for the stability check; i.e. the partial factor taken as unity.

Based on the above methodology, Atkins Report concludes that the uplift stability check is satisfactory, for the deepest proposed excavation zone in the MCA, as the maximum utilization of the undrained shear strength of Harwich Formation is still below 100%; the highest utilization of 71% was recorded for the case associated with the plane strain strip width of 21.50m.

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One of the primary concerns with the above assessment is that the downward shear resistance from the Harwich Formation is based on the undrained shear strength. Technically, it is not preferred tcarry out design calculations based on undrained shear strength in design situations involving bulk excavations. This is because the undrained shear strength could reduce (softening) over time, due to the stress relief caused by the excavation. In these situations, it is therefore more appropriate to carry out the stability calculations using effective-stress method which accounts for the softening of the Harwich Formation in the long term. Another important observation on the Akins Report is that the additional beneficial downward shear resistance available from the Red Crag layer below the excavation level and above the Harwich Formation was not included in the Atkins assessment.

Supplementary Analysis

A simplified uplift stability assessment has been carried out as part of the supplementary analysis for this TN, addressing the above review comments with the following modifications:

- ground level assumed to be lowered to -26.4m AOD across the MCA area, conservatively, for the stress change calculations;
- effective-stress method adopted for evaluating the downward shear resistance within the Harwich Formation;
- downward shear resistance from the Red Crag layer below the excavation
- formation included.

The results of this supplementary assessment under the above assumptions show that the Adequacy Factor of 1.40 for 21.5m plane strain strip (considered as the worst case width in the Atkins Report with excavation level at -26.3m AOD) as opposed to greater than unity required for achieving code compliance (Refer to Calculation 1A). However, the actual proposed width of excavation to -26.3m AOD is limited to 11m and the Adequacy Factor corresponding for this case is 1.88 (Refer to Calculation 1B). The width of excavation corresponding to -23m AOD is 120m and taking the effective formation level of -24.1m AOD (allowing for local 11m wide deep excavation to -26.3m AOD), the Adequacy Factor is 1.08 (Refer to Calculation 1C).

The above uplift stability assessment is based on conservative assumptions as the long term soften strength of the Harwich Formation is utilized in this effective stress method. Further, these assessments are based on 2D plane strain analysis and ignores the 3D beneficial effects.

Based on these assessments, the stability against uplift failure is considered satisfactory.

3.3 Hydraulic Heave Stability

Commentary on Atkins Report

The hydraulic heave stability assessment methodology within the Harwich Formation adopted in the Atkins Report is based on the following assumptions:

a) a partial factor of 0.67 applied to the effective stress in accordance with BS EN1997-1:2024 (recently revised version) which does not have an updated National Annex yet; it is noted that lumping the partial factors and apply it to the effective stress as prescribed in EN1997-1:2024 is NOT helpful for the problem in hand as it does to allow the ‘worst case’ destabilising seepage water pressure to be applied directly in the calculations;

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b) a steady state water flow is established across the Harwich Formation whilst the excavation is at the formation level (-26.3m AOD); this is a conservative assumption as it could take a few months to establish steady state water flow across the Harwich Formation.

Under the above assumptions, Atkins Report concluded that there is a risk of hydraulic heave instability between -51.5m AOD and -57.5m AOD zone of the Harwich Formation.

Supplementary Analysis

A revised hydraulic heave stability assessment has been carried as part of the supplementary analysis for this TN, addressing the above review comments on Atkins Report with the following modifications:

- adopt BS EN 1997-1:2004+A1:2013 together with NA+A2:2022 for the assessment; the NA recommends a partial factor 1.35 to be applied for the seepage pressure (excess pressure above hydrostatic pressure) and a reduction factor of 0.9 applied to the vertical effective stress under hydrostatic conditions; however, for the problem under assessment, the assumed water head underneath the Harwich Formation (+6.5m AOD) may be taken as the worst-case situation and therefore it can be argued that the partial factor of 1.35 can be reduced close to unity; in this case, it is critical to check and verify the actual water pressure underneath the Harwich Formation by installing piezometers in the zone below the deepest excavation proposed within the MCA;
- considering that the width of excavation relevant to the deepest excavation level to -26.3m AOD is only 11m and the surrounding ground will be excavated only up to -23.0 m AOD, the effective excavation level is taken as -24.1m AOD for evaluating the vertical stress reduction within the Harwich Formation following the excavation.

The results of the revised assessment under the above assumptions show that the Adequacy Factor of 1.03 which is greater than unity required for achieving code compliance (Refer to Calculation 2A). The above Adequacy Factor is at the base level of the Harwich Formation (at -57.5m AOD) which is the worst case location, and the adequacy factor will be higher for the levels above the base of Harwich Formation. For example, the calculations show that Adequacy Factor will be 1.35 at -53.0m AOD which is 4m above the base of the Harwich Formation. In Calculation 2B, it is demonstrated until the excavation level is at -19.9m AOD, the hydraulic heave stability is achieved even with the full partial load factor of 1.35 is applied to the conservative waterhead pressure assumed at the base of Harwich Formation.

In the above revised assessment, it has been assumed that the steady state seepage conditions are achieved when the excavation is at -26.3m AOD. In fact, during the bulk excavation, 'negative' excess pore pressure will be developed within the Harwich Formation and it might take several weeks before the steady state seepage conditions are reached which is primarily a function of the mass permeability of the Harwich Formation. Taking a conservative cv value of 20 m2/yr (5-10 m2/yr quoted in the GIR), the critical time period (tc) is assessed as 10 weeks (Refer to Calculation 2C). In this context, the critical time period is the time taken for the commencement of dissipation of excess pore pressure at the mid depth of the Harwich Formation which correspond to time factor (Tv) value of 1/12. Adopting stage dewatering will also benefit in minimizing the time of Harwich Formation subject to significant seepage forces.

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Based on the above assessment, the following measures will be adopted for the sections of the excavation below -20m AOD, in order to mitigate the risk of hydraulic heave instability to an acceptable level:

- the excavation will be carried in small sections in order to reduce the time duration for the excavations and backfilling (below -20m AOD) to be completed as low as practically possible; for example, the maximum extent of exposed formation at any point in time is limited to 20m x 20m area and the excavation/backfilling works below -20m AOD to be limited to a duration not exceeding 6 weeks; this construction control measure will not only reduce the exposure time but also will minimise the reduction in the effective in-situ vertical stresses due to 3D effects, thus enhance the hydraulic heave stability.

The above construction restrictions applicable to the excavations below -20m AOD may be potentially relaxed by implementing the following activities:

- plan and carry out additional GI boreholes to confirm the levels and thickness of the Harwich Formation;
- carry out in-situ testing to verify the mass permeability of the Harwich Formation;
- install piezometers to measure and verify the existing waterhead within and below the Harwich Formation;
- and install piezometers within the bottom 6m of the Harwich Formation during the excavation works to monitor and manage any residual risks.

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4 SUMMARY AND RECOMMENDATIONS

AtkinsRealis carried out a preliminary basal stability assessment for the temporary dewatering design associated with the Main Construction Area for the design situation when the excavation level reached the Practical Bottom of Excavation (PBOE) and summarized in the Technical Note – EW0430 Dewatering (Phase 2) Preliminary Basal Stability Assessment (Ref. 1], referred as Atkins Report in here. A critical review has been carried out on the Atkins Report and the findings are summarised in this TN. As part of this review, supplementary calculations have been carried out and construction control measures are provided in this TN to mitigate the risk associated with the basal stability for the deep excavation zones.

Uplift Stability Assessment

Atkins Report based the uplift stability assessment adopting undrained shear strength parameters for the Harwich Formation. Based on this assessment, Atkins Report concluded that the uplift stability condition is acceptable noting that the maximum utilization of 71% of the undrained shear strength of Harwich Formation. In these calculations, the waterhead in the Lambeth Group below the Harwich Formation is conservatively assumed to be in hydraulic connectivity with the Chalk stratum at depth (+6.5m AOD), in the absence of any monitoring data within the Lambeth Group. Further, Atkins Report ignored the beneficial downward shear resistance available from the Red Crag layer below the excavation level and above the Harwich Formation.

The critical review carried out on Atkins assessment concluded that it is not technically prudent to carry out geotechnical analysis based on undrained parameters in situations involving in-situ ground stress relief associated with bulk excavation works. A revised supplementary analysis has been therefore carried as part of this TN based on effective stress method and also including the shear resistance available from the Red Crag layer. This assessment is based on plane strain analysis (ignoring the 3D beneficial effects) and adopting a load factor of unity (instead of 1.1 specified in the code) for the destablising seepage pressure as the 'worst case' waterhead has been adopted – these assumptions are the same as made in the Atkins assessment.

The supplementary analysis also concludes that the stability against uplift is satisfactory.

Hydraulic Heave Stability Assessment

Atkins Report based the hydraulic stability assessment within the Harwich Formation adopting BS EN1997:2024 (recently revised version) which does not have an updated National Annex yet; in this revision, the partial factors are lumped (0.67) and applied on to the effective stress.

The formulation in this latest version is not helpful for the situation encountered in the design situation under consideration. [In the previous version (BS EN 1997-1:2004+A1:2013), a partial factor of 0.9 is applied for the vertical effective stress and 1.35 on the seepage pressure]. Atkins assessment concluded that there exists a risk of hydraulic instability between -51.5m and -57.5m AOD zone of the Harwich Formation.

A revised hydraulic heave stability assessment carried out for this TN based on BS EN 1997-1:2004+A1:2013 (together with NA+A2:2022) concluded that the stability against hydraulic heave stability is satisfactory. The revised assessment assumed a load factor of unity (instead of 1.35

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specified in the code) for the seepage pressure on the basis that the uplift seepage pressure underneath the Harwich Formation is potentially the 'worst case' condition – in line with the reasoning adopted for the uplift stability assessment. On the other hand, if the partial factor of 1.35 is applied on the seepage pressure, the stability against hydraulic heave will be non-compliance for the excavation below -20m AOD. In the above revised assessment, a conservative assessment was made that steady state seepage conditions will be reached whilst the excavation is at the bottom level. Further, the effective stress reduction is based on plane strain analysis ignoring the 3D beneficial effects. It should be noted that the Atkins assessment was also based on similar conservative assumptions.

Implementation of Construction Control Measures

Based on the assessment described in this TN, the following construction control measures will be implemented to reduce the risk of hydraulic heave for the sections of the excavation below -20m AOD:

- staged dewatering;
- excavation/backfilling below -20m AOD carried out in small sections;
- minimise the duration of excavation and backfilling below -20.0m AOD to as low as practically feasible.

Potential Relaxation of Construction Control Measures

The following activities could be undertaken to potentially relax the above construction control measures where the proposed excavation is below -20m AOD:

- additional GI boreholes to verify the accurate levels and thickness of the Harwich Formation;
- in-situ testing to verify the mass permeability of the Harwich Formation;
- install piezometers to verify the existing waterhead within and below the Harwich Formation;
- and to install piezometers within the bottom 6m of the Harwich Formation during the excavation works to monitor and manage any residual risks.

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BASAL STABILITY ASSESSMENT DURING THE TEMPORARY EXCAVATION OF THE MAIN CONSTRUCTION AREA

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APPENDIX A DRAWINGS

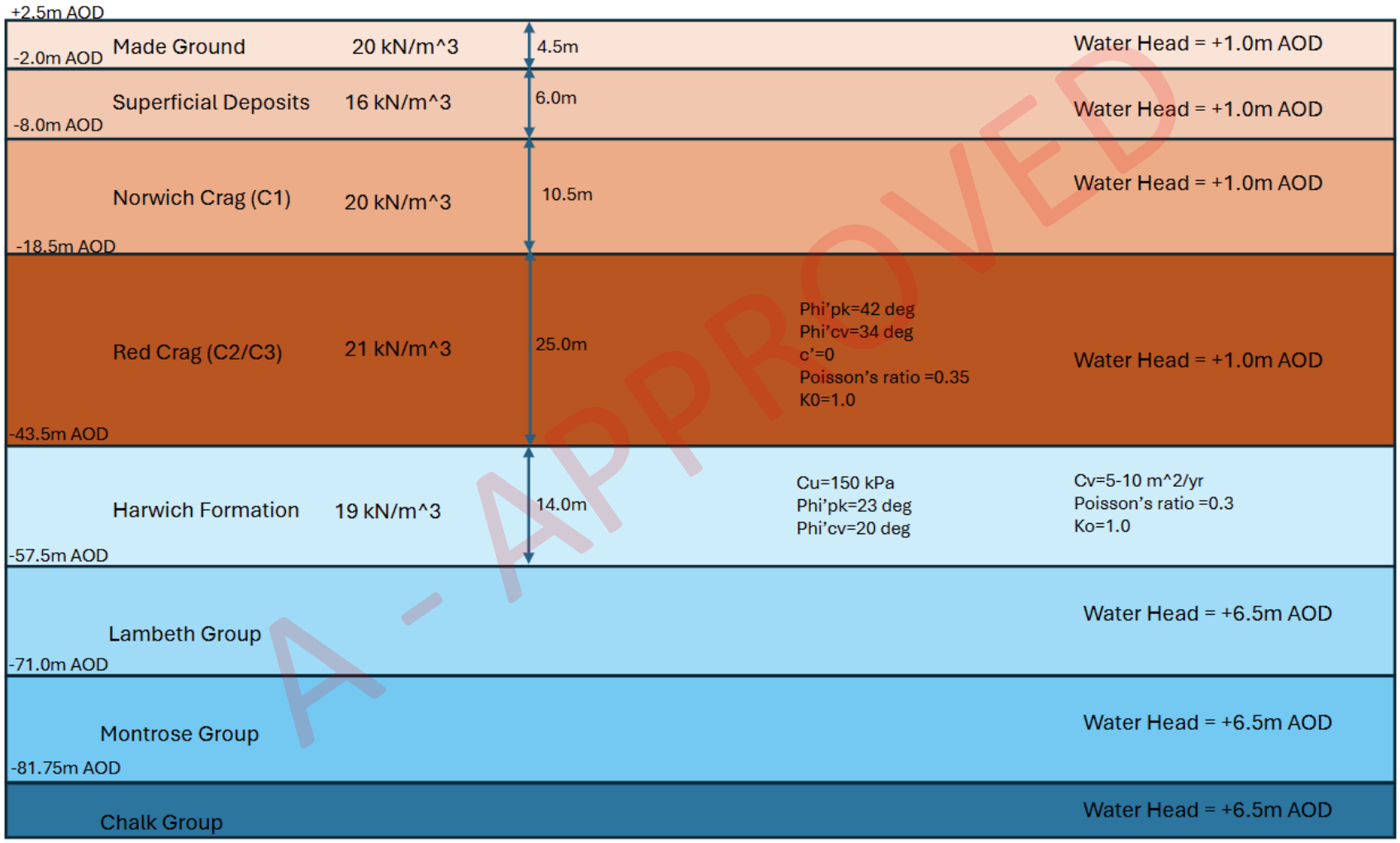


Figure 1: Design Ground Model (Ref 1)

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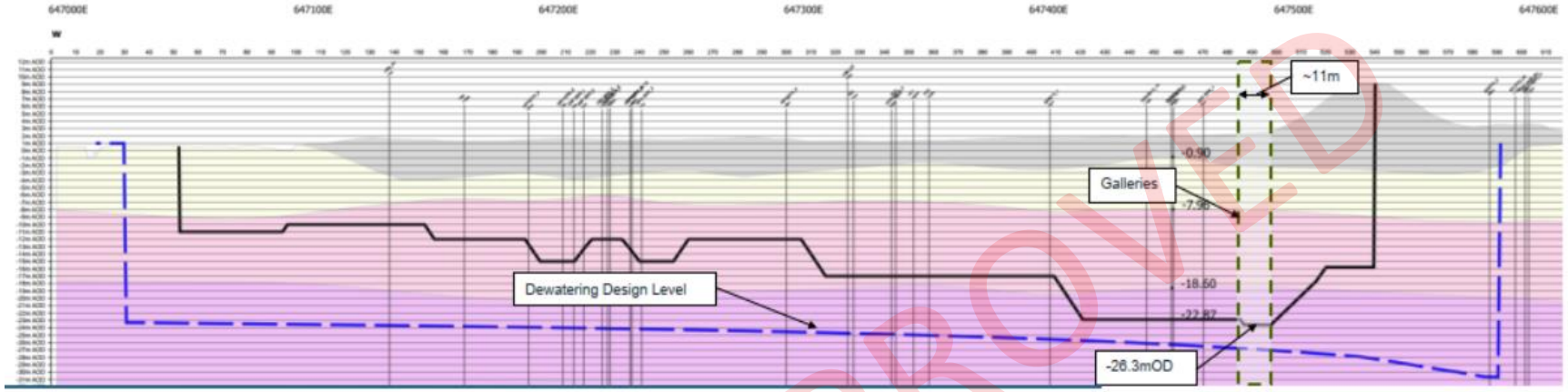


Figure 2-2 North PBOE Section based on [1] and [2]

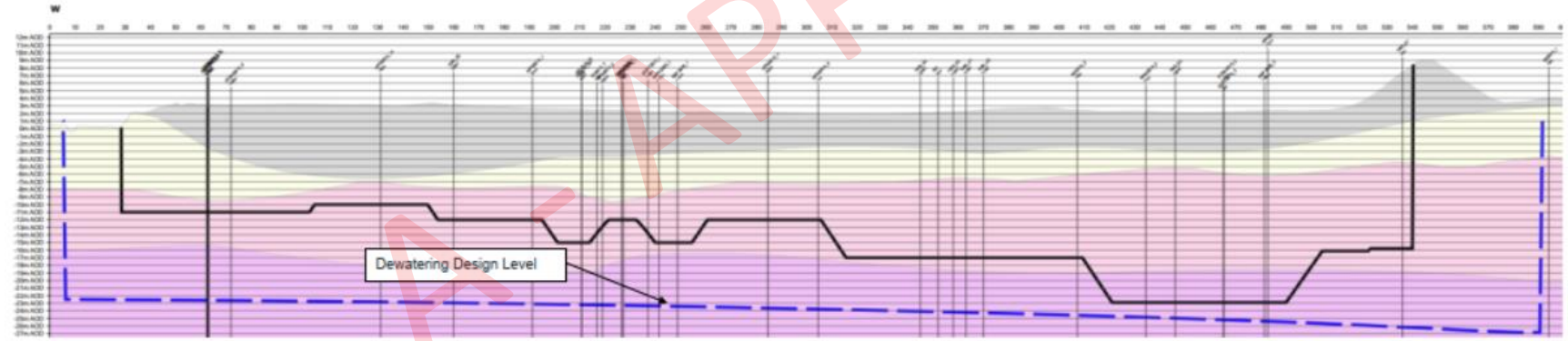


Figure 2-3 South PBOE Section based on [1] and [2]

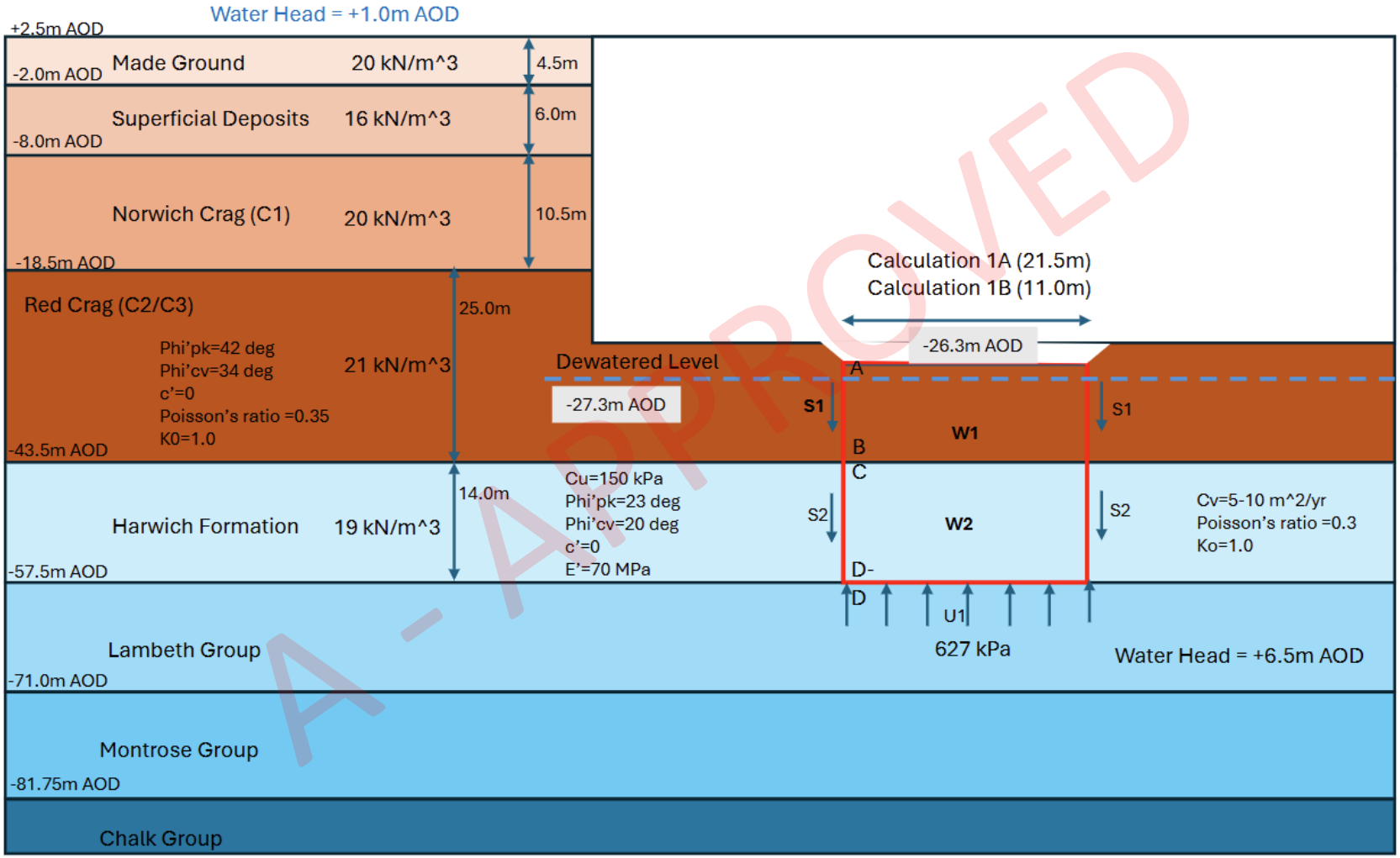
Figure 2: Proposed Excavation Formation Level (Ref 1)

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BASAL STABILITY ASSESSMENT DURING THE TEMPORARY EXCAVATION OF THE MAIN CONSTRUCTION AREA



Calculations 1A & 1B – Uplift Stability

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Calculation 1A: **Uplift Stability** **(Effective Excavation level taken as -26.3m AOD)**

Ground level =	2.5	m AOD
Excavation level =	-26.3	m AOD
Dewatered Level =	-27.3	m AOD
Bulk unit weight (water)	9.8	kN/m^3
Ko Red Crag =	1.0	
Ko Harwich Formation =	0.7	
Kp for Red Crag =	5.0	
Kp for Harwich Formation =	2.3	

Ko check

Shear strength (effective stress)	155	kPa
Undrained shear strength	150	kPa

		Initial Condition			Excavation at formation level		
	Reduced Level	Total stress	Pore pressure	Vertical effective stress	Total stress	Pore pressure	Vertical Effective stress
	m AIOD	kPa	kPa	kPa	kPa	kPa	kPa
At A	-26.3	559.8	267.5	292.3	0.0	0.0	0.0
At A-1.0m	-27.3	580.8	277.3	303.5	21.0	0.0	21.0
At A-2.0m	-28.3	601.8	287.1	314.7	42.0	9.8	32.2
At A-3.0m	-29.3	622.8	296.9	325.9	63.0	19.6	43.4
At B	-43.5	921.0	436.1	484.9	361.2	158.8	202.4
At C	-43.5	921.0	436.1	484.9	361.2	158.8	202.4
At D	-57.5	1187.0	627.2	559.8	627.2	627.2	0.0

	Reduced Level m AOD	Change in vertical effective stress (kPa)	Change in lateral effective stress (kPa)	Initial lateral stress (kPa)	Final lateral stress (kPa) ignoring Kp limit	Passive limit on lateral stress (kPa)	Final lateral stress (kPa)
At A	-26.3	292.3	157.4	292.3	134.9	0.0	0.0
At A-1.0m	-27.3	282.5	152.1	303.5	151.4	105.9	105.9
At A-2.0m	-28.3	282.5	152.1	314.7	162.6	162.4	162.4
At A-3.0m	-29.3	282.5	152.1	325.9	173.8	218.9	173.8
At B	-43.5	282.5	152.1	484.9	332.8	1021.2	332.8
At C	-43.5	282.5	121.1	339.4	218.4	462.1	218.4
At D	-57.5	559.8	239.9	391.9	151.9	0.0	0.0

Width of excavation (m) = **21.5 m**

Force Component	Force		Partial Factor
W1 =	7766	kN	0.90
W2=	5719	kN	0.90
S1 =	3558	kN	0.80
S2 =	649	kN	0.80
U1 =	13485	kN	1.00

Factored Uplift Force =	13485	kN	
Factored Resisting force =	18868	kN	
Adequacy Factor =	1.399	>1.0	ok

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Calculation 1B: Uplift Stability (Effective Excavation level taken as -26.3m AOD)

Ground level =	2.5	m AOD
Excavation level =	-26.3	m AOD
Dewatered Level =	-27.3	m AOD
Bulk unit weight (water)	9.8	kN/m^3
Ko Red Crag =	1.0	
Ko Harwich Formation =	0.7	
Kp for Red Crag =	5.0	
Kp for Harwich Formation =	2.3	

Ko check

Shear strength (effective stress)	155	kPa
Undrained shear strength	150	kPa

	Initial Condition			Excavation at formation level		
	Reduced Level	Total stress	Pore pressure	Vertical effective stress	Total stress	Pore pressure	Vertical Effective stress
	m AIOD	kPa	kPa	kPa	kPa	kPa	kPa
At A	-26.3	559.8	267.5	292.3	0.0	0.0	0.0
At A-1.0m	-27.3	580.8	277.3	303.5	21.0	0.0	21.0
At A-2.0m	-28.3	601.8	287.1	314.7	42.0	9.8	32.2
At A-3.0m	-29.3	622.8	296.9	325.9	63.0	19.6	43.4
At B	-43.5	921.0	436.1	484.9	361.2	158.8	202.4
At C	-43.5	921.0	436.1	484.9	361.2	158.8	202.4
At D	-57.5	1187.0	627.2	559.8	627.2	627.2	0.0

	Reduced Level m AOD	Change in vertical effective stress (kPa)	Change in lateral effective stress (kPa)	Initial lateral stress (kPa)	Final lateral stress (kPa) ignoring Kp limit	Passive limit on lateral stress (kPa)	Final lateral stress (kPa)
At A	-26.3	292.3	157.4	292.3	134.9	0.0	0.0
At A-1.0m	-27.3	282.5	152.1	303.5	151.4	105.9	105.9
At A-2.0m	-28.3	282.5	152.1	314.7	162.6	162.4	162.4
At A-3.0m	-29.3	282.5	152.1	325.9	173.8	218.9	173.8
At B	-43.5	282.5	152.1	484.9	332.8	1021.2	332.8
At C	-43.5	282.5	121.1	339.4	218.4	462.1	218.4
At D	-57.5	559.8	239.9	391.9	151.9	0.0	0.0

Width of excavation (m) = 11 m

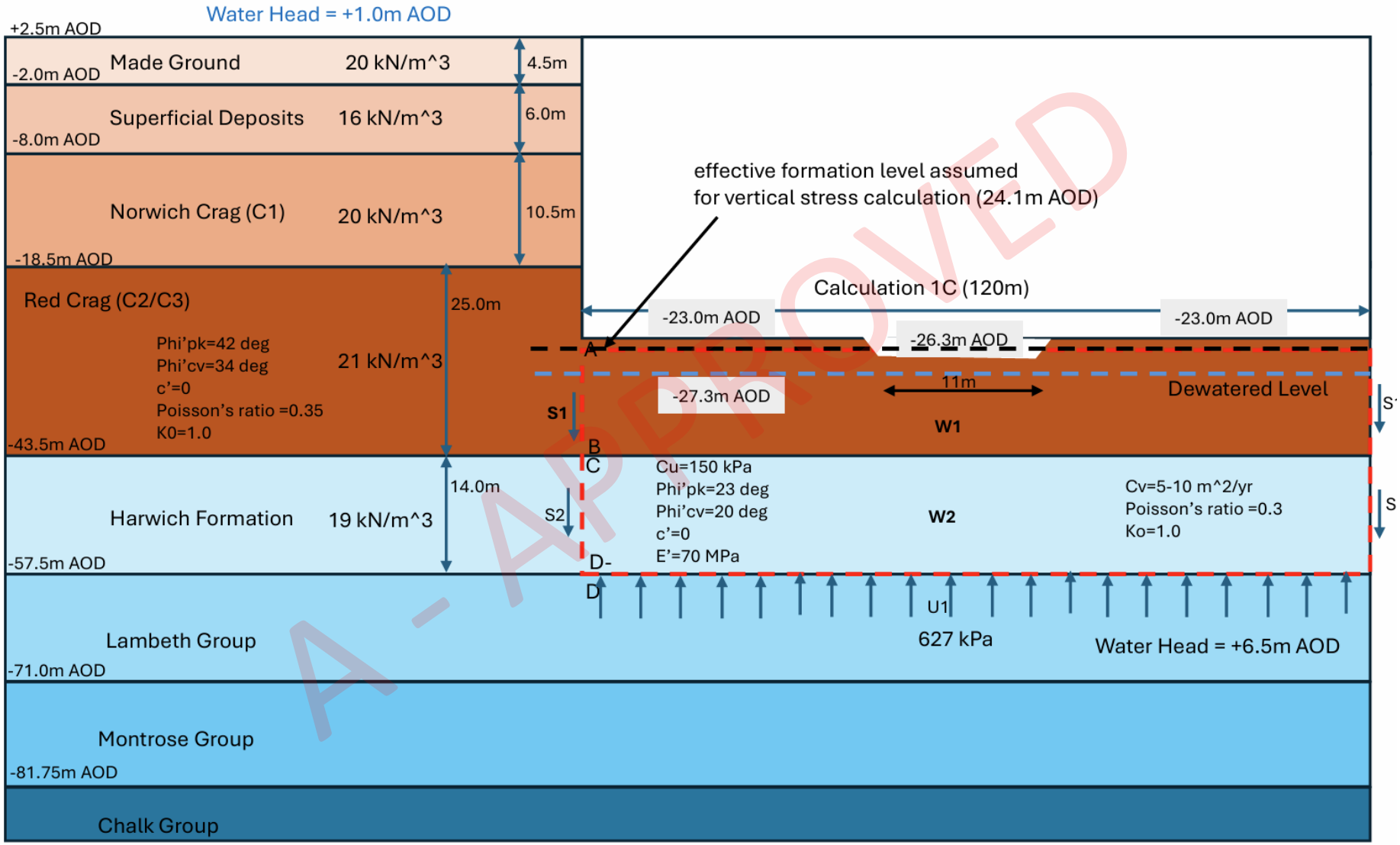
Force Component	Force		Partial Factor
W1 =	3973	kN	0.90
W2=	2926	kN	0.90
S1 =	3558	kN	0.80
S2 =	649	kN	0.80
U1 =	6899	kN	1.00

Factored Uplift Force =	6899	kN	
Factored Resisting force =	12941	kN	
Adequacy Factor =	1.876	>1.0	ok

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Calculations 1C – Uplift Stability

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Calculation 1C: Uplift Stability (Effective Excavation level taken as -24.1m AOD)

Ground level =	2.5	m AOD
Excavation level =	-24.1	m AOD
Dewatered Level =	-27.3	m AOD
Bulk unit weight (water)	9.8	kN/m^3
Ko Red Crag =	1.0	
Ko Harwich Formation =	0.7	
Kp for Red Crag =	5.0	
Kp for Harwich Formation =	2.3	

Ko check

Shear strength (effective stress)	155	kPa
Undrained shear strength	150	kPa

	Initial Condition			Excavation at formation level		
	Reduced Level	Total stress	Pore pressure	Vertical effective stress	Total stress	Pore pressure	Vertical Effective stress
	m AIOD	kPa	kPa	kPa	kPa	kPa	kPa
At A	-24.1	513.6	246.0	267.6	0.0	0.0	0.0
At A-1.0m	-25.1	534.6	255.8	278.8	21.0	0.0	21.0
At A-2.0m	-26.1	555.6	265.6	290.0	42.0	9.8	32.2
At A-3.0m	-27.1	576.6	275.4	301.2	63.0	19.6	43.4
At B	-43.5	921.0	436.1	484.9	407.4	158.8	248.6
At C	-43.5	921.0	436.1	484.9	407.4	158.8	248.6
At D	-57.5	1187.0	627.2	559.8	673.4	627.2	46.2

	Reduced Level m AOD	Change in vertical effective stress (kPa)	Change in lateral effective stress (kPa)	Initial lateral stress (kPa)	Final lateral stress (kPa) ignoring Kp limit	Passive limit on lateral stress (kPa)	Final lateral stress (kPa)
At A	-24.1	267.6	144.1	267.6	123.5	0.0	0.0
At A-1.0m	-25.1	257.8	138.8	278.8	140.0	105.9	105.9
At A-2.0m	-26.1	257.8	138.8	290.0	151.2	162.4	151.2
At A-3.0m	-27.1	257.8	138.8	301.2	162.4	218.9	162.4
At B	-43.5	236.3	127.2	484.9	357.7	1254.3	357.7
At C	-43.5	236.3	101.3	339.4	238.2	567.6	238.2
At D	-57.5	513.6	220.1	391.9	171.7	105.5	105.5

Width of excavation (m) = 120 m

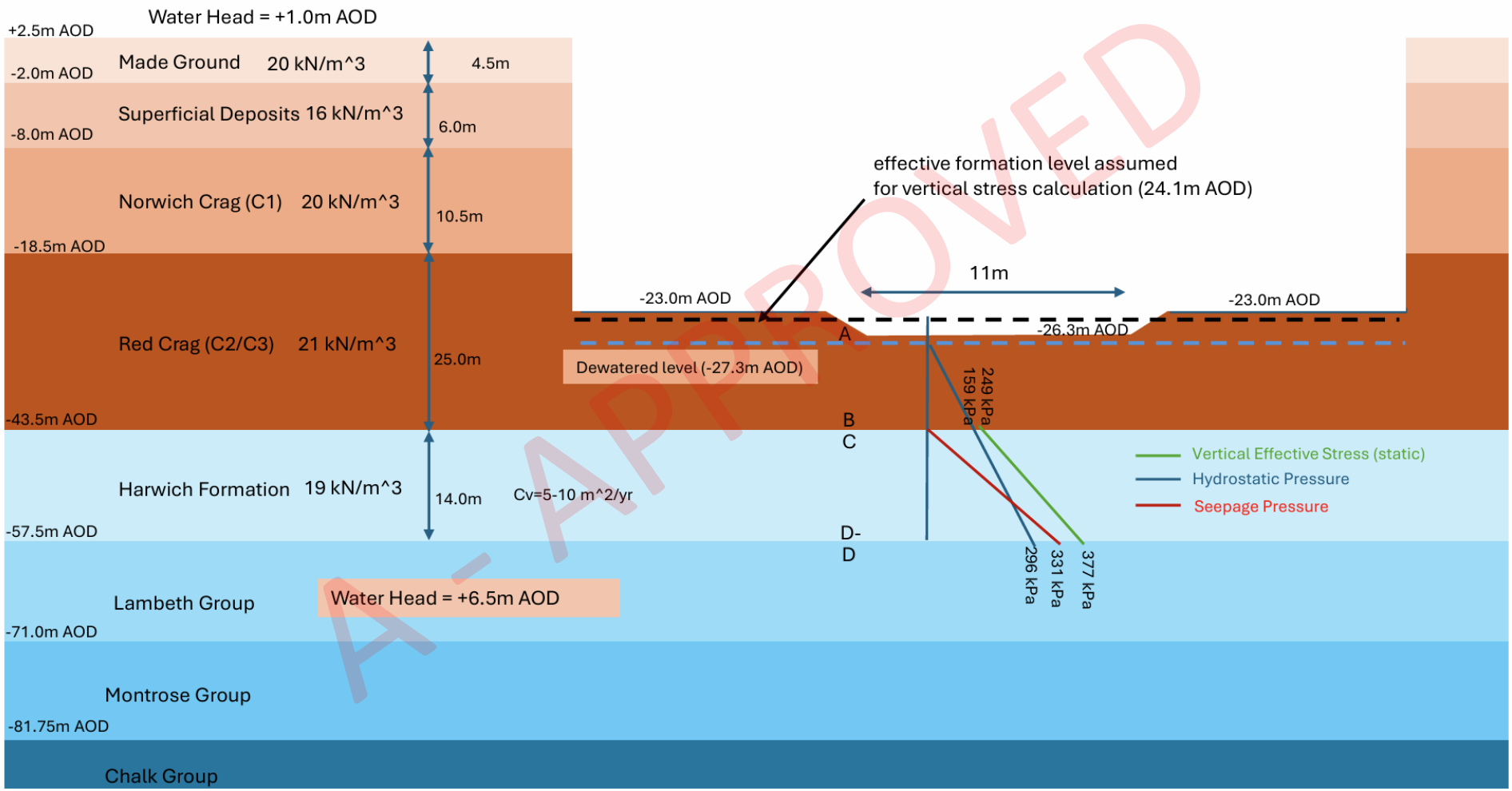
Force Component	Force		Partial Factor
W1 =	48888	kN	0.90
W2=	31920	kN	0.90
S1 =	4145	kN	0.80
S2 =	1021	kN	0.80
U1 =	75264	kN	1.00

Factored Uplift Force =	75264	kN	
Factored Resisting force =	80992	kN	
Adequacy Factor =	1.076	>1.0	ok

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Calculation 2A - Hydraulic Heave Stability

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Calculation 2A: Hydraulic Heave Stability (Effective Excavation level taken as -24.1m AOD)

Ground level =	2.5	m AOD
Excavation Level =	-26.3	m AOD
Effective Excavation level =	-24.1	m AOD
Dewatered Level =	-27.3	m AOD
Bulk unit weight (water) =	9.8	kN/m^3
Partial Factor on vertical effective stress =	0.9	
Partial Factor on Seepage Pressure =	1.0	

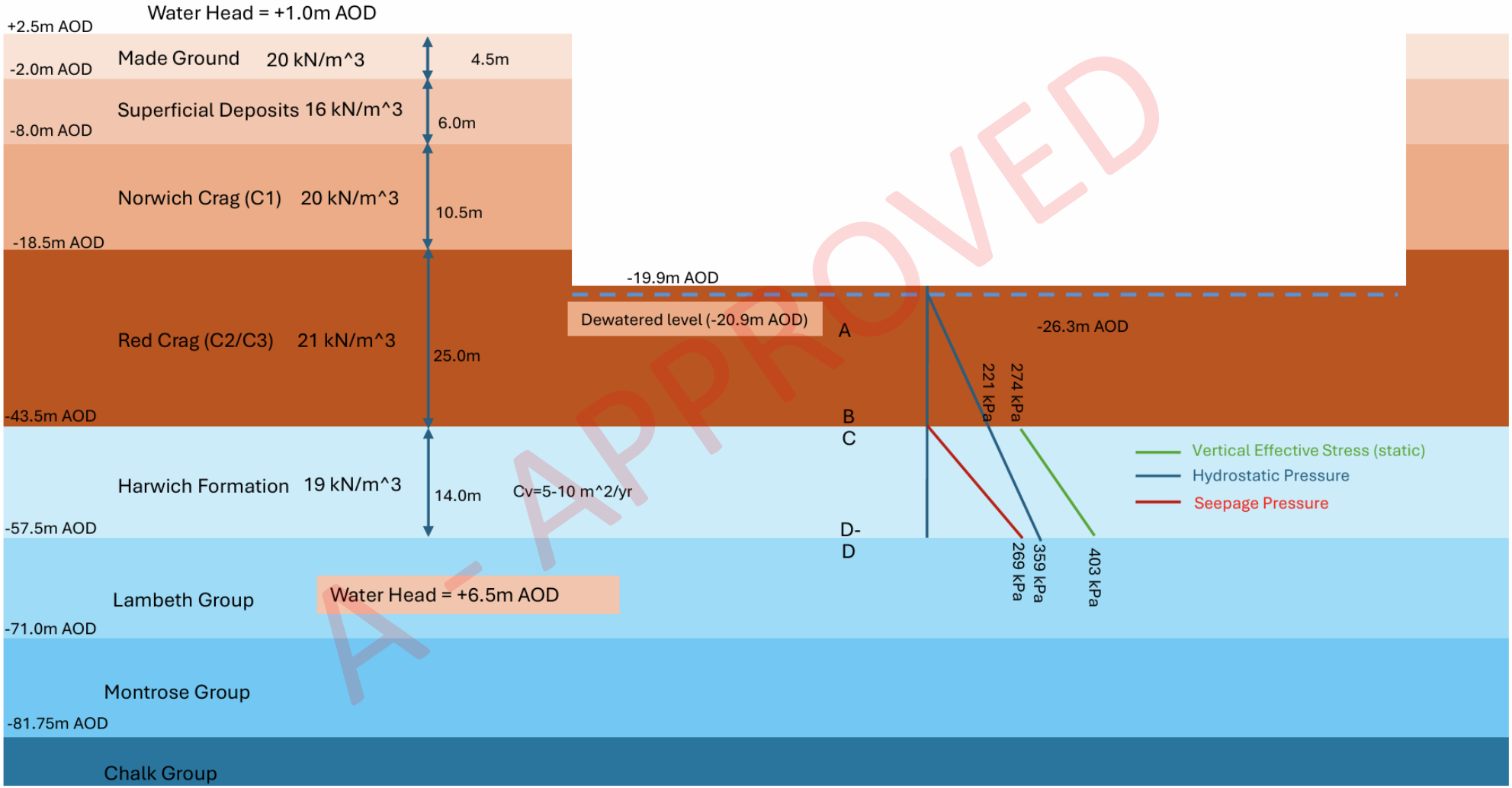
		Initial Condition			Excavation at formation level		
	Reduced Level	Total stress	Pore pressure	Vertical effective stress	Total stress	Pore pressure	Vertical Effective stress
	m AOD	kPa	kPa	kPa	kPa	kPa	kPa
At A	-18.5	513.6	246.0	267.6	0.0	0.0	0.0
At B	-43.5	921.0	436.1	484.9	407.4	158.8	248.6
At C	-43.5	921.0	436.1	484.9	407.4	158.8	248.6
	-45.5	959.0	463.4	495.6	445.4	225.7	219.7
	-47.5	997.0	490.7	506.3	483.4	292.6	190.8
	-49.5	1035.0	518.0	517.0	521.4	359.5	161.9
	-51.5	1073.0	545.3	527.7	559.4	426.4	133.0
	-52.5	1092.0	559.0	533.1	578.4	459.9	118.5
	-53.5	1111.0	572.6	538.4	597.4	493.4	104.0
	-54.5	1130.0	586.3	543.8	616.4	526.8	89.6
	-55.5	1149.0	599.9	549.1	635.4	560.3	75.1
	-56.5	1168.0	613.6	554.5	654.4	593.7	60.7
At D	-57.5	1187.0	627.2	559.8	673.4	627.2	46.2

Reduced Level	Hydrostatic Pressure	Seepage Pressure	Equ. Vertical Eff. Stress.	Fac. Vertical Eff. Stress	Fac. Seepage Pressure	Adequacy Factor
m AOD	kPa	kPa	kPa	kPa	kPa	
-18.5				0.9	1.0	
-43.5	158.8	0.0	248.6	223.8	0.0	
-43.5	158.8	0.0	248.6	223.8	0.0	
-45.5	178.4	47.3	267.0	240.3	47.3	5.08
-47.5	198.0	94.6	285.4	256.9	94.6	2.71
-49.5	217.6	142.0	303.8	273.5	142.0	1.93
-51.5	237.2	189.3	322.2	290.0	189.3	1.53
-52.5	247.0	212.9	331.4	298.3	212.9	1.40
-53.5	256.8	236.6	340.6	306.6	236.6	1.30
-54.5	266.6	260.3	349.8	314.9	260.3	1.21
-55.5	276.4	283.9	359.0	323.1	283.9	1.14
-56.5	286.2	307.6	368.2	331.4	307.6	1.08
-57.5	296.0	331.2	377.4	339.7	331.2	1.03

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Calculation 2B - Hydraulic Heave Stability

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Calculation 2B: Hydraulic Heave Stability (Effective Excavation level taken as -19.9m AOD)

Ground level =	2.5	m AOD
Excavation Level =	-19.9	m AOD
Effective Excavation level =	-19.9	m AOD
Dewatered Level =	-20.9	m AOD
Bulk unit weight (water) =	9.8	kN/m^3
Partial Factor on vertical effective stress =	0.9	
Partial Factor on Seepage Pressure =	1.0	

		Initial Condition			Excavation at formation level		
	Reduced Level	Total stress	Pore pressure	Vertical effective stress	Total stress	Pore pressure	Vertical Effective stress
	m AOD	kPa	kPa	kPa	kPa	kPa	kPa
At A	-18.5	425.4	204.8	220.6	0.0	0.0	0.0
At B	-43.5	921.0	436.1	484.9	495.6	221.5	274.1
At C	-43.5	921.0	436.1	484.9	495.6	221.5	274.1
	-45.5	959.0	463.4	495.6	533.6	279.4	254.2
	-47.5	997.0	490.7	506.3	571.6	337.4	234.2
	-49.5	1035.0	518.0	517.0	609.6	395.4	214.2
	-51.5	1073.0	545.3	527.7	647.6	453.3	194.3
	-52.5	1092.0	559.0	533.1	666.6	482.3	184.3
	-53.5	1111.0	572.6	538.4	685.6	511.3	174.3
	-54.5	1130.0	586.3	543.8	704.6	540.3	164.3
	-55.5	1149.0	599.9	549.1	723.6	569.2	154.4
	-56.5	1168.0	613.6	554.5	742.6	598.2	144.4
At D	-57.5	1187.0	627.2	559.8	761.6	627.2	134.4

Reduced Level	Hydrostatic Pressure	Seepage Pressure	Equ. Vertical Eff. Stress.	Fac. Vertical Eff. Stress	Fac. Seepage Pressure	Adequacy Factor
m AOD	kPa	kPa	kPa	kPa	kPa	
-18.5				0.9	1.35	
-43.5	221.5	0.0	274.1	246.7	0.0	
-43.5	221.5	0.0	274.1	246.7	0.0	
-45.5	241.1	38.4	292.5	263.3	51.8	5.08
-47.5	260.7	76.7	310.9	279.8	103.6	2.70
-49.5	280.3	115.1	329.3	296.4	155.4	1.91
-51.5	299.9	153.4	347.7	312.9	207.1	1.51
-52.5	309.7	172.6	356.9	321.2	233.0	1.38
-53.5	319.5	191.8	366.1	329.5	258.9	1.27
-54.5	329.3	211.0	375.3	337.8	284.8	1.19
-55.5	339.1	230.2	384.5	346.1	310.7	1.11
-56.5	348.9	249.3	393.7	354.3	336.6	1.05
-57.5	358.7	268.5	402.9	362.6	362.5	1.00

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Calculation 2C – Dissipation Time

Solution using parabolic isochrones (Solution for $t < t_c$ case

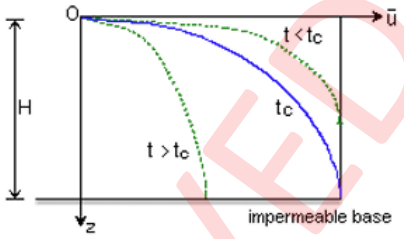
- Solution for $t > t_c$ case

Isochrones can be approximated to parabolas, affording reasonably accurate solutions to the differential equation for one-dimensional consolidation. Solutions must be obtained for two separate, but adjoining, cases:

· When the elapsed time (t) is less than the **critical time (t_c)**

· When the elapsed time (t) is greater than the **critical time (t_c)**

The **critical time** is the time that must elapse before the excess pore pressures at the impermeable base first begin to dissipate.



Solution for t < tc case

Putting time factor

$$T_v = \frac{c_v t}{d^2}$$

and average degree of consolidation,

$$U_t = \frac{\Delta\rho_t}{\Delta\rho_\infty}$$

the general solution is

$$U_t = \frac{2}{\sqrt{3}}\sqrt{T_v}$$

This is valid for $0 < t < tc$

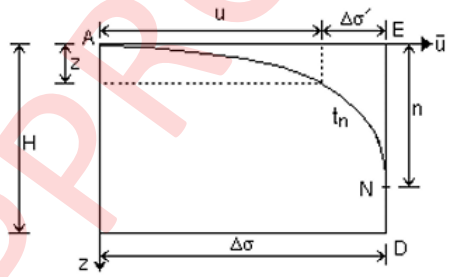
At $t = t_c$, $n = H = \sqrt{12 c_v t}$

Giving

$$T_v = \frac{1}{12}$$

and

$U_t = 0.3333$



cv	20.0	m^2/yr
H	7.0	m
Tv	0.083	
tc	74.5	days

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101753758
Revision 01

Sizewell C
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Sizewell C Project
MCA/WRA/2: Package to Inform Countryside and Rights of Way Act Assessment and Habitats Regulations Assessment

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Reviewed by:	[redacted] Environmental Permitting Delivery Lead
Approved by:	[redacted] Environmental Manager- Construction Permits and Consents

REVISION HISTORY

Rev	Status	Amendment	Prepared By	Date
00	Draft	For review and comment	[redacted]	13/04/2026
01	Final	For Issue		29/06/2026

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1 INTRODUCTION

1.1 Permit Details

1.1.1.1 As part of the development of the Nuclear Power Station at Sizewell C, groundwater dewatering within the Cut Off Wall (COW) is required to enable the construction works at the Main Construction Area (MCA) to proceed as planned. This permit application, reference number MCA/WRA/2, is an application for a Water Resource Abstraction Licence (WRAL), proposed to enable dewatering within the COW within the MCA.

1.1.1.2 Through the Environment Agency (EA) Screening Tool, a risk has been identified to the following sites from the activities of MCA/WRA/2:

- Sizewell Marshes Site of Special Scientific Interest (SSSI);
- Minsmere to Walberswick Heath and Marshes SSSI;
- Minsmere to Walberswick Heaths and Marshes Special Area of Conservation (SAC);
- Minsmere-Walberswick Special Protection Area (SPA) and Ramsar site; and
- the Marsh Harrier Compensation Habitat.

Therefore, this package has been put together to aid the EA in completing their Habitats Regulations Assessment (HRA) and Countryside and Rights of Way Act (CRoW) assessment for this permit. Locations of the features of interest are shown on MCA/WRA/2 Existing Monitoring Locations Layout Plan (**Figure 1**).

1.2 Definitions

Term / Abbreviation	Definition
AOD	Above Ordnance Datum
COW	Cut Off Wall
CRoW	Countryside and Rights of Way Act
DCO	The Sizewell C (Nuclear Generating Station) Order 2022
EA	Environment Agency
EDRMS	Electronic Document and Records Management System
ES	Environmental Statement
HDPE	High-Density Polyethylene
HRA	Habitats Regulations Assessment
MCA	Main Construction Area
mm	Millimetre
NEAC	North East Anglian Chalk
NGR	National Grid Reference
SAC	Special Area of Conservation
SPA	Special Protection Area
SSSI	Site of Special Scientific Interest
TCA	Temporary Construction Area
WMMP	Water Monitoring and Management Plan

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Term / Abbreviation	Definition
WRAL	Water Resource Abstraction Licence

1.3 References

Ref	Title	Location	Document No/ Link
1	MCA/WRA/2 Existing Monitoring Locations Layout Plan	EDRMS	101753912
2	Piezometer Layout Tile-A20	EDRMS	101192187
3	Dewatering Well and Piezometer Layout Tile-A29	EDRMS	101192180
4	MCA/WRA/2 Groundwater Control Technical Note	EDRMS	101753915
5	DCO Requirement 11: Water Monitoring and Management Plan, Revision 1.0 (April 2024, East Suffolk Council ref: DC/24/0471/DRR)	Online	https://publicaccess.eastsuffolk.gov.uk/online-applications/applicationDetails.do?activeTab=documents&keyVal=S8JA5GQX06O00
6	NNB Generation Company (SZC) Limited, Volume 2 Chapter 19, Appendix A Groundwater and Surface Water: Numerical Modelling Report, Revision 1.0, May 2020	Online	https://nsip-documents.planninginspectorate.gov.uk/published-documents/EN010012-001914-SZC_Bk6_ES_V2_Ch19_Groundwater_and_Surface_Water_Appx19A_Part_1_of_6.pdf
7	EW0400 Groundwater Modelling – DCO Modelling Report	P01	101726967
8	MCA/WRA/2 Water Monitoring Technical Note	002	101753906
9	NNB Generation Company (SZC) Limited, Statement of Common Ground, Environment Agency, October 2018.	Online	https://infrastructure.planninginspectorate.gov.uk/wp-content/ipc/uploads/projects/EN010012/EN010012-008186-Sizewell%20C%20Project%20-%20Final%20SoCG%2027.pdf#page=13
10	MCA/WRA/2 Proposed Monitoring Locations	EDRMS	101793469
11	NNB Generation Company (SZC) Limited, Environmental Statement, Volume 2 Main Development Site, Chapter 19 Groundwater and Surface Water, Revision 1.0. May 2020.	Online	https://nsip-documents.planninginspectorate.gov.uk/published-documents/EN010012-001912-SZC_Bk6_ES_V2_Ch19_Groundwater_and_Surface_Water.pdf#page=10)
11	MCA/WRA/2 Groundwater Modelling Data Sets	EDRMS	101861912

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1.4 SSSI and Habitat Sites

1.4.1.1 The following SSSI, SACs, SPAs and Ramsar sites have the potential to be affected by the EA's pre-identified risks according to initial EA screening. The locations of European sites within the context of the abstraction are shown on **Figure 1**.

Table 1 - Sensitive Receptor Sites

Sensitive Receptor Site	Distance from Permit location
Sizewell Marshes SSSI *	0.03 km W from COW
Minsmere to Walberswick SSSI	0.07 km N from COW
Minsmere to Walberswick Heaths and Marshes SAC	0.07 km N from COW
Minsmere-Walberswick SPA	0.07 km N from COW
Minsmere-Walberswick Ramsar site	0.07 km N from COW
Marsh Harrier Compensation Habitat **	0.78 km NW from COW

* Note that part of the Sizewell Marshes has been used for the Sizewell C land-take to enable construction. Land-take and compensation due to habitat loss have been agreed at Development Consent Order (DCO) stage.

** Compensation habitats assessed as functional designated sites for this permit application.

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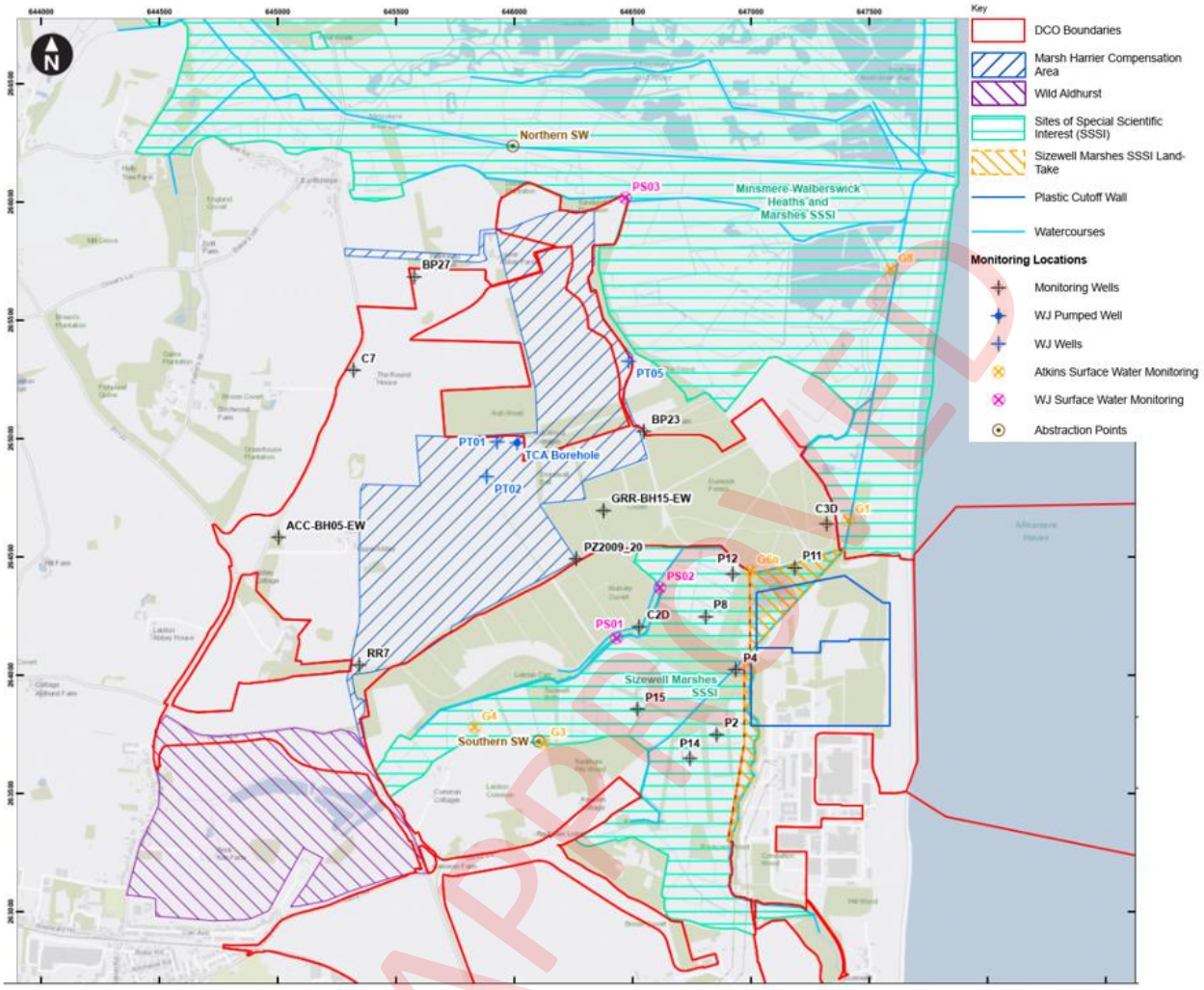


Figure 1 – Designated sites within the context of the cut off wall [Ref. 1]

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2 TECHNICAL INFORMATION

2.1 Permit MCA/WRA/2

2.1.1 Details of abstraction method; pump type and location (including national grid references), borehole specifics etc

2.1.1.1 The proposed methodology is to abstract groundwater from the Crag Formation. This abstraction will take place via multiple boreholes located within a plastic (mixture of concrete and bentonite) cut off wall. Their location and depth are shown on Dewatering Well and Piezometer Layout Tile-A20 [Ref. 2] and Dewatering Well and Piezometer Layout Tile-A29 [Ref. 3]. The grid references are below and the cut off walls which show the boundary of the two abstraction areas (Unit 1 and Unit 2) are shown on **Figure 1** on the previous page.

Name of the abstraction including how you have labelled on map	Type of location (single point, reach or area)	First 12-character national grid reference	Second 12-character national grid reference	Third 12-character national grid reference	Fourth 12-character national grid reference
Example Marked A on the map	Single point	ST 12345 67890			
Unit 1	area	TM 47026 64348	TM 47396 64420	TM 47559 64306	TM 47588 64306
	Please select	TM 47588 64151	TM 47416 64150	TM 47416 64142	TM 47293 64142
	Please select	TM 47293 64094	TM 47173 64094	TM 47173 64115	TM 47026 64115
Unit 2	area	TM 47026 64115	TM 47173 64115	TM 47173 64094	TM 47293 64094
	Please select	TM 47293 64142	TM 47416 64142	TM 47416 64150	TM 47588 64151
	Please select	TM 47588 63787	TM 47001 63787	TM 47001 64052	TM 47026 64091

2.1.1.2 Dewatering will take place by abstraction of groundwater from a number of specially drilled boreholes installed within the perimeter of the proposed COW (refer to MCA/WRA/2 Groundwater Control Technical Note, Ref. 4). These boreholes will be constructed to abstract groundwater from the Crag Formation. All abstraction will be inside the low permeability plastic COW, which will completely enclose the MCA and extend into the underlying Harwich Formation to create a hydraulic barrier.

2.1.2 Pump test results

2.1.2.1 Pumping tests have not currently been undertaken for the proposed dewatering operation. Given that the dewatering will be taking place within the COW and this wall has not yet been installed, pumping tests at this time would not present an accurate assessment of the impacts of this dewatering operation. Commissioning of the dewatering system needs to be undertaken ahead of the operational phase. This will involve testing of the system to ensure that it operates as intended.

2.1.3 Groundwater modelling

2.1.3.1 Abstraction is anticipated to occur from 2027 with an initial flow rate of 250 L/s during the drawdown phase from both the northern and southern abstraction areas, with this then decreasing to an estimated maximum of 50 L/s throughout the maintenance phase. Due to the phasing of works the drawdown phase is not anticipated to be continuous as one of these abstraction areas will commence dewatering once fully enclosed by the COW, which will then be extended to enclose the

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other unit. The maintenance phase is expected to last ~10 years (subject to project delivery requirements).

2.1.3.2 The impact of this abstraction has been assessed using results from the two available numerical groundwater models in the area, which are the EA's North East Anglian Chalk (NEAC) model and the Sizewell C-specific groundwater model developed for the DCO. The EA NEAC model is a regional model, but the DCO model is a site-specific groundwater model specifically created to assess the impacts at the area near the proposed works. It is therefore the most detailed model to apply.

2.1.3.3 Modelling was conducted for each of the four years following the start of Temporary Construction Area (TCA) borehole (covered by permit TCA/WRA/16) abstraction (with year 2 including the MCA COW and year 3 being the start of MCA dewatering). The data presented below in Figure 2 are for observation locations requested by the EA for the TCA/WRA/16 permit, located at the edge of the SSSIs (named north, east and south).

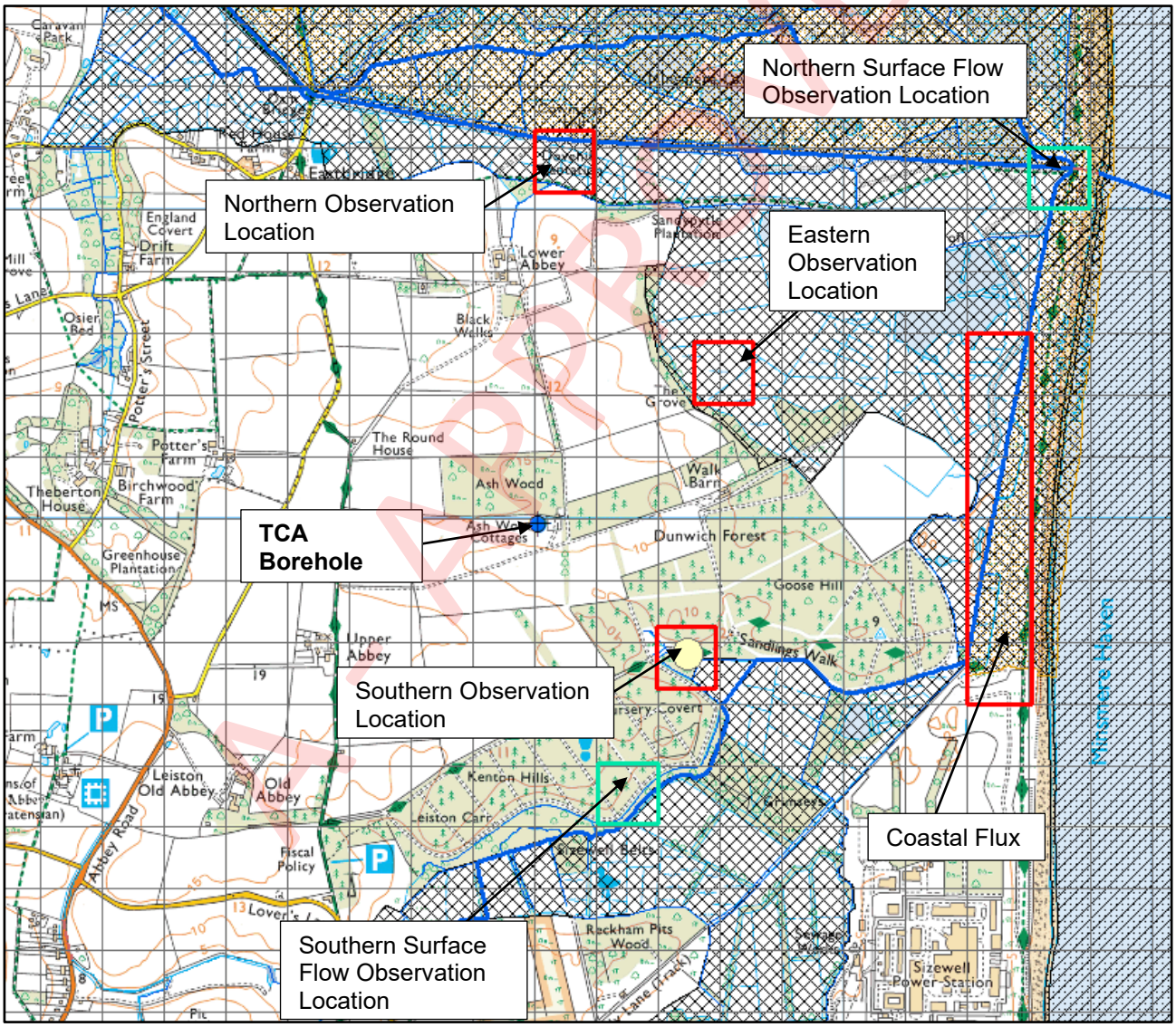


Figure 2 – Model assessment point locations from the TCA borehole permit

2.1.3.4 The modelling data shows that the modelled drawdown at the three observation locations, in the Peat, is lower than the drawdown reported at the abstraction location. The maximum drawdown in

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the Peat after four years of abstraction is 0.12 m at the eastern observation location, 0.09 m at the northern observation location and 0.13 m at the southern observation location. Comparison of modelled values show that the dewatering of the MCA has a limited combined impact on the eastern and northern observation locations with a minor increase in drawdown of 0.02 and 0.01 m, respectively. The drawdown at the abstraction location itself is also generally similar, with a maximum increase of 0.03 m.

2.1.3.5 The southern observation location reports the largest increase, with the Peat reporting a difference of 0.06 m and the Crag (top and bottom) reporting a 0.1 m increase. The southern observation location is the closest observation location to the MCA dewatering, located on the edge of the Sizewell Marshes SSSI, and so has the most potential for combined interaction with the dewatering. The final drawdown plot (including the impact of the MCA dewatering and the TCA borehole assuming they are both operational at the same time) based on the Sizewell C groundwater model reported in the Water Monitoring and Management Plan (WMMP) [Ref. 5] shows that the drawdown across the Peat of the Sizewell Marshes SSSI generally remains below 0.1 m, with a small number of highly localised islands with drawdown above 0.1m yet still below 0.2m. These islands may reflect a model artefact rather than acting as a specific predictor of locations where drawdown will exceed 0.1m. This is comparable to the distribution of drawdowns reported in the baseline DCO modelling across the Sizewell Marshes SSSI. Since the drawdown is less than 0.1m, the drawdown at more distant locations (Marsh Harrier Compensation Habitat) will be negligible.

2.1.3.6 Further modelling has been undertaken by Atkins [Ref. 7] to provide groundwater modelling data for groundwater monitoring points within close proximity to key ecological receptors. A summary of this showing the modelled baseline groundwater, groundwater levels with construction, drawdown levels and date, for the dates of maximum anticipated drawdown at each receptor, both with and without operation of the TCA borehole, has been included in **Appendix B** and the full modelled data has been submitted electronically.

2.1.4 Surface water modelling

2.1.4.1 The surface flow/groundwater interaction data has been modelled and analysed and is summarised in **Table 1** below.

Table 1 - Surface Flow Data

Discharge Parameter (m^3/s unless specified)	Northern Surface Flow Observation Location		Southern Surface Flow Observation Location	
	DCO	DCO including TCA Borehole Abstraction	DCO	DCO including TCA Borehole Abstraction
Q95^	0.002	0.00078	0.025	0.025
Q95^ (Ml/d)	0.173	0.067	2.177	2.143
Minimum	-0.26	-0.27	-0.07	-0.06
Maximum	0.46	0.46	0.34	0.35
Total Discharge*	527.42	517.45	475.47	472.61
Total Positive Discharge*	546.71	537.65	475.72	472.96
Total Negative Discharge*	-19.29	-20.19	-0.25	-0.35

^Q95 for dry model run (4 years).
*Total discharge is the cumulative discharge (m^3/s) across the four years of model run
Negative discharge values indicate modelled periods of reversed, upstream, flow at the selected location. These may occur due to e.g. sea level change and inundation or storm events.

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2.1.4.2 The modelled Q95 values are not directly comparable to assessment values provided by the EA, because of the location of measurement points, the nature of the model setup (running of a dry model scenario) and associated model calibration and constraints. The original model objectives were not to model flow rates within surface water courses and, whilst calibration of such was undertaken, they could be subject to significant errors (as discussed in the 2020 numerical modelling report, Ref. 6). As such, a comparison between the baseline (DCO) and scenario (DCO plus proposed abstraction) model has been undertaken. The modelled data indicates that the abstraction will have little impact on surface water-groundwater interaction at the Sizewell Marshes SSSI or further afield.

2.1.4.3 The reported data and calculated Q95 show that the proposed abstraction will have little impact on the southern surface flow observation location (Leiston Drain, located in the Sizewell Marshes SSSI) with the data suggesting almost no change in Q95 and similar minimum and maximum flow values. The northern surface water flow observation location (representing the confluence of the Leiston Drain and Minsmere New Cut) reports a slightly greater change with a slight reduction in the calculated Q95. However, the minimum and maximum flow rates at the northern location remain similar.

2.1.4.4 The northern location is considered less representative of the area in the vicinity of the MCA and is likely to be less well represented in the model as it is close to/at the northern edge of the model domain. This northern location is therefore less likely to be a reliable representation of flow, as was acknowledged in the 2020 numerical modelling report [Ref. 6]. The Minsmere River and its flow is not included in the model and the model boundary conditions may have a large impact on the conditions at this location.

2.1.4.5 As stated above, the modelled data indicates that the abstraction will have little impact on surface water-groundwater interaction at the Sizewell Marshes SSSI, which is considered to be the more reliable and representative data point for the purposes of this assessment.

2.1.5 Estimation of any habitat loss

2.1.5.1 There will be no habitat loss arising from this permit.

2.1.6 Details of proposed quantities and abstraction period

2.1.6.1 Flows of groundwater from the dewatering are currently anticipated to be up to 250 L/s for an initial drawdown phase. The flow is then anticipated to reduce to ~25-50 L/s during the maintenance phase, subject to the construction programme. The maximum flow rate will be limited by pump capacity. The maintenance phase is expected to last ~10 years (subject to project delivery requirements).

2.1.7 Hydrological impact assessment

2.1.7.1 Given the small magnitude of change predicted outside the COW it is not considered that there is a mechanism for impact on any of the identified receptors. The DCO modelling [Ref. 7] indicated that the expected drawdown within the Crag resulting from a flow of 250 L/s during the drawdown phase and then ~25-50 L/s during the maintenance phase, would result in a drawdown of less than 0.2m at all Habitats sites and at all non-destroyed management units of Sizewell Marshes SSSI.

2.1.7.2 Given the magnitude of the drawdown in both the Crag and the overlying Peat, designated sites, as well as the nearby surface water bodies, are not likely to be significantly affected by the dewatering operation. Given the hydraulic separation between Crag groundwater and the shallow water environment which supports the ecological features of interest in the Minsmere SSSI, as well as the limited extent of observable change in Crag groundwater levels shown in the modelling, there is not a mechanism for impact to the hydraulic function of the shallow groundwater environment.

2.1.7.3 Taking into account the small magnitude of change predicted outside the abstraction borehole, it is not considered that there is a credible mechanism for effect at any of the identified receptors.

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2.1.8 Details of any water level/flow monitoring undertaken including location(s) of monitoring, frequency and data acquired

2.1.8.1 In support of the DCO a numerical model was developed to represent the groundwater and surface water regime in the area of the Sizewell C development. The area covered by the model domain is approximately 62 km^2. The numerical model was based on a robust conceptual understanding of the groundwater and surface water flow regimes based on extensive ground investigation and monitoring data. The Sizewell C model was developed to allow appropriate interface with the EA's regional model (the NEAC model). This meant that suitable boundary conditions could be determined, and model predictions validated against the NEAC model, particularly within the Sizewell Marshes SSSI. Within the domain of the Sizewell C model, the grid was refined around areas of interest to allow greater resolution in assessing change, for example, in the Sizewell Marshes SSSI grid cells were reduced to be less than 1m in scale. The model includes a coupled representation of groundwater and surface water in the Sizewell Marshes SSSI, which allows change in the interaction between groundwater and surface water to be assessed at each timestep in the model runs.

2.1.8.2 The numerical model was calibrated against real world monitoring data to demonstrate that there is a high degree of correlation between the model behaviour and observed groundwater and surface water responses. Once the baseline model had been developed and validated against real world data as being suitably representative a series of model runs were undertaken to allow the change associated with individual aspects of the Sizewell C project to be assessed.

2.1.8.3 The WMMP outlined existing monitoring efforts, consisting of 86 borehole locations to monitor groundwater, velocity and stage monitoring at 7 locations to monitor surface water and a weather station to monitor rainfall.

2.1.8.4 Subsequent to the DCO, monitoring of water levels and flows within the Sizewell Marshes has continued. During the revision of the WMMP [Ref. 5], more recent (post-DCO) monitoring data was compared to that used during the DCO assessments. This comparison showed that the characterisation of baseline conditions in the Sizewell Marshes SSSI established prior to the DCO remains valid, with no significant deviation in monitoring data. This is set out in para. 4.2.11 of the WMMP, approved to discharge Requirement 11 of the DCO.

2.1.8.5 Details of monitoring proposals specifically for MCA/WRA/2 are provided in accompanying document MCA/WRA/2 Water Monitoring Technical Note [Ref. 8].

2.1.9 Details of water quality of any water intending to be discharged as part of a dewatering operation

2.1.9.1 Groundwater abstracted under this permit is being discharged under a different permit (MDS/CWDA/13). As such water quality for discharged water has been assessed within that permit application.

2.1.10 Details/assessment of prevailing environmental conditions

2.1.10.1 During the DCO Examination a note was produced that set out the water balance in the Sizewell Marshes. Paras. 1.4.14-15 of this note states that (in summary) the majority of the surface water levels and flows within the Sizewell Marshes are comparable between baseline and development model runs through the year. The exception is in the Sizewell Drain at the downstream end of the Sizewell Marshes. Here, there is a small increase in the maximum predicted flow rate, and the frequency at which it occurs. This is associated with the realigned Sizewell Drain. There is little or no change predicted in the Leiston Drain, downstream of the SSSI.

2.1.10.2 The assessment made during the DCO was based on data and evidence collected prior to submission of the DCO and supporting documentation, this included the WMMP [Ref. 5]. This was agreed with the EA in the Statement of Common Ground (MDS_GW8) [Ref. 9].

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2.1.10.3 Subsequent to the DCO, monitoring of water levels and flows within the Sizewell Marshes has continued. During the recent revision of the WMMP more recent (post-DCO) monitoring data was compared to that used during the DCO assessments. This comparison showed that the characterisation of baseline conditions in the Sizewell Marshes SSSI established prior to the DCO remains valid, with no significant deviation in monitoring data. Given the proximity and comparable nature of the setting to that of the Sizewell Marshes the conditions in both the Minsmere sites and the Marsh Harrier Compensation Area are considered to be broadly comparable to that in Sizewell Marshes SSSI. As the nature of the predicted change (magnitude and extent) is also comparable between the sites. Sizewell Marshes would act as a proxy for Minsmere and the Marsh Harrier Compensation Area in that any change there would be comparable to that at Minsmere and the Compensation Area, and as such any change that triggers an intervention would be the same for both.

2.1.11 Details of any mitigation

2.1.11.1 Measures are being implemented to address the impacts of the overall project (e.g. via the DCO). No mitigation is proposed regarding protecting SSSIs or designated habitat sites with regard to this permit application.

2.1.11.2 It is noted that the principal engineered control to limit the influence of the dewatering is the COW. Should a defect occur in the integrity of the COW as a hydraulic barrier, this may result in a greater than anticipated drawdown of water levels in the Crag outside the COW. Should the defect be sufficiently large this could result in a change in the hydrogeological and hydrological regime.

2.1.11.3 A full description of the groundwater control system is set out in a separate document, MCA/WRA/2 Groundwater Control Technical Note [Ref. 4]. The principle considerations in relation to the proposed monitoring are as follows:

- Any defect in the COW would be identified at the start of dewatering;
- Depending on the scale of the defect and the required corrective action, abstraction may cease if the external drawdown is too great;
- Significant defects would be mitigated by interventions such as injection grouting to improve the performance as a hydraulic barrier;
- Minor defects may be managed by local reinjection of water to reduce drawdown outside the COW; and
- Small defects may be managed through regular monitoring to determine whether one or more of the above interventions is required.

2.1.11.4 A defect in the COW may be identified either by external drawdown in groundwater level or by an increase in the required capacity of the dewatering system. The trigger for action will be exceedance of (or approaching to) trigger levels at set monitoring locations or operational monitoring of the dewatering system requirements (i.e. greater abstraction required to meet the same level of drawdown). The chosen method of repair will depend on the characteristics of the identified defect, in terms of location, extent and scale. Both methods (local reinjection of water or injection grouting) may be selected if either one is assessed as not mitigating the identified defect. Ultimately, the dewatering system will be turned off if required.

2.1.11.5 If a defect is discovered and action such as grouting or groundwater recharge is required, abstraction would be ceased if required (based on breach, or potential breach, of agreed triggers in the external monitoring points around the COW), or volumes reduced, with continued monitoring whilst the impact of the defect and its mitigation are assessed. Localised grouting could be undertaken within a matter of days; recharge would require the installation of specific wells for this purpose, drilling plant would be on site and could mobilise at relatively short notice and install a series of wells within a period of 1 week. Abstraction would restart once the mitigation technique had been applied, with monitoring to assess whether the defect had been rectified sufficiently.

2.1.11.6 Reinjection of water and injection grouting are the two main options considered at this stage based

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on SZB experience, however, we wouldn't preclude the use of other techniques that may be appropriate (e.g. remedial cut off wall) dependent on the characteristics of the defect. Groundwater level monitoring at those locations specified in the monitoring technical note will be utilised to assess if mitigation has been effective. In the case of recharge wells, these may become additional monitoring locations if they can be employed for this purpose. The ultimate control on managing risk to the wider environment remains the drawdown limits to be included in the permit, with these corrective measures being options that can be deployed to allow dewatering to progress should there be a defect in the primary control measure i.e. the hydraulic barrier offered by the COW.

2.1.11.7 The typical steps in the process of localised grouting and recharge are set out below for illustration purposes.

2.1.11.8 Localised grouting:

- Monitoring data identify defect;
- Grout injection plant mobilised to location of defect;
- Drill vertical grouting holes on a pre-defined grid or zone in the area of the defect;
- Inject grout via controlled pumping, likely at low pressure to avoid damage to structural elements, filling from base of each hole upwards;
- Cease injection once grout reaches the surface and allow to cure; and
- Restart abstraction (if ceased) or maintain rate, monitor to assess success of mitigation.

2.1.11.9 Recharge:

- Monitoring data identify defect;
- Drilling plant mobilised to location of defect;
- Series of wells installed through superficial deposits to intersect Crag deposits, installed with slotted casing (steel or High Density Polyethylene (HDPE));
- Screening out of shallow groundwater in peat, re-injection at depth in the Crag deposits to raise pressure in confined strata outside of COW;
- Rate of injection adjusted to capacity of native material, additional wells installed if required; and
- Restart abstraction (if ceased) or maintain rate, monitor to assess success of mitigation.

2.1.11.10 For groundwater recharge, the volume of water required will be dependent on groundwater levels and geological characteristics local to the defect as well as scale of defect and will only be known as mitigation proceeds. This can be characterised by assessment of monitoring data in the external wells around the outside of the COW which will allow the size and location of the defect to be determined based on the magnitude and extent of observed change. Ultimately, the dewatering system will be turned off if required if external groundwater levels do not recover sufficiently.

2.1.11.11 It is proposed to use existing monitoring infrastructure within the Sizewell Marshes SSSI to identify whether there is any unanticipated change in water levels outside the abstraction borehole. Monitoring of water levels is currently undertaken in accordance with the WMMP [Ref. 5], secured under Requirement 11 of the DCO, which was discharged on 09/04/2024. Water levels are monitored at 15-minute intervals at several locations across the Sizewell Marshes SSSI as set out in the WMMP. The scope of this ongoing monitoring is overseen by the Water Management Working Group, which includes representation from the EA. Following initiation of abstraction, water level monitoring data from the locations identified in the WMMP will be reviewed to identify any deviation from baseline pre-abstraction conditions.

2.1.11.12 In addition to the existing monitoring in accordance with the WMMP, it is proposed that further monitoring occur via external piezometers positioned at the perimeter to observe water levels outside the COW [Ref. 10]. These monitoring points will record at least 1 week of data prior to the

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commencement of dewatering operations in order to establish a baseline for water levels at these points.

2.1.11.13 Should monitoring detect any defect in the COW, it is anticipated that this will be detected early in the dewatering process. The rapid identification of any defects would ensure rapid intervention and corrective action. The monitoring points were set between the MCA COW and the designated site boundaries, so that changes in groundwater levels due to dewatering or a defect in the COW, can be detected before the impact propagates to the designated sites. Should monitoring indicate decreased levels due to dewatering operations at the MCA, remedial actions such as adjusting dewatering rates or suspending pumping operations will be implemented until levels are restored and defects along the COW are addressed. If necessary, injection/recharge of the pumped water may be employed along the perimeter piezometers to prevent any reduction in groundwater from extending to adjacent designated sites.

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3 INFORMATION TO INFORM THE IN-COMBINATION ASSESSMENT

3.1 Other plans and projects

3.1.1.1 The permit has the potential to interact in combination with other aspects of the Sizewell C project. However, for key risks this has been factored into the overall assessment work undertaken for the DCO. For example:

- Offsetting habitat creation for habitat loss in the Sizewell Marshes SSSI from Sizewell C as a whole has already been undertaken at Aldhurst Farm, through the fen meadow plan, and in an area of wet woodland to the west of the Grove through the wet woodland plan. There is no significant habitat loss under this permit which will therefore not affect the plant, invertebrate or bird interest features of the SSSI.
- The construction of the MCA platform (including excavating the temporary ditch diversion and infilling the existing ditch, stockpiling arisings, installation of sheet piles, and improvement for the approach embankment) would result in a loss of part of the existing functional floodplain associated with Sizewell Marshes SSSI. However, compensatory flood storage has already been created, and advice from the EA in the DCO Environmental Statement when this was considered alongside floodplain loss due to the MCA identifies that when comparing the maximum water levels for the baseline with the development scheme scenarios, the loss contributes to a maximum relative difference of less than 15mm across the floodplain. As such, compensation would not be required due to the small magnitude, and as floodplain connectivity will not be at risk (Paragraph 19.6.70 Sizewell C ES Volume 2, Chapter 19 Groundwater and Surface Water [Ref. 11]).

3.1.1.2 The following licenced abstractions have been identified within the zone of influence of the dewatering in the EA screening tool. The nearest licenced abstraction points are as follows:

Licenced abstraction	Distance from Permit location	EA Permit Reference
TCA borehole	1.20 km NW from COW	AN/035/0003/016
Northern surface water abstraction point	2.15 km N from COW	7/35/03/*S/0047
Southern surface water abstraction point	0.90 km W from COW	7/35/03/*S/0075

3.1.1.3 Location of the licenced abstraction are shown on **Figure 1** and within the MCA/WRA/2 Water Monitoring Technical Note [Ref. 8].

3.1.1.4 The TCA borehole operation may continue once dewatering commences as water supply for the project will be met by the desalination plant. Therefore, in order to provide a conservative assessment of potential impacts the DCO Modelling Report [Ref. 7] has been produced and considers an overlap in these activities. This assessment shows that the total radius of influence from each activity do not intersect. The modelling of the TCA borehole abstraction in combination with dewatering considers a higher abstraction rate than currently permitted from the TCA borehole. This is to allow an upper envelope of potential impacts to be assessed, however it is considered that any in-combination effects from applications to vary the TCA borehole abstraction rate and increase volumes that can be taken would need to be considered as part of that application rather than MCA/WRA/2.

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3.1.1.5 The North and South surface water abstractions are anticipated to continue during dewatering of the MCA. The modelling assessment also shows that the radius of influence of the MCA dewatering abstraction does not extend to these surface water abstraction points.

3.1.1.6 Although the abstractions listed above lie within the zone of influence (4km) in the EA screening tool, the detailed model produced for this application shows that none actually lie within the zone of influence of the COW dewatering in practice. On the basis that the modelled radius of influence of the MCA dewatering does not extend to any licenced abstractions no location specific monitoring is proposed for inclusion on the permit. Protection of these receptors can be achieved by the proposed monitoring to demonstrate the performance of the COW is in line with the design specification.

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APPENDIX A – EA RISKS

3.1.1.7 The following appendices set out Sizewell C Limited's assessment of EA risks for each permit for each SSSI or Habitat site.

A.1 EA Risks Relevant to Permit MCA/WRA/2 and Sizewell Marshes SSSI

EA Risk	Assemblage of breeding and wintering birds	Ditches	Floodplain fen and lowland mire	Invertebrate assemblages [1]	Lowland mire grassland and rush pasture	Vascular plants	Justification
Reduced dilution capacity	**X**	**X**	**X**	**X**	**X**	**X**	Changes in the flow or the velocity regime of a watercourse, or in groundwater levels, could result in an inability to dilute and manage discharges into the same habitat. Reduced dilution capacity could have a direct effect on some of the interest features for which the SSSI is partly designated (notably the ditch habitat and invertebrate populations) as well as indirectly on other SSSI features through potential effects on prey fish and invertebrates, although the Leiston Drain is only one of many watercourses within the foraging distances of relevant SSSI birds. Abstraction of groundwater related to this permit application have been shown to have minimal impact on water levels and quality in surface water flows and thus won't affect dilution capacity. Results of modelling at the nearest point of Sizewell Marshes SSSI indicate that the drawdowns in the peat would be less than 0.20m, with drawdowns over much of the SSSI being below this and with minimal change to surface water flows. There will be no effects on the SSSI habitats, plants or invertebrates.
Habitat Loss	**X**	**X**	**X**	**X**	**X**	**X**	Abstraction will not cause habitat loss in Leiston Drain or elsewhere in the SSSI (i.e. through drying out of fen and mire) due to the small drawdown levels. Results of modelling at the nearest point of Sizewell Marshes SSSI indicate that the drawdowns in the peat would be less than 0.20m, with drawdowns over much of the SSSI being below this and with minimal change to surface water flows. As a result, there will be no drying out of SSSI habitats or those that support SSSI plants or invertebrate species, or fish on which some SSSI birds feed.
Entrapment/ impingement	**X**	**X**	**X**	**X**	**X**	**X**	Dewatering of groundwater will not result in any entrapment or impingement of fish species on which SSSI birds might prey and would therefore have no indirect effect on the ability of the SSSI to meet its conservation objectives. There will be no direct effects on the SSSI itself and no direct or indirect effects on SSSI habitats, plants or invertebrates.
Changes in water levels or table	**X**	**X**	**X**	**X**	**X**	**X**	Abstraction will not cause reduction in water levels in SSSI fen or mire habitats due to the small drawdown in water levels. Results of modelling at the nearest point of Sizewell Marshes SSSI indicate that the drawdowns in the peat would be less than 0.20m, with drawdowns over much of the SSSI being below this and with minimal change to surface water flows. As a result there will be no change in water levels in Leiston Drain or other SSSI features and therefore no effect on habitats that would support wetland fish or invertebrate species, or aquatic plants, on which some SSSI birds feed. There will be no direct or indirect effects on SSSI habitats, plants or invertebrates.
Change in flow or velocity regime	**X**	**X**	**X**	**X**	**X**	**X**	Abstraction will not cause any change in the flow or velocity regime in Leiston Drain, or other SSSI watercourse, due to the small drawdown in water levels. Results of modelling at the nearest point of Sizewell Marshes SSSI indicate that the drawdowns in the peat would be less than 0.20m, with drawdowns over much of the SSSI being below this and with minimal change to surface

[1] W211 – Open water on disturbed sediments and W314 reed-fen & pools

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EA Risk	Assemblage of breeding and wintering birds	Ditches	Floodplain fen and lowland mire	Invertebrate assemblages [1]	Lowland mire grassland and rush pasture	Vascular plants	Justification
							water flows. As a result there will be no change in flow or velocity in Leiston Drain and therefore no effect on SSSI habitats, plants or fauna dependent on flows in Leiston Drain or Sizewell Drain.
Changes in surface water flooding	**X**	**X**	**X**	**X**	**X**	**X**	Abstraction will not cause any change in surface water flooding within Sizewell Marshes SSSI due to the small drawdown in water levels. Results of modelling at the nearest point of Sizewell Marshes SSSI indicate that the drawdowns in the peat would be less than 0.20m, with drawdowns over much of the SSSI being below this and with minimal change to surface water flows. As a result there will be no change in flooding in the SSSI and therefore no effect on habitats that would support wetland fish or invertebrate species, or aquatic plants, on which SSSI birds feed, or habitats on which SSSI birds might roost in the SSSI. There will be no direct effects on the SSSI itself and no direct or indirect effects on SSSI habitats, plants or invertebrates.
Change in water chemistry	**X**	**X**	**X**	**X**	**X**	**X**	Abstraction will not affect water chemistry in the surrounding area or Leiston Drain. As a result, there will be no effect on habitats that would support wetland fish or invertebrate species, or aquatic plants, on which SSSI birds feed, or habitats on which SSSI birds might roost in the SSSI. There will be no direct effects on the SSSI itself and no direct or indirect effects on SSSI habitats, plants or invertebrates.
Change in salinity regime	**X**	**X**	**X**	**X**	**X**	**X**	Abstraction will not cause any change in the salinity regime in Leiston Drain or other watercourses in the SSSI due to the small drawdown in water levels and the fact that groundwater and surface water are in continuity. Results of modelling at the nearest point of Sizewell Marshes SSSI indicate that the drawdowns in the peat would be less than 0.20m, with drawdowns over much of the SSSI being below this and with minimal change to surface water flows. As a result, there will be no change in salinity regime in SSSI watercourses.
Change in freshwater flows to estuary	**X**	**X**	**X**	**X**	**X**	**X**	The abstraction will not significantly affect flows in the Leiston Drain as results of modelling indicate that the drawdowns in the peat would be less than 0.20m, with drawdowns over much of the SSSI being below this and with minimal change to surface water flows. Additionally, there is no estuarine component to Sizewell Marshes SSSI.

A.2 EA Risks Relevant to Permit MCA/WRA/2 and Minsmere to Walberswick Heaths and Marshes SSSI

EA Risk	Aggregations of breeding and non-breeding birds	Habitats	Invertebrate assemblages	Botanical interest and vascular plant assemblage	Justification
Reduced dilution capacity	**X**	**X**	**X**	**X**	Changes in the flow or the velocity regime of a watercourse could result in an inability to dilute and manage discharges into the same habitat. Reduced dilution capacity could have an indirect effect on some of the interest features for which the SSSI is partly designated through potential effects on prey fish and invertebrates, although the Leiston Drain is only one of many watercourses within the foraging distances of relevant SSSI birds. Abstraction of ground water related to this permit application have been shown to have minimal on water levels and quality in surface water flows and thus won't affect dilution capacity. Results of modelling within Minsmere to Walberswick Heaths and

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EA Risk	Aggregations of breeding and non-breeding birds	Habitats	Invertebrate assemblages	Botanical interest and vascular plant assemblage	Justification
					Marshes SSSI indicate that the drawdowns in the peat would be less than 0.20m, with drawdowns over much of the SSSI being below this and with minimal change to surface water flows. There will be no effects on the SSSI habitats, plants or invertebrates.
Habitat Loss	**X**	**X**	**X**	**X**	Abstraction will not cause habitat loss due to the small drawdown levels. Results of modelling within Minsmere to Walberswick Heaths and Marshes SSSI indicate that the drawdowns in the peat would be less than 0.20m, with drawdowns over much of the SSSI being below this and with minimal change to surface water flows. As a result, there will be no drying out of habitats that would support wetland fish or invertebrate species, or aquatic plants, on which some SSSI birds feed. There will be no direct effects on the SSSI itself and no direct or indirect effects on SSSI habitats, plants or invertebrates.
Entrapment/impingement	**X**	**X**	**X**	**X**	Dewatering of groundwater will not result in any entrapment or impingement of fish species on which SSSI birds might prey and would therefore have no indirect effect on the ability of the SSSI to meet its conservation objectives. There will be no direct effects on the SSSI itself and no direct or indirect effects on SSSI habitats, plants or invertebrates.
Changes in water levels or table	**X**	**X**	**X**	**X**	Abstraction will not cause reduction in water levels in Leiston Drain due to the small drawdown in water levels and the fact that groundwater and surface water are in continuity. Results of modelling within Minsmere to Walberswick Heaths and Marshes SSSI indicate that the drawdowns in the peat would be less than 0.20m, with drawdowns over much of the SSSI being below this and with minimal change to surface water flows. As a result, there will be no change in water levels in Leiston Drain and therefore no effect on habitats that would support wetland fish or invertebrate species, or aquatic plants, on which some SSSI birds feed. There will be no direct effects on the SSSI itself and no direct or indirect effects on SSSI habitats, plants or invertebrates.
Change in flow or velocity regime	**X**	**X**	**X**	**X**	Abstraction will not cause any change in the flow or velocity regime in Leiston Drain due to the small drawdown in water levels outside the sheet piling retaining wall and the fact that groundwater and surface water are in continuity. Results of modelling within Minsmere to Walberswick Heaths and Marshes SSSI indicate that the drawdowns in the peat would be less than 0.20m, with drawdowns over much of the SSSI being below this and with minimal change to surface water flows. As a result, there will be no change in flow or velocity in Leiston Drain and therefore no effect on habitats that would support wetland fish or invertebrate species, or aquatic plants, on which SSSI birds feed. There will be no direct effects on the SSSI itself and no direct or indirect effects on SSSI habitats, plants or invertebrates.
Changes in surface water flooding	**X**	**X**	**X**	**X**	Abstraction will not cause any change in surface water flooding within Minsmere to Walberswick Heaths and Marshes SSSI due to the small drawdown in water levels. Results of modelling within Minsmere to Walberswick Heaths and Marshes SSSI indicate that the drawdowns in the peat would be less than 0.20m, with drawdowns over much of the SSSI being below this and with minimal change to surface water flows. As a result, there will be no change in flooding in the SSSI and therefore no effect on habitats that would support wetland fish or invertebrate species, or aquatic plants, on which SSSI birds feed, or habitats on which SSSI birds might roost in the SSSI. There will be no direct effects on the SSSI itself and no direct or indirect effects on SSSI habitats, plants or invertebrates.
Change in water chemistry	**X**	**X**	**X**	**X**	Abstraction will not affect water chemistry in the surrounding area or Leiston Drain. As a result, there will be no effect on habitats that would support wetland fish or invertebrate species, or aquatic plants, on which SSSI birds feed, or habitats on which SSSI birds might roost in the SSSI. There will be no direct effects on the SSSI itself and no direct or indirect effects on SSSI habitats, plants or invertebrates.

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EA Risk	Aggregations of breeding and non-breeding birds	Habitats	Invertebrate assemblages	Botanical interest and vascular plant assemblage	Justification
Change in salinity regime	**X**	**X**	**X**	**X**	Abstraction will not cause any change in the salinity regime in Leiston Drain due to the small drawdown in water levels Results of modelling within Minsmere to Walberswick Heaths and Marshes SSSI indicate that the drawdowns in the peat would be less than 0.20m, with drawdowns over much of the SSSI being below this and with minimal change to surface water flows. As a result, there will be no change in salinity regime in Leiston Drain and therefore no effect on habitats that would support wetland fish or invertebrate species, or aquatic plants, on which SSSI birds feed. There will be no direct effects on the SSSI itself and no direct or indirect effects on SSSI habitats, plants or invertebrates.
Change in freshwater flows to estuary	**X**	**X**	**X**	**X**	The abstraction will not substantially affect flows in the Leiston Drain. There is no estuary that would be affected by abstraction or discharges via Leiston Drain. The Leiston Drain ultimately drains to the sea via a control structure on Minsmere New Cut. Therefore there will be no change in freshwater flows to sea.

A.3 EA Risks Relevant to Permit MCA/WRA/2 and Minsmere to Walberswick Heaths and Marshes SAC

EA Risk	Annual vegetation of drift lines	European dry heaths	Perennial vegetation on stony banks	Justification
Reduced dilution capacity	**X**	**X**	**X**	All three SAC habitats are dry habitats that rely on freely draining substrates and are not dependent on flowing or standing water, or a high-water table.
Habita Loss	**X**	**X**	**X**	
Entrapment/impingement	**X**	**X**	**X**	
Changes in water levels or table	**X**	**X**	**X**	
Change in flow or velocity regime	**X**	**X**	**X**	
Changes in surface water flooding	**X**	**X**	**X**	
Change in water chemistry	**X**	**X**	**X**	
Change in salinity regime	**X**	**X**	**X**	

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EA Risk	Annual vegetation of drift lines	European dry heaths	Perennial vegetation on stony banks	Justification
Change in freshwater flows to estuary	**X**	**X**	**X**	

A.4 EA Risks Relevant to Permit MCA/WRA/2 and Minsmere-Walberswick SPA

EA Risk	Aggregations of breeding and non-breeding birds[2]	Justification
Reduced dilution capacity	**X**	Changes in the flow or the velocity regime of a watercourse could result in an inability to dilute and manage discharges into the same habitat. Reduced dilution capacity could have an indirect effect on some of the interest features for which the SPA is designated through potential effects on prey fish and invertebrates, although the Leiston Drain is only one of many watercourses within the foraging distances of relevant SPA birds. Drawdown won't affect levels in Leiston drain and thus won't affect dilution capacity, as groundwater is in hydraulic continuity with the Leiston Drain and water will be returned to the drain. Results of modelling indicate that the drawdowns in the peat within the SPA would be less than 0.20m, with drawdowns over much of the SPA being below this and with minimal change to surface water flows.
Habitat Loss	**X**	Abstraction will not cause habitat loss in Leiston Drain due to the small drawdown levels. Results of modelling indicate that the drawdowns in the peat within the SPA would be less than 0.20m, with drawdowns over much of the SPA being below this and with minimal change to surface water flows. As a result, there will be no drying out of habitats that would support wetland fish or invertebrate species, or aquatic plants, on which SPA birds feed. There will be no direct effects on the SPA itself.
Entrapment/impingement	**X**	Dewatering of groundwater will not result in any entrapment or impingement of fish species on which SPA birds might prey and would therefore have no indirect effect on the ability of the SPA to meet its conservation objectives. There will be no direct effects on the SPA itself and no direct or indirect effects on SPA birds.
Changes in water levels or table	**X**	Abstraction will not cause reduction in water levels in Leiston Drain due to the small drawdown in water levels. Results of modelling indicate that the drawdowns in the peat within the SPA would be less than 0.20m, with drawdowns over much of the SPA being below this and with minimal change to surface water flows. As a result, there will be no change in water levels in Leiston Drain and therefore no effect on habitats that would support wetland fish or invertebrate species, or aquatic plants, on which SPA birds feed. There will be no direct effects on the SPA itself.
Change in flow or velocity regime	**X**	Abstraction will not cause any change in the flow or velocity regime in Leiston Drain due to the small drawdown in water levels outside the COW. Results of modelling indicate that the drawdowns in the peat within the SPA would be less than 0.20m, with drawdowns over much of the SPA being below this and with minimal change to surface water flows. As a result, there will be no significant change in flow or velocity in Leiston Drain and therefore no effect on habitats that would support wetland fish or invertebrate species, or aquatic plants, on which SPA birds feed. There will be no direct effects on the SPA itself.
Changes in surface water flooding	**X**	Abstraction will not cause any change in surface water flooding within Minsmere-Walberswick SPA due to the small drawdown in water levels. Results of modelling indicate that the drawdowns in the peat within the SPA would be less than 0.20m, with drawdowns over much of the SPA being below this and with minimal change

[2] See section 3.5 for the full list of avian features

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EA Risk	Aggregations of breeding and non-breeding birds[2]	Justification
		to surface water flows. As a result, there will be no change in flooding in the SPA and therefore no effect on habitats that would support wetland fish or invertebrate species, or aquatic plants, on which SPA birds feed, or habitats on which SPA birds might roost.
Change in water chemistry	**X**	Abstraction will not affect water chemistry in the surrounding area or Leiston Drain. As a result, there will be no effect on habitats that would support wetland fish or invertebrate species, or aquatic plants, on which SPA birds feed, or habitats on which SPA birds might roost in the SSSI. There will be no direct effects on the SPA itself.
Change in salinity regime	**X**	Abstraction will not cause any change in the salinity regime in Leiston Drain due to the small drawdown in water levels. Results of modelling indicate that the drawdowns in the peat within the SPA would be less than 0.20m, with drawdowns over much of the SPA being below this and with minimal change to surface water flows. As a result there will be no change in salinity regime in Leiston Drain and therefore no effect on habitats that would support wetland fish or invertebrate species, or aquatic plants, on which SPA birds feed. There will be no direct effects on the SPA itself.
Change in freshwater flows to estuary	**X**	The abstraction will not affect flows in the Leiston Drain. There is no estuary that would be affected by abstraction or discharges via Leiston Drain. The Leiston Drain ultimately drains to the sea via a control structure on Minsmere New Cut. Therefore there will be no change in freshwater flows to sea.

A.5 EA Risks Relevant to Permit MCA/WRA/2 and Minsmere-Walberswick Ramsar

EA Risk	Criterion 1 (habitats[3])	Criterion 2 (plants, breeding birds and invertebrates[4])	Justification
Reduced dilution capacity	**X**	**X**	Changes in the flow or the velocity regime of a watercourse could result in an inability to dilute and manage discharges into the same habitat. Reduced dilution capacity could have an indirect effect on some of the interest features for which the Ramsar is designated through potential effects on prey fish and invertebrates, although the Leiston Drain is only one of many watercourses within the foraging distances of relevant Ramsar birds. Drawdown won't affect levels in Leiston drain and thus won't affect dilution capacity, as groundwater is in hydraulic continuity with the Leiston Drain and water will be returned to the drain. Results of modelling indicate that the drawdowns in the peat within the Ramsar would be less than 0.20m, with drawdowns over much of the Ramsar being below this and with minimal change to surface water flows. There will be no direct effects on the Ramsar itself and no direct or indirect effects on Ramsar habitats, plants or invertebrates.
Habitat Loss	**X**	**X**	Abstraction will not cause habitat loss in Leiston Drain due to the small drawdown levels. Results of modelling indicate that the drawdowns in the peat within the Ramsar would be less than 0.20m, with drawdowns over much of the Ramsar being below this and with minimal change to surface water flows. As a result, there will be no drying out of habitats that would support wetland fish or invertebrate species, or aquatic plants, on which some Ramsar birds feed. There will be no direct effects on the Ramsar itself and no direct or indirect effects on Ramsar habitats, plants or invertebrates.

[3] Ramsar Criterion 1: The site contains a mosaic of marine, freshwater, marshland and associated habitats, complete with transition areas in between. Contains the largest continuous stand of reedbeds in England and Wales and rare transition in grazing marsh ditch plants from brackish to fresh water.
[4] Ramsar Criterion 2: This site supports nine nationally scarce plants and at least 26 red data book invertebrates. Supports a population of the mollusc *Vertigo angustior* (Habitats Directive Annex II; British Red Data Book Endangered), recently discovered on the Blyth estuary river walls. An important assemblage of rare breeding birds associated with marshland and reedbeds including: *Botaurus stellaris, Anas strepera, Anas crecca, Anas clypeata, Circus aeruginosus, Recurvirostra avosetta, Panurus biarmicus*

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EA Risk	Criterion 1 (habitats[3])	Criterion 2 (plants, breeding birds and invertebrates[4])	Justification
Entrapment/impingement	**X**	**X**	Dewatering of groundwater will not result in any entrapment or impingement of fish species on which Ramsar birds might prey and would therefore have no indirect effect on the ability of the Ramsar to meet its conservation objectives. There will be no direct effects on the Ramsar itself and no direct or indirect effects on Ramsar habitats, plants, birds or invertebrates.
Changes in water levels or table	**X**	**X**	Abstraction will not cause reduction in water levels in Leiston Drain due to the small drawdown in water levels. Results of modelling indicate that the drawdowns in the peat within the Ramsar would be less than 0.20m, with drawdowns over much of the Ramsar being below this and with minimal change to surface water flows. As a result there will be no change in water levels in Leiston Drain and therefore no effect on habitats that would support wetland fish or invertebrate species, or aquatic plants, on which some Ramsar birds feed. There will be no direct effects on the Ramsar itself and no direct or indirect effects on Ramsar habitats, plants or invertebrates.
Change in flow or velocity regime	**X**	**X**	Abstraction will not cause any change in the flow or velocity regime in Leiston Drain due to the small drawdown in water levels. Results of modelling indicate that the drawdowns in the peat within the Ramsar would be less than 0.20m, with drawdowns over much of the Ramsar being below this and with minimal change to surface water flows. As a result, there will be no change in flow or velocity in Leiston Drain and therefore no effect on habitats that would support wetland fish or invertebrate species, or aquatic plants, on which Ramsar birds feed. There will be no direct effects on the Ramsar itself and no direct or indirect effects on Ramsar habitats, plants or invertebrates.
Changes in surface water flooding	**X**	**X**	Abstraction will not cause any change in surface water flooding due to the small drawdown in water levels. Results of modelling indicate that the drawdowns in the peat within the Ramsar would be less than 0.20m, with drawdowns over much of the Ramsar being below this and with minimal change to surface water flows. As a result there will be no change in flooding and therefore no effect on habitats that would support wetland fish or invertebrate species, or aquatic plants, on which Ramsar birds feed, or habitats on which Ramsar birds might roost. There will be no direct effects on the Ramsar itself and no direct or indirect effects on Ramsar habitats, plants or invertebrates.
Change in water chemistry	**X**	**X**	Abstraction will not affect water chemistry in the surrounding area or Leiston Drain. As a result there will be no effect on habitats that would support wetland fish or invertebrate species, or aquatic plants, on which Ramsar birds feed, or habitats on which Ramsar birds. There will be no direct effects on the Ramsar itself and no direct or indirect effects on Ramsar habitats, plants or invertebrates.
Change in salinity regime	**X**	**X**	Abstraction will not cause any change in the salinity regime in Leiston Drain due to the small drawdown in water levels. Results of modelling indicate that the drawdowns in the peat within the Ramsar would be less than 0.20m, with drawdowns over much of the Ramsar being below this and with minimal change to surface water flows. As a result there will be no change in salinity regime in Leiston Drain and therefore no effect on habitats that would support wetland fish or invertebrate species, or aquatic plants, on which Ramsar birds feed. There will be no direct effects on the Ramsar itself and no direct or indirect effects on Ramsar habitats, plants or invertebrates.
Change in freshwater flows to estuary	**X**	**X**	The abstraction will not affect flows in the Leiston Drain. There is no estuary that would be affected by abstraction or discharges via Leiston Drain. The Leiston Drain ultimately drains to the sea via a control structure on Minsmere New Cut. Therefore there will be no change in freshwater flows to sea.

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APPENDIX B ATKINS GROUNDWATER MODELLING SUMMARY TABLE

B.1.1 Column Definitions

Column	Definitions
Date of Maximum drawdown	Date of which the maximum drawdown occurred.
Modelled baseline groundwater level (mAOD)	The water level in m AOD at that location prior to dewatering.
Modelled construction groundwater level (mAOD)	The water level in m AOD at that location post dewatering.
Maximum Drawdown (m)	The maximum drawdown that occurred during that period (aka Modelled baseline groundwater level (mAOD) - Modelled construction groundwater level (mAOD)).
Note	The full dataset is available in excel format [Ref. 12]

B.1.2 Modelled data with TCA Borehole for Winter Months (October – March)

Modelling location	Date of Maximum drawdown	Modelled baseline groundwater level (mAOD)	Modelled construction groundwater level (mAOD)	Maximum Drawdown (m)
BP23	09/11/2029	1.361195	0.903623	0.4575724
C2D	09/11/2029	0.794584	0.539159	0.2554249
C3D	09/11/2029	0.814575	0.486669	0.3279065
GW9D	09/11/2029	0.829012	0.505878	0.3231342
P12	26/12/2026	0.549816	0.345764	0.2040522
P13	21/12/2026	0.595260	0.411248	0.1840121
P2	21/12/2026	0.598944	0.405857	0.1930868
P4	06/12/2026	0.343979	0.224533	0.1194456
P5	07/01/2027	0.622264	0.474075	0.1481889

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B.1.3 Modelled data without TCA Borehole for Winter Months (October – March)

Modelling location	Date of Maximum drawdown	Modelled baseline groundwater level (mAOD)	Modelled construction groundwater level (mAOD)	Maximum Drawdown (m)
BP23	04/01/2032	1.484357	1.344480	0.139878
C2D	09/11/2029	0.794584	0.632565	0.162019
C3D	04/01/2032	0.896152	0.617225	0.278927
GW9D	04/01/2032	0.885098	0.589560	0.295538
P12	14/11/2031	0.620407	0.463522	0.156885
P13	21/12/2026	0.595260	0.457215	0.138045
P2	21/12/2026	0.598944	0.433374	0.16557
P4	05/12/2026	0.347895	0.247117	0.100778
P5	27/12/2027	0.627224	0.509611	0.117613

B.1.4 Modelled data with TCA Borehole for Summer Months (April – September)

Modelling location	Date of Maximum drawdown	Modelled baseline groundwater level (mAOD)	Modelled construction groundwater level (mAOD)	Maximum Drawdown (m)
BP23	29/09/2029	0.942754	0.522396	0.420358
C2D	30/09/2029	0.622815	0.382807	0.240009
C3D	28/09/2029	0.623959	0.336921	0.287037
GW9D	01/04/2030	0.789342	0.515263	0.274079
P12	30/05/2029	0.507609	0.324668	0.182940
P13	21/04/2027	0.548401	0.382157	0.166244
P2	28/04/2029	0.577119	0.410552	0.166567
P4	29/09/2029	0.224799	0.117920	0.106879
P5	02/06/2029	0.499649	0.375227	0.124422

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B.1.5 Modelled data without TCA Borehole for Summer Months (April – September)

Modelling location	Date of Maximum drawdown	Modelled baseline groundwater level (mAOD)	Modelled construction groundwater level (mAOD)	Maximum Drawdown (m)
BP23	01/04/2030	1.307094	1.204885	0.102209
C2D	30/09/2029	0.622815	0.479297	0.143518
C3D	18/08/2028	0.609642	0.379532	0.23011
GW9D	01/04/2030	0.789342	0.535844	0.253498
P12	30/05/2029	0.507609	0.371744	0.135864
P13	21/04/2027	0.548401	0.422230	0.126171
P2	29/04/2029	0.572050	0.431076	0.140973
P4	29/09/2029	0.224799	0.134296	0.090503
P5	02/06/2029	0.499649	0.404247	0.095402

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101753915
Revision 01

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Sizewell C Project
MCA/WRA/2 Groundwater Control Technical Note

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Approved by:	[redacted] Environment Manager - Construction Permits and Consents

REVISION HISTORY

Rev	Status	Amendment	Prepared By	Date
0.1	Draft	First draft	[redacted]	10/04/2026
0.2	Draft	Second draft following EA and internal comments		19/05/2026
01	Final	Document for submission		23/05/2026

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1 INTRODUCTION

1.1 Purpose

As part of the development of the new nuclear power station at Sizewell C, groundwater dewatering within the Cut Off Wall (COW) is required to enable construction works at the Main Construction Area (MCA) to proceed as planned.

Sizewell C Limited (SZC) is therefore applying for a Water Abstraction Licence (Ref. MCA/WRA/2). This document supports SZC's application for a Water Abstraction Licence, covering groundwater control aspects.

1.2 Scope

This document:

- explains why a groundwater control system is required for the project;
- summarises key aspects of the proposed groundwater control system, including COW layout, wall type and installation depths, ring main system, abstraction borehole locations and proposed construction details;
- describes the performance requirements of the groundwater control system; and
- provides information on anticipated control methods should a defect in the COW be identified or external groundwater levels decrease at a magnitude more than expected compared with modelling outcomes.

This Technical Note forms part of the supporting documentation to the Water Abstraction Licence application described **in Section 1.1**. Modelling assessments set out in the Groundwater Modelling Data Sets [Ref. 1] indicate that no significant impact on the water environment due to the new abstraction is expected. The proposed groundwater monitoring set out in the Water Monitoring Technical Note [Ref. 2], is an assurance measure to demonstrate the real-world response to the dewatering within the MCA cut-off wall is in line with predictive modelling. Should dewatering effects be greater than anticipated, a proposed response via stipulated management actions is provided in the Water Monitoring Technical Note. This document was provided as a draft application package to the Environment Agency (EA) the relevant comments and subsequent responses have been provided as **Annex A1 and A2** for ease of reference.

1.3 Definitions

Term / Abbreviation	Definition
CDO	Combined Discharge Outfall
COW	Cut Off Wall
DCO	Development Consent Order
EA	Environment Agency
EDRMS	Electronic Document and Records Management System
GDR	Geotechnical Design Report
HDPE	High-Density Polyethylene
I&M	Instrumentation & Monitoring

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Term / Abbreviation	Definition
IBC	Intermediate Bulk Container
MCA	Main Construction Area
SAC	Special Area of Conservation
SPA	Special Protection Area
SSSI	Site of Special Scientific Interest
SZB	Sizewell B
SZC	Sizewell C Limited
TAM	Tube-a-Manchette

1.4 References

Table 1 – Reference documents below provides a list of reference documents relevant to this technical note.

Table 1 – Reference documents

Ref. No.	Document Title	Version	TC Reference
1	MCA/WRA/2 Groundwater Modelling Data Sets	001	101861912
2	MCA/WRA/2 Water Monitoring Technical Note	002	101753906
3	EW0400 Groundwater Modelling – DCO Modelling Report	P01	101726967
4	Dewatering Design Report for Work Package EW0430	P04	101297050
5	Basal Stability Assessment During the Temporary Excavation of the Main Construction Area	002	101815719

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2 GROUNDWATER CONTROL SYSTEM DETAILS AND DESIGN

2.1 Requirement for Groundwater Control

The construction of Sizewell C will involve significant earthworks and excavation through the superficial deposits into the Crag deposits. Groundwater levels and permeability are high within the Crag deposits and, to enable construction works to proceed, the earthworks and excavation will be undertaken within a COW, which will provide a significant barrier to groundwater movement into the works area. In addition to the COW, a dewatering system will be employed to lower groundwater levels as works proceed and to provide suitable dry working conditions.

The following sections provide details on the COW and dewatering design which form the main components of the groundwater control system to allow excavation and earthworks to proceed.

2.2 Summary of Groundwater Control System

The area within the proposed COW covers an area of approximately 570 m by 640 m, this is a maximum area noting that the layout in the southwest corner is to be amended giving a smaller overall footprint. The ground level is generally between +2 to +7 mOD, with bulk excavation depths varying between –10 to –26.3 mOD. The groundwater control system will be comprised of a number of elements, including a plastic (mixture of concrete and bentonite) wall around the perimeter of the works area (the COW), which will be keyed into the low permeability deposits of the Harwich Formation. The COW will be comprised of two units (Unit 1 and Unit 2), the separation between the two units being provided by an internal section of plastic wall running from east to west. See **section 2.3** for further details.

A number of dewatering wells will be positioned within the COW to drawdown groundwater levels as works progress. The dewatering wells will be connected to a ring main system which will convey water for discharge to the sea via the Combined Discharge Outfall (CDO). See **sections 2.5** and **2.9** for further details.

2.3 COW Details

The COW will be constructed as a plastic wall as two separate units – Units 1 and 2. The COW will form the entire perimeter within which dewatering works will take place, with a central plastic wall separating the two units. The layout of the COW is presented in **Figure 1** overleaf, with full details provided in **Annex B**.

All abstraction will take place inside the COW, which will completely enclose this area of the MCA and extend into the underlying Harwich Formation to create a hydraulic barrier. The intention is therefore to control groundwater flow through and under the COW.

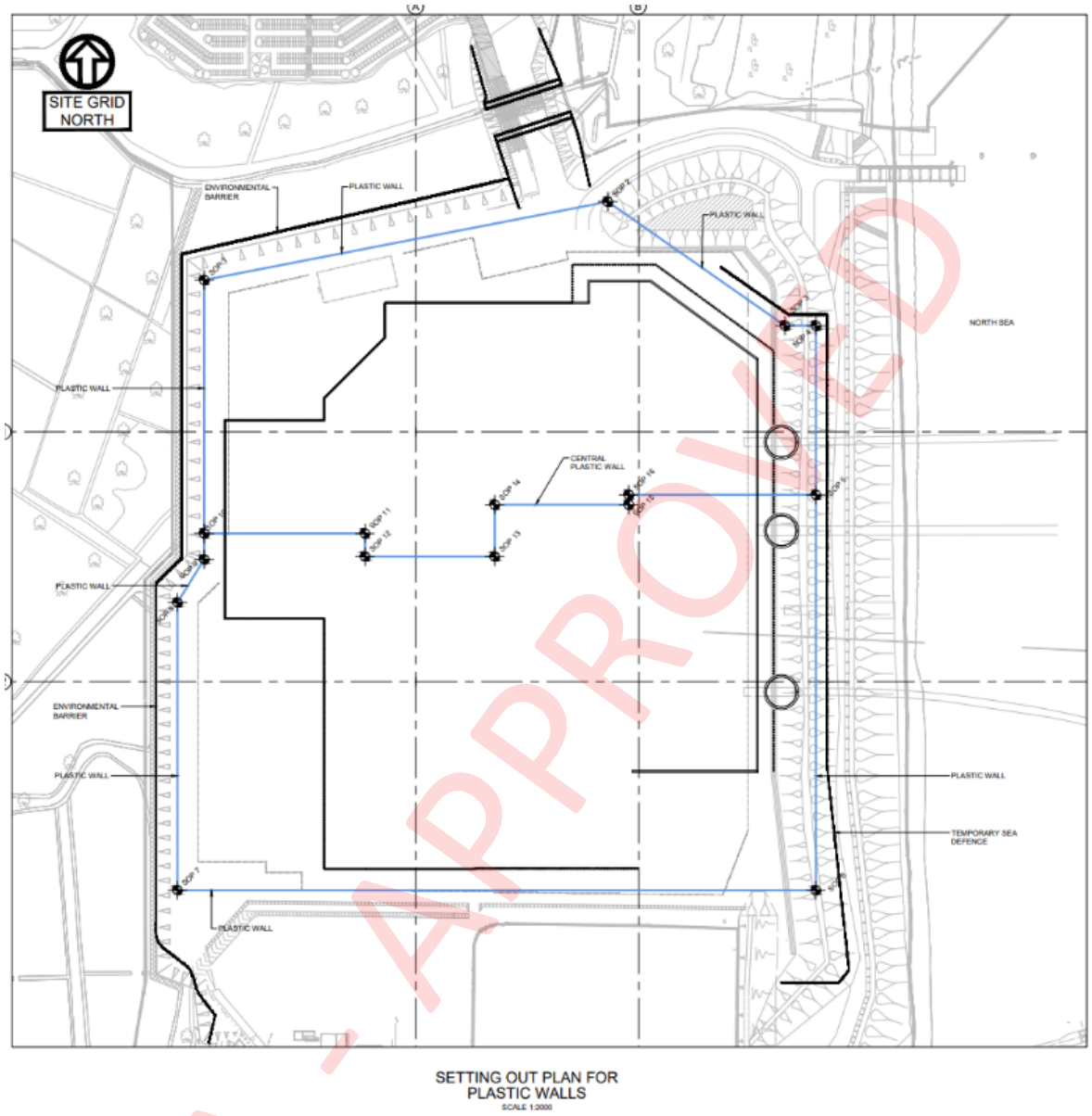
Drawdown of groundwater levels outside the COW is expected to be limited in magnitude and extent, as indicated within the DCO Modelling Report [Ref. 3]. The modelled effect indicates 10's of cm of drawdown immediately outside the COW, reducing to no observable drawdown within a few hundred metres and the uncoupled model results are comparable to earlier DCO modelling results [Ref. 3, section 5.2.4]. On this basis we do not consider that there is any potential for the dewatering within the MCA to impact the function of the designated wetland habitats, i.e. the sensitive receptors of concern. A full list of the sensitive receptors is provided in the Water Monitoring Technical Note [Ref. 2].

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Figure 1 – COW Layout



The main performance requirements for the COW of relevance to the permit application are as follows:

- COW must achieve a permeability of 1 x 10^{-8} m/s or lower;
- no adverse effects on adjacent sites (e.g. Sizewell B (SZB), nearby Sites of Special Scientific Interest (SSSIs), Minsmere Special Area of Conservation (SAC), Special Protection Area (SPA) and Ramsar);
- groundwater is required to be drawn down to 1 m below the base of the MCA excavation; and
- COW top level to be +3 mOD, with base of the wall to be keyed a minimum of 3 m into the Harwich Formation.

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The COW design assumes that the final depth intersects the Harwich Formation to a degree that flow under the COW is minimised. Modelling assessments have been based on the premise that a 3 m penetration is achieved. The top elevation of the Harwich Formation is likely to vary to some degree and the COW will need to be keyed in sufficiently by the contractor. The permeability of the Harwich Formation has been taken as 1 x 10^{-7} m/s.

It should be noted that the nomenclature for the horizon underlying the Crag deposits has changed from London Clay (during the Development Consent Order (DCO) stage) to the Harwich Formation. Whilst the change has been derived from reassessment of the characteristics of this horizon, the properties remain the same as per those reported in the Geotechnical Design Report (GDR); therefore, there is no difference in the performance of this horizon as the basal layer for the COW.

2.4 Monitoring System

Instrumentation and monitoring (I&M) will be employed to monitor the effects of construction on the wall and its hydraulic performance. This is to ensure that the groundwater control system operates as intended and to provide points against which no change at the sensitive receptors can be measured. The data collected will be utilised to verify design parameters and to confirm allowable movements and settlements.

Groundwater levels and pressures will be recorded through the course of construction works, with a baseline dataset collected prior to construction, followed by construction-phase and post-construction monitoring to assess wall performance. The monitoring system for the dewatering works is comprised of existing monitoring points, new internal monitoring points and new monitoring points external to the COW. See sections 2.6 and 2.8 and the Water Monitoring Technical Note [Ref. 2] for further details.

2.5 Dewatering Well Details

The dewatering system is designed to have the capacity to lower groundwater levels within the Crag deposits at a rate that is greater than that at which the excavation works proceed. This approach ensures excavation is undertaken in dry conditions. Once the groundwater level has reached its design depth of –26.7 mOD, dewatering works will continue at a lower abstraction rate to maintain groundwater level at the required depth. These two stages form the drawdown and maintenance phases of the dewatering works.

During the drawdown phase, the estimated abstraction rate from dewatering wells is 250 L/s. The design allows for the total abstraction rate to be collected from all c. 26 No. dewatering wells at any one time. During the maintenance phase, which runs until construction is complete, the estimated abstraction rate from dewatering wells is 25-50 L/s, dependent on the rate of leakage through the COW and infiltration of rainfall. This reduced volume of groundwater is anticipated to be abstracted from a reduced number of wells, with the remaining wells forming redundancy in the system.

The following list provides the key components of the dewatering system:

- Installation of c. 26 No. dewatering wells with a pumping capacity of 25 L/s per well;
- A maximum flow rate of 250 L/s during the drawdown phase, followed by a flow rate of between 25-50 L/s during the maintenance phase (including both Units 1 and 2);
- During the drawdown phase, not all of the dewatering wells will operate at any one time, the total number of wells in the system provide flexibility and redundancy in the operation of the system; and
- The design life of the system is 15 years.

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The outline specification for the dewatering wells is presented in

Table 2 – Summary Dewatering Well Specification below, with design details presented in **Annex C** (along with monitoring and recharge wells and piezometers).

Table 2 – Summary Dewatering Well Specification

Well Detail	Dewatering Well
Depth	Approx. 46.5 m
Response Stratum	Crag deposits
Quantity	c. 26 No. around internal perimeter of COW and along section of COW between Units 1 and 2
Diameter (bore)	400 mm
Diameter (liner)	280 mm (OD), 255 mm (ID)
Slotted length	27 m (-15.5 to -42.5 mOD)
Slot size	0.75 mm

2.6 Monitoring Well Details

Monitoring wells external to the COW are provided in the Water Monitoring Technical Note [Ref. 2]. Monitoring of the groundwater levels within the COW will be undertaken at 10 No. locations installed as deep piezometers located centrally in Units 1 and 2. The outline specification for the deep internal monitoring wells is presented in **Table 3 – Summary Monitoring Well Specification** below, with co-ordinates provided in

Table 4 – Internal Deep Monitoring Well Co-ordinates and design details presented in **Annex D** (along with external standard and superficial monitoring piezometer details).

Table 3 – Summary Monitoring Well Specification – Deep Wells

Well Detail	Monitoring Well
Depth	Approx. 43 m
Response Stratum	Crag deposits
Quantity	5 No. centrally within Units 1 and 2
Diameter (bore)	250 mm
Diameter (liner)	50 mm (ID)
Slotted length	9 m (-29.5 to -38.5 mOD)

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Slot size	0.75 mm

Table 4 – Internal Deep Monitoring Well Co-ordinates

ECS Code	Well No.	Easting (m)	Northing (m)	Elevation (m AOD)	Type of well	NGR
0WSO8001MPL0002	IW45	647441.552	264303.177	2.213	Piezometer	TM 47442 64303
0WSO8001MPL0001	IW44	647087.540	264193.917	0.782	Piezometer	TM 47088 64194
0WSO8001MPL0003	IW46	647315.747	264113.340	1.307	Piezometer	TM 47316 64113
0WSO8001MPL0004	IW47	647189.342	263856.691	6.000	Piezometer	TM 47189 63857
0WSO8001MPL0005	IW48	647486.061	263856.691	6.558	Piezometer	TM 47486 63857
TBC	TBC	647537.062	263999.602	TBC	Piezometer	TM 47537 63999
TBC	TBC	647537.062	263939.140	TBC	Piezometer	TM 47537 63939
TBC	TBC	647521.122	263814.482	TBC	Piezometer	TM 47521 63814
TBC	TBC	647160.702	263829.269	TBC	Piezometer	TM 47160 63829
TBC	TBC	647168.753	264095.681	TBC	Piezometer	TM 47168 64095

2.7 Piezometer Details

External perimeter piezometers spaced 30–50 m apart outside the COW will be installed for monitoring groundwater levels during the MCA dewatering. The monitoring points are spaced laterally and vertically to provide coverage of the full extent of the COW. The primary purpose of these monitoring points is to demonstrate the COW performance as a hydraulic barrier is in line with the design specification. However, this dense monitoring network in close proximity to the COW ensures it is possible to demonstrate that dewatering effects do not impact the wider water environment. Northern piezometers would allow monitoring for the purpose of detecting early changes for mitigation to be employed and that no significant impact reaches Minsmere Marshes SSSI, SAC, SPA and Ramsar; western ones will detect changes in groundwater levels that could impact Sizewell Marshes SSSI and the compensation habitats (Marsh Harrier and Wild Aldhurst). Eastern and southern piezometers will confirm that dewatering effects stay inside the COW. The outline specification for the piezometers is presented in **Table 5 – Summary Piezometer Specification** and **Table 6**, with design details presented in **Annex D** (along with internal deep monitoring piezometer details).

Table 5 – Summary Piezometer Specification – Superficial Wells

Well Detail	Piezometer
Depth	Approx. 9.5 m
Response Stratum	Superficial deposits
Diameter (bore)	250 mm
Diameter (liner)	50 mm (ID)

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Slotted length	4 m
Slot size	0.75 mm

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Table 6 – Summary Piezometer Specification – Standard Wells

Well Detail	Piezometer
Depth	Approx. 29.5 m
Response Stratum	Crag deposits
Diameter (bore)	250 mm
Diameter (liner)	50 mm (ID)
Slotted length	9 m
Slot size	0.75 mm

2.8 Well Development

Following installation of the wells, development will be undertaken using the air-lift methods. The purpose of well development is to remove debris produced during the drilling process and to consolidate the filter pack.

The process will commence with surging of the well and may be followed by eduction to remove debris from the well liner. The end-point of development will be when the water recovered from each well is clear of fines, a process that would be expected to take of the order of several hours per well. Water recovered during well development will likely be collected in Intermediate Bulk Containers (IBC's) and transported to a water disposal point.

2.9 Ring Main System & Discharge

Dewatering will be enabled by utilising a ring main system which transfers groundwater from the dewatering wells to the discharge location. The ring main will be constructed in a phased manner, Phase 1 ensuring that Unit 1 dewatering can commence, followed by Phase 2 for Unit 2 dewatering works. The ring main for Phase 1 is comprised of western, southern and eastern pipeline sections connected to an east-west section that runs across the MCA between Units 1 and 2. The northern section of the ring main will be installed for the Phase 2 dewatering works.

The Phase 1 ring will be installed as a closed ring, with the Phase 2 ring connected to the Phase 1 ring ahead of dewatering of Unit 2. The layout of the ring main and the sequence of works are presented in **Figure 2** and **Figure 3**, respectively. Please note that the redacted block on **Figure 2** was a reference to Water Treatment Works (WTW), which indicates the direction of flow from the ring main to the discharge location at the CDO only.

The groundwater abstracted from the dewatering wells will be conveyed via the ring main system to be discharged through the CDO. The pipework is to be a twin pipe configuration, with two pipes having an outside diameter of 300 mm, constructed of High-Density Polyethylene (HDPE) specified for pressure pipe applications, of a UV-stabilised grade with protective coating or wrap. The use of HDPE mitigates the potential risk from corrosion due to salinity of groundwater in a coastal setting. Further details can be found in section 3.2 of the Dewatering Design report [Ref. 4].

2.10 Dewatering System Maintenance and Decommissioning

Maintenance of the groundwater control system will be undertaken by the appointed dewatering contractor. Potential maintenance issues that could arise include clogging/biofouling of the wells and

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pump equipment, damage to or loss of well due to site activities, obstructions or damage to the ring main or discharge pipework, loss of pump performance or electrical power.

At this stage it is understood that that the dewatering system will be turned off in a phased manner to allow groundwater levels to recover in step with the backfilling of the MCA excavation. Once the pumps and equipment are removed, the dewatering wells will be decommissioned in line with EA guidance, using suitable backfill material and sealing with a concrete cap. This includes any wells damaged during the MCA construction works. Some wells may be kept as long-term groundwater monitoring should they be deemed suitable for this purpose.

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Figure 2 – Ring Main Layout

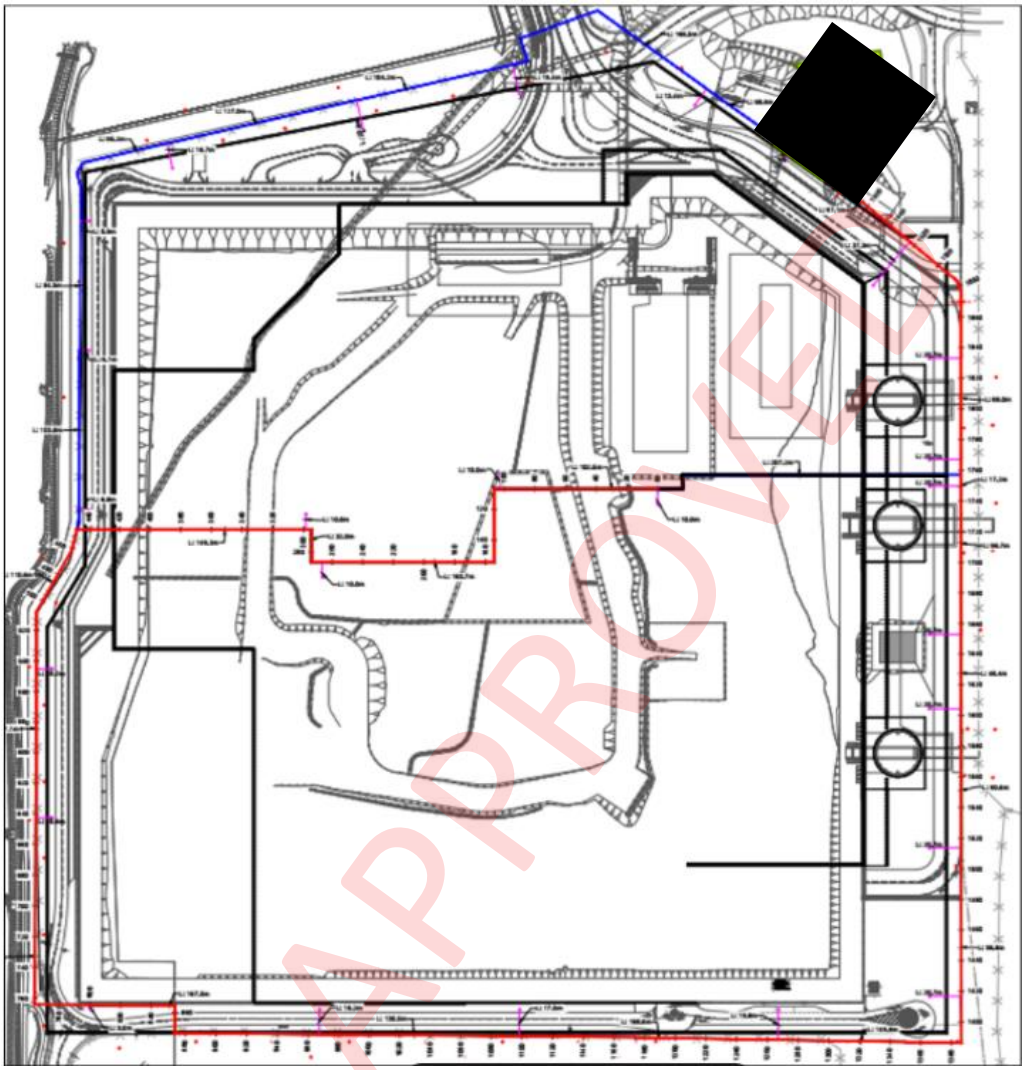


Figure 3 – Ring Main Construction Sequence



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2.11 Basal Stability

The groundwater control system relies on basal stability, with particular reference to the Harwich Formation which is the horizon which the COW will be keyed into. The main consideration is uplift pressure from the Lambeth Group due to the difference in water pressures within the Crag aquifer and Chalk underlying the construction area, these pressures are approximately +1 mOD and +5.5 mOD, respectively, with the Lambeth Group (overlying the Chalk and underlying the Harwich Formation) assumed to have an intermediate water pressure. The risk of basal instability occurs due to the removal of overburden material during excavation within the COW, in combination with the lowering of groundwater levels via dewatering.

Analysis has been undertaken to assess the risk of basal instability and this is reported on in full in a separate document [Ref. 5]. In summary, a preliminary basal stability assessment was undertaken by the designer which concluded that uplift stability was satisfactory including for the deepest proposed excavation zone in the MCA. Following review of the use of undrained shear strength in the designer's analyses, a supplementary analysis was undertaken by SZC which utilised the effective-stress method. This approach allowed for long-term softening of the Harwich Formation and downward shear resistance from the Red Crag (below excavation level) and above the Harwich Formation.

The outcome of the supplementary analysis is that stability against uplift failure is satisfactory based on conservative assumptions. The assessments were based on 2D plane strain analysis and ignores 3D beneficial effects.

2.12 External Drawdown and Defects

The dewatering well capacity is reliant on the performance of the COW. Should the performance requirement of 1 x 10^{-8} m/s not be achieved, the capacity of the dewatering well system may need to be increased, e.g. by amending pump size, power system, discharge arrangements.

In the case where the COW does not reach it's required performance for groundwater control, this may manifest in external drawdown that is greater than that predicted by the modelling (see DCO Modelling Report, Ref. 3) and will be observed via the monitoring system (see Water Monitoring Technical Note, Ref. 2).

The modelling to date has indicated that the groundwater control system would be able to handle inflows through the COW if the permeability is up to one order of magnitude higher than 1 x 10^{-8} m/s. However, external drawdown may be unacceptable with particular respect to sensitive receptors such as the Sizewell Marshes and Minsmere to Walberswick SSSIs. The monitoring system is designed to assess the performance of the COW, the monitoring point being installed prior to dewatering commencing. Trigger levels have been proposed (see Water Monitoring Technical Note, Ref. 2) to identify rapid changes in external groundwater levels that would not be caused by natural fluctuations. Any defect in the COW or if performance is less than expected, this would be identified at the start of dewatering

Should a defect or external drawdown be identified, the potential solutions may include grouting (in the case of repair of an identified localised defect) or recharge (to maintain external groundwater levels) or another method in collaboration with the appointed contractor. Detailed location specific methodology would only be available once the location, scale and characteristics (e.g. groundwater levels, geology) of a defect are known. Where a localised defect may be identified by the external monitoring network, additional investigation to locate the defect may include the installation of additional piezometers.

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A defect was identified during the installation of a COW as part of SZB construction. The SZB COW was formed from a plastic concrete diaphragm wall that extended 1.5 m into the Harwich Formation. The SZB COW had a similar performance requirement to the SZC COW at 1 x 10^{-8} m/s, with a dewatering system abstracting at similar rates during the drawdown and maintenance phases.

During the drawdown phase of pumping at SZB, groundwater levels in the external monitoring wells started to decrease and investigations identified a defect with regards to permeability in the north-eastern section of the COW. The defect was successfully mitigated with Tube-a-Manchette (TAM) grouting during the dewatering works, this method is a high-pressure ground improvement technique used to strengthen soil and/or control groundwater. Back-analysis indicated that the water loss was comparable to 15 L/s of the long-term dewatering flow rate.

The need for either of the two potential mitigation options, and the methodology and scale of intervention required, would be determined based on observations of drawdown/defect characteristics and undertaken in line with the management actions set out in the Water Monitoring Technical Note [Ref. 2].

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3 SUMMARY AND CONCLUSIONS

The proposed groundwater control system for the MCA is reliant on the performance of the COW. The COW will be constructed of a 1 m thick plastic wall keyed into the Harwich Formation at depth. The performance requirement of the COW is a permeability of 1 x 10^{-8} m/s.

The associated dewatering system will comprise c. 26 No. dewatering wells, not all of these wells will be operating at any one time during both the drawdown and maintenance phases. The initial pump rate is estimated to be 250 L/s during the drawdown phase and 25-50 L/s during the maintenance phase. The design life of the dewatering system is 15 years. A monitoring system that includes internal wells and external piezometers will assess the performance of the dewatering system.

A ring main will connect the abstraction wells to the discharge to sea via the CDO. The ring main pipework will be constructed of HDPE to mitigate the potential for corrosion due to salinity of groundwater.

As experienced during the construction of SZB, there is the potential that the COW does not perform as intended. Mitigation techniques would be employed and these would include localised grouting (successfully utilised at SZB), recharge to rectify external drawdown of groundwater levels or another method in collaboration with the appointed contractor. The selected remedial technique would be dependent on the characteristics of the defect, along with its location and scale.

In summary, the groundwater control system has been designed to allow for construction in the MCA to be undertaken in dry conditions. Modelling has shown that effects on the function of sensitive receptors are not expected and a comprehensive monitoring system is included to ensure that the groundwater control system operates as intended.

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MCA/WRA/2 GROUNDWATER CONTROL TECHNICAL NOTE

ANNEX A – EA COMMENT SHEET AND AGREED APPROACH

A.1 MCA/WRA/2 Comment Tracker – Comments regarding monitoring

	Origina	Focus	Comment	Initial Approach	Additional Information Required	Cross-Reference to Query	Approach Agree
3	EA	GW Control	Are there any differences in integrity and permeability of a slurry wall vs the diaphragm wall; we appreciate the diaphragm wall cannot be installed to the depth of the Harwich formation.	Agree suitable form of justification to adequately demonstrate there is no difference hydraulic barrier functionality or integrity between designs. Changes in design relate to structural function of wall - new design is not structural so internal earthworks support is different but doesn't impact dewatering. Reduced complexity of plastic COW means less potential for reduced integrity due to simpler construction.	Agreed form of words describing the nature of the changes in the cut-off wall design and setting out why there is no difference in the hydraulic cut-off performance 03.02.2026 - Email communication regarding permeability of the cutoff wall saved in shared SharePoint folder.		Yes
4	EA	GW Control	What is the cure time of the new slurry wall, how will you know it is cured at a depth of almost 50mbgl	Cure time to be provided. Casting of plastic cut-off walls is a standard technicque for groundwater control during construction. Integrity testing to be carried out by pumping to demonstrate cut-off wall has achieved a suitable level of performance prior to commencement of main dewatering programme.	Cure time for new wall Narrative summary of performance testing as part of commissioning of groundwater control system		Yes
8	EA	GW Control	c. how is a defect corrected and how quickly can the repair be made?	Depends on nature of defect, but spot grouting likely to be used to locally plug a gap in cut-off wall panels. Repair can be done quickly (days to weeks) once the location and nature of the defect is identified.	Agreed narrative description of the defect mitigation approach and anticipated timescales		Yes
8	EA	GW Control	d. will dewatering cease if there is a defect with greater external drawdown than calculated, or is the aim to recharge from dewatered water while the repair is undertaken?	If a defect is sufficiently large to cause greater than anticipated external drawdown this would be identified during commissioning of the groundwater control system and repairs made before full scale dewatering commences. Once dewatering has commenced there is no scope for defects to manifest - the use of a plastic cut-off wall means internal batters are required to maintain structural stability of the cut-off wall. This ensures there is always natural material adjacent to the inside of the cut-off wall preventing the risk of physical damage. Once the concrete used to construct the wall has cured there is no scope for physical deterioration, or chemical degradation as the concrete composition is specified to be suitable for the coastal environment.	Agreed narrative description of the defect mitigation approach		Yes
11	EA	GW Control	If the recharge wells are too sparce, will the recharge required to mitigate a drawdown at significant distance result in a substantial increase in the immediate surrounding levels?	If the spacing of the initial recharge wells is not suitable to achieve the necessary reduction in external drawdown then additional interim wells would be installed rather than increasing recharge rates due to the limited unsaturated zone.	Agreed form of words setting out an appropriate measure to address any unanticipated higher degree of drawdown outside the cut-off wall and a strategy for implementing installation and commissioning of additional interim wells if required Indicative timescales for additional recharge wells to be supplied		Yes
12	EA	GW Control	Should tests be undertaken to determine the extent of the recharge capability of these boreholes?	The well design is based on the abstraction wells and industry standard design approach which allows the capacity to be determined. There will be some limited testing as part of well drilling and development to demonstrate adequate hydraulic performance, but no recharge tests as such. This is in part because recharging under baseline conditions would lead to a local increase in water levels.	Agreed form of words setting out agreement in principle that the design of the recharge wells is appropriate, and that testing of recharge capacity will be limited to assessing hydraulic performance following construction and installation of each well Potential for test on MCA borehole (or other) to assess recharge capacity?		Yes
17	EA	GW Control	Will the areas being dewatered be broken up into stages & what will that look like?	There will be two stages to the dewatering with abstraction for the southern unit commencing while the cut-off wall is completed around the northern unit. Sequencing and implications for abstraction rates and annual limits will be shared during pre-app discussions.	Schedule for dewatering works including periods for initial drawdown of levels in each unit and maintenance pumping		Yes

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Annex A2 Comment Tracker MCA/WRA/2 – Additional Information for Groundwater Control Proposals

3. Are there any differences in integrity and permeability of a slurry wall vs the diaphragm wall; we appreciate the diaphragm wall cannot be installed to the depth of the Harwich Formation?

- Agreed form of words describing the nature of the changes in the cut-off wall design and setting out why there is no difference in the hydraulic cut-off performance.

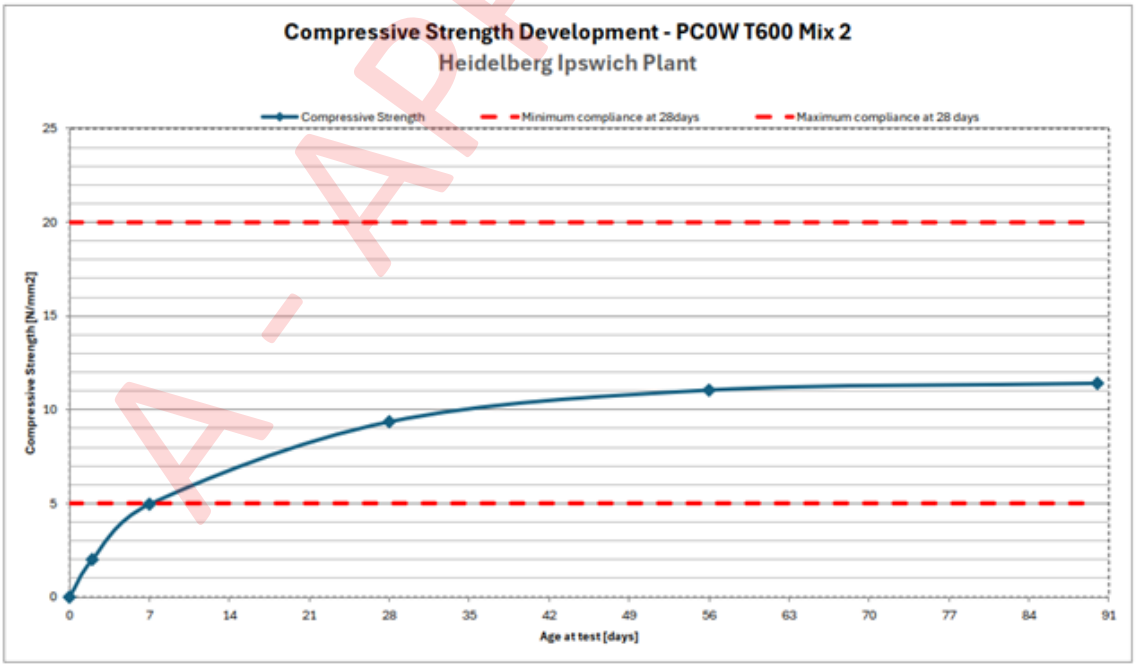
  The material and installation techniques utilised for the COW have changed over time, however, the performance requirements have not. The key performance requirement is for the COW to have a maximum permeability of 1 x 10^{-8} m/s. In addition, the COW will be keyed 3 m into the Harwich Formation, whilst there has been a change in nomenclature for this horizon, the hydraulic parameters remain the same as understood during the DCO stage. See Section 2.3 for further details.

4. What is the cure time of the new slurry wall, how will you know it is cured at a depth of almost 50mbgl?

- Cure time for new wall.

  The cure time for the COW is 2 days. Samples are collected in moulds after 2 days and are tested at 28 and 90 days, respectively, for strength and permeability. See the information supplied below for the strength testing and gain vs. age.

  With regards to curing at a depth of almost 50 mbgl, from a concrete mix perspective, there would be no expectation of a difference between concrete placed at the base of the wall compared with any other elevation. The performance requirements of the COW remain the same irrespective of depth.



Age at test [days]	0	2	7	28	56	90
Compressive Strength [N/mm2]	0	2.0	5.0	9.4	11.0	11.4
Compliance at 28 days [N/mm2] (Minimum)	5	5	5	5	5	5
Compliance at 28 days [N/mm2] (Maximum)	20	20	20	20	20	20

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- Narrative summary of performance testing as part of commissioning of groundwater control system.

> *A good understanding of the strength development of the COW mix has been gained through trials and ongoing compliance testing. The latest compliance strength testing is shown below and demonstrates strength gain over time, with the curve flattening as age increases.*
>
> *With respect to permeability, historical data from validation test results indicates that the COW will achieve permeability values between 1 x 10^{-10} to 1 x 10^{-12} m/s at all ages tested (i.e. 7, 28, 56 and 90 days). This can be compared with the performance requirement of 1 x 10^{-8} m/s for the COW.*

8c. how is a defect corrected and how quickly can the repair be made?

- Agreed narrative description of the defect mitigation approach and anticipated timescales.

> *Should a defect be identified, potential mitigation techniques may include localised grouting (e.g. TAM grouting as per SZB) or recharge to correct external drawdown in groundwater levels. The speed at which a defect can be corrected will be dependent on the characteristics of the defect, however, abstraction would cease at the point of defect identification and would not re-commence until mitigation is satisfactorily completed. Please see discussion in Section 2.12 for further details.*

8d. will dewatering cease if there is a defect with greater external drawdown than calculated, or is the aim to recharge from dewatered water while the repair is undertaken?

- Agreed narrative description of the defect mitigation approach.

> *Should a defect in the COW be identified, e.g. by external drawdown in groundwater level or by an increase in the required capacity of the dewatering system, there are two main options for mitigation. The first is localised grouting such as the TAM grouting technique utilised to repair a defect that was discovered during construction of SZB. The second technique may be recharge via wells designed specifically for this purpose.*
>
> *A defect will be observed by the monitoring system (see Water Monitoring Technical Note [Ref. 2] for further details) and would be identified at the start of dewatering. Management actions are in place to review data and assess whether a drawdown in groundwater levels is related to dewatering operations or natural variation. Dewatering operations will be adjusted (i.e. reduce abstraction rate) or suspended until groundwater levels recover and any defect rectified.*
>
> *See Section 2.12 for full details on the approach to mitigation.*

11. If the recharge wells are too sparse, will the recharge required to mitigate a drawdown at significant distance result in a substantial increase in the immediate surrounding levels?

- Agreed form of words setting out an appropriate measure to address any unanticipated higher degree of drawdown outside the cut-off wall and a strategy for implementing installation and commissioning of additional interim wells if required.

> *The selected remedial technique would be dependent on the characteristics of the defect. See responses to 8c and 8d above and Section 2.12 for further details.*

- Indicative timescales for additional recharge wells to be supplied.

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The estimated timeframe for installation of additional recharge wells (if required) is within 1 week of the identified need. Contractor equipment, including drilling rig(s), will be on site during the construction works mitigating the need for mobilisation from off-site.

12. Should tests be undertaken to determine the extent of the recharge capability of these boreholes?

- Agreed form of words setting out agreement in principle that the design of the recharge wells is appropriate, and that testing of recharge capacity will be limited to assessing hydraulic performance following construction and installation of each well. Potential for test on MCA borehole (or other) to assess recharge capacity?

The well design is based on the abstraction wells and industry standard design approach which allows the capacity to be determined. There will be some limited testing as part of the well drilling and development to demonstrate adequate hydraulic performance, but no recharge tests as such. This is in part because recharging under baseline conditions would lead to a local increase in water levels.

17. Will the areas being dewatered be broken up into stages & what will that look like?

- Schedule for dewatering works including periods for initial drawdown of levels in each unit and maintenance pumping.

Dewatering operations will be split across Units 1 and 2 and into two phases, the drawdown and maintenance phases. Once the dewatering phase has reached the required water levels, the maintenance phase will continue until completion of construction works. The abstraction rate during the drawdown phase will be 250 L/s, with a rate of 25-50 L/s during the maintenance phase.

The exact duration of each drawdown phase is dependent on the rate of excavation and response of the groundwater system to pumping. However, we anticipate that the drawdown phase for each unit would be carried out as a continuous operation until the required water level is reached, after which the flow rate would be reduced to allow maintenance of water levels. Drawdown for Unit 1 will commence at the start of the dewatering activity and, once target water levels have been achieved, there will be a period of maintenance flow only within Unit 1 while the remainder of the cut-off wall is constructed around Unit 2. Once Unit 2 is fully enclosed there will then be abstraction at a higher rate to draw down water levels within Unit 2.

See Sections 2.3 and 2.5 for further details.

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ANNEX B – CUTOFF WALL LAYOUT AND SETTING OUT PLAN

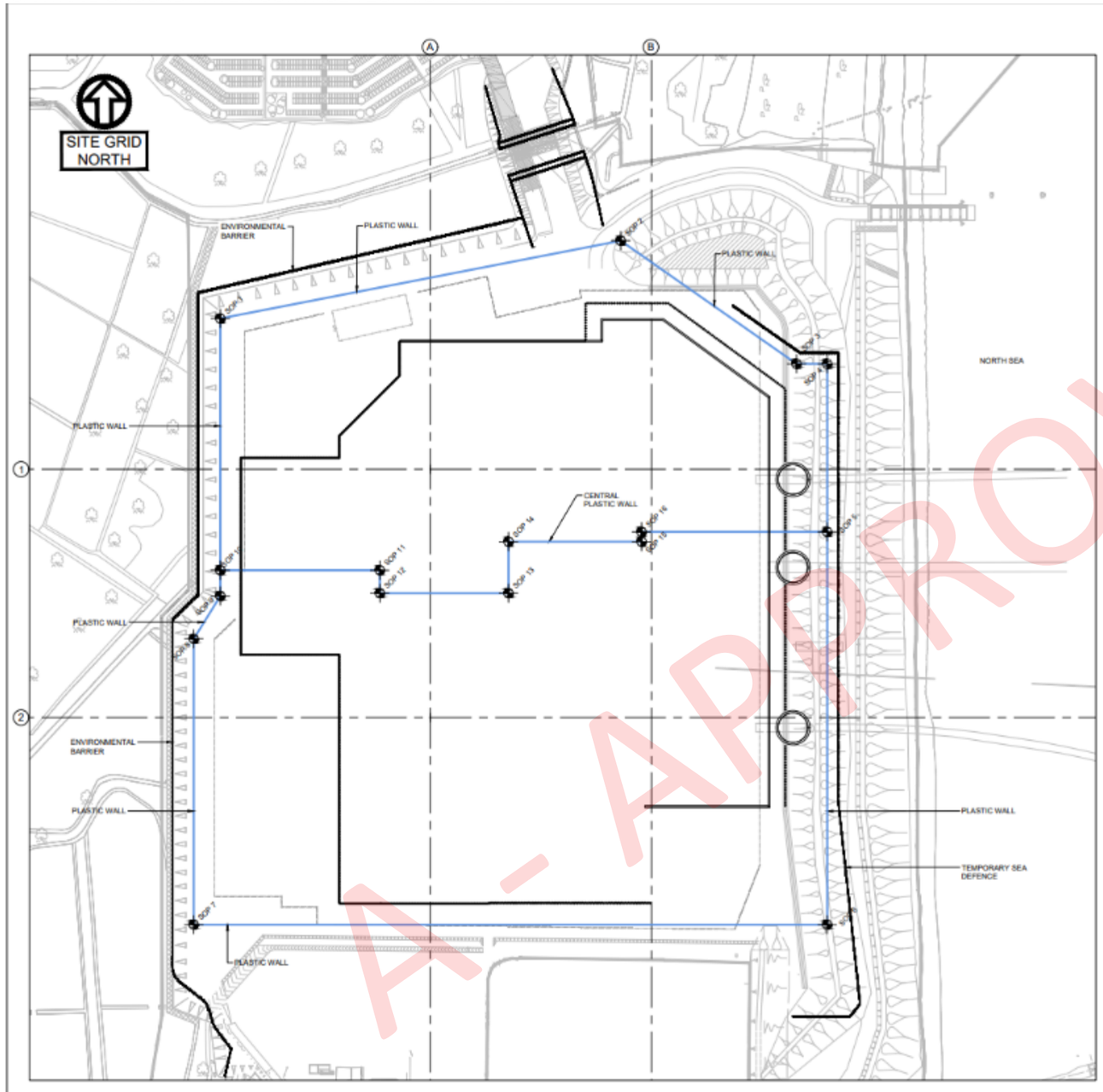
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Revision 01

MCA/WRA/2 GROUNDWATER CONTROL TECHNICAL NOTE



SETTING OUT PLAN FOR PLASTIC WALLS
SCALE 1:2000

PLASTIC WALL SETTING OUT COORDINATES

SETTING OUT POINT No.	EASTINGS	NORTHINGS	APPROXIMATE GROUND LEVEL (mOD)
SOP 1	647325.799	264348.251	+4.00
SOP 2	647396.444	264420.292	+4.00
SOP 3	647559.128	264306.281	+4.00
SOP 4	647587.625	264306.281	+4.00
SOP 5	647587.625	264150.620	+4.00
SOP 6	647587.625	263786.781	+4.00
SOP 7	647301.188	263786.781	+4.00
SOP 8	647301.188	264051.510	+4.00
SOP 9	647325.799	264091.243	+4.00
SOP 10	647325.799	264115.046	+4.00
SOP 11	647173.401	264115.046	+4.00
SOP 12	647173.401	264093.764	+4.00
SOP 13	647292.576	264093.764	+4.00
SOP 14	647292.576	264141.564	+4.00
SOP 15	647415.699	264141.564	+4.00
SOP 16	647415.699	264150.620	+4.00

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OTHER GRID ☐	(To be defined in the contract project plan)
CONTRACT PROJECT PLAN DOC. REF. No.	N/A

NOTES:
1. ALL DIMENSIONS IN METRES AND ALL LEVELS IN METRES.
2. ALL LEVELS RELATE TO ORDNANCE DATUM UNLESS STATED OTHERWISE.
3. DO NOT SCALE FROM THIS DRAWING.
   DO NOT TAKE DIGITAL DIMENSIONS OFF THIS DRAWING.
   WORK TO FIGURED DIMENSIONS ONLY - IF IN DOUBT ASK.
4. ALL SETTING OUT POINTS ARE ON THE CENTRELINE OF EACH WALL.
5. PROPOSED PLASTIC WALL TO BE 10m MINIMUM FROM SEA DEFENCE WALL ON WEST SIDE.

LEGEND:
SOP 11

SCALE IN METRES
1:2000

1st partner	2nd partner
NNBGEN	EDF ENERGY
CONTRACTOR COMPANY TRADE NAME : COWI	
CONTRACTOR REF. No. SZC-EW0420-CWI-XX-HSZ-XXXXXX-DRW-CIV-100003	
CONTRACT NUMBER : ENW000-370	
CONTRACTOR WBS CODE : EW0420	ORA RELATED: Yes ☐ No ☒

APPLICABILITY:
1. Document related to Unit 1
2. Document related to Unit 2
3. Document that applies to buildings/systems common to Unit 1 & 2
4. Documents that relate exclusively to buildings or systems that are common to the whole site (e.g. parking, ancillary buildings...)

NUCL/REP/EPR/UKCA				
SZC (doc SZ)				
0	1	2	9	
X				

BUILDING: HSZ
SYSTEM: N/A

SCALE	1:2000 @ A1
SIZE	A1
PAGE	1/1
DESCRIPTION	PLASTIC WALL LAYOUT AND SETTING OUT

TEAMCENTER DOCUMENT REFERENCE No.
XXXXXXXXX

DOCUMENT SUB -TYPE: DRAWING	EDF CLASSIFICATION CODE: N/A
SUBCONTRACTOR COMPANY TRADE NAME: N/A	SUBCONTRACTOR DOCUMENT REF. No.: N/A

INTELLECTUAL PROPERTY OWNERSHIP	NNB: OWNERSHIP	EDF: N/A	CONTRACTOR: OWNERSHIP

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ANNEX C – DEWATERING WELL TYPICAL DETAILS

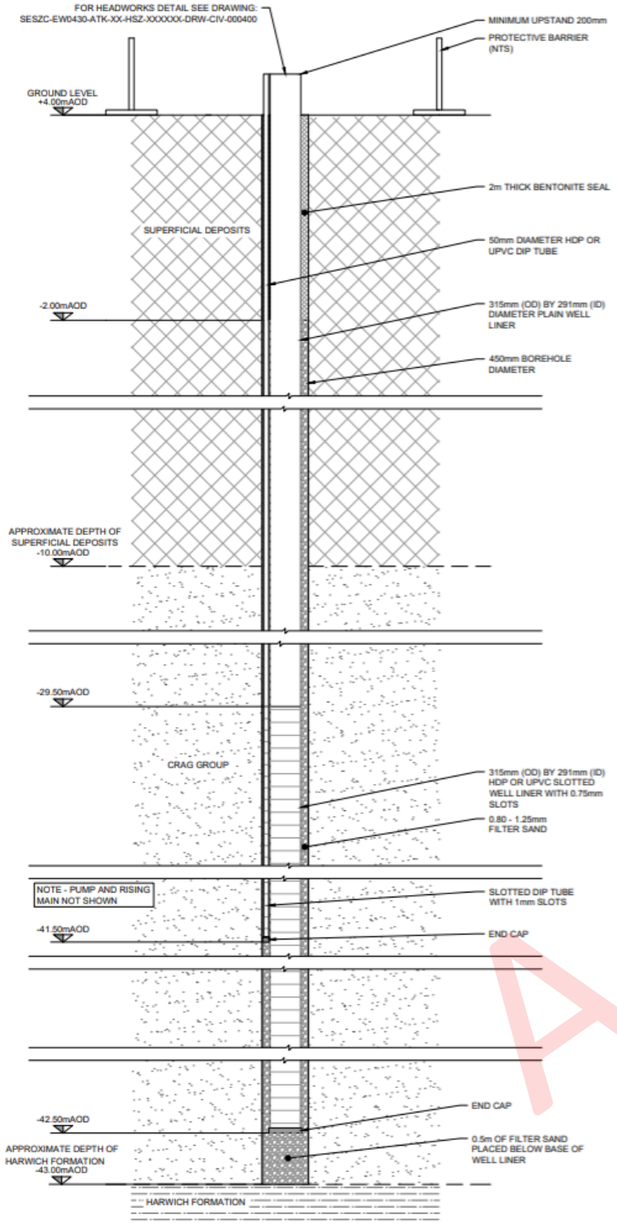
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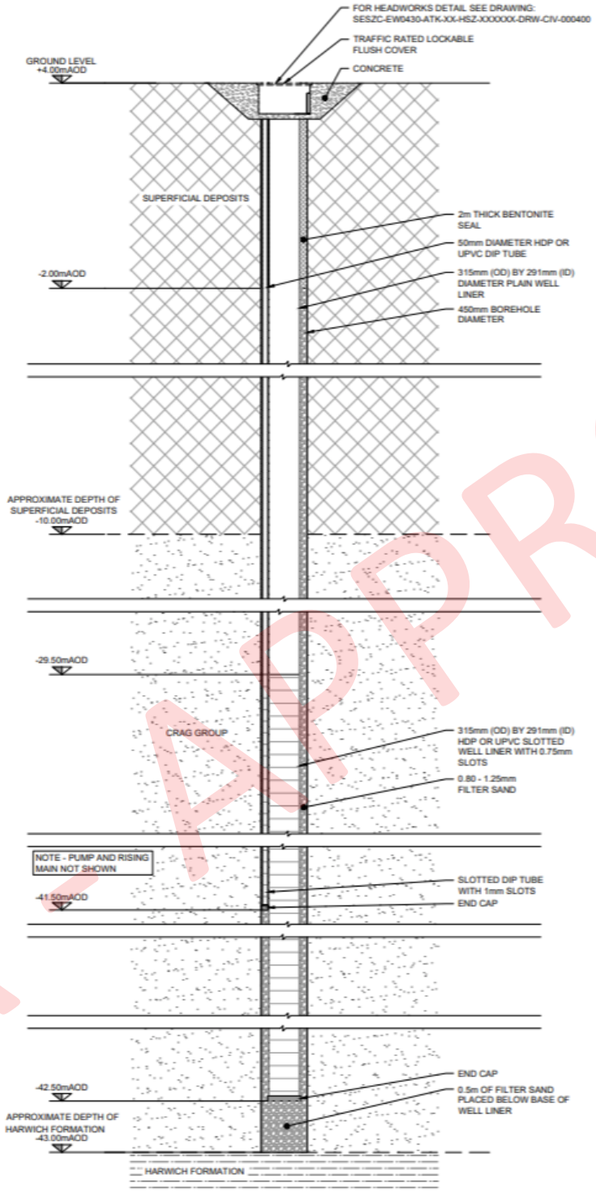
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101753915
Revision 01

MCA/WRA/2 GROUNDWATER CONTROL TECHNICAL NOTE



DEWATERING WELL SECTIONAL DETAIL TYPE 1
(SCALE 1:25)



DEWATERING WELL SECTIONAL DETAIL TYPE 2
(SCALE 1:25)

WELL DRILLING AND INSTALLATION

- BOREHOLES FOR THE INTERNAL WELLS SHALL BE DRILLED BY REVERSE-CIRCULATION ROTARY DRILLING METHODS. WHERE UNSTABLE DEPOSITS ARE PENETRATING THEY SHALL BE SUPPORTED BY TEMPORARY CASING. A DRILLERS LOG OF STRATA PENETRATED SHALL BE PRODUCED FOR EACH BOREHOLE AND THE CONSTRUCTION DETAILS SHALL BE RECORDED INCLUDING QUANTITY OF WELL LINER AND FILTER SAND USED RECORDED.
- BOREHOLE DRILLING SHALL BE SUPERVISED BY A QUALIFIED GEOTECHNICAL ENGINEER AND AN ENGINEERS LOG MADE FOR EACH BOREHOLE IN ACCORDANCE WITH BS5930:2015+A1:2020.
- THE WELL BORE SHALL BE DRILLED AT 450mm DIAMETER
- INTERNAL WELLS SHALL BE DRILLED TO A NOMINAL LEVEL OF -43m AOD TO ACHIEVE FULL PENETRATION OF THE CRAG GROUP AQUIFIER. THE FINAL DEPTH TO BE DETERMINED BY THE GEOTECHNICAL SUPERVISING ENGINEER.
- PRIOR TO THE INSTALLATION OF WELL SCREEN AND LINER, 0.5m OF FILTER SAND OF SUGGESTED 0.80 TO 1.25mm SHALL BE PLACED IN THE BOREHOLE TO GIVE A FIRM BEDDING FOR THE BASE OF THE WELL SCREEN.
- THE WELL SCREEN AND LINER SHALL BE INSTALLED CENTRALLY IN THE BOREHOLE HDPE OR UPVC WELL SCREEN AND LINER SHALL BE USED WITH A 315mm (OD) by 291mm (ID) DIAMETER PLAIN WELL LINER WITH AN END CAP FITTED AT THE BASE.
- WELLSCREEN SHALL BE PROVIDED WITH FACTORY CUT SLOTS OF WIDTH 0.75mm AND MINIMUM OPEN AREA OF 11%
- CENTRALISERS SHALL BE FITTED TO THE WELLSCREEN AND CASING, AT A MAXIMUM VERTICAL SPACING OF 6m
- THE LENGTHS OF WELL SCREEN AND WELL LINER SHALL BE RECORDED.
- A 50mm DIAMETER DIP TUBE WITH END CAP SHALL BE INSTALLED DIRECTLY ADJACENT TO THE WELL LINER TO -41.5mAOD.
- THE DIP TUBE SHALL BE PROVIDED WITH FACTORY CUT SLOTS OF 1mm WIDTH. WITH THE RESPONSE ZONE BETWEEN -29.5m AOD AND -41.5m AOD.

- THE ANNULUS AROUND THE WELL SCREEN AND LINER AND DIP TUBE SHALL BE BACKFILLED AS FOLLOWS:

1. FILTER SAND SHALL BE PLACED BY TREMIE PIPE AND THE DEPTH OF THE SAND DURING PLACEMENT DETERMINED BY DIPPING WITH A WEIGHTED TAPE.
2. THE VOLUME OF FILTER SAND INSTALLED SHALL BE RECORDED FOR EACH 5m INCREMENT OF BOREHOLE DEPTH
3. HYDRATED BENTONITE PELLETS SHALL BE ADDED FROM GROUND LEVEL TO 2m BGL.

WELL DEVELOPMENT:

- ALL WELLS SHALL BE DEVELOPED BY AIRLIFTING. WATER FROM DEVELOPMENT SHALL BE COLLECTED LOCALLY AND TRANSPORTED TO THE RELEVANT WATER DISPOSAL POINT.
- DEVELOPMENT PUMPING SHALL BE CARRIED OUT BY INTERMITTENT AIRLIFT PUMPING WITH THE WELL PUMPED AT A HIGH FLOW RATE UNTIL THE WATER LEVEL IN THE WELL IS SIGNIFICANTLY LOWERED; THE PUMPING SHALL THEN BE STOPPED SUDDENLY TO LET THE WELL FILL UP WITH WATER. WHEN THE WATER LEVEL IN THE WELL HAS RECOVERED SIGNIFICANTLY THE PUMPING SHALL BE STARTED AGAIN AND THE STOP/START PUMPING SEQUENCE REPEATED UNTIL PUMPED WATER RUNS CLEAR.
- FOLLOWING THE STOP/START PUMPING, THE WELL SHALL BE PUMPED CONTINUOUSLY UNTIL THE PUMPED WATER RUNS CLEAR.
- DURING EACH PERIOD OF CONTINUOUS CLEARANCE PUMPING THE FLOW RATE AND THE WATER LEVEL IN THE WELL SHALL BE RECORDED, SO THAT THE APPROXIMATE WELL YIELD CAN BE ESTIMATED BY THE CONTRACTOR.
- DEVELOPMENT AND CLEARANCE PUMPING OF DEWATERING WELLS SHALL BE REPEATED UNTIL THE WELL PUMPING RATE HAS REACHED A MAXIMUM, THE PUMPED WATER IS VISUALLY CLEAR, AND THE SEDIMENT CONTENT OF THE PUMPED WATER IS LESS THAN 5 ml/l MEASURED BY IMHOFF CONE.
- THE TARGET YIELD SHALL BE APPROPRIATE FOR THE PUMPS USED.

ACCEPTANCE CRITERIA FOR MONITORING WELLS:

ALL WELLS MUST BE EFFECTIVE AND MUST SATISFY THE INTENDED DESIGN. THE ACCEPTANCE CRITERIA FOR DEWATERING WELLS ARE SUMMARISED BELOW. ANY WELLS THAT DO NOT MEET THESE CRITERIA SHOULD BE REDRILLED OR REPLACED.

- THE BASE OF THE WELL LINER MUST BE INSTALLED TO WITHIN +/- 0.25m OF THE LEVEL SPECIFIED.
- THE VOLUME OF FILTER GRAVEL PLACED MUST BE MORE THAN 90 PER CENT OF THE THEORETICAL ANNULUS VOLUME.
- SEDIMENT CONTENT OF PUMPED WATER DURING AIRLIFT DEVELOPMENT MUST BE LESS THAN 5 ml/l WHEN MEASURED BY IMHOFF CONE.

PUMPED WELLS

- 10 NO. INTERNAL WELLS SHALL BE INSTALLED WITH ELECTRIC SUBMERSIBLE BOREHOLE PUMPS OF THE CAPACITY 25 L/S AT 66.2m HEAD. THE BOREHOLE PUMP IN EACH WELL SHALL BE EQUIPPED WITH RISING MAIN, HEADWORKS AND DROP CABLE. PUMP SELECTION BY PHASE 3 CONTRACTOR.
- PUMPS SHALL BE EQUIPPED WITH AUTOMATIC CONTROL SYSTEMS WHICH SHOULD ALLOW INDIVIDUAL PUMPS TO STOP AND START IN RESPONSE TO HIGH OR LOW WATER LEVELS IN THE WELL.
- SYSTEM SHOULD BE PROVIDED WITH AN AUTOMATIC MAINS FAILURE (AMF) SYSTEM TO AUTOMATICALLY RESTART THE PUMPS IN THE EVENT OF A LOSS OF PRIMARY POWER.
- THE WELL HEAD SHALL CONNECT TO A FLEXIBLE PIPE TO CARRY THE PUMPED WATER TO THE RING MAIN.
- THE DISCHARGE PIPELINE SHALL BE OF ADEQUATE DIAMETER TO AVOID EXCESSIVE HEAD LOSSES AND SHALL COMPRISE SMOOTH BORE PIPE WITH LOW FRICTION PROPERTIES SUITABLE FOR PUMPING GROUNDWATER.

OBSERVATION/CONTINGENCY WELLS

- 16 NO. INTERNAL WELLS SHALL ACT AS OBSERVATION WELLS.
- IF OVERALL DEWATERING FLOWRATES ARE VERY HIGH, OR PUMPING WELLS ARE DESTROYED OR TAKEN OUT OF COMMISSION, PUMPS CAN BE INSTALLED IN THE OBSERVATION WELLS TO AT AS CONTINGENCY PUMPED WELLS.

STANDBY FACILITIES

- THE GROUNDWATER CONTROL SYSTEM SHOULD HAVE ADEQUATE BACK UP AND STANDBY FACILITIES INCLUDING PROVISION OF STANDBY AND DUTY GENERATORS.

WELLHEAD PROTECTION AND CABLE PROTECTION

- WELLS SHALL BE PROTECTED WITH TRAFFIC-RESISTANT BARRIERS OR OTHER METHODS TO PREVENT DAMAGE TO THE WELLS FROM CONSTRUCTION PLANT AND OTHER ACTIVITIES.
- PUMP POWER CABLES SHALL BE PROTECTED WITH TRAFFIC CONES/BARRIERS TO PREVENT DAMAGE FROM CONSTRUCTION PLANT AND OTHER ACTIVITIES.

0.5m 0m 0.5m 1m
Scale 1:25

UK PROTECTIVE MARKING:
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DRAWING GRID / COORDINATE SYSTEM:

SITE LOCAL GRID	☐	NATIONAL GRID OSGB36	☐
OTHER GRID	☐	(To be defined in the contract project plan)	
CONTRACT PROJECT PLAN DOC. REF. No.		N/A	

NOTES:

1. ALL LEVELS ARE IN METRES ABOVE ORDINANCE DATUM (m AOD) UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
3. PLAN VIEW OF WELL LOCATIONS PROVIDED IN DRAWING "SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000601" AND "SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000600".
4. DEWATERING SPECIFICATION PROVIDED IN SZC-EW0430-ATK-XX-HSZ-XXXXXX-SPE-CIV-000001.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION

EW0430-01 - FALLS AND TRIPS INTO WELLS
EW0430-02 - DEWATERING FAILS
EW0430-03 - REMOVAL, REPLACEMENT AND MAINTENANCE OF PUMPS, AND OTHER ONGOING OPERATIONAL AND MAINTENANCE
EW0430-04 - STRIKE/ DAMAGE TO POWER SUPPLY AND WATER DISCHARGE PIPES.
EW0430-05 - MONITORING AND ACCESS, CLASHES WITH OTHER OPERATIONS.
EW0430-06 - GEOCHEMICAL CLOGGING OF WELLS (E/G IRON DEPOSITS/OCHRE BUILD UP).
EW0430-07 - INSTALLATION OF PIPEWORK AT HEIGHT
EW0430-08 - COLLAPSE OF TRENCHES DURING INSTALLATION OF BURIED SECTIONS OF RING MAIN.
EW0430-09 - FALL FROM CUTOFF WALL DURING INSTALLATION OF HOSE CONNECTION TO RING MAIN.
EW0430-10 - DAMAGE TO RING MAIN
EW0430-11 - DAMAGE TO A WELL/CABLE/CONNECTION HOSE FROM CONSTRUCTION PLANT.

MAINTENANCE/CLEANING

*N/A

DECOMMISSIONING/DEMOLITION

*N/A

The above risks are listed in the Design Risk Register reference SZC-EW0000-ATK-XX-000-XXXXXX-REG-CIV-000009

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

REV.	DATE	PREPARED BY	CHECKED BY	STATUS	REASONS FOR REVISION	APPROVED BY
P01	30/06/26	SN	DH	P4	First Revision	DF
P02	04/03/26	NBL	DC	P4	Phase 2 Design Update (New Baseline)	DF
P03.01		NBL	DC	P4	Phase 2 Design Update (For Permitting Support)	---

NNB GenCo (SZC) LTD. | 1st partner: Sizewell C | 2nd partner: AtkinsRéalis

CONTRACTOR COMPANY TRADE NAME : AtkinsRéalis
CONTRACTOR REF. No. SZC-EW0430-ATK-XX-HSZ-XXXXXX-DRW-CIV-210100
CONTRACT NUMBER : Early Works EWXXXX_098_01
CONTRACTOR WBS CODE : EW0430 | QRA RELATED Yes ☐ No ☒

APPLICABILITY:
1: Document related to Unit 1
2: Document related to Unit 2
9: Document that applies to buildings/systems common to Unit 1 & 2
0: Documents that relate exclusively to buildings or systems that are common to the whole site (e.g. parking, ancillary buildings...)

NUCL/REP/EPR/UKX			
SZC (doc: SZ)			
0	1	2	9
X			

BUILDING: HSZ
SYSTEM: N/A

SCALE: 1:25
SIZE: A1
PAGE: 1/1
DESCRIPTION: Dewatering Well Typical Details

TEAMCENTER DOCUMENT REFERENCE No.: 101159791

DOCUMENT SUB -TYPE: N/A | EDF CLASSIFICATION CODE: N/A
SUBCONTRACTOR COMPANY TRADE NAME: N/A | SUBCONTRACTOR DOCUMENT REF. No: 5213850-SNC-XX-XX-DDRW-G-000637

INTELLECTUAL PROPERTY OWNERSHIP: | NNB: N/A | EDF: N/A | CONTRACTOR: N/A

UK PROTECTIVE MARKING:
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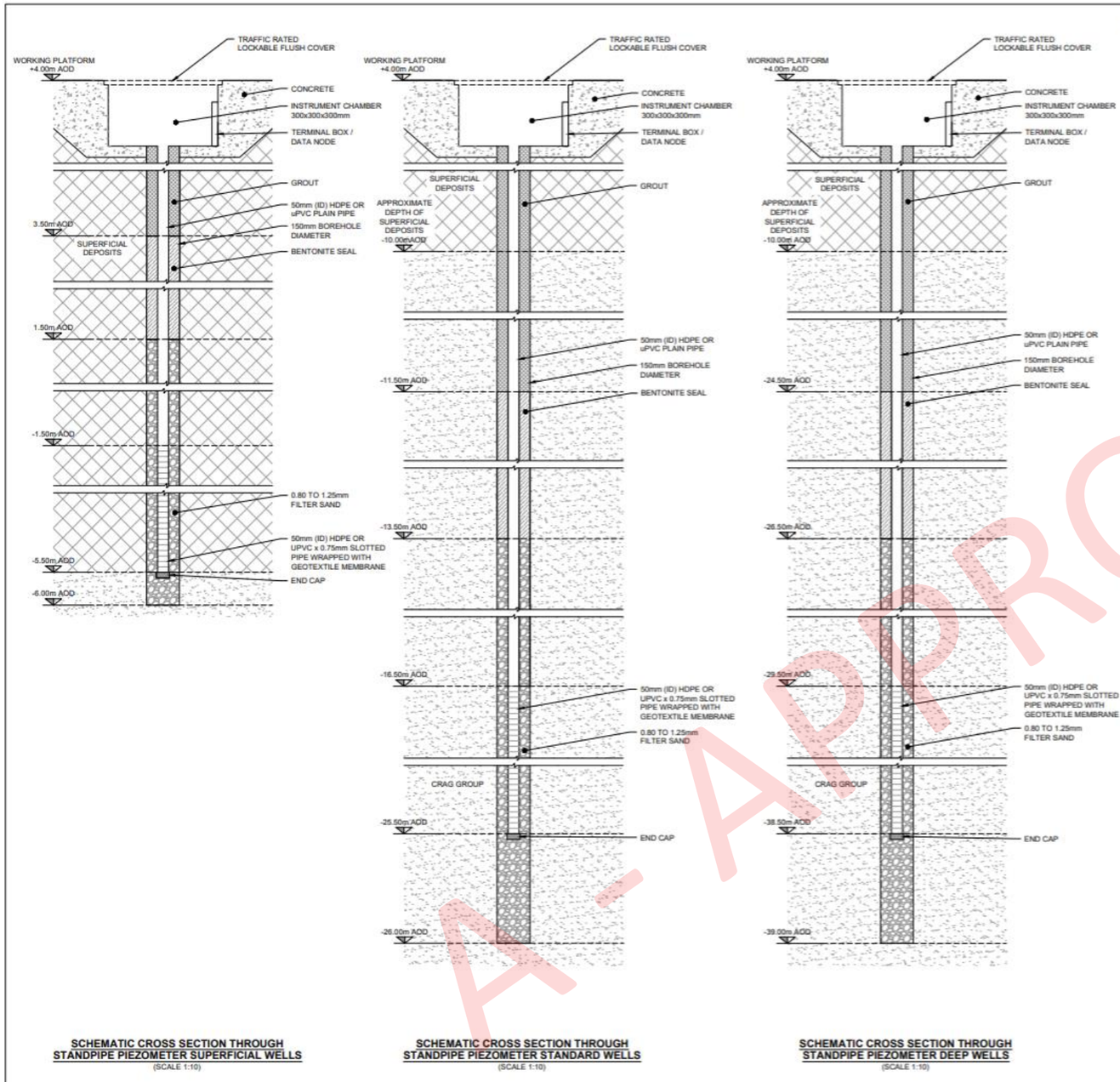
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ANNEX D – DEEP PIEZOMETER TYPICAL DETAILS (3RD CROSS-SECTION)

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SCHEMATIC CROSS SECTION THROUGH STANDPIPE PIEZOMETER SUPERFICIAL WELLS
(SCALE 1:10)

SCHEMATIC CROSS SECTION THROUGH STANDPIPE PIEZOMETER STANDARD WELLS
(SCALE 1:10)

SCHEMATIC CROSS SECTION THROUGH STANDPIPE PIEZOMETER DEEP WELLS
(SCALE 1:10)

STANDPIPE PIEZOMETER DRILLING AND INSTALLATION

- BOREHOLES SHALL BE DRILLED BY SUITABLE ROTARY DRILLING METHODS. WHERE UNSTABLE DEPOSITS ARE PENETRATED, THEY SHALL BE SUPPORTED BY TEMPORARY CASING. A DRILLERS LOG OF STRATA PENETRATED SHALL BE PRODUCED FOR EACH BOREHOLE AND THE CONSTRUCTION DETAILS SHALL BE RECORDED INCLUDING THE QUANTITY OF WELL LINER AND FILTER SAND USED.
- BOREHOLE DRILLING SHALL BE SUPERVISED BY A QUALIFIED GEOTECHNICAL ENGINEER AND AN ENGINEERS LOG MADE FOR EACH BOREHOLE IN ACCORDANCE WITH BS5930:2015+A1:2020.
- BOREHOLES SHALL BE DRILLED TO A NOMINAL LEVEL OF -6m AOD (SUPERFICIAL WELLS), -26m AOD (STANDARD WELLS) OR -39m AOD (DEEP WELLS).
  REFER TO DRAWINGS:
  SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000600 AND
  SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000601.
- PRIOR TO THE INSTALLATION OF PLAIN AND SLOTTED PIPE, 0.5m OF SUGGESTED 1.25mm FILTER SAND SHALL BE PLACED IN THE BOREHOLE TO GIVE A FIRM BEDDING FOR THE BASE OF THE WELL SCREEN.
- A MINIMUM 50 mm INTERNAL DIAMETER HDPE OR UPVC WELL SCREEN AND LINER SHALL BE USED WITH AN END CAP FITTED AT THE BASE. THE WELL SCREEN AND LINER SHALL BE INSTALLED CENTRALLY IN THE BOREHOLE USING CENTRALISERS.
- WELL SCREEN SHALL BE PROVIDED WITH FACTORY CUT SLOTS OF WIDTH 0.75mm AND INSTALLED BETWEEN -1.5m AOD AND -5.5m AOD (SUPERFICIAL WELLS), -16.5m AOD AND -25.5m AOD (STANDARD WELLS) OR -29.5m AOD TO -38.5m AOD (DEEP WELLS).
  REFER TO DRAWINGS:
  SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000600 AND
  SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000601.
- A DATA LOGGER SHALL BE PLACED AT LEAST 0.5m ABOVE THE BASE OF THE WELL LINER TO WITH THE CAPABILITY OF PROVIDING REMOTE DATA COLLECTION.
- A VENTED BUNG SHALL BE PLACE AT THE TOP OF THE STANDPIPE PIEZOMETER.
- THE ANNULUS AROUND THE WELL SCREEN AND LINER SHALL BE BACKFILLED AS FOLLOWS:

1. 0.80 TO 1.25mm FILTER SAND SHALL BE PLACED IN THE ANNULUS BETWEEN: -5.5m AOD TO 1.5m AOD (SUPERFICIAL WELLS), -25.5m AOD TO -13.5m AOD (STANDARD WELLS) OR -38.5m AOD TO -26.5m AOD (DEEP WELLS).
   REFER TO DRAWINGS:
   SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000600 AND
   SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000601.
2. THE VOLUME OF FILTER SAND INSTALLED SHALL BE RECORDED FOR EACH 5m INCREMENT OF BOREHOLE DEPTH.
3. HYDRATED BENTONITE PELLETS SHALL BE ADDED FROM 1.5m AOD TO 3.5m AOD (SUPERFICIAL WELLS), -13.5m AOD TO -11.5m AOD (STANDARD WELLS) OR -26.5m AOD TO -24.5m AOD (DEEP WELLS).
   REFER TO DRAWINGS:
   SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000600 AND
   SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000601
4. GROUT SHALL BE ADDED FROM TOP OF HYDRATED BENTONITE PELLETS TO GROUND LEVEL.

INSTALLATION TO BE DEVELOPED IN ACCORDANCE WITH THE RECOMMENDATIONS OF BS5930:2015+A1:2020 AND BS ISO14686.

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DRAWING GRID / COORDINATE SYSTEM:
SITE LOCAL GRID ☐ | NATIONAL GRID OSGB36 ☐
OTHER GRID ☐ | (To be defined in the contract project plan)
CONTRACT PROJECT PLAN DOC. REF. No: N/A

NOTES:

1. ALL LEVELS ARE IN METRES ABOVE ORDANANCE DATUM (mAOD) UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
3. PLAN VIEW OF LOCATIONS PROVIDED IN DRAWING SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000601 AND SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000600.
4. DEWATERING SPECIFICATION PROVIDED IN SZC-EW0430-ATK-XX-HSZ-XXXXXX-SPE-CIV-000001.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION
*N/A

MAINTENANCE/CLEANING
*N/A

DECOMMISSIONING/DEMOLITION
*N/A

The above risks are listed in the Design Risk Register reference SZC-EW0000-ATK-XX-000-XXXXXX-REG-CIV-000009

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

P01	09/08/24	SN	DH	P4	First Revision	DF
P02	04/03/25	NBL	DC	P4	Phase 2 Design Update (New Baseline)	DF
P03.01	---	NBL	DC	P4	Phase 2 Design Update (For Permitting Support)	---
REV.	DATE	REVISED BY	CHECKED BY	STATUS	REASONS FOR REVISION	APPROVED BY

NNB GenCo (SZC) LTD. | 1st partner: Sizewell C | 2nd partner: AtkinsRéalis

CONTRACTOR COMPANY TRADE NAME : AtkinsRéalis
CONTRACTOR REF. No. SZC-EW0430-ATK-XX-HSZ-XXXXXX-DRW-CIV-000301
CONTRACT NUMBER : Early Works EWXXXX_098_01
CONTRACTOR WBS CODE :EW0430 | QRA RELATED Yes ☐ No ☐

APPLICABILITY:
1: Document related to Unit 1
2: Document related to Unit 2
0: Document that applies to buildings/systems common to Unit 1 & 2
0: Documents that relate exclusively to buildings or systems that are common to the whole site (e.g. parking, ancillary buildings...)

NUCL/REP/EPR/UKX			
SZC (doc: SZ)			
0	1	2	9
X			

BUILDING: HSZ
SYSTEM: N/A

SCALE 1:10
SIZE A1
PAGE 1/1
DESCRIPTION: Standpipe Piezometer Typical Details

TEAMCENTER DOCUMENT REFERENCE No.
101192179

DOCUMENT SUB -TYPE: N/A
EDF CLASSIFICATION CODE: N/A
SUBCONTRACTOR COMPANY TRADE NAME: N/A
SUBCONTRACTOR DOCUMENT REF. No: 5213850-SNC-XX-XX-DSRW-G-000703

0 1 2 3 4 5 6 7 8 9 10

INTELLECTUAL PROPERTY OWNERSHIP: | NNB: N/A | EDF: N/A | CONTRACTOR: N/A

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0.1m 0m 0.2m 0.4m 0.6m
Scale 1:10

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NA

101753810
Revision 01

Sizewell C
The power of good for Britain

A - APPROVED

Sizewell C Project
MCA/WRA/2 Hydrogeological Impact Assessment (HIA)

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Prepared by:	[redacted]
Verified by:	[redacted]
Reviewed by:	[redacted]
Approved by:	[redacted]

REVISION HISTORY

Rev	Status	Amendment	Prepared By	Date
0.1	Draft	First Draft	[redacted]	13/05/2026
0.2	Draft	Draft for EA and internal comments		22/05/2026
01	Final	Document for submission		23/05/2026

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1 INTRODUCTION

1.1 Purpose

As part of the development of the Nuclear Power Station at Sizewell C, groundwater dewatering within the Cut Off Wall (COW) is required to enable the construction works at the Main Construction Area (MCA) to proceed as planned.

The COW provides a low permeability barrier to control groundwater inflow and limit the interaction between the excavation area and the surrounding area, including environmental receptors. By reducing groundwater ingress, the groundwater control system enables effective dewatering within the excavation area, allowing earthworks to remove drier material and work under more stable ground conditions.

Sizewell C Limited (SZC) is applying for a Water Abstraction Licence (Ref. MCA/WRA/2). This document serves as an overarching compilation of the available hydrogeological and design information. It forms part of the supporting documentation submitted in connection with the permit application for dewatering activities within the COW at the MCA.

1.2 Scope

This document summarises the findings from a series of standalone supporting documents, which consider different aspects of the potential mechanisms for hydrogeological impact from the proposed abstraction. This overarching assessment should be read in conjunction with the following supporting documents, which provide detailed technical evidence and analysis:

- Groundwater Control Technical Note [Ref. 1]
- Basal Stability Assessment
    - Basal Stability Assessment During the Temporary Excavation of the Main Construction Area [Ref. 2]
    - Design Report – Dewatering [Ref. 3]
- EW0400 Groundwater Modelling - DCO Modelling [Ref. 4]
- Water Monitoring Technical Note [Ref. 5]

A full summary of the application package is provided in **Section 1.5**.

The associated Technical Notes and datasets provide the evidence base for the Hydrogeological Impact Assessment (HIA) to support the proposed dewatering activities at the MCA as discussed in **Section 8**. These documents, along with the other supporting documentation listed in **Section 1.4,** provide the supporting information prepared for the Habitats Regulations Assessment (HRA) [Ref. 6].

1.3 Definitions

Term / Abbreviation	Definition
CDO	Combined Discharge Outfall
COW	Cut Off Wall
CRoW	Countryside and Rights of Way Act
DCO	Development Consent Order

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Term / Abbreviation	Definition
EDRMS	Electronic Document and Records Management System
HIA	Hydrogeological Impact Assessment
HRA	Habitat Regulations Assessment
HDPE	High-Density Polyethylene
MCA	Main Construction Area
PBOE	Practical Bottom of Excavation
SAC	Special Area of Conservation
SPA	Special Protection Area
SSSI	Site of Special Scientific Interest
SZB	Sizewell B
SZC	Sizewell C

1.4 References

Ref	Document Title	Version	TC Reference Number
1	MCA/WRA/2 Groundwater Control Technical Note	003	101753915
2	Basal Stability Assessment During the Temporary Excavation of the Main Construction Area	002	101812036
3	Dewatering Design Report for Work Package EW0430	P04	101297050
4	EW0400 Groundwater Modelling – DCO Modelling Report	P01	101726967
5	MCA/WRA/2 Water Monitoring Technical Note	002	101753918
6	Package to Inform Countryside Rights of Way (CRoW) Act Assessment and Habitats Regulations Assessment, Permit MCA/WRA/2	001	101753758
7	MCA/WRA/2 Existing Monitoring Locations Layout Plan	001	101753912
8	EA and NE Modelling and Monitoring Requirements for MCA.WRA.2 Contact Report	001	101753383

1.5 Summary of application

Table 1 below provides a summary of the application package.

Table 1 Application documents

Document Title	TC Reference Number	Version Number	Description
MCA/WRA/2 Application Form Part A	101861089	001	Part A of application forms for a water resources licence
MCA/WRA/2 Application Form Part B	101863255	001	Part B of application forms for a water resources licence
MCA/WRA/2 Application Form Part C	101863372	001	Part C of application forms for a water resources licence
MCA/WRA/2 Application Form Part E	101861094	001	Part E of application forms for a water resources licence
MCA/WRA/2 Water Monitoring Technical Note	101753906	001	Technical note identifying the existing monitoring locations, proposing new monitoring locations and

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Document Title	TC Reference Number	Version Number	Description
			proposing trigger levels to monitor water levels for the dewatering works.
MCA/WRA/2 Existing Monitoring Locations Layout Plan	101753912	001	Figure showing existing monitoring locations across the Sizewell C site.
MCA/WRA/2 Proposed Monitoring Locations	101793469	001	Figure showing proposed monitoring network to monitor the water levels for the dewatering works.
MCA/WRA/2 Proposed Monitoring Locations and Superficial Geology	101793449	001	Figure showing proposed monitoring network to monitor the water levels for the dewatering works underlain by superficial geology.
Dewatering Well and Piezometer Layout Tile-A20	101804841	001	Figure showing the layout of the dewatering wells and piezometers within and immediately surrounding the COW (northern area)
Dewatering Well and Piezometer Layout Tile-A29	101804842	001	Figure showing the layout of the dewatering wells and piezometers within and immediately surrounding the COW (southern area)
MCA/WRA/2 Groundwater Control Technical Note	101753915	001	Technical note summarising the key aspects and performance requirement of the groundwater control system, including control methods should there be a defect in the COW.
Basal Stability Assessment During the Temporary Excavation of the Main Construction Area	101815719	002	Technical note assessing the uplift stability and hydraulic heave stability due to the deep excavation works and potential uplift water pressure.
Package to Inform Countryside and Rights of Way Act Assessment and Habitats Regulations Assessment	101753758	001	Package of Information to aid the Environment Agency in completing their HRA and CRoW assessments for this permit.
Sizewell C Land Boundaries	101245958	001	Figure showing the land ownership boundary belonging to Sizewell C.
EW0400 Groundwater Modelling - DCO Modelling Report	101726967	P01.10	Modelling report simulating the potential drawdown of water levels across the site as a result of dewatering within the COW.
MCA/WRA/2 Groundwater Modelling Data Sets	101861912	001	Processed data from the DCO modelling runs showing the potential drawdown of water levels at locations across the site.
MCA/WRA/2 Hydrogeological Impact Assessment (this document)	101753810	001	Document summarising the findings of the supporting technical documents which consider different aspects of the potential mechanisms for hydrogeological impact from the proposed abstraction.

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2 PROPOSALS

The construction of Sizewell C will involve significant earthworks and excavation through the superficial deposits into the Crag deposits. Groundwater levels and permeability are high within the Crag deposits and, to enable construction works to proceed, the earthworks and excavation will be undertaken within a COW, which will provide a barrier to groundwater movement into the works area. In addition to the COW, a dewatering system will be employed to lower groundwater levels as works proceed and to provide suitable dry working conditions.

The COW will be constructed as a plastic (mixture of concrete and bentonite) wall and divided into two separate units – Units 1 and 2. The COW will form the entire perimeter within which dewatering works will take place, with a central wall separating the two units, allowing dewatering to commence in Unit 1 ahead of Unit 2. The location of the COW in relation to the other features on the site is presented in **Figure 1**. It should be noted that the groundwater control assessment is based on a proposed maximum extent of the COW as a conservative approach. Small adjustments to the COW alignment could take place to accommodate site constraints which could reduce the dewatering footprint. One example of this is the southwest corner where the alignment is planned to be moved inwards from that considered in this assessment, further details are provided in **Section 8.8**.

All abstraction will take place inside the COW, which will completely enclose this area of the MCA and extend into the underlying Harwich Formation to create a hydraulic barrier.

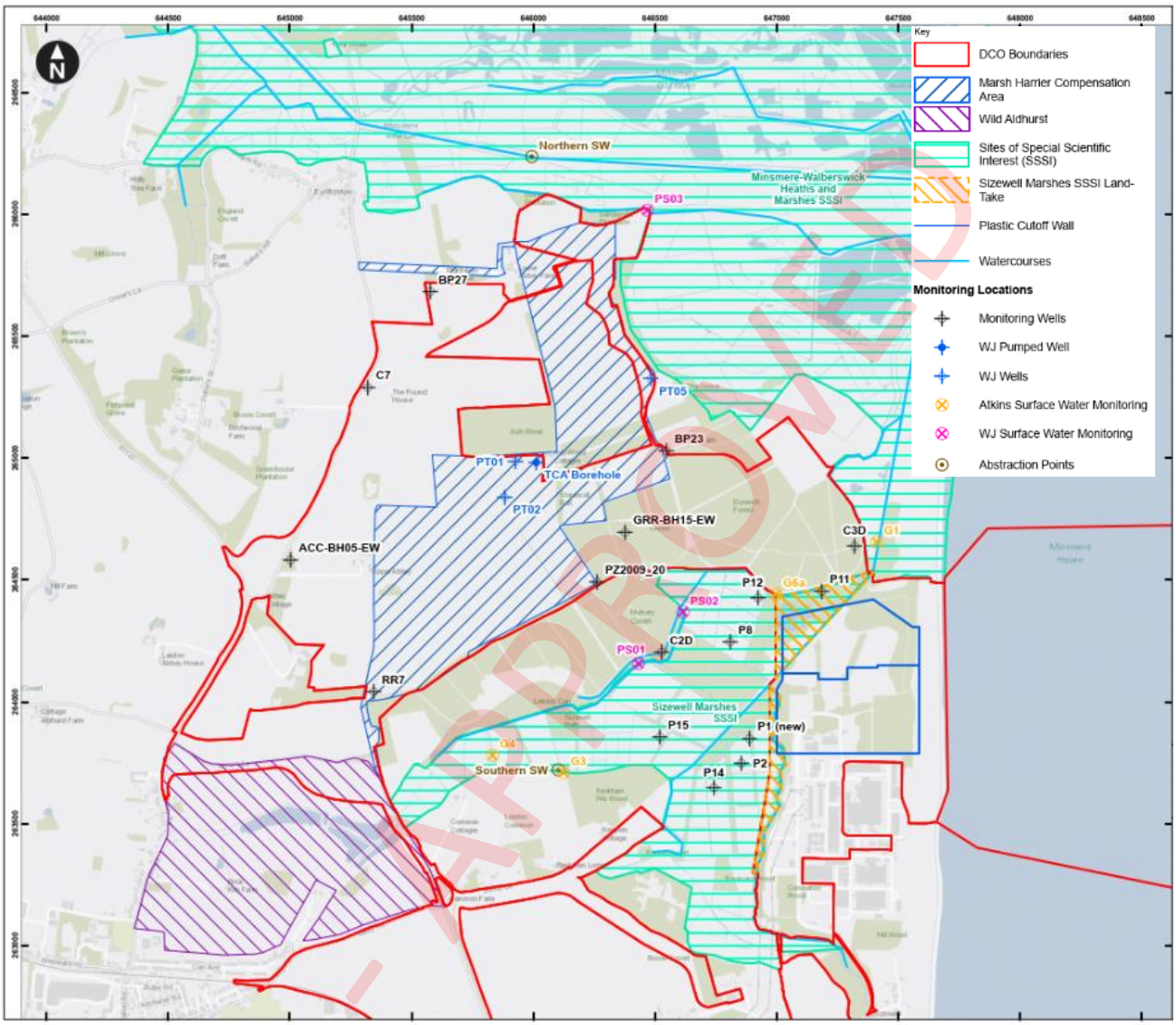
The groundwater control system is an engineered low permeability COW keyed into the naturally low permeability Harwich Formation. It is designed to limit groundwater flow through and under the COW by creating a hydraulic barrier and reducing flow pathways This in turn limits the extent and magnitude of groundwater drawdown outside of the COW.

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Figure 1– Existing Monitoring Locations [Ref. 7]



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3 SENSITIVE RECEPTORS

The following types of sensitive receptors have been considered, taking into account the modelled radius of influence of the dewatering activity.

3.1.1 Ecologically sensitive sites

Sites of Special Scientific Interest (SSSIs), Special Areas of Conservation (SACs), Special Protection Areas (SPAs) and Ramsar sites, listed in **Table 2**, have been identified as sensitive receptors as per the HRA information pack [Ref. 6] submitted with this permit application. Location of the features of interest are shown on MCA/WRA/2 Existing Monitoring Locations Layout Plan [Ref. 7].

Table 2 Sensitive Receptors

Sensitive Receptor Site	Distance from Permit location
Sizewell Marshes SSSI *	0.03 km W from COW
Minsmere to Walberswick SSSI	0.07 km N from COW
Minsmere to Walberswick Heaths and Marshes SAC	0.07 km N from COW
Minsmere-Walberswick SPA	0.07 km N from COW
Minsmere-Walberswick Ramsar site	0.07 km N from COW
Marsh Harried Compensation Habitat **	0.78 km NW from COW
Wild Aldhurst **	1.50 km SW from COW

* Note that part of the Sizewell Marshes has been part of the SZC land-take to enable construction. Land-take and compensation due to habitat loss have been agreed at Development Consent Order (DCO) stage.

** Compensation habitats assessed as functional designated sites for this permit application.

The designated sites are wetland habitats containing ecological features of interest supported by groundwater and surface water. In addition, both Wild Aldhurst and the Marsh Harrier compensation habitats are considered of importance, with the Marsh Harrier specifically mentioned in the joint comment note from the Environment Agency and Natural England, dated 20/02/2026 [Ref. 8]. For a location plan including the Marsh Harrier compensation habitat and the Wild Aldhurst, please refer to MCA/WRA/2 Existing Monitoring Locations Layout Plan [Ref. 7].

Dewatering will take place by abstraction of groundwater from boreholes installed within the perimeter of the proposed COW (refer to MCA/WRA/2 Groundwater Control Technical Note [Ref. 1]). These boreholes will be constructed to abstract groundwater from the Crag Formation. All abstraction will be inside the low permeability COW, which will completely enclose this area within the MCA and extend into the underlying Harwich Formation to create a hydraulic barrier. Drawdown of groundwater levels outside the COW is limited in magnitude and extent. Therefore, dewatering within the Crag will not cause an impact on the hydraulic function of the wetland sites.

3.1.2 Licenced abstractions

There are no licenced abstractions within the zone of influence of the dewatering. The nearest licenced abstraction points are shown in **Table 3**.

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Table 3 Licenced Abstractions

Licenced abstraction	Distance from Permit location	EA Permit Reference
Temporary Construction Area (TCA) borehole	1.20 km NW from COW	AN/035/0003/016
Northern surface water abstraction point	2.15 km N from COW	7/35/03/*S/0047
Southern surface water abstraction point	0.90 km W from COW	7/35/03/*S/0075

Location of the licenced abstraction shown on MCA/WRA/2 Existing Monitoring Locations Layout [Ref. 7].

A conservative numerical modelling assessment has been carried out that considers abstraction from the TCA borehole taking place at the same time as dewatering within the MCA. The north and south surface water abstractions are anticipated to continue operating in line with their current licence conditions during dewatering within the COW.

On the basis that the modelled radius of influence of the MCA dewatering does not extend to any licenced abstractions, protection of these receptors can be achieved by the proposed monitoring to demonstrate the performance of the COW is in line with the design specification.

3.1.3 Other features

There are no groundwater supported non-designated ecological features of interest within the radius of influence of the MCA dewatering.

Local watercourses or other surface water features that lie outside designated sites are considered outside the radius of influence of the MCA dewatering.

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4 GROUNDWATER CONTROL

The Groundwater Control Technical Note [Ref. 1] covers groundwater control aspects for the dewatering inside the COW at the MCA as part of the Water Abstraction Licence application (Ref. MCA/WRA/2).

The scope of the Groundwater Control Technical Note [Ref. 1] is as follows:

- Set out the reasons why a groundwater control system is required for the project;
- Summarise details of key aspects of groundwater control system including COW layout, wall type and installation depths, ring main system, abstraction borehole locations and proposed construction details;
- Describe the performance requirements of elements of the groundwater control system; and
- Provide information on anticipated control methods should a defect be identified or external groundwater levels decrease at a magnitude more than expected compared with modelling outcomes.

To enable construction works at the MCA of the Sizewell C Nuclear Power Station, a comprehensive groundwater control system has been designed and implemented to manage groundwater levels within a COW.

A continuous COW will be constructed around the perimeter of the proposed dewatering works as two separate units – Units 1 and 2. The COW forms the entire perimeter within which dewatering will take place, with a central wall separating the two units. The wall will be keyed a minimum of 3 m into the Harwich Formation to provide an effective hydraulic barrier and is designed to achieve a permeability of 1×10^{-8} m/s or lower, limiting groundwater inflow into to the excavation and minimising drawdown outside of the COW.

Within the COW, an active dewatering system has been designed to control groundwater levels within the Crag deposits. A total of 26 dewatering wells will be installed around the internal perimeter of the COW and along the internal dividing wall between Units 1 and 2.

Dewatering operations are planned to be carried out in two phases. An initial drawdown phase to lower groundwater levels below the excavation base, followed by a maintenance phase to sustain groundwater levels at approximately 1 m below excavation level for the duration of construction. During initial drawdown phases, abstraction rates of up to 250 L/s are anticipated, reducing to approximately 25–50 L/s during long-term pumping once target groundwater levels have been reached. The dewatering well network is designed to operate continuously with a system lifetime of 15 years. The total number of wells allows operational flexibility as the excavation progresses. As the ground surface is lowered wells will be cut down to a suitable elevation. The required flow rate to lower and maintain water levels within the COW will be achieved by operating a combination of the available wells at any given time to achieve the required flow rate and avoid clashes with construction activity. Additionally, groundwater levels will be monitored in the non-pumped wells to measure the performance of the system.

Abstracted groundwater will be conveyed via a phased ring main system constructed from High-Density Polyethylene (HDPE) pipework. The ring main transfers groundwater from dewatering wells to the sea via the Combined Discharge Outfall (CDO). The phased installation of the ring main ensures that dewatering can commence in Unit 1 while construction of Unit 2 infrastructure continues.

A comprehensive monitoring network has been specified to monitor groundwater levels and pressure to ensure that the COW is performing as required. The network includes deep monitoring wells inside the COW and a series of external piezometers installed around the perimeter. Monitoring in the wider area was started before the construction of the COW to establish baseline conditions and monitor changes in groundwater level and pressure through the construction and post-construction phases.

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Should external drawdown be unacceptable with particular respect to sensitive receptors resulting from groundwater behaviour deviating from modelled outputs, or if a defect is detected in the COW, then potential solutions have been identified to maintain groundwater levels and fix potential issues. These measures may include adjusting abstraction rates, temporarily suspending dewatering, undertaking localised grouting, or implementing groundwater recharge to maintain external groundwater levels. The protective measure implemented will be designed to address any defects identified on a case-by-case basis.

The technical note presents the location, design and specification of the COW, including the phased approach to its construction. Details are provided on how the COW will perform to allow the lowering of groundwater levels without impacting external receptors and how the monitoring data collected will be used to validate modelling assumptions, assess wall integrity, and identify any unexpected groundwater responses at an early stage during the works. Potential management actions and solutions have drawn on experience from the construction of Sizewell B (SZB), where similar techniques that were discussed in this technical note, were successfully applied.

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5 GROUND STABILITY

The Basal Stability technical note [Ref. 2] presents an assessment of basal stability of deep excavations in the MCA at Sizewell C. The assessment focuses on conditions at the Practical Bottom of Excavation (PBOE), where the works excavate to approximately -26.3 m AOD. The technical note builds upon the preliminary basal stability assessment undertaken by the designer and addresses risks associated with uplift and hydraulic heave due to groundwater pressures beneath the Harwich Formation.

The Harwich Formation is a low permeability unit which acts as a hydraulic barrier between the overlying deposits (Crag aquifer, superficial deposits) and the underlying units (Lambeth and Chalk Groups). The Harwich Formation is on average 14m thick and has a groundwater head above the unit of 1 m AOD, whereas the Lambeth and Chalk Groups (which for the purpose of this assessment are considered in hydraulic connectivity) have a groundwater head of 6.5 m AOD. During excavation and dewatering, the differential head increases and generates potential uplift and seepage forces acting on the base of the excavation.

The designer's initial assessment on uplift stability used undrained shear strength to define resistance, assumed conservative groundwater pressures and did not include additional stabilising resistance from the Crag layer. The conclusion of the assessment was that the uplift stability was acceptable. However, following review it was determined that reliance on undrained parameters is not appropriate for long-term excavation scenarios due to potential strength softening under stress relief conditions.

Therefore, the Basal Stability technical note adopts a methodology to account for potential strength softening under stress relief conditions, includes additional shear stress resistance from the Crag and ground level assumed to be lowered to -26.3 m AOD. Additionally, these assessments are based on 2D plane strain analysis and ignores 3D beneficial effects.

The results vary depending on the scenario which alter in excavation width and level. The adequacy factor outputs range from 1.08 to 1.88 depending on the scenario presented. The overall assessment concludes that the stability against uplift is considered satisfactory.

A Hydraulic Heave assessment was undertaken, for which the designer used the updated Eurocode (BS EN 1997-1:2024), applying a combined partial factor to effective stress. However, this approach limited the ability to assess worst-case seepage pressures and resulted in the identification of potential instability within the deeper Harwich Formation. A conservative assumption was also made that water flow across the Harwich Formation will be under steady state conditions.

A supplementary Hydraulic Heave assessment adopted BS EN 1997-1:2004 + A1:2013 with NA+A2:2022 and uses a worst-case groundwater head assumption. It is critical to check and verify the actual water pressure underneath the Harwich Formation by installing piezometers in the zone below the deepest excavation proposed within the MCA to validate these inputs. Works are planned to install suitable monitoring points later this year. The calculations also accounted for the effective excavation level due to the extent of the pits and staged construction.

The results show the adequacy factor of 1.03 at the worst-case location of the excavation. For levels 4m above the base of the Harwich Formation, the adequacy factor is 1.35. Until the excavation level is at -19.9m AOD, hydraulic heave stability is achieved even with the full partial load factor of 1.35 applied to the conservative waterhead pressure. The calculations show stability is also achieved under conservative steady-state conditions as a conservative measure. Realistically it may take several weeks before the steady state seepage conditions are reached which is primarily a function of the mass permeability of the Harwich Formation.

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To minimise risk, measures will be adopted for the sections of the excavation below 20m AOD. These include excavations to be carried out in small sections to reduce duration of open pits, pits are to be limited to an extent of 20m x 20m and are not to be open for a duration of more than 6 weeks.

Following the updated assessment, the calculations determined that hydraulic heave stability is deemed acceptable and long as the staged construction and duration are appropriately managed. The approach to managing this risk include collation of additional data relating to the water pressures and hydraulic properties of the Lambeth Group and Harwich Formation to enable construction sequencing to be optimised if the conservative assumptions made in the initial assessment can be revisited. There is also provision for direct measurement of pressures during the earthworks programme allowing real time validation of the design calculations.

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6 GROUNDWATER MODELLING OUTPUTS

6.1 Overview

The Groundwater Modelling Report [Ref. 4] presents an updated numerical groundwater modelling assessment to support the DCO for SZC. The primary aim is to evaluate the hydrogeological impacts of dewatering on local receptors. The updated simulation included the following:

- Updates to the existing DCO model, with the New Baseline COW and MCA for the period of 10 years under construction and 8 years in operation;
- Validation using the previous DCO model and groundwater monitoring data;
- Model runs to assess the predicted impact of the updated model on the receptors (designated sites and compensation habitats) and SZB; and
- Comparison of results against previous DCO modelling results.

6.2 Modelling

The groundwater model was developed in FEFLOW v10, modelling approximately 62 km² area surrounding the Sizewell C site. The existing DCO model was updated to incorporate the New Baseline design, including updates to the COW, MCA, and nearby infrastructure including SZB. The model mesh was also updated around the MCA and sensitive wetlands to improve accuracy. Boundary conditions, hydrogeological parameters, and staged construction were also revised to reflect the current construction plans. The model was run with an uncoupled groundwater configuration with surface water interactions represented by boundary conditions within FEFLOW.

The updated groundwater model was validated through comparison with the original DCO model and observed monitoring data. The model was run for the construction phase and operational phase, with results generally indicating good agreement with previous outputs. Updated DCO model generated water head values similar to the heads with the exception of a few locations. The updated model is observed to produce slightly lower groundwater levels in the Crag aquifer compared to the original model which is attributed to the uncoupling of surface water interactions and more averaged boundary conditions. Seasonal variation and general groundwater trends are well represented, with both models showing similar patterns and fluctuations over the modelling period. The model validation also confirms that groundwater levels remain stable across the length of the simulations, showing the model is suitable for forecasting groundwater levels.

Multiple scenarios were simulated, including baseline conditions with no development, construction phase dewatering, and conditions both with and without abstraction from the TCA borehole. The scenarios are designed to represent key stages of site development and shows how groundwater responses outside the MCA change to assess potential impacts on the receptors.

6.3 Modelling Results Discussion

The modelling results show that dewatering of Unit 1 and Unit 2 show measurable drawdown in the peat and the underlying Crag aquifer. The maximum drawdown varies spatially across the modelled area with the highest results occurring close to the MCA. The highest drawdowns are typically observed in winter months,

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where water levels are naturally higher. The average drawdown across the peat is relatively low, generally less than 0.15m at monitoring locations.

The maximum drawdown results indicate an approximate drawdown of 0.25 m in the peat and 0.36 m in the Crag aquifer. Drawdown within the Minsmere SSSI and SZB are slightly higher in the updated model but not significant and across the modelled area the values are consistent with those predicted by the original DCO model. The differences between the updated and original models are generally less than 0.10 m. The extent of drawdown is similar to the previous model and slightly increased drawdown is observed to the north, east and south of the site. However, reduced drawdown is predicted in some western areas. The changes are attributed to updates to the model.

The addition of TCA abstraction increases the area of influence, particularly within the Crag aquifer. However, the increase in drawdown within the peat at key receptors is minor and typically only a few centimetres difference. The modelled scenario assumes continuous abstraction at maximum rates and operational abstraction is expected to be less. Therefore, the results are representative of a conservative assessment.

Hydrographs of groundwater elevation and drawdown at key borehole locations in the Peat of the Sizewell Marshes shows that groundwater levels fluctuate seasonally. The hydrographs also show that the values of maximum drawdown are only experienced for a short period of time. The majority of the time, drawdown levels are significantly lower than the predicted peak levels.

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7 WATER MONITORING

The water monitoring technical note [Ref. 5] covers water monitoring aspects and forms part of the package in support of the permit application for the dewatering inside the COW at the MCA.

The scope of the document is to:

- Identify existing monitoring locations that could be used to monitor water levels in proximity to sensitive receptors;
- Propose new monitoring points to demonstrate the performance of the COW as a hydraulic barrier is in line with design specification;
- Propose trigger levels at compliance monitoring points in relation to the dewatering at the MCA; and
- Propose management actions should water levels fall below trigger levels during the dewatering within the COW.

The purpose of proposed monitoring is to protect the environmental receptors which may be impacted by a change to the water environment due to the activities planned at SZC.

A review of the hydrogeological and environmental setting was completed to identify sensitive receptors within the potential zone of influence of the dewatering activities within the MCA. The principal receptors are internationally and nationally designated wetland habitats located in close proximity to the COW. Additionally, the compensation habitats are considered equivalent to designated habitats, forming part of agreed ecological mitigation. These sites include:

- Sizewell Marshes SSSI located approximately 0.03 km west of the COW
- Minsmere to Walberswick SSSI, and the associated SAC, SPA and Ramsar sites, located approximately 0.07 km north
- Marsh Harrier compensation habitat, located 0.78 km north-west
- Wild Aldhurst, located 1.50 km south-west

The designated sites are wetland habitats containing ecological features of interest supported by groundwater and surface water. The Marsh Harrier lagoon is considered to be in hydraulic connection with the Crag aquifer and is therefore potentially sensitive to dewatering of the groundwater system. The receptors also contain features sensitive to dewatering such as shallow groundwater systems within the peat deposits, surface water bodies and drainage systems, and features with potential hydraulic connection with the underlying Crag aquifer.

An assessment of existing groundwater and surface water monitoring infrastructure was also undertaken, reviewing historical monitoring datasets to establish baseline conditions and natural variability in water levels.

Following a review of the data, a comprehensive monitoring network was developed using existing monitoring points as compliance locations to identify any impacts of dewatering before they reach the sensitive receptors. The piezometer network installed around the perimeter of the COW is designed to monitor groundwater levels in the Crag aquifer directly outside MCA and provide early detection of any leakage in the hydraulic barrier. A pragmatic approach to monitoring water levels was established, using dataloggers to record groundwater levels at high frequencies.

Trigger levels were developed to identify unacceptable changes in groundwater conditions. For historical monitoring locations, the trigger levels were derived from statistical analysis of long-term datasets. For new

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monitoring locations, the triggers were based on rates of change in groundwater levels over defined monitoring periods.

Management actions have been proposed if trigger exceedances are observed during dewatering within the COW. If groundwater levels are detected below the trigger levels, further analysis and review will be undertaken to determine the cause of the water level drop. If the investigation determines that the water level decline is not due to dewatering, then cessation of pumping would not be required.

If it was determined the cause of groundwater level drop is consequence of the MCA dewatering operations, there will be an increased frequency of data review. If the review of the monitoring data indicates the hydrogeological regime is within an agreed tolerable range for the designated sites, despite the additional drawdown induced by the dewatering, then operation can continue until levels are deemed unacceptable i.e. they are trending towards, but have not yet reached, the point where an unacceptable change would occur. This will ensure that there is no impact at designated sites.

As a result of this technical note, key receptors requiring monitoring have been identified, along with appropriate monitoring locations to detect potential impacts on groundwater levels in advance of effects being observed at the receptors. A pragmatic approach has been adopted to define suitable trigger levels, alongside the development of management procedures should groundwater levels fall below these thresholds.

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8 HYDROGEOLOGICAL IMPACT ASSESSMENT

The preceding sections have summarised the findings of a series of standalone documents that consider different aspects of the potential impacts associated with the proposed dewatering within the COW.

The groundwater control section sets out how the abstraction will be undertaken with the flow rates and extent and magnitude of change to water levels managed by the incorporation of a COW in the groundwater control solution. The predicted change associated with the dewatering is set out in the groundwater modelling section. Geotechnical risks associated with basal instability, which have the potential to cause environmental impacts, have also been considered. Finally, existing and proposed monitoring locations have been determined to provide real world assurance of the actual change in the water environment resulting from the proposed abstraction.

In order to consider the potential hydrogeological impact to the sensitive receptors presented in **Section 3** the predicted change at each receptor is discussed below. The predicted drawdowns are numerically modelled outputs from the groundwater modelling assessment.

8.1 Sizewell Marshes SSSI

Drawdown outside the COW following the commencement of dewatering of Unit 1 does not stabilise before abstraction commences in Unit 2. Water levels outside the COW do not stabilise at the same time across the Sizewell Marshes SSSI.

The maximum predicted drawdown in the Peat is 0.25m, and in the Crag is 0.36m. In both cases the magnitude of drawdown decreases as distance from the COW increases. The maximum average drawdown predicted across the Sizewell Marshes is 0.14m. The maximum predicted drawdown occurs in the winter months, when water levels in the area are high and in some cases above ground level.

The modelling also considered the potential combined effects of abstraction from the TCA borehole and the dewatering within the MCA. This resulted in a predicted increase in the maximum average drawdown across the site being 0.16m.

Given the small magnitude of change predicted across the Sizewell Marshes, both as an average across the area and maximum adjacent to the COW, there is not considered to be any mechanism by which there would be a detrimental effect to the SSSI from the dewatering. This is the case both with and without the TCA borehole abstraction being operational.

8.2 Minsmere to Walberswick SSSI, and the associated SAC, SPA and Ramsar sites

As with the Sizewell Marshes SSSI drawdown outside the COW following the commencement of dewatering of Unit 1 does not stabilise before abstraction commences in Unit 2. Water levels outside the COW do not stabilise at the same time across the area.

The maximum predicted drawdown in the Peat is 0.25m, and in the Crag is 0.27m. In both cases the magnitude of drawdown decreases as distance from the COW increases. The maximum predicted drawdown occurs in the winter months, when water levels in the area are high. The representation of the operation of the TCA borehole does not change the predicted drawdown.

Given the small magnitude of change predicted across the Minsmere to Walberswick SSSI and associated SAC, SPA and Ramsar sites there is not considered to be any mechanism by which there would be a detrimental effect from the dewatering.

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8.3 Marsh Harrier compensation habitat

The Marsh Harrier compensation habitat is more distant (0.78km) from the MCA dewatering location than both Sizewell Marshes and the Minsmere and Walberswick SSSI and associated SAC, SPA, and Ramsar sites. Additionally, the numerical modelling shows that the predicted change in Crag groundwater levels will be less than 0.1m in this area. As a result, there is not considered to be any mechanism by which there would be a detrimental effect from the dewatering.

8.4 Wild Aldhurst

Wild Aldhurst is to the west of the Sizewell Marshes SSSI and a greater distance (1.50km) from the MCA dewatering location. Additionally, the numerical modelling shows that the predicted change in Crag groundwater levels will be less than 0.1m in this area. As a result, there is not considered to be any mechanism by which there would be a detrimental effect from the dewatering.

8.5 TCA borehole

The TCA borehole is more distant (1.20km) from the MCA dewatering location than both Sizewell Marshes and the Minsmere and Walberswick SSSI and associated SAC, SPA, and Ramsar sites. Additionally, the numerical modelling shows that the predicted change in Crag groundwater levels will be less than 0.1m in this area. As a result, there is not considered to be any mechanism by which there would be a detrimental effect from the dewatering

8.6 Northern surface water abstraction point

The northern surface water abstraction point is more distant (2.15km) from the MCA dewatering location than both Sizewell Marshes and the Minsmere and Walberswick SSSI and associated SAC, SPA, and Ramsar sites. Additionally, the numerical modelling shows that the predicted change in Crag groundwater levels will be less than 0.1m in this area. As a result, there is not considered to be any mechanism by which there would be a detrimental effect from the dewatering

8.7 Southern surface water abstraction point

The southern surface water abstraction point is in the west of the Sizewell Marshes SSSI, further from the MCA dewatering location than the area where the greatest effect is predicted. Additionally, the numerical modelling shows that the predicted change in Crag groundwater levels will be less than 0.1m in this area. As a result, there is not considered to be any mechanism by which there would be a detrimental effect from the dewatering

8.8 Re-alignment of southwest corner of COW

The final layout of the COW includes a smaller footprint for Unit 1 in the southwest corner that will require dewatering and monitoring wells to be relocated. The assessments relied upon in this HIA are based on a footprint for the COW that is larger than the final layout, therefore a conservative approach has been taken and hydrogeological impacts will be no greater than those presented herein.

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9 CONCLUSIONS

The findings from the technical notes and numerical modelling assessment that this HIA summarises are as follows:

- The proposed dewatering within the MCA can be undertaken without adverse impact on the surrounding water environment, based on the combined evidence from groundwater modelling, hydrogeological assessment, and design controls.
- The COW and groundwater control system are expected to effectively limit groundwater drawdown beyond the excavation, maintaining protection of the sensitive receptors.
- Predicted groundwater level reductions at identified receptors are low in magnitude, localised, and temporary, and are not anticipated to compromise the function or integrity of these receptors.
- Geotechnical assessments demonstrate that excavation can be undertaken safely, with uplift and hydraulic heave stability satisfied under conservative assumptions, subject to implementation of defined construction controls.
- A robust monitoring and management framework, including defined trigger levels and contingency measures, provides assurance that any deviation from predicted conditions will be identified early and managed effectively.
- Assessments relied upon for the HIA are conservative based on the final COW layout being smaller in extent (see **Section 8.8**).

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Sizewell C Project
MCA/WRA/2 Groundwater Control Technical Note

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Prepared by:	[redacted] Water Resources Specialist
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Reviewed by:	[redacted] Environmental Permitting Delivery Lead
Approved by:	[redacted] Environment Manager - Construction Permits and Consents

REVISION HISTORY

Rev	Status	Amendment	Prepared By	Date
0.1	Draft	First draft	[redacted]	10/04/2026
0.2	Draft	Second draft following EA and internal comments		19/05/2026
01	Final	Document for submission		23/05/2026

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1 INTRODUCTION

1.1 Purpose

As part of the development of the new nuclear power station at Sizewell C, groundwater dewatering within the Cut Off Wall (COW) is required to enable construction works at the Main Construction Area (MCA) to proceed as planned.

Sizewell C Limited (SZC) is therefore applying for a Water Abstraction Licence (Ref. MCA/WRA/2). This document supports SZC's application for a Water Abstraction Licence, covering groundwater control aspects.

1.2 Scope

This document:

- explains why a groundwater control system is required for the project;
- summarises key aspects of the proposed groundwater control system, including COW layout, wall type and installation depths, ring main system, abstraction borehole locations and proposed construction details;
- describes the performance requirements of the groundwater control system; and
- provides information on anticipated control methods should a defect in the COW be identified or external groundwater levels decrease at a magnitude more than expected compared with modelling outcomes.

This Technical Note forms part of the supporting documentation to the Water Abstraction Licence application described **in Section 1.1**. Modelling assessments set out in the Groundwater Modelling Data Sets [Ref. 1] indicate that no significant impact on the water environment due to the new abstraction is expected. The proposed groundwater monitoring set out in the Water Monitoring Technical Note [Ref. 2], is an assurance measure to demonstrate the real-world response to the dewatering within the MCA cut-off wall is in line with predictive modelling. Should dewatering effects be greater than anticipated, a proposed response via stipulated management actions is provided in the Water Monitoring Technical Note. This document was provided as a draft application package to the Environment Agency (EA) the relevant comments and subsequent responses have been provided as **Annex A1 and A2** for ease of reference.

1.3 Definitions

Term / Abbreviation	Definition
CDO	Combined Discharge Outfall
COW	Cut Off Wall
DCO	Development Consent Order
EA	Environment Agency
EDRMS	Electronic Document and Records Management System
GDR	Geotechnical Design Report
HDPE	High-Density Polyethylene
I&M	Instrumentation & Monitoring

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Term / Abbreviation	Definition
IBC	Intermediate Bulk Container
MCA	Main Construction Area
SAC	Special Area of Conservation
SPA	Special Protection Area
SSSI	Site of Special Scientific Interest
SZB	Sizewell B
SZC	Sizewell C Limited
TAM	Tube-a-Manchette

1.4 References

Table 1 – Reference documents below provides a list of reference documents relevant to this technical note.

Table 1 – Reference documents

Ref. No.	Document Title	Version	TC Reference
1	MCA/WRA/2 Groundwater Modelling Data Sets	001	101861912
2	MCA/WRA/2 Water Monitoring Technical Note	002	101753906
3	EW0400 Groundwater Modelling – DCO Modelling Report	P01	101726967
4	Dewatering Design Report for Work Package EW0430	P04	101297050
5	Basal Stability Assessment During the Temporary Excavation of the Main Construction Area	002	101815719

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2 GROUNDWATER CONTROL SYSTEM DETAILS AND DESIGN

2.1 Requirement for Groundwater Control

The construction of Sizewell C will involve significant earthworks and excavation through the superficial deposits into the Crag deposits. Groundwater levels and permeability are high within the Crag deposits and, to enable construction works to proceed, the earthworks and excavation will be undertaken within a COW, which will provide a significant barrier to groundwater movement into the works area. In addition to the COW, a dewatering system will be employed to lower groundwater levels as works proceed and to provide suitable dry working conditions.

The following sections provide details on the COW and dewatering design which form the main components of the groundwater control system to allow excavation and earthworks to proceed.

2.2 Summary of Groundwater Control System

The area within the proposed COW covers an area of approximately 570 m by 640 m, this is a maximum area noting that the layout in the southwest corner is to be amended giving a smaller overall footprint. The ground level is generally between +2 to +7 mOD, with bulk excavation depths varying between –10 to –26.3 mOD. The groundwater control system will be comprised of a number of elements, including a plastic (mixture of concrete and bentonite) wall around the perimeter of the works area (the COW), which will be keyed into the low permeability deposits of the Harwich Formation. The COW will be comprised of two units (Unit 1 and Unit 2), the separation between the two units being provided by an internal section of plastic wall running from east to west. See **section 2.3** for further details.

A number of dewatering wells will be positioned within the COW to drawdown groundwater levels as works progress. The dewatering wells will be connected to a ring main system which will convey water for discharge to the sea via the Combined Discharge Outfall (CDO). See **sections 2.5** and **2.9** for further details.

2.3 COW Details

The COW will be constructed as a plastic wall as two separate units – Units 1 and 2. The COW will form the entire perimeter within which dewatering works will take place, with a central plastic wall separating the two units. The layout of the COW is presented in **Figure 1** overleaf, with full details provided in **Annex B**.

All abstraction will take place inside the COW, which will completely enclose this area of the MCA and extend into the underlying Harwich Formation to create a hydraulic barrier. The intention is therefore to control groundwater flow through and under the COW.

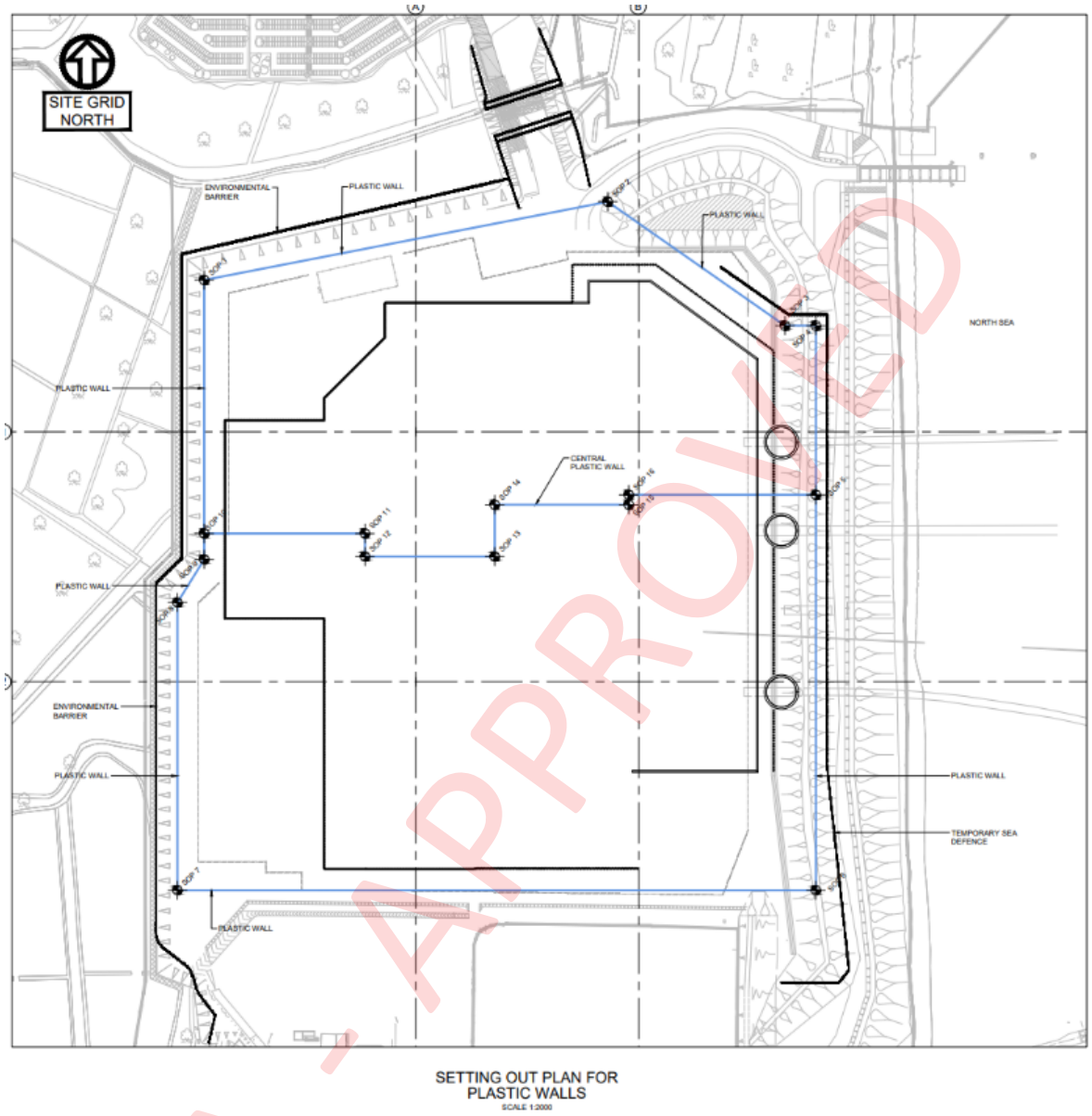
Drawdown of groundwater levels outside the COW is expected to be limited in magnitude and extent, as indicated within the DCO Modelling Report [Ref. 3]. The modelled effect indicates 10's of cm of drawdown immediately outside the COW, reducing to no observable drawdown within a few hundred metres and the uncoupled model results are comparable to earlier DCO modelling results [Ref. 3, section 5.2.4]. On this basis we do not consider that there is any potential for the dewatering within the MCA to impact the function of the designated wetland habitats, i.e. the sensitive receptors of concern. A full list of the sensitive receptors is provided in the Water Monitoring Technical Note [Ref. 2].

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Figure 1 – COW Layout



The main performance requirements for the COW of relevance to the permit application are as follows:

- COW must achieve a permeability of 1 x 10^{-8} m/s or lower;
- no adverse effects on adjacent sites (e.g. Sizewell B (SZB), nearby Sites of Special Scientific Interest (SSSIs), Minsmere Special Area of Conservation (SAC), Special Protection Area (SPA) and Ramsar);
- groundwater is required to be drawn down to 1 m below the base of the MCA excavation; and
- COW top level to be +3 mOD, with base of the wall to be keyed a minimum of 3 m into the Harwich Formation.

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The COW design assumes that the final depth intersects the Harwich Formation to a degree that flow under the COW is minimised. Modelling assessments have been based on the premise that a 3 m penetration is achieved. The top elevation of the Harwich Formation is likely to vary to some degree and the COW will need to be keyed in sufficiently by the contractor. The permeability of the Harwich Formation has been taken as 1 x 10^{-7} m/s.

It should be noted that the nomenclature for the horizon underlying the Crag deposits has changed from London Clay (during the Development Consent Order (DCO) stage) to the Harwich Formation. Whilst the change has been derived from reassessment of the characteristics of this horizon, the properties remain the same as per those reported in the Geotechnical Design Report (GDR); therefore, there is no difference in the performance of this horizon as the basal layer for the COW.

2.4 Monitoring System

Instrumentation and monitoring (I&M) will be employed to monitor the effects of construction on the wall and its hydraulic performance. This is to ensure that the groundwater control system operates as intended and to provide points against which no change at the sensitive receptors can be measured. The data collected will be utilised to verify design parameters and to confirm allowable movements and settlements.

Groundwater levels and pressures will be recorded through the course of construction works, with a baseline dataset collected prior to construction, followed by construction-phase and post-construction monitoring to assess wall performance. The monitoring system for the dewatering works is comprised of existing monitoring points, new internal monitoring points and new monitoring points external to the COW. See sections 2.6 and 2.8 and the Water Monitoring Technical Note [Ref. 2] for further details.

2.5 Dewatering Well Details

The dewatering system is designed to have the capacity to lower groundwater levels within the Crag deposits at a rate that is greater than that at which the excavation works proceed. This approach ensures excavation is undertaken in dry conditions. Once the groundwater level has reached its design depth of –26.7 mOD, dewatering works will continue at a lower abstraction rate to maintain groundwater level at the required depth. These two stages form the drawdown and maintenance phases of the dewatering works.

During the drawdown phase, the estimated abstraction rate from dewatering wells is 250 L/s. The design allows for the total abstraction rate to be collected from all c. 26 No. dewatering wells at any one time. During the maintenance phase, which runs until construction is complete, the estimated abstraction rate from dewatering wells is 25-50 L/s, dependent on the rate of leakage through the COW and infiltration of rainfall. This reduced volume of groundwater is anticipated to be abstracted from a reduced number of wells, with the remaining wells forming redundancy in the system.

The following list provides the key components of the dewatering system:

- Installation of c. 26 No. dewatering wells with a pumping capacity of 25 L/s per well;
- A maximum flow rate of 250 L/s during the drawdown phase, followed by a flow rate of between 25-50 L/s during the maintenance phase (including both Units 1 and 2);
- During the drawdown phase, not all of the dewatering wells will operate at any one time, the total number of wells in the system provide flexibility and redundancy in the operation of the system; and
- The design life of the system is 15 years.

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The outline specification for the dewatering wells is presented in

Table 2 – Summary Dewatering Well Specification below, with design details presented in **Annex C** (along with monitoring and recharge wells and piezometers).

Table 2 – Summary Dewatering Well Specification

Well Detail	Dewatering Well
Depth	Approx. 46.5 m
Response Stratum	Crag deposits
Quantity	c. 26 No. around internal perimeter of COW and along section of COW between Units 1 and 2
Diameter (bore)	400 mm
Diameter (liner)	280 mm (OD), 255 mm (ID)
Slotted length	27 m (-15.5 to -42.5 mOD)
Slot size	0.75 mm

2.6 Monitoring Well Details

Monitoring wells external to the COW are provided in the Water Monitoring Technical Note [Ref. 2]. Monitoring of the groundwater levels within the COW will be undertaken at 10 No. locations installed as deep piezometers located centrally in Units 1 and 2. The outline specification for the deep internal monitoring wells is presented in **Table 3 – Summary Monitoring Well Specification** below, with co-ordinates provided in

Table 4 – Internal Deep Monitoring Well Co-ordinates and design details presented in **Annex D** (along with external standard and superficial monitoring piezometer details).

Table 3 – Summary Monitoring Well Specification – Deep Wells

Well Detail	Monitoring Well
Depth	Approx. 43 m
Response Stratum	Crag deposits
Quantity	5 No. centrally within Units 1 and 2
Diameter (bore)	250 mm
Diameter (liner)	50 mm (ID)
Slotted length	9 m (-29.5 to -38.5 mOD)

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Slot size	0.75 mm

Table 4 – Internal Deep Monitoring Well Co-ordinates

ECS Code	Well No.	Easting (m)	Northing (m)	Elevation (m AOD)	Type of well	NGR
0WSO8001MPL0002	IW45	647441.552	264303.177	2.213	Piezometer	TM 47442 64303
0WSO8001MPL0001	IW44	647087.540	264193.917	0.782	Piezometer	TM 47088 64194
0WSO8001MPL0003	IW46	647315.747	264113.340	1.307	Piezometer	TM 47316 64113
0WSO8001MPL0004	IW47	647189.342	263856.691	6.000	Piezometer	TM 47189 63857
0WSO8001MPL0005	IW48	647486.061	263856.691	6.558	Piezometer	TM 47486 63857
TBC	TBC	647537.062	263999.602	TBC	Piezometer	TM 47537 63999
TBC	TBC	647537.062	263939.140	TBC	Piezometer	TM 47537 63939
TBC	TBC	647521.122	263814.482	TBC	Piezometer	TM 47521 63814
TBC	TBC	647160.702	263829.269	TBC	Piezometer	TM 47160 63829
TBC	TBC	647168.753	264095.681	TBC	Piezometer	TM 47168 64095

2.7 Piezometer Details

External perimeter piezometers spaced 30–50 m apart outside the COW will be installed for monitoring groundwater levels during the MCA dewatering. The monitoring points are spaced laterally and vertically to provide coverage of the full extent of the COW. The primary purpose of these monitoring points is to demonstrate the COW performance as a hydraulic barrier is in line with the design specification. However, this dense monitoring network in close proximity to the COW ensures it is possible to demonstrate that dewatering effects do not impact the wider water environment. Northern piezometers would allow monitoring for the purpose of detecting early changes for mitigation to be employed and that no significant impact reaches Minsmere Marshes SSSI, SAC, SPA and Ramsar; western ones will detect changes in groundwater levels that could impact Sizewell Marshes SSSI and the compensation habitats (Marsh Harrier and Wild Aldhurst). Eastern and southern piezometers will confirm that dewatering effects stay inside the COW. The outline specification for the piezometers is presented in **Table 5 – Summary Piezometer Specification** and **Table 6**, with design details presented in **Annex D** (along with internal deep monitoring piezometer details).

Table 5 – Summary Piezometer Specification – Superficial Wells

Well Detail	Piezometer
Depth	Approx. 9.5 m
Response Stratum	Superficial deposits
Diameter (bore)	250 mm
Diameter (liner)	50 mm (ID)

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Slotted length	4 m
Slot size	0.75 mm

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Table 6 – Summary Piezometer Specification – Standard Wells

Well Detail	Piezometer
Depth	Approx. 29.5 m
Response Stratum	Crag deposits
Diameter (bore)	250 mm
Diameter (liner)	50 mm (ID)
Slotted length	9 m
Slot size	0.75 mm

2.8 Well Development

Following installation of the wells, development will be undertaken using the air-lift methods. The purpose of well development is to remove debris produced during the drilling process and to consolidate the filter pack.

The process will commence with surging of the well and may be followed by eduction to remove debris from the well liner. The end-point of development will be when the water recovered from each well is clear of fines, a process that would be expected to take of the order of several hours per well. Water recovered during well development will likely be collected in Intermediate Bulk Containers (IBC's) and transported to a water disposal point.

2.9 Ring Main System & Discharge

Dewatering will be enabled by utilising a ring main system which transfers groundwater from the dewatering wells to the discharge location. The ring main will be constructed in a phased manner, Phase 1 ensuring that Unit 1 dewatering can commence, followed by Phase 2 for Unit 2 dewatering works. The ring main for Phase 1 is comprised of western, southern and eastern pipeline sections connected to an east-west section that runs across the MCA between Units 1 and 2. The northern section of the ring main will be installed for the Phase 2 dewatering works.

The Phase 1 ring will be installed as a closed ring, with the Phase 2 ring connected to the Phase 1 ring ahead of dewatering of Unit 2. The layout of the ring main and the sequence of works are presented in **Figure 2** and **Figure 3**, respectively. Please note that the redacted block on **Figure 2** was a reference to Water Treatment Works (WTW), which indicates the direction of flow from the ring main to the discharge location at the CDO only.

The groundwater abstracted from the dewatering wells will be conveyed via the ring main system to be discharged through the CDO. The pipework is to be a twin pipe configuration, with two pipes having an outside diameter of 300 mm, constructed of High-Density Polyethylene (HDPE) specified for pressure pipe applications, of a UV-stabilised grade with protective coating or wrap. The use of HDPE mitigates the potential risk from corrosion due to salinity of groundwater in a coastal setting. Further details can be found in section 3.2 of the Dewatering Design report [Ref. 4].

2.10 Dewatering System Maintenance and Decommissioning

Maintenance of the groundwater control system will be undertaken by the appointed dewatering contractor. Potential maintenance issues that could arise include clogging/biofouling of the wells and

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pump equipment, damage to or loss of well due to site activities, obstructions or damage to the ring main or discharge pipework, loss of pump performance or electrical power.

At this stage it is understood that that the dewatering system will be turned off in a phased manner to allow groundwater levels to recover in step with the backfilling of the MCA excavation. Once the pumps and equipment are removed, the dewatering wells will be decommissioned in line with EA guidance, using suitable backfill material and sealing with a concrete cap. This includes any wells damaged during the MCA construction works. Some wells may be kept as long-term groundwater monitoring should they be deemed suitable for this purpose.

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Figure 2 – Ring Main Layout

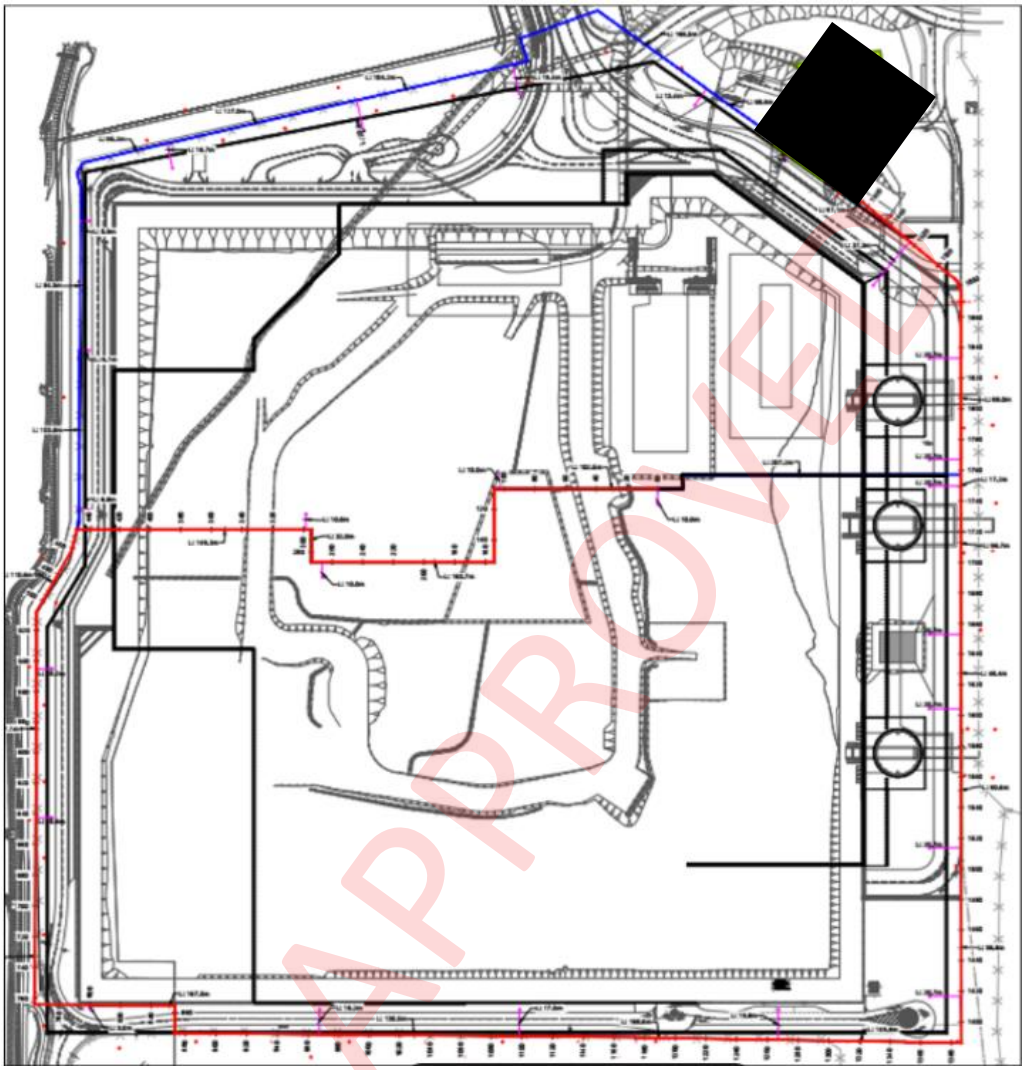


Figure 3 – Ring Main Construction Sequence



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2.11 Basal Stability

The groundwater control system relies on basal stability, with particular reference to the Harwich Formation which is the horizon which the COW will be keyed into. The main consideration is uplift pressure from the Lambeth Group due to the difference in water pressures within the Crag aquifer and Chalk underlying the construction area, these pressures are approximately +1 mOD and +5.5 mOD, respectively, with the Lambeth Group (overlying the Chalk and underlying the Harwich Formation) assumed to have an intermediate water pressure. The risk of basal instability occurs due to the removal of overburden material during excavation within the COW, in combination with the lowering of groundwater levels via dewatering.

Analysis has been undertaken to assess the risk of basal instability and this is reported on in full in a separate document [Ref. 5]. In summary, a preliminary basal stability assessment was undertaken by the designer which concluded that uplift stability was satisfactory including for the deepest proposed excavation zone in the MCA. Following review of the use of undrained shear strength in the designer's analyses, a supplementary analysis was undertaken by SZC which utilised the effective-stress method. This approach allowed for long-term softening of the Harwich Formation and downward shear resistance from the Red Crag (below excavation level) and above the Harwich Formation.

The outcome of the supplementary analysis is that stability against uplift failure is satisfactory based on conservative assumptions. The assessments were based on 2D plane strain analysis and ignores 3D beneficial effects.

2.12 External Drawdown and Defects

The dewatering well capacity is reliant on the performance of the COW. Should the performance requirement of 1 x 10^{-8} m/s not be achieved, the capacity of the dewatering well system may need to be increased, e.g. by amending pump size, power system, discharge arrangements.

In the case where the COW does not reach it's required performance for groundwater control, this may manifest in external drawdown that is greater than that predicted by the modelling (see DCO Modelling Report, Ref. 3) and will be observed via the monitoring system (see Water Monitoring Technical Note, Ref. 2).

The modelling to date has indicated that the groundwater control system would be able to handle inflows through the COW if the permeability is up to one order of magnitude higher than 1 x 10^{-8} m/s. However, external drawdown may be unacceptable with particular respect to sensitive receptors such as the Sizewell Marshes and Minsmere to Walberswick SSSIs. The monitoring system is designed to assess the performance of the COW, the monitoring point being installed prior to dewatering commencing. Trigger levels have been proposed (see Water Monitoring Technical Note, Ref. 2) to identify rapid changes in external groundwater levels that would not be caused by natural fluctuations. Any defect in the COW or if performance is less than expected, this would be identified at the start of dewatering

Should a defect or external drawdown be identified, the potential solutions may include grouting (in the case of repair of an identified localised defect) or recharge (to maintain external groundwater levels) or another method in collaboration with the appointed contractor. Detailed location specific methodology would only be available once the location, scale and characteristics (e.g. groundwater levels, geology) of a defect are known. Where a localised defect may be identified by the external monitoring network, additional investigation to locate the defect may include the installation of additional piezometers.

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A defect was identified during the installation of a COW as part of SZB construction. The SZB COW was formed from a plastic concrete diaphragm wall that extended 1.5 m into the Harwich Formation. The SZB COW had a similar performance requirement to the SZC COW at 1 x 10^{-8} m/s, with a dewatering system abstracting at similar rates during the drawdown and maintenance phases.

During the drawdown phase of pumping at SZB, groundwater levels in the external monitoring wells started to decrease and investigations identified a defect with regards to permeability in the north-eastern section of the COW. The defect was successfully mitigated with Tube-a-Manchette (TAM) grouting during the dewatering works, this method is a high-pressure ground improvement technique used to strengthen soil and/or control groundwater. Back-analysis indicated that the water loss was comparable to 15 L/s of the long-term dewatering flow rate.

The need for either of the two potential mitigation options, and the methodology and scale of intervention required, would be determined based on observations of drawdown/defect characteristics and undertaken in line with the management actions set out in the Water Monitoring Technical Note [Ref. 2].

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3 SUMMARY AND CONCLUSIONS

The proposed groundwater control system for the MCA is reliant on the performance of the COW. The COW will be constructed of a 1 m thick plastic wall keyed into the Harwich Formation at depth. The performance requirement of the COW is a permeability of 1 x 10^{-8} m/s.

The associated dewatering system will comprise c. 26 No. dewatering wells, not all of these wells will be operating at any one time during both the drawdown and maintenance phases. The initial pump rate is estimated to be 250 L/s during the drawdown phase and 25-50 L/s during the maintenance phase. The design life of the dewatering system is 15 years. A monitoring system that includes internal wells and external piezometers will assess the performance of the dewatering system.

A ring main will connect the abstraction wells to the discharge to sea via the CDO. The ring main pipework will be constructed of HDPE to mitigate the potential for corrosion due to salinity of groundwater.

As experienced during the construction of SZB, there is the potential that the COW does not perform as intended. Mitigation techniques would be employed and these would include localised grouting (successfully utilised at SZB), recharge to rectify external drawdown of groundwater levels or another method in collaboration with the appointed contractor. The selected remedial technique would be dependent on the characteristics of the defect, along with its location and scale.

In summary, the groundwater control system has been designed to allow for construction in the MCA to be undertaken in dry conditions. Modelling has shown that effects on the function of sensitive receptors are not expected and a comprehensive monitoring system is included to ensure that the groundwater control system operates as intended.

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MCA/WRA/2 GROUNDWATER CONTROL TECHNICAL NOTE

ANNEX A – EA COMMENT SHEET AND AGREED APPROACH

A.1 MCA/WRA/2 Comment Tracker – Comments regarding monitoring

	Origina	Focus	Comment	Initial Approach	Additional Information Required	Cross-Reference to Query	Approach Agree
3	EA	GW Control	Are there any differences in integrity and permeability of a slurry wall vs the diaphragm wall; we appreciate the diaphragm wall cannot be installed to the depth of the Harwich formation.	Agree suitable form of justification to adequately demonstrate there is no difference hydraulic barrier functionality or integrity between designs. Changes in design relate to structural function of wall - new design is not structural so internal earthworks support is different but doesn't impact dewatering. Reduced complexity of plastic COW means less potential for reduced integrity due to simpler construction.	Agreed form of words describing the nature of the changes in the cut-off wall design and setting out why there is no difference in the hydraulic cut-off performance 03.02.2026 - Email communication regarding permeability of the cutoff wall saved in shared SharePoint folder.		Yes
4	EA	GW Control	What is the cure time of the new slurry wall, how will you know it is cured at a depth of almost 50mbgl	Cure time to be provided. Casting of plastic cut-off walls is a standard technicque for groundwater control during construction. Integrity testing to be carried out by pumping to demonstrate cut-off wall has achieved a suitable level of performance prior to commencement of main dewatering programme.	Cure time for new wall Narrative summary of performance testing as part of commissioning of groundwater control system		Yes
8	EA	GW Control	c. how is a defect corrected and how quickly can the repair be made?	Depends on nature of defect, but spot grouting likely to be used to locally plug a gap in cut-off wall panels. Repair can be done quickly (days to weeks) once the location and nature of the defect is identified.	Agreed narrative description of the defect mitigation approach and anticipated timescales		Yes
8	EA	GW Control	d. will dewatering cease if there is a defect with greater external drawdown than calculated, or is the aim to recharge from dewatered water while the repair is undertaken?	If a defect is sufficiently large to cause greater than anticipated external drawdown this would be identified during commissioning of the groundwater control system and repairs made before full scale dewatering commences. Once dewatering has commenced there is no scope for defects to manifest - the use of a plastic cut-off wall means internal batters are required to maintain structural stability of the cut-off wall. This ensures there is always natural material adjacent to the inside of the cut-off wall preventing the risk of physical damage. Once the concrete used to construct the wall has cured there is no scope for physical deterioration, or chemical degradation as the concrete composition is specified to be suitable for the coastal environment.	Agreed narrative description of the defect mitigation approach		Yes
11	EA	GW Control	If the recharge wells are too sparce, will the recharge required to mitigate a drawdown at significant distance result in a substantial increase in the immediate surrounding levels?	If the spacing of the initial recharge wells is not suitable to achieve the necessary reduction in external drawdown then additional interim wells would be installed rather than increasing recharge rates due to the limited unsaturated zone.	Agreed form of words setting out an appropriate measure to address any unanticipated higher degree of drawdown outside the cut-off wall and a strategy for implementing installation and commissioning of additional interim wells if required Indicative timescales for additional recharge wells to be supplied		Yes
12	EA	GW Control	Should tests be undertaken to determine the extent of the recharge capability of these boreholes?	The well design is based on the abstraction wells and industry standard design approach which allows the capacity to be determined. There will be some limited testing as part of well drilling and development to demonstrate adequate hydraulic performance, but no recharge tests as such. This is in part because recharging under baseline conditions would lead to a local increase in water levels.	Agreed form of words setting out agreement in principle that the design of the recharge wells is appropriate, and that testing of recharge capacity will be limited to assessing hydraulic performance following construction and installation of each well Potential for test on MCA borehole (or other) to assess recharge capacity?		Yes
17	EA	GW Control	Will the areas being dewatered be broken up into stages & what will that look like?	There will be two stages to the dewatering with abstraction for the southern unit commencing while the cut-off wall is completed around the northern unit. Sequencing and implications for abstraction rates and annual limits will be shared during pre-app discussions.	Schedule for dewatering works including periods for initial drawdown of levels in each unit and maintenance pumping		Yes

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Annex A2 Comment Tracker MCA/WRA/2 – Additional Information for Groundwater Control Proposals

3. Are there any differences in integrity and permeability of a slurry wall vs the diaphragm wall; we appreciate the diaphragm wall cannot be installed to the depth of the Harwich Formation?

- Agreed form of words describing the nature of the changes in the cut-off wall design and setting out why there is no difference in the hydraulic cut-off performance.

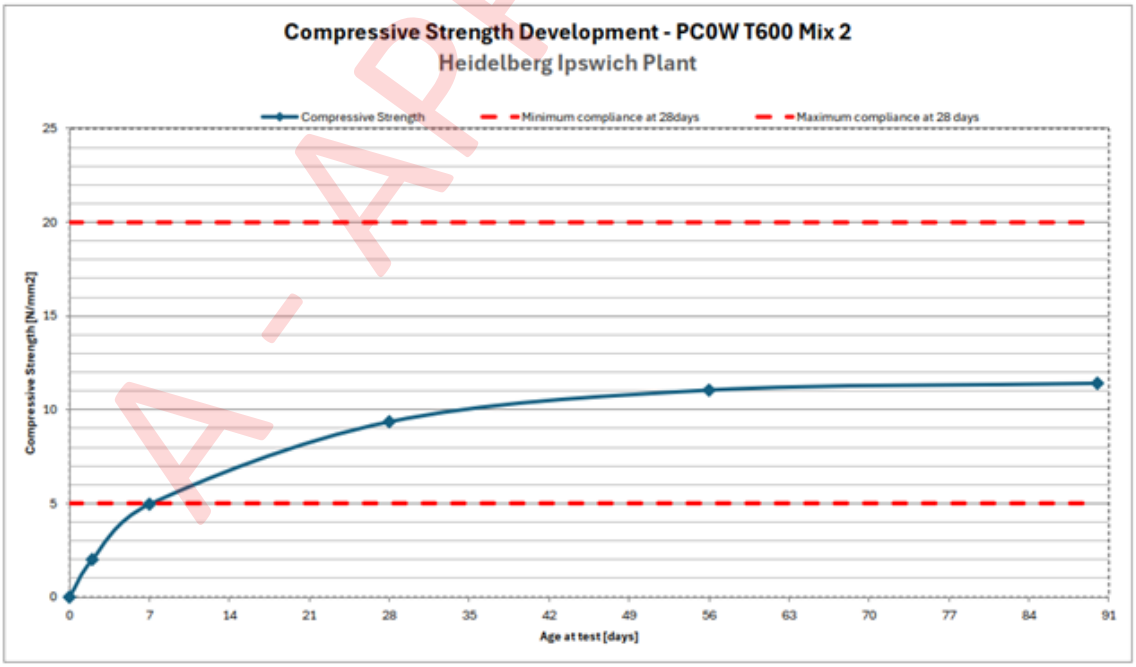
  The material and installation techniques utilised for the COW have changed over time, however, the performance requirements have not. The key performance requirement is for the COW to have a maximum permeability of 1 x 10^{-8} m/s. In addition, the COW will be keyed 3 m into the Harwich Formation, whilst there has been a change in nomenclature for this horizon, the hydraulic parameters remain the same as understood during the DCO stage. See Section 2.3 for further details.

4. What is the cure time of the new slurry wall, how will you know it is cured at a depth of almost 50mbgl?

- Cure time for new wall.

  The cure time for the COW is 2 days. Samples are collected in moulds after 2 days and are tested at 28 and 90 days, respectively, for strength and permeability. See the information supplied below for the strength testing and gain vs. age.

  With regards to curing at a depth of almost 50 mbgl, from a concrete mix perspective, there would be no expectation of a difference between concrete placed at the base of the wall compared with any other elevation. The performance requirements of the COW remain the same irrespective of depth.



Age at test [days]	0	2	7	28	56	90
Compressive Strength [N/mm2]	0	2.0	5.0	9.4	11.0	11.4
Compliance at 28 days [N/mm2] (Minimum)	5	5	5	5	5	5
Compliance at 28 days [N/mm2] (Maximum)	20	20	20	20	20	20

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- Narrative summary of performance testing as part of commissioning of groundwater control system.

> *A good understanding of the strength development of the COW mix has been gained through trials and ongoing compliance testing. The latest compliance strength testing is shown below and demonstrates strength gain over time, with the curve flattening as age increases.*
>
> *With respect to permeability, historical data from validation test results indicates that the COW will achieve permeability values between 1 x 10^{-10} to 1 x 10^{-12} m/s at all ages tested (i.e. 7, 28, 56 and 90 days). This can be compared with the performance requirement of 1 x 10^{-8} m/s for the COW.*

8c. how is a defect corrected and how quickly can the repair be made?

- Agreed narrative description of the defect mitigation approach and anticipated timescales.

> *Should a defect be identified, potential mitigation techniques may include localised grouting (e.g. TAM grouting as per SZB) or recharge to correct external drawdown in groundwater levels. The speed at which a defect can be corrected will be dependent on the characteristics of the defect, however, abstraction would cease at the point of defect identification and would not re-commence until mitigation is satisfactorily completed. Please see discussion in Section 2.12 for further details.*

8d. will dewatering cease if there is a defect with greater external drawdown than calculated, or is the aim to recharge from dewatered water while the repair is undertaken?

- Agreed narrative description of the defect mitigation approach.

> *Should a defect in the COW be identified, e.g. by external drawdown in groundwater level or by an increase in the required capacity of the dewatering system, there are two main options for mitigation. The first is localised grouting such as the TAM grouting technique utilised to repair a defect that was discovered during construction of SZB. The second technique may be recharge via wells designed specifically for this purpose.*
>
> *A defect will be observed by the monitoring system (see Water Monitoring Technical Note [Ref. 2] for further details) and would be identified at the start of dewatering. Management actions are in place to review data and assess whether a drawdown in groundwater levels is related to dewatering operations or natural variation. Dewatering operations will be adjusted (i.e. reduce abstraction rate) or suspended until groundwater levels recover and any defect rectified.*
>
> *See Section 2.12 for full details on the approach to mitigation.*

11. If the recharge wells are too sparse, will the recharge required to mitigate a drawdown at significant distance result in a substantial increase in the immediate surrounding levels?

- Agreed form of words setting out an appropriate measure to address any unanticipated higher degree of drawdown outside the cut-off wall and a strategy for implementing installation and commissioning of additional interim wells if required.

> *The selected remedial technique would be dependent on the characteristics of the defect. See responses to 8c and 8d above and Section 2.12 for further details.*

- Indicative timescales for additional recharge wells to be supplied.

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The estimated timeframe for installation of additional recharge wells (if required) is within 1 week of the identified need. Contractor equipment, including drilling rig(s), will be on site during the construction works mitigating the need for mobilisation from off-site.

12. Should tests be undertaken to determine the extent of the recharge capability of these boreholes?

- Agreed form of words setting out agreement in principle that the design of the recharge wells is appropriate, and that testing of recharge capacity will be limited to assessing hydraulic performance following construction and installation of each well. Potential for test on MCA borehole (or other) to assess recharge capacity?

The well design is based on the abstraction wells and industry standard design approach which allows the capacity to be determined. There will be some limited testing as part of the well drilling and development to demonstrate adequate hydraulic performance, but no recharge tests as such. This is in part because recharging under baseline conditions would lead to a local increase in water levels.

17. Will the areas being dewatered be broken up into stages & what will that look like?

- Schedule for dewatering works including periods for initial drawdown of levels in each unit and maintenance pumping.

Dewatering operations will be split across Units 1 and 2 and into two phases, the drawdown and maintenance phases. Once the dewatering phase has reached the required water levels, the maintenance phase will continue until completion of construction works. The abstraction rate during the drawdown phase will be 250 L/s, with a rate of 25-50 L/s during the maintenance phase.

The exact duration of each drawdown phase is dependent on the rate of excavation and response of the groundwater system to pumping. However, we anticipate that the drawdown phase for each unit would be carried out as a continuous operation until the required water level is reached, after which the flow rate would be reduced to allow maintenance of water levels. Drawdown for Unit 1 will commence at the start of the dewatering activity and, once target water levels have been achieved, there will be a period of maintenance flow only within Unit 1 while the remainder of the cut-off wall is constructed around Unit 2. Once Unit 2 is fully enclosed there will then be abstraction at a higher rate to draw down water levels within Unit 2.

See Sections 2.3 and 2.5 for further details.

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ANNEX B – CUTOFF WALL LAYOUT AND SETTING OUT PLAN

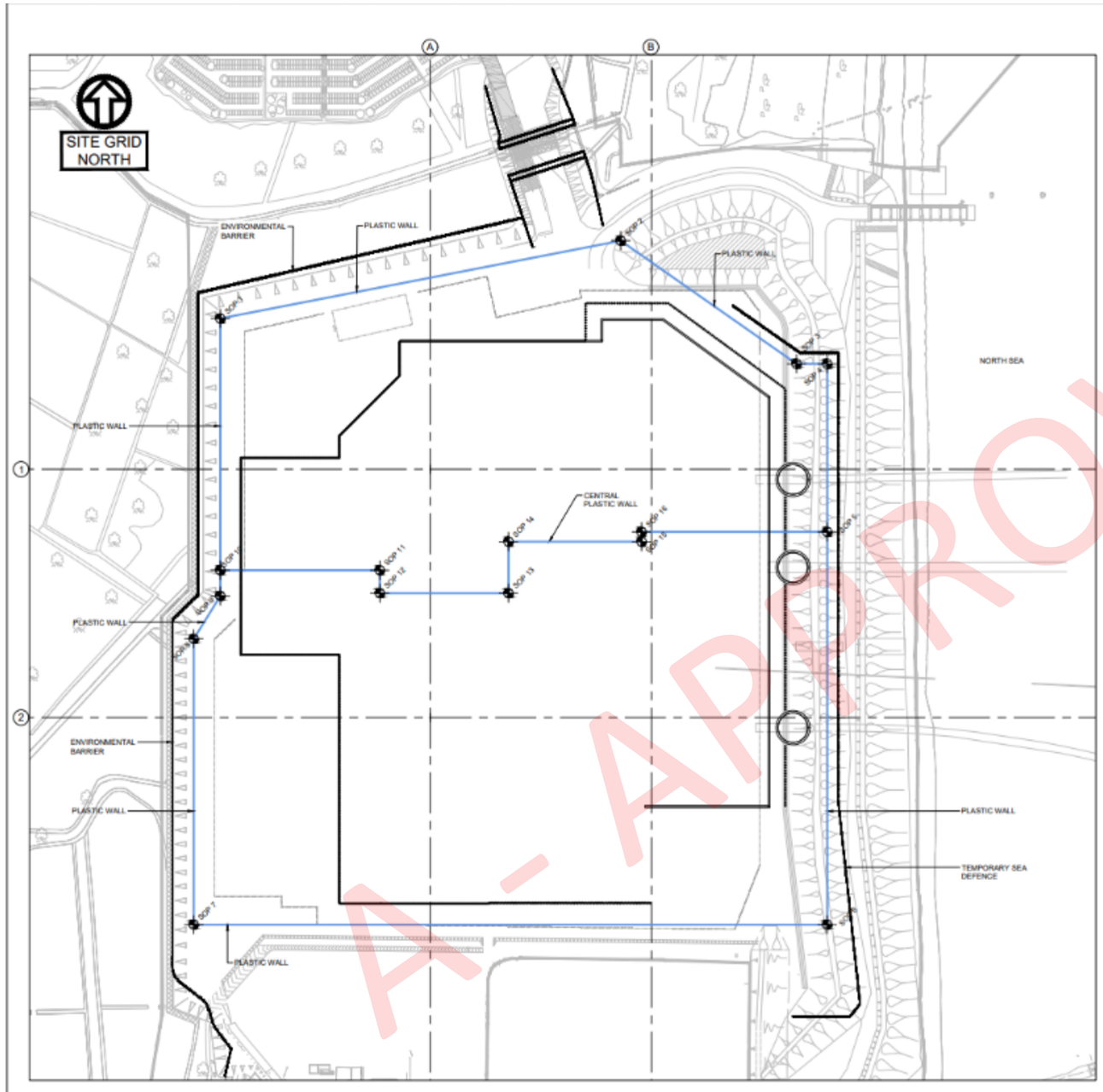
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MCA/WRA/2 GROUNDWATER CONTROL TECHNICAL NOTE



SETTING OUT PLAN FOR PLASTIC WALLS
SCALE 1:2000

PLASTIC WALL SETTING OUT COORDINATES

SETTING OUT POINT No.	EASTINGS	NORTHINGS	APPROXIMATE GROUND LEVEL (mOD)
SOP 1	647325.799	264348.251	+4.00
SOP 2	647396.444	264420.292	+4.00
SOP 3	647559.128	264306.281	+4.00
SOP 4	647587.625	264306.281	+4.00
SOP 5	647587.625	264150.620	+4.00
SOP 6	647587.625	263786.781	+4.00
SOP 7	647301.188	263786.781	+4.00
SOP 8	647301.188	264051.510	+4.00
SOP 9	647325.799	264091.243	+4.00
SOP 10	647325.799	264115.046	+4.00
SOP 11	647173.401	264115.046	+4.00
SOP 12	647173.401	264093.764	+4.00
SOP 13	647292.576	264093.764	+4.00
SOP 14	647292.576	264141.564	+4.00
SOP 15	647415.699	264141.564	+4.00
SOP 16	647415.699	264150.620	+4.00

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DRAWING GRID / COORDINATE SYSTEM:

SITE LOCAL GRID ☐	NATIONAL GRID OSGB36 ☒
OTHER GRID ☐	(To be defined in the contract project plan)
CONTRACT PROJECT PLAN DOC. REF. No.	N/A

NOTES:
1. ALL DIMENSIONS IN METRES AND ALL LEVELS IN METRES.
2. ALL LEVELS RELATE TO ORDNANCE DATUM UNLESS STATED OTHERWISE.
3. DO NOT SCALE FROM THIS DRAWING.
   DO NOT TAKE DIGITAL DIMENSIONS OFF THIS DRAWING.
   WORK TO FIGURED DIMENSIONS ONLY - IF IN DOUBT ASK.
4. ALL SETTING OUT POINTS ARE ON THE CENTRELINE OF EACH WALL.
5. PROPOSED PLASTIC WALL TO BE 10m MINIMUM FROM SEA DEFENCE WALL ON WEST SIDE.

LEGEND:
SOP 11

SCALE IN METRES
1:2000

1st partner	2nd partner
NNBGEN	EDF ENERGY
CONTRACTOR COMPANY TRADE NAME : COWI	
CONTRACTOR REF. No. SZC-EW0420-CWI-XX-HSZ-XXXXXX-DRW-CIV-100003	
CONTRACT NUMBER : ENW000-370	
CONTRACTOR WBS CODE : EW0420	ORA RELATED: Yes ☐ No ☒

APPLICABILITY:
1. Document related to Unit 1
2. Document related to Unit 2
3. Document that applies to buildings/systems common to Unit 1 & 2
4. Documents that relate exclusively to buildings or systems that are common to the whole site (e.g. parking, ancillary buildings...)

NUCL/REP/EPR/UKCA				
SZC (doc SZ)				
0	1	2	9	
X				

BUILDING: HSZ
SYSTEM: N/A

SCALE	1:2000 @ A1
SIZE	A1
PAGE	1/1
DESCRIPTION	PLASTIC WALL LAYOUT AND SETTING OUT

TEAMCENTER DOCUMENT REFERENCE No.
XXXXXXXXX

DOCUMENT SUB -TYPE: DRAWING	EDF CLASSIFICATION CODE: N/A
SUBCONTRACTOR COMPANY TRADE NAME: N/A	SUBCONTRACTOR DOCUMENT REF. No.: N/A

INTELLECTUAL PROPERTY OWNERSHIP	NNB: OWNERSHIP	EDF: N/A	CONTRACTOR: OWNERSHIP

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ANNEX C – DEWATERING WELL TYPICAL DETAILS

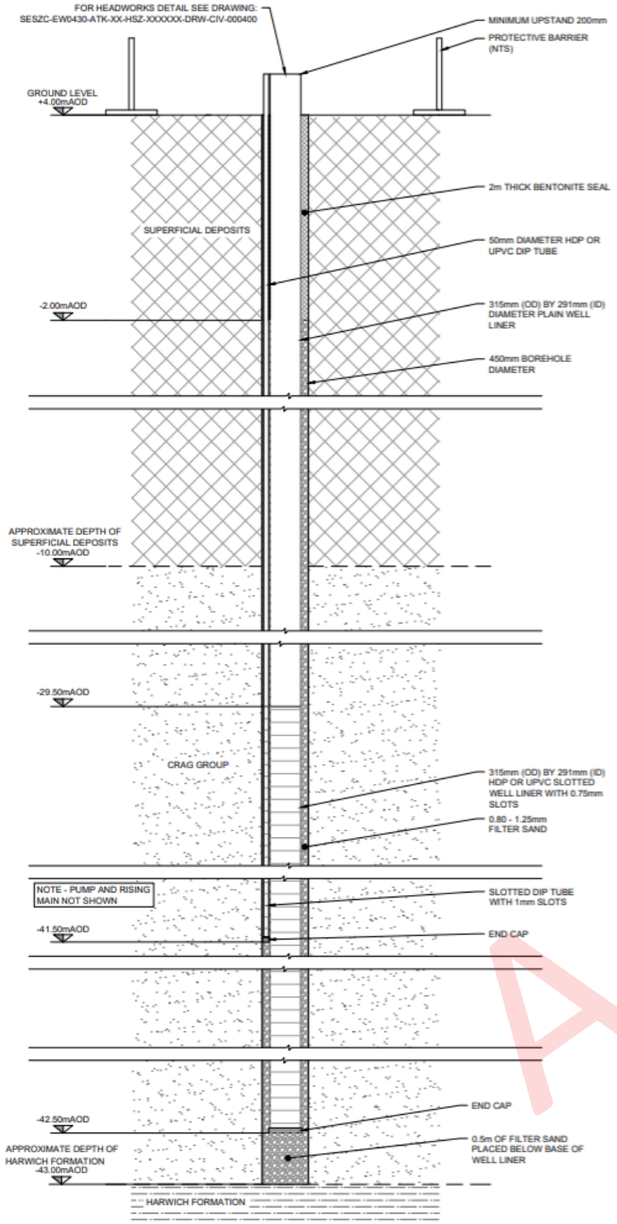
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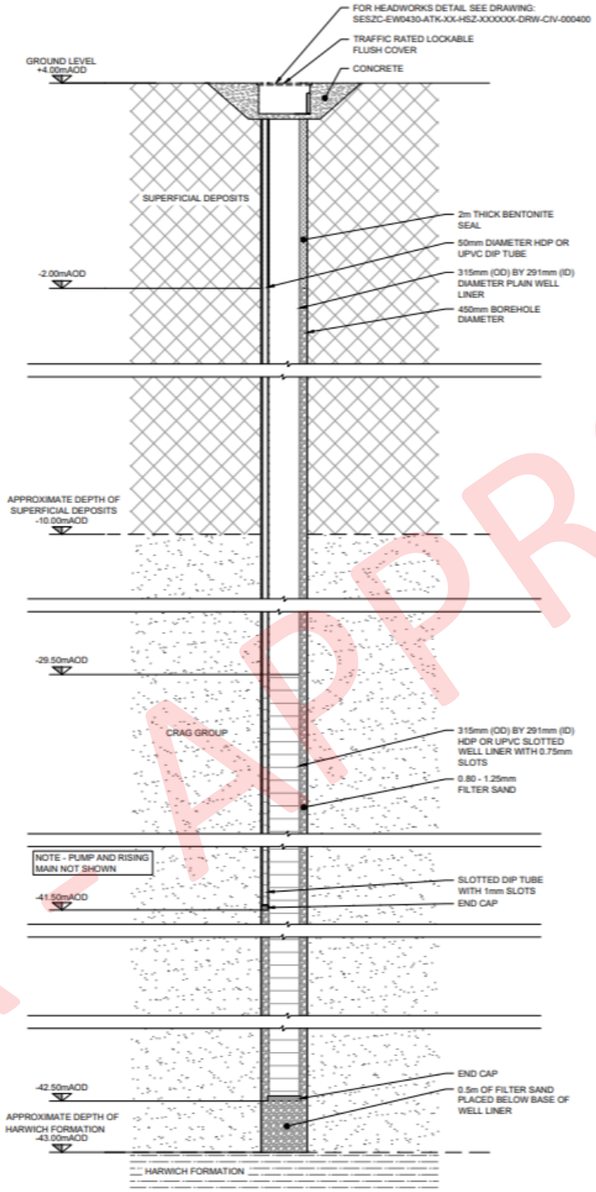
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MCA/WRA/2 GROUNDWATER CONTROL TECHNICAL NOTE



DEWATERING WELL SECTIONAL DETAIL TYPE 1
(SCALE 1:25)



DEWATERING WELL SECTIONAL DETAIL TYPE 2
(SCALE 1:25)

WELL DRILLING AND INSTALLATION

- BOREHOLES FOR THE INTERNAL WELLS SHALL BE DRILLED BY REVERSE-CIRCULATION ROTARY DRILLING METHODS. WHERE UNSTABLE DEPOSITS ARE PENETRATING THEY SHALL BE SUPPORTED BY TEMPORARY CASING. A DRILLERS LOG OF STRATA PENETRATED SHALL BE PRODUCED FOR EACH BOREHOLE AND THE CONSTRUCTION DETAILS SHALL BE RECORDED INCLUDING QUANTITY OF WELL LINER AND FILTER SAND USED RECORDED.
- BOREHOLE DRILLING SHALL BE SUPERVISED BY A QUALIFIED GEOTECHNICAL ENGINEER AND AN ENGINEERS LOG MADE FOR EACH BOREHOLE IN ACCORDANCE WITH BS5930:2015+A1:2020.
- THE WELL BORE SHALL BE DRILLED AT 450mm DIAMETER
- INTERNAL WELLS SHALL BE DRILLED TO A NOMINAL LEVEL OF -43m AOD TO ACHIEVE FULL PENETRATION OF THE CRAG GROUP AQUIFIER. THE FINAL DEPTH TO BE DETERMINED BY THE GEOTECHNICAL SUPERVISING ENGINEER.
- PRIOR TO THE INSTALLATION OF WELL SCREEN AND LINER, 0.5m OF FILTER SAND OF SUGGESTED 0.80 TO 1.25mm SHALL BE PLACED IN THE BOREHOLE TO GIVE A FIRM BEDDING FOR THE BASE OF THE WELL SCREEN.
- THE WELL SCREEN AND LINER SHALL BE INSTALLED CENTRALLY IN THE BOREHOLE HDPE OR UPVC WELL SCREEN AND LINER SHALL BE USED WITH A 315mm (OD) by 291mm (ID) DIAMETER PLAIN WELL LINER WITH AN END CAP FITTED AT THE BASE.
- WELLSCREEN SHALL BE PROVIDED WITH FACTORY CUT SLOTS OF WIDTH 0.75mm AND MINIMUM OPEN AREA OF 11%
- CENTRALISERS SHALL BE FITTED TO THE WELLSCREEN AND CASING, AT A MAXIMUM VERTICAL SPACING OF 6m
- THE LENGTHS OF WELL SCREEN AND WELL LINER SHALL BE RECORDED.
- A 50mm DIAMETER DIP TUBE WITH END CAP SHALL BE INSTALLED DIRECTLY ADJACENT TO THE WELL LINER TO -41.5mAOD.
- THE DIP TUBE SHALL BE PROVIDED WITH FACTORY CUT SLOTS OF 1mm WIDTH. WITH THE RESPONSE ZONE BETWEEN -29.5m AOD AND -41.5m AOD.

- THE ANNULUS AROUND THE WELL SCREEN AND LINER AND DIP TUBE SHALL BE BACKFILLED AS FOLLOWS:

1. FILTER SAND SHALL BE PLACED BY TREMIE PIPE AND THE DEPTH OF THE SAND DURING PLACEMENT DETERMINED BY DIPPING WITH A WEIGHTED TAPE.
2. THE VOLUME OF FILTER SAND INSTALLED SHALL BE RECORDED FOR EACH 5m INCREMENT OF BOREHOLE DEPTH
3. HYDRATED BENTONITE PELLETS SHALL BE ADDED FROM GROUND LEVEL TO 2m BGL.

WELL DEVELOPMENT:

- ALL WELLS SHALL BE DEVELOPED BY AIRLIFTING. WATER FROM DEVELOPMENT SHALL BE COLLECTED LOCALLY AND TRANSPORTED TO THE RELEVANT WATER DISPOSAL POINT.
- DEVELOPMENT PUMPING SHALL BE CARRIED OUT BY INTERMITTENT AIRLIFT PUMPING WITH THE WELL PUMPED AT A HIGH FLOW RATE UNTIL THE WATER LEVEL IN THE WELL IS SIGNIFICANTLY LOWERED; THE PUMPING SHALL THEN BE STOPPED SUDDENLY TO LET THE WELL FILL UP WITH WATER. WHEN THE WATER LEVEL IN THE WELL HAS RECOVERED SIGNIFICANTLY THE PUMPING SHALL BE STARTED AGAIN AND THE STOP/START PUMPING SEQUENCE REPEATED UNTIL PUMPED WATER RUNS CLEAR.
- FOLLOWING THE STOP/START PUMPING, THE WELL SHALL BE PUMPED CONTINUOUSLY UNTIL THE PUMPED WATER RUNS CLEAR.
- DURING EACH PERIOD OF CONTINUOUS CLEARANCE PUMPING THE FLOW RATE AND THE WATER LEVEL IN THE WELL SHALL BE RECORDED, SO THAT THE APPROXIMATE WELL YIELD CAN BE ESTIMATED BY THE CONTRACTOR.
- DEVELOPMENT AND CLEARANCE PUMPING OF DEWATERING WELLS SHALL BE REPEATED UNTIL THE WELL PUMPING RATE HAS REACHED A MAXIMUM, THE PUMPED WATER IS VISUALLY CLEAR, AND THE SEDIMENT CONTENT OF THE PUMPED WATER IS LESS THAN 5 ml/l MEASURED BY IMHOFF CONE.
- THE TARGET YIELD SHALL BE APPROPRIATE FOR THE PUMPS USED.

ACCEPTANCE CRITERIA FOR MONITORING WELLS:

ALL WELLS MUST BE EFFECTIVE AND MUST SATISFY THE INTENDED DESIGN. THE ACCEPTANCE CRITERIA FOR DEWATERING WELLS ARE SUMMARISED BELOW. ANY WELLS THAT DO NOT MEET THESE CRITERIA SHOULD BE REDRILLED OR REPLACED.

- THE BASE OF THE WELL LINER MUST BE INSTALLED TO WITHIN +/- 0.25m OF THE LEVEL SPECIFIED.
- THE VOLUME OF FILTER GRAVEL PLACED MUST BE MORE THAN 90 PER CENT OF THE THEORETICAL ANNULUS VOLUME.
- SEDIMENT CONTENT OF PUMPED WATER DURING AIRLIFT DEVELOPMENT MUST BE LESS THAN 5 ml/l WHEN MEASURED BY IMHOFF CONE.

PUMPED WELLS

- 10 NO. INTERNAL WELLS SHALL BE INSTALLED WITH ELECTRIC SUBMERSIBLE BOREHOLE PUMPS OF THE CAPACITY 25 L/S AT 66.2m HEAD. THE BOREHOLE PUMP IN EACH WELL SHALL BE EQUIPPED WITH RISING MAIN, HEADWORKS AND DROP CABLE. PUMP SELECTION BY PHASE 3 CONTRACTOR.
- PUMPS SHALL BE EQUIPPED WITH AUTOMATIC CONTROL SYSTEMS WHICH SHOULD ALLOW INDIVIDUAL PUMPS TO STOP AND START IN RESPONSE TO HIGH OR LOW WATER LEVELS IN THE WELL.
- SYSTEM SHOULD BE PROVIDED WITH AN AUTOMATIC MAINS FAILURE (AMF) SYSTEM TO AUTOMATICALLY RESTART THE PUMPS IN THE EVENT OF A LOSS OF PRIMARY POWER.
- THE WELL HEAD SHALL CONNECT TO A FLEXIBLE PIPE TO CARRY THE PUMPED WATER TO THE RING MAIN.
- THE DISCHARGE PIPELINE SHALL BE OF ADEQUATE DIAMETER TO AVOID EXCESSIVE HEAD LOSSES AND SHALL COMPRISE SMOOTH BORE PIPE WITH LOW FRICTION PROPERTIES SUITABLE FOR PUMPING GROUNDWATER.

OBSERVATION/CONTINGENCY WELLS

- 16 NO. INTERNAL WELLS SHALL ACT AS OBSERVATION WELLS.
- IF OVERALL DEWATERING FLOWRATES ARE VERY HIGH, OR PUMPING WELLS ARE DESTROYED OR TAKEN OUT OF COMMISSION, PUMPS CAN BE INSTALLED IN THE OBSERVATION WELLS TO AT AS CONTINGENCY PUMPED WELLS.

STANDBY FACILITIES

- THE GROUNDWATER CONTROL SYSTEM SHOULD HAVE ADEQUATE BACK UP AND STANDBY FACILITIES INCLUDING PROVISION OF STANDBY AND DUTY GENERATORS.

WELLHEAD PROTECTION AND CABLE PROTECTION

- WELLS SHALL BE PROTECTED WITH TRAFFIC-RESISTANT BARRIERS OR OTHER METHODS TO PREVENT DAMAGE TO THE WELLS FROM CONSTRUCTION PLANT AND OTHER ACTIVITIES.
- PUMP POWER CABLES SHALL BE PROTECTED WITH TRAFFIC CONES/BARRIERS TO PREVENT DAMAGE FROM CONSTRUCTION PLANT AND OTHER ACTIVITIES.

0.5m 0m 0.5m 1m
Scale 1:25

UK PROTECTIVE MARKING:
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DRAWING GRID / COORDINATE SYSTEM:

SITE LOCAL GRID	☐	NATIONAL GRID OSGB36	☐
OTHER GRID	☐	(To be defined in the contract project plan)	
CONTRACT PROJECT PLAN DOC. REF. No.		N/A	

NOTES:

1. ALL LEVELS ARE IN METRES ABOVE ORDINANCE DATUM (m AOD) UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
3. PLAN VIEW OF WELL LOCATIONS PROVIDED IN DRAWING "SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000601" AND "SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000600".
4. DEWATERING SPECIFICATION PROVIDED IN SZC-EW0430-ATK-XX-HSZ-XXXXXX-SPE-CIV-000001.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION

EW0430-01 - FALLS AND TRIPS INTO WELLS
EW0430-02 - DEWATERING FAILS
EW0430-03 - REMOVAL, REPLACEMENT AND MAINTENANCE OF PUMPS, AND OTHER ONGOING OPERATIONAL AND MAINTENANCE
EW0430-04 - STRIKE/ DAMAGE TO POWER SUPPLY AND WATER DISCHARGE PIPES.
EW0430-05 - MONITORING AND ACCESS, CLASHES WITH OTHER OPERATIONS.
EW0430-06 - GEOCHEMICAL CLOGGING OF WELLS (E/G IRON DEPOSITS/OCHRE BUILD UP).
EW0430-07 - INSTALLATION OF PIPEWORK AT HEIGHT
EW0430-08 - COLLAPSE OF TRENCHES DURING INSTALLATION OF BURIED SECTIONS OF RING MAIN.
EW0430-09 - FALL FROM CUTOFF WALL DURING INSTALLATION OF HOSE CONNECTION TO RING MAIN.
EW0430-10 - DAMAGE TO RING MAIN
EW0430-11 - DAMAGE TO A WELL/CABLE/CONNECTION HOSE FROM CONSTRUCTION PLANT.

MAINTENANCE/CLEANING

*N/A

DECOMMISSIONING/DEMOLITION

*N/A

The above risks are listed in the Design Risk Register reference SZC-EW0000-ATK-XX-000-XXXXXX-REG-CIV-000009

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

REV.	DATE	PREPARED BY	CHECKED BY	STATUS	REASONS FOR REVISION	APPROVED BY
P01	30/06/26	SN	DH	P4	First Revision	DF
P02	04/03/26	NBL	DC	P4	Phase 2 Design Update (New Baseline)	DF
P03.01		NBL	DC	P4	Phase 2 Design Update (For Permitting Support)	---

NNB GenCo (SZC) LTD. | 1st partner: Sizewell C | 2nd partner: AtkinsRéalis

CONTRACTOR COMPANY TRADE NAME : AtkinsRéalis
CONTRACTOR REF. No. SZC-EW0430-ATK-XX-HSZ-XXXXXX-DRW-CIV-210100
CONTRACT NUMBER : Early Works EWXXXX_098_01
CONTRACTOR WBS CODE : EW0430 | QRA RELATED Yes ☐ No ☒

APPLICABILITY:
1: Document related to Unit 1
2: Document related to Unit 2
9: Document that applies to buildings/systems common to Unit 1 & 2
0: Documents that relate exclusively to buildings or systems that are common to the whole site (e.g. parking, ancillary buildings...)

NUCL/REP/EPR/UKX			
SZC (doc: SZ)			
0	1	2	9
X			

BUILDING: HSZ
SYSTEM: N/A

SCALE: 1:25
SIZE: A1
PAGE: 1/1
DESCRIPTION: Dewatering Well Typical Details

TEAMCENTER DOCUMENT REFERENCE No.: 101159791

DOCUMENT SUB -TYPE: N/A | EDF CLASSIFICATION CODE: N/A
SUBCONTRACTOR COMPANY TRADE NAME: N/A | SUBCONTRACTOR DOCUMENT REF. No: 5213850-SNC-XX-XX-DDRW-G-000637

INTELLECTUAL PROPERTY OWNERSHIP: | NNB: N/A | EDF: N/A | CONTRACTOR: N/A

UK PROTECTIVE MARKING:
NOT PROTECTIVELY MARKED

Sizewell C | 101753915 / 001 | P1 - For Implementation | 30-Jun-2026 | LTQR: False | NOT PROTECTIVELY MARKED

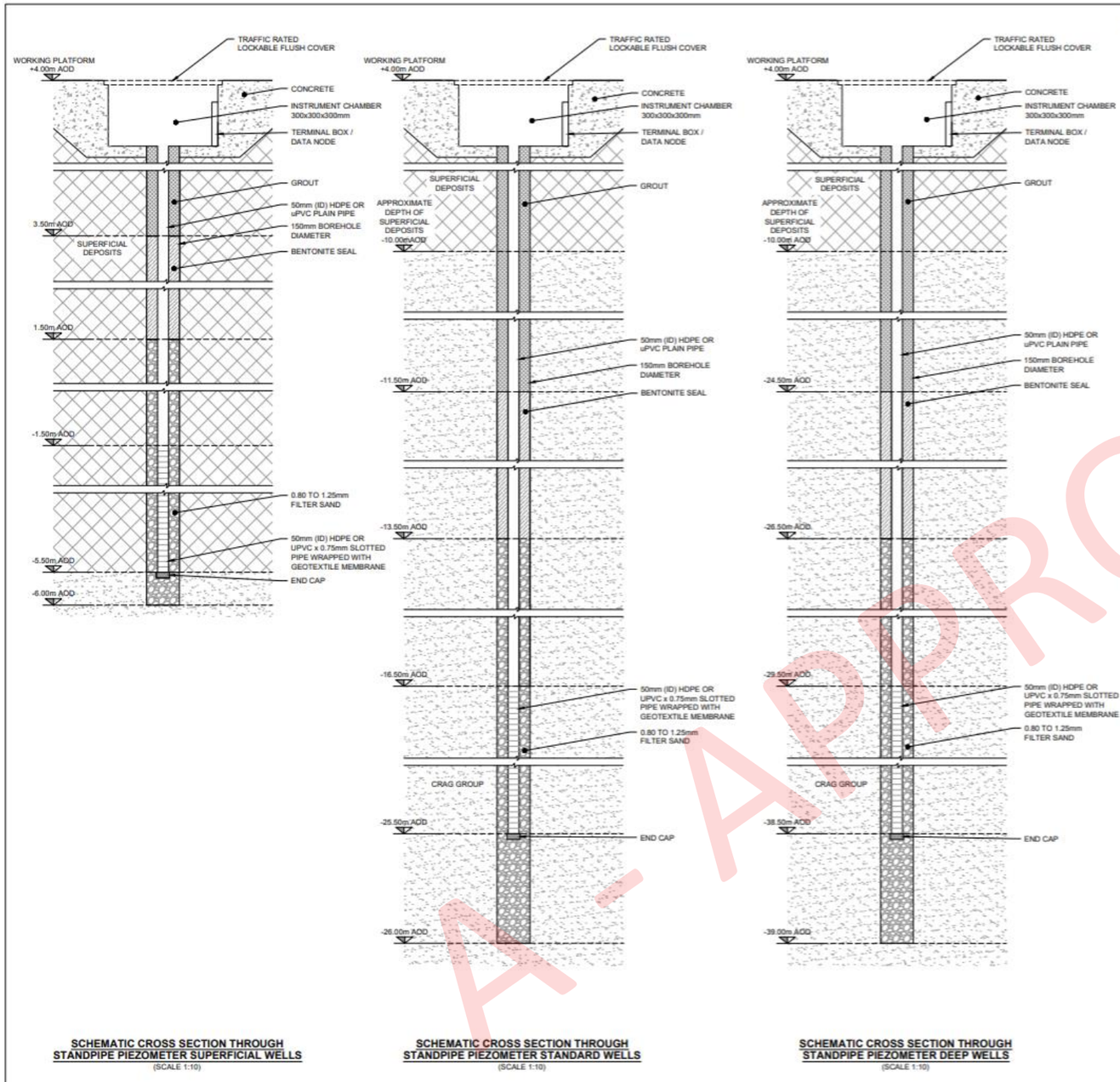
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ANNEX D – DEEP PIEZOMETER TYPICAL DETAILS (3RD CROSS-SECTION)

A - APPROVED

Sizewell C | 101753915 / 001 | P1 - For Implementation | 30-Jun-2026 | LTQR: False | NOT PROTECTIVELY MARKED

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SCHEMATIC CROSS SECTION THROUGH STANDPIPE PIEZOMETER SUPERFICIAL WELLS
(SCALE 1:10)

SCHEMATIC CROSS SECTION THROUGH STANDPIPE PIEZOMETER STANDARD WELLS
(SCALE 1:10)

SCHEMATIC CROSS SECTION THROUGH STANDPIPE PIEZOMETER DEEP WELLS
(SCALE 1:10)

STANDPIPE PIEZOMETER DRILLING AND INSTALLATION

- BOREHOLES SHALL BE DRILLED BY SUITABLE ROTARY DRILLING METHODS. WHERE UNSTABLE DEPOSITS ARE PENETRATED, THEY SHALL BE SUPPORTED BY TEMPORARY CASING. A DRILLERS LOG OF STRATA PENETRATED SHALL BE PRODUCED FOR EACH BOREHOLE AND THE CONSTRUCTION DETAILS SHALL BE RECORDED INCLUDING THE QUANTITY OF WELL LINER AND FILTER SAND USED.
- BOREHOLE DRILLING SHALL BE SUPERVISED BY A QUALIFIED GEOTECHNICAL ENGINEER AND AN ENGINEERS LOG MADE FOR EACH BOREHOLE IN ACCORDANCE WITH BS5930:2015+A1:2020.
- BOREHOLES SHALL BE DRILLED TO A NOMINAL LEVEL OF -6m AOD (SUPERFICIAL WELLS), -26m AOD (STANDARD WELLS) OR -39m AOD (DEEP WELLS).
  REFER TO DRAWINGS:
  SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000600 AND
  SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000601.
- PRIOR TO THE INSTALLATION OF PLAIN AND SLOTTED PIPE, 0.5m OF SUGGESTED 1.25mm FILTER SAND SHALL BE PLACED IN THE BOREHOLE TO GIVE A FIRM BEDDING FOR THE BASE OF THE WELL SCREEN.
- A MINIMUM 50 mm INTERNAL DIAMETER HDPE OR UPVC WELL SCREEN AND LINER SHALL BE USED WITH AN END CAP FITTED AT THE BASE. THE WELL SCREEN AND LINER SHALL BE INSTALLED CENTRALLY IN THE BOREHOLE USING CENTRALISERS.
- WELL SCREEN SHALL BE PROVIDED WITH FACTORY CUT SLOTS OF WIDTH 0.75mm AND INSTALLED BETWEEN -1.5m AOD AND -5.5m AOD (SUPERFICIAL WELLS), -16.5m AOD AND -25.5m AOD (STANDARD WELLS) OR -29.5m AOD TO -38.5m AOD (DEEP WELLS).
  REFER TO DRAWINGS:
  SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000600 AND
  SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000601.
- A DATA LOGGER SHALL BE PLACED AT LEAST 0.5m ABOVE THE BASE OF THE WELL LINER TO WITH THE CAPABILITY OF PROVIDING REMOTE DATA COLLECTION.
- A VENTED BUNG SHALL BE PLACE AT THE TOP OF THE STANDPIPE PIEZOMETER.
- THE ANNULUS AROUND THE WELL SCREEN AND LINER SHALL BE BACKFILLED AS FOLLOWS:

1. 0.80 TO 1.25mm FILTER SAND SHALL BE PLACED IN THE ANNULUS BETWEEN: -5.5m AOD TO 1.5m AOD (SUPERFICIAL WELLS), -25.5m AOD TO -13.5m AOD (STANDARD WELLS) OR -38.5m AOD TO -26.5m AOD (DEEP WELLS).
   REFER TO DRAWINGS:
   SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000600 AND
   SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000601.
2. THE VOLUME OF FILTER SAND INSTALLED SHALL BE RECORDED FOR EACH 5m INCREMENT OF BOREHOLE DEPTH.
3. HYDRATED BENTONITE PELLETS SHALL BE ADDED FROM 1.5m AOD TO 3.5m AOD (SUPERFICIAL WELLS), -13.5m AOD TO -11.5m AOD (STANDARD WELLS) OR -26.5m AOD TO -24.5m AOD (DEEP WELLS).
   REFER TO DRAWINGS:
   SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000600 AND
   SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000601
4. GROUT SHALL BE ADDED FROM TOP OF HYDRATED BENTONITE PELLETS TO GROUND LEVEL.

INSTALLATION TO BE DEVELOPED IN ACCORDANCE WITH THE RECOMMENDATIONS OF BS5930:2015+A1:2020 AND BS ISO14686.

UK PROTECTIVE MARKING:
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DRAWING GRID / COORDINATE SYSTEM:
SITE LOCAL GRID ☐ | NATIONAL GRID OSGB36 ☐
OTHER GRID ☐ | (To be defined in the contract project plan)
CONTRACT PROJECT PLAN DOC. REF. No: N/A

NOTES:

1. ALL LEVELS ARE IN METRES ABOVE ORDANANCE DATUM (mAOD) UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
3. PLAN VIEW OF LOCATIONS PROVIDED IN DRAWING SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000601 AND SZC-EW0430-ATK-XX-HSZ-01XXXX-DRW-CIV-000600.
4. DEWATERING SPECIFICATION PROVIDED IN SZC-EW0430-ATK-XX-HSZ-XXXXXX-SPE-CIV-000001.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION
*N/A

MAINTENANCE/CLEANING
*N/A

DECOMMISSIONING/DEMOLITION
*N/A

The above risks are listed in the Design Risk Register reference SZC-EW0000-ATK-XX-000-XXXXXX-REG-CIV-000009

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

P01	09/08/24	SN	DH	P4	First Revision	DF
P02	04/03/25	NBL	DC	P4	Phase 2 Design Update (New Baseline)	DF
P03.01	---	NBL	DC	P4	Phase 2 Design Update (For Permitting Support)	---
REV.	DATE	REVISED BY	CHECKED BY	STATUS	REASONS FOR REVISION	APPROVED BY

NNB GenCo (SZC) LTD. | 1st partner: Sizewell C | 2nd partner: AtkinsRéalis

CONTRACTOR COMPANY TRADE NAME : AtkinsRéalis
CONTRACTOR REF. No. SZC-EW0430-ATK-XX-HSZ-XXXXXX-DRW-CIV-000301
CONTRACT NUMBER : Early Works EWXXXX_098_01
CONTRACTOR WBS CODE :EW0430 | QRA RELATED Yes ☐ No ☐

APPLICABILITY:
1: Document related to Unit 1
2: Document related to Unit 2
0: Document that applies to buildings/systems common to Unit 1 & 2
0: Documents that relate exclusively to buildings or systems that are common to the whole site (e.g. parking, ancillary buildings...)

NUCL/REP/EPR/UKX			
SZC (doc: SZ)			
0	1	2	9
X			

BUILDING: HSZ
SYSTEM: N/A

SCALE 1:10
SIZE A1
PAGE 1/1
DESCRIPTION: Standpipe Piezometer Typical Details

TEAMCENTER DOCUMENT REFERENCE No.
101192179

DOCUMENT SUB -TYPE: N/A
EDF CLASSIFICATION CODE: N/A
SUBCONTRACTOR COMPANY TRADE NAME: N/A
SUBCONTRACTOR DOCUMENT REF. No: 5213850-SNC-XX-XX-DSRW-G-000703

0 1 2 3 4 5 6 7 8 9 10

INTELLECTUAL PROPERTY OWNERSHIP: | NNB: N/A | EDF: N/A | CONTRACTOR: N/A

UK PROTECTIVE MARKING:
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0.1m 0m 0.2m 0.4m 0.6m
Scale 1:10

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A - APR

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Sizewell C
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Company Document
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Date	BP23	C2D	C3D	GW9D	P12	P13
01/09/2022	0.773056	0.607670	0.534911	0.577002	0.325048	0.237036
02/09/2022	0.769042	0.579847	0.535072	0.580607	0.329912	0.245508
03/09/2022	0.767245	0.568902	0.534042	0.580492	0.330181	0.247783
04/09/2022	0.766203	0.563623	0.533225	0.580140	0.329735	0.248615
05/09/2022	0.764845	0.557648	0.532081	0.579528	0.328929	0.252164
06/09/2022	0.763932	0.553834	0.531281	0.578987	0.328854	0.258133
07/09/2022	0.763264	0.551001	0.530787	0.578545	0.330213	0.269446
08/09/2022	0.762652	0.548417	0.530450	0.578194	0.329726	0.274525
09/09/2022	0.761937	0.545232	0.529781	0.577701	0.326948	0.272365
10/09/2022	0.761495	0.543210	0.529269	0.577314	0.325331	0.271156
11/09/2022	0.761016	0.541131	0.528704	0.576840	0.323827	0.271307
12/09/2022	0.776023	0.545566	0.537229	0.581111	0.332083	0.286748
13/09/2022	0.799771	0.558533	0.552643	0.590519	0.347062	0.310112
14/09/2022	0.819087	0.573725	0.566699	0.600662	0.364750	0.336231
15/09/2022	0.828252	0.583945	0.574387	0.607335	0.375304	0.356801
16/09/2022	0.865662	0.594622	0.586881	0.615221	0.387037	0.376308
17/09/2022	0.903215	0.605982	0.599776	0.623809	0.390792	0.378926
18/09/2022	0.920901	0.613603	0.606740	0.629839	0.389801	0.373279
19/09/2022	0.922259	0.615023	0.607226	0.631594	0.386432	0.364293
20/09/2022	0.917538	0.612096	0.604312	0.630069	0.382713	0.355391
21/09/2022	0.912680	0.607981	0.600834	0.627386	0.379222	0.347392
22/09/2022	0.908919	0.604396	0.597913	0.624958	0.376202	0.340825
23/09/2022	0.905824	0.601548	0.595556	0.623099	0.373777	0.336450
24/09/2022	0.902967	0.599050	0.593493	0.621581	0.371346	0.332633
25/09/2022	0.902092	0.597883	0.592646	0.620638	0.376448	0.346060
26/09/2022	0.913231	0.602084	0.598119	0.623090	0.388474	0.367211
27/09/2022	0.928495	0.611283	0.607201	0.628446	0.404732	0.391398
28/09/2022	0.938276	0.620636	0.614588	0.633779	0.417343	0.415306
29/09/2022	0.941763	0.626401	0.618498	0.637038	0.426448	0.437171
30/09/2022	0.948055	0.629623	0.621058	0.638678	0.438148	0.456829
01/10/2022	0.967739	0.634318	0.626239	0.641884	0.452607	0.474747
02/10/2022	0.985250	0.640443	0.632353	0.646250	0.462875	0.491514
03/10/2022	0.992297	0.645354	0.636751	0.649778	0.468760	0.507302
04/10/2022	0.991489	0.647346	0.638630	0.651283	0.471747	0.519822
05/10/2022	0.987534	0.646666	0.638529	0.650966	0.471586	0.521399
06/10/2022	0.983230	0.644692	0.637421	0.649720	0.471040	0.520465
07/10/2022	0.979365	0.642387	0.635998	0.648286	0.469078	0.513656
08/10/2022	0.978681	0.641332	0.635615	0.647452	0.473295	0.517768
09/10/2022	0.978960	0.641664	0.636198	0.647301	0.478011	0.528693

10/10/2022	0.979594	0.642915	0.637709	0.648233	0.483799	0.542907
11/10/2022	1.077588	0.657126	0.664731	0.681885	0.496260	0.558026
12/10/2022	1.255179	0.692448	0.724881	0.756804	0.519739	0.576159
13/10/2022	1.382151	0.735584	0.788321	0.830993	0.530578	0.583212
14/10/2022	1.420029	0.766774	0.825715	0.869881	0.530105	0.582789
15/10/2022	1.407416	0.777900	0.833452	0.872245	0.524559	0.579247
16/10/2022	1.383238	0.775201	0.825468	0.856224	0.518381	0.574616
17/10/2022	1.362754	0.769032	0.814741	0.838613	0.514577	0.574722
18/10/2022	1.347054	0.764826	0.806162	0.826024	0.510705	0.570952
19/10/2022	1.334092	0.762780	0.799533	0.817633	0.507621	0.565670
20/10/2022	1.324107	0.762346	0.794564	0.811215	0.512159	0.577278
21/10/2022	1.316500	0.763206	0.791027	0.805638	0.523121	0.601369
22/10/2022	1.308296	0.763929	0.787470	0.800244	0.526776	0.600144
23/10/2022	1.298642	0.763295	0.782950	0.794646	0.524275	0.588884
24/10/2022	1.288295	0.761192	0.777598	0.788783	0.518762	0.576254
25/10/2022	1.278083	0.758421	0.772035	0.782873	0.513979	0.569148
26/10/2022	1.268344	0.755570	0.766668	0.777192	0.509106	0.561390
27/10/2022	1.259085	0.752911	0.761611	0.771869	0.506045	0.557273
28/10/2022	1.250233	0.750325	0.756817	0.766891	0.502483	0.550783
29/10/2022	1.241722	0.747705	0.752198	0.762183	0.499170	0.543505
30/10/2022	1.233513	0.745031	0.747718	0.757681	0.495836	0.535896
31/10/2022	1.225579	0.742338	0.743376	0.753361	0.492558	0.528408
01/11/2022	1.217906	0.739739	0.739237	0.749236	0.490038	0.526542
02/11/2022	1.210493	0.737215	0.735360	0.745332	0.487767	0.527318
03/11/2022	1.203336	0.734613	0.731718	0.741646	0.485613	0.528831
04/11/2022	1.196423	0.731841	0.728245	0.738137	0.483557	0.530259
05/11/2022	1.189741	0.729005	0.724898	0.734764	0.481536	0.531204
06/11/2022	1.184003	0.726751	0.722125	0.731709	0.482347	0.542694
07/11/2022	1.178997	0.725272	0.720072	0.729105	0.483957	0.559291
08/11/2022	1.173957	0.724074	0.718313	0.726817	0.485498	0.575925
09/11/2022	1.175137	0.725694	0.720055	0.726531	0.495335	0.595656
10/11/2022	1.180126	0.730806	0.724496	0.728437	0.514535	0.600723
11/11/2022	1.181970	0.735985	0.727704	0.730389	0.524574	0.597106
12/11/2022	1.186154	0.739902	0.729907	0.732224	0.538392	0.600300
13/11/2022	1.223503	0.755174	0.749779	0.743820	0.556429	0.601185
14/11/2022	1.276075	0.780444	0.778466	0.764779	0.576338	0.601949
15/11/2022	1.307690	0.801819	0.798483	0.783296	0.580768	0.601194
16/11/2022	1.314458	0.812105	0.804773	0.792830	0.571756	0.601187
17/11/2022	1.309690	0.809859	0.801816	0.791061	0.566857	0.601152
18/11/2022	1.299548	0.803300	0.794518	0.784858	0.557575	0.600973
19/11/2022	1.290729	0.797328	0.788007	0.778588	0.550150	0.600708
20/11/2022	1.283808	0.794190	0.783943	0.774213	0.557665	0.602046
21/11/2022	1.278268	0.793416	0.781579	0.771546	0.565336	0.602555
22/11/2022	1.274714	0.793352	0.779800	0.769608	0.570523	0.602743
23/11/2022	1.270350	0.792108	0.777305	0.767381	0.567567	0.601168
24/11/2022	1.264180	0.789180	0.773696	0.764430	0.560689	0.600736
25/11/2022	1.256942	0.785191	0.769395	0.760921	0.552527	0.600209
27/11/2022	1.240732	0.776041	0.759751	0.752924	0.536909	0.597455

28/11/2022	1.235314	0.773038	0.756563	0.750264	0.532511	0.595892
29/11/2022	1.234698	0.771502	0.755088	0.749276	0.542361	0.600865
30/11/2022	1.235133	0.771825	0.755244	0.749875	0.547323	0.600241
01/12/2022	1.232407	0.771900	0.754763	0.749919	0.547058	0.601015
02/12/2022	1.226901	0.770221	0.752677	0.748378	0.541509	0.598817
03/12/2022	1.220400	0.767021	0.749394	0.745532	0.534938	0.595967
04/12/2022	1.213980	0.763428	0.745781	0.742224	0.530332	0.598294
05/12/2022	1.207885	0.760012	0.742321	0.739073	0.525408	0.597095
06/12/2022	1.202814	0.757329	0.739524	0.736427	0.525424	0.600550
07/12/2022	1.201368	0.756774	0.738532	0.734617	0.537427	0.601287
08/12/2022	1.201958	0.758247	0.738848	0.733727	0.550852	0.601477
09/12/2022	1.201799	0.760108	0.739466	0.733768	0.559091	0.601616
10/12/2022	1.199060	0.760445	0.739215	0.733735	0.557542	0.600477
11/12/2022	1.194312	0.758830	0.737694	0.732812	0.551914	0.600723
12/12/2022	1.225408	0.770423	0.755620	0.741288	0.559088	0.601340
13/12/2022	1.267792	0.792796	0.780721	0.757127	0.575591	0.602072
14/12/2022	1.290966	0.811304	0.796174	0.770514	0.582911	0.602840
15/12/2022	1.293209	0.817354	0.798369	0.775512	0.579174	0.601818
16/12/2022	1.285811	0.813501	0.792796	0.773151	0.570756	0.601315
17/12/2022	1.276947	0.806488	0.785558	0.767764	0.563544	0.602306
18/12/2022	1.276071	0.803266	0.782760	0.764283	0.570909	0.602547
19/12/2022	1.277501	0.803867	0.782669	0.763275	0.577937	0.602716
20/12/2022	1.302444	0.812330	0.793093	0.770981	0.591214	0.603037
21/12/2022	1.327640	0.824145	0.806273	0.782593	0.597777	0.603503
22/12/2022	1.345885	0.833637	0.815565	0.792841	0.608532	0.603953
23/12/2022	1.357974	0.841096	0.822910	0.798993	0.621602	0.604249
24/12/2022	1.365176	0.846679	0.827206	0.801196	0.633399	0.604414
25/12/2022	1.364560	0.848600	0.826702	0.800232	0.631459	0.602921
26/12/2022	1.357654	0.846193	0.822259	0.797031	0.621518	0.602588
27/12/2022	1.349360	0.841624	0.816691	0.792943	0.614676	0.603559
28/12/2022	1.349861	0.839885	0.815187	0.791107	0.620724	0.603863
29/12/2022	1.355046	0.841646	0.816514	0.791493	0.631125	0.604011
30/12/2022	1.363976	0.846154	0.820136	0.793865	0.644559	0.604164
31/12/2022	1.367506	0.849419	0.822005	0.795716	0.643851	0.602513
01/01/2023	1.375121	0.850755	0.822648	0.798511	0.648892	0.603723
02/01/2023	1.379332	0.850486	0.822677	0.800571	0.646728	0.603000
03/01/2023	1.391486	0.853247	0.827174	0.805174	0.649125	0.603822
04/01/2023	1.423349	0.864044	0.841760	0.817103	0.658813	0.604432
05/01/2023	1.453704	0.878320	0.857890	0.831556	0.664754	0.605020
06/01/2023	1.477759	0.893791	0.874157	0.844315	0.665309	0.605623
07/01/2023	1.486620	0.904185	0.883084	0.851071	0.657853	0.604732
08/01/2023	1.481410	0.906242	0.882320	0.850752	0.649004	0.605583
09/01/2023	1.492470	0.908268	0.885074	0.852743	0.652593	0.605851
10/01/2023	1.505137	0.912276	0.889989	0.857243	0.654280	0.605964
11/01/2023	1.509045	0.915467	0.892088	0.860205	0.656925	0.606204
12/01/2023	1.504312	0.915283	0.889759	0.859296	0.658888	0.606371
13/01/2023	1.494081	0.911618	0.884009	0.854887	0.654803	0.606220
14/01/2023	1.481685	0.905923	0.876680	0.848788	0.645492	0.604920

15/01/2023	1.490217	0.908727	0.881962	0.849999	0.648541	0.605432
16/01/2023	1.502167	0.917344	0.891611	0.856189	0.647144	0.604930
17/01/2023	1.503068	0.922866	0.895154	0.860307	0.639895	0.604331
18/01/2023	1.495571	0.921948	0.891732	0.859324	0.638503	0.605725
19/01/2023	1.484559	0.916500	0.884495	0.854317	0.633238	0.604654
20/01/2023	1.472885	0.909645	0.876326	0.847835	0.625007	0.603868
21/01/2023	1.461475	0.903005	0.868522	0.841569	0.615562	0.603503
22/01/2023	1.451258	0.897347	0.861735	0.836129	0.610590	0.604757
23/01/2023	1.441546	0.892194	0.855676	0.831315	0.605123	0.604300
24/01/2023	1.432116	0.887313	0.849988	0.826808	0.600841	0.604652
25/01/2023	1.432792	0.885231	0.848235	0.826357	0.609106	0.604778
26/01/2023	1.434467	0.885114	0.848578	0.828111	0.611221	0.603643
27/01/2023	1.434834	0.885682	0.848994	0.829391	0.617750	0.604551
28/01/2023	1.430858	0.884833	0.847347	0.828382	0.616521	0.603889
29/01/2023	1.423031	0.881803	0.843353	0.825016	0.610850	0.604383
30/01/2023	1.413549	0.877092	0.838010	0.820361	0.601668	0.602955
31/01/2023	1.403986	0.871787	0.832332	0.815468	0.592493	0.602333
01/02/2023	1.395206	0.866919	0.827067	0.810938	0.586910	0.603579
02/02/2023	1.386898	0.862527	0.822233	0.806841	0.580213	0.602063
03/02/2023	1.397023	0.864798	0.826228	0.808417	0.588672	0.603422
04/02/2023	1.409390	0.871154	0.833253	0.813339	0.590918	0.602241
05/02/2023	1.411820	0.875347	0.836137	0.816519	0.586662	0.601928
06/02/2023	1.405980	0.874482	0.833697	0.815654	0.581903	0.603699
07/02/2023	1.397034	0.869863	0.828306	0.811676	0.574501	0.602064
08/02/2023	1.387949	0.864185	0.822330	0.806663	0.567403	0.601515
09/02/2023	1.379411	0.858945	0.816801	0.801960	0.560443	0.601102
10/02/2023	1.371320	0.854346	0.811799	0.797854	0.554077	0.600855
12/02/2023	1.354048	0.844889	0.801449	0.789559	0.541603	0.599703
13/02/2023	1.348570	0.841911	0.798223	0.786980	0.537991	0.599000
14/02/2023	1.341366	0.838069	0.794045	0.783575	0.535162	0.601537
15/02/2023	1.334307	0.834300	0.790021	0.780258	0.531448	0.600526
16/02/2023	1.327394	0.830559	0.786098	0.777044	0.527779	0.598633
17/02/2023	1.320939	0.827153	0.782492	0.774007	0.527063	0.601697
18/02/2023	1.314651	0.823821	0.779123	0.771142	0.524462	0.600319
19/02/2023	1.308353	0.820358	0.775769	0.768360	0.521457	0.597857
20/02/2023	1.302797	0.817289	0.772810	0.765773	0.522263	0.601449
21/02/2023	1.297359	0.814487	0.770100	0.763359	0.520710	0.600176
22/02/2023	1.291673	0.811707	0.767330	0.760987	0.519477	0.600911
23/02/2023	1.288634	0.810389	0.765926	0.759308	0.530231	0.601806
24/02/2023	1.287751	0.811049	0.765974	0.758561	0.544155	0.602125
25/02/2023	1.285556	0.811929	0.765806	0.758021	0.549786	0.602213
26/02/2023	1.281198	0.811104	0.764363	0.756917	0.546304	0.599855
27/02/2023	1.275662	0.808362	0.761764	0.755018	0.539414	0.597103
28/02/2023	1.270436	0.805104	0.758987	0.752736	0.536138	0.601088
01/03/2023	1.266351	0.802643	0.756926	0.750702	0.537078	0.601888
02/03/2023	1.262229	0.800468	0.755067	0.748962	0.532964	0.589719
03/03/2023	1.257524	0.797904	0.752757	0.747175	0.527617	0.578396
04/03/2023	1.252428	0.794655	0.749895	0.745097	0.519721	0.562689

05/03/2023	1.247247	0.790997	0.746687	0.742747	0.511989	0.546289
06/03/2023	1.242126	0.787291	0.743362	0.740277	0.504776	0.530576
07/03/2023	1.237081	0.783709	0.740046	0.737814	0.498175	0.516107
08/03/2023	1.232096	0.780254	0.736774	0.735404	0.492074	0.503062
09/03/2023	1.227163	0.776911	0.733560	0.733045	0.486593	0.492304
10/03/2023	1.222279	0.773625	0.730396	0.730723	0.481072	0.481793
11/03/2023	1.217442	0.770378	0.727263	0.728427	0.475823	0.472117
12/03/2023	1.212653	0.767203	0.724176	0.726156	0.470996	0.464186
13/03/2023	1.207914	0.764075	0.721138	0.723917	0.465962	0.455926
14/03/2023	1.204973	0.762190	0.719166	0.722154	0.468661	0.467311
15/03/2023	1.203942	0.762196	0.718809	0.721267	0.474563	0.487463
16/03/2023	1.202140	0.762771	0.718798	0.720825	0.477890	0.503351
17/03/2023	1.198758	0.762235	0.717993	0.720149	0.476975	0.507959
18/03/2023	1.196902	0.761737	0.717594	0.719528	0.482298	0.520909
19/03/2023	1.195027	0.761238	0.717178	0.718900	0.481922	0.518139
20/03/2023	1.191978	0.760028	0.715957	0.717957	0.479257	0.508152
21/03/2023	1.187977	0.757718	0.713847	0.716515	0.474942	0.495870
22/03/2023	1.183689	0.755029	0.711418	0.714709	0.473604	0.496450
23/03/2023	1.179469	0.752239	0.709044	0.712831	0.469258	0.489873
24/03/2023	1.175385	0.749782	0.706849	0.711049	0.468928	0.494437
25/03/2023	1.171412	0.747559	0.704867	0.709407	0.467212	0.497125
26/03/2023	1.169198	0.746361	0.703890	0.708271	0.470840	0.511030
27/03/2023	1.167094	0.745506	0.703254	0.707477	0.469825	0.510439
28/03/2023	1.164132	0.744126	0.702096	0.706579	0.467383	0.503055
29/03/2023	1.160474	0.741851	0.700220	0.705292	0.462871	0.490287
30/03/2023	1.157778	0.739959	0.698676	0.703968	0.464312	0.496068
31/03/2023	1.158655	0.740687	0.699515	0.703781	0.473255	0.512633
01/04/2023	1.159437	0.743046	0.701173	0.704405	0.480586	0.529024
02/04/2023	1.159061	0.745161	0.702402	0.705079	0.488353	0.547194
03/04/2023	1.162465	0.748341	0.705581	0.706725	0.502052	0.568090
04/04/2023	1.167453	0.752865	0.709842	0.709155	0.521267	0.592941
05/04/2023	1.171392	0.757669	0.713643	0.711586	0.538581	0.600488
06/04/2023	1.171781	0.760152	0.715209	0.712915	0.539866	0.583686
07/04/2023	1.169541	0.759933	0.714638	0.712782	0.538067	0.579323
08/04/2023	1.168884	0.759575	0.714498	0.712350	0.546852	0.586900
09/04/2023	1.168160	0.759580	0.714550	0.712031	0.548475	0.583245
10/04/2023	1.166007	0.758895	0.713754	0.711516	0.542814	0.569362
11/04/2023	1.162673	0.756735	0.711833	0.710439	0.532985	0.547253
12/04/2023	1.158885	0.753511	0.709173	0.708793	0.523023	0.523998
13/04/2023	1.155063	0.750124	0.706299	0.706857	0.515042	0.505785
14/04/2023	1.152602	0.747990	0.704338	0.705260	0.514511	0.510120
15/04/2023	1.153671	0.748811	0.705009	0.705064	0.525113	0.525857
16/04/2023	1.154439	0.750702	0.706286	0.705682	0.529793	0.524102
17/04/2023	1.152902	0.751168	0.706157	0.705901	0.527728	0.513728
18/04/2023	1.149628	0.749303	0.704350	0.705079	0.520102	0.495693
19/04/2023	1.145748	0.745998	0.701580	0.703385	0.511348	0.476505
20/04/2023	1.141851	0.742441	0.698555	0.701337	0.503202	0.459134
21/04/2023	1.138036	0.739166	0.695594	0.699311	0.495989	0.443789

22/04/2023	1.134261	0.736159	0.692737	0.697410	0.489577	0.430311
23/04/2023	1.130489	0.733279	0.689946	0.695589	0.483755	0.418650
24/04/2023	1.126712	0.730430	0.687183	0.693788	0.478092	0.407775
25/04/2023	1.122930	0.727622	0.684445	0.691983	0.472900	0.398653
26/04/2023	1.119149	0.724844	0.681731	0.690183	0.467591	0.389615
27/04/2023	1.115375	0.722094	0.679036	0.688393	0.462456	0.381120
28/04/2023	1.111611	0.719373	0.676363	0.686616	0.457423	0.373177
29/04/2023	1.107865	0.716739	0.673742	0.684859	0.453027	0.367528
30/04/2023	1.104142	0.714148	0.671177	0.683130	0.448268	0.361186
01/05/2023	1.100439	0.711538	0.668625	0.681419	0.443443	0.353951
02/05/2023	1.096752	0.708899	0.666063	0.679710	0.438634	0.346666
03/05/2023	1.093076	0.706261	0.663506	0.677997	0.433894	0.339759
04/05/2023	1.090829	0.704780	0.661904	0.676668	0.436793	0.355054
05/05/2023	1.090841	0.705439	0.662174	0.676284	0.444883	0.379706
06/05/2023	1.090350	0.706663	0.662839	0.676431	0.447323	0.387276
07/05/2023	1.095555	0.710404	0.666815	0.678521	0.457152	0.405832
08/05/2023	1.100633	0.714773	0.671161	0.681387	0.458965	0.405237
09/05/2023	1.101601	0.716980	0.672840	0.683130	0.456651	0.396761
10/05/2023	1.099210	0.715984	0.671634	0.682944	0.451761	0.385028
11/05/2023	1.095547	0.712941	0.668901	0.681307	0.446276	0.373103
12/05/2023	1.091795	0.709453	0.665872	0.679157	0.441069	0.362549
13/05/2023	1.088197	0.706296	0.663049	0.677110	0.436294	0.353577
14/05/2023	1.085141	0.704162	0.660913	0.675459	0.437244	0.365098
15/05/2023	1.082202	0.702628	0.659342	0.674170	0.436658	0.371898
16/05/2023	1.082884	0.703311	0.660060	0.674098	0.445357	0.391347
17/05/2023	1.085702	0.706318	0.662544	0.675204	0.456398	0.415437
18/05/2023	1.086630	0.708946	0.664378	0.676378	0.458772	0.417419
19/05/2023	1.084922	0.709367	0.664366	0.676636	0.459048	0.417732
20/05/2023	1.081804	0.707452	0.662853	0.675799	0.454196	0.406805
21/05/2023	1.081432	0.706540	0.662478	0.675133	0.460848	0.415920
22/05/2023	1.081496	0.707296	0.662991	0.674990	0.466454	0.428447
23/05/2023	1.080166	0.707760	0.663017	0.674924	0.465366	0.423871
24/05/2023	1.077555	0.706540	0.661887	0.674370	0.461754	0.412987
25/05/2023	1.074415	0.703831	0.659886	0.673176	0.456536	0.399005
26/05/2023	1.071204	0.700556	0.657543	0.671594	0.451120	0.385020
27/05/2023	1.070830	0.699377	0.656889	0.670709	0.457806	0.394869
28/05/2023	1.070758	0.699752	0.657118	0.670526	0.460100	0.395784
29/05/2023	1.069281	0.699686	0.656749	0.670366	0.458500	0.389759
30/05/2023	1.066571	0.698055	0.655319	0.669664	0.454283	0.379792
31/05/2023	1.063372	0.695257	0.653186	0.668371	0.449066	0.368539
01/06/2023	1.060110	0.691930	0.650702	0.666747	0.441815	0.348835
02/06/2023	1.056855	0.688413	0.648002	0.665008	0.434798	0.328416
03/06/2023	1.053563	0.684886	0.645181	0.663236	0.427984	0.309747
04/06/2023	1.050250	0.682063	0.642601	0.661520	0.427182	0.312306
05/06/2023	1.046946	0.679467	0.640275	0.659944	0.421367	0.302194
06/06/2023	1.043635	0.676690	0.637864	0.658425	0.415922	0.289720
07/06/2023	1.040300	0.673822	0.635329	0.656846	0.411355	0.281357
08/06/2023	1.038648	0.672379	0.633901	0.655660	0.415332	0.297504

09/06/2023	1.037108	0.671599	0.633075	0.654894	0.413134	0.294368
10/06/2023	1.034713	0.670255	0.631765	0.654128	0.409037	0.284504
12/06/2023	1.027949	0.664766	0.627029	0.651374	0.395834	0.256939
15/06/2023	1.017956	0.655661	0.619192	0.646390	0.376319	0.221614
19/06/2023	1.003805	0.643578	0.608207	0.639252	0.350839	0.186250
20/06/2023	1.000321	0.640849	0.605617	0.637580	0.345146	0.180445
21/06/2023	0.996885	0.638255	0.603143	0.635981	0.339990	0.176404
22/06/2023	0.993492	0.635705	0.600754	0.634424	0.334694	0.172030
23/06/2023	0.990132	0.633160	0.598402	0.632878	0.329581	0.167833
24/06/2023	0.990362	0.633170	0.598326	0.632366	0.337798	0.190612
25/06/2023	0.991035	0.634685	0.599258	0.632676	0.338792	0.195041
26/06/2023	0.989942	0.635432	0.599274	0.632871	0.337092	0.193826
27/06/2023	0.987282	0.634224	0.597917	0.632295	0.332449	0.188458
28/06/2023	0.984028	0.631860	0.595845	0.630999	0.329350	0.188925
29/06/2023	0.980779	0.629331	0.593730	0.629442	0.325558	0.188963
30/06/2023	0.977658	0.626896	0.591707	0.627949	0.320802	0.184560
01/07/2023	0.974642	0.625008	0.589909	0.626602	0.321430	0.194322
02/07/2023	0.971692	0.623043	0.588225	0.625371	0.315944	0.188584
03/07/2023	0.968764	0.620742	0.586367	0.624126	0.311468	0.180346
04/07/2023	0.965826	0.618227	0.584313	0.622774	0.306698	0.172277
05/07/2023	0.962868	0.615650	0.582163	0.621331	0.301231	0.162790
06/07/2023	0.959895	0.613153	0.579997	0.619866	0.296479	0.155513
07/07/2023	0.956932	0.611000	0.577975	0.618448	0.294250	0.156838
08/07/2023	0.953994	0.608877	0.576061	0.617112	0.289238	0.151550
10/07/2023	0.948163	0.604344	0.572092	0.614454	0.280500	0.140422
11/07/2023	0.945259	0.601971	0.570030	0.613085	0.275780	0.134266
12/07/2023	0.942372	0.599834	0.568056	0.611714	0.273253	0.134795
13/07/2023	0.939525	0.598001	0.566289	0.610418	0.270965	0.137750
14/07/2023	0.936724	0.596107	0.564593	0.609209	0.266713	0.134314
15/07/2023	0.933949	0.594045	0.562813	0.608004	0.263023	0.130489
16/07/2023	0.931186	0.591857	0.560944	0.606746	0.258678	0.125243
18/07/2023	0.925032	0.586981	0.556704	0.603845	0.249152	0.114072
20/07/2023	0.920217	0.583256	0.553392	0.601569	0.241897	0.106450
24/07/2023	0.909107	0.574931	0.545914	0.596422	0.226138	0.093133
26/07/2023	0.904159	0.571323	0.542668	0.594171	0.219536	0.088847
27/07/2023	0.908755	0.573386	0.545388	0.595185	0.229623	0.114209
28/07/2023	0.923239	0.582347	0.555113	0.600443	0.244692	0.146948
29/07/2023	0.935508	0.593162	0.564951	0.607235	0.249816	0.154559
30/07/2023	0.947797	0.603823	0.574457	0.614208	0.263521	0.181961
31/07/2023	0.956388	0.612199	0.581544	0.619514	0.274414	0.213149
01/08/2023	0.959166	0.616324	0.584680	0.622128	0.276446	0.220714
02/08/2023	0.957897	0.616190	0.584362	0.622257	0.275320	0.219240
03/08/2023	0.955128	0.613910	0.582431	0.620895	0.275537	0.223796
04/08/2023	0.952391	0.611711	0.580593	0.619210	0.277677	0.238139
05/08/2023	0.949930	0.609822	0.579172	0.617829	0.275882	0.235987
06/08/2023	0.947565	0.607899	0.577743	0.616696	0.274150	0.230254
08/08/2023	0.942680	0.603567	0.574427	0.614316	0.268712	0.215153
09/08/2023	0.940143	0.601312	0.572634	0.613016	0.265945	0.207978

10/08/2023	0.940574	0.601328	0.572742	0.612549	0.275453	0.225650
11/08/2023	0.947424	0.606177	0.577453	0.614646	0.291050	0.253223
12/08/2023	0.953567	0.612540	0.582834	0.618003	0.297254	0.258575
13/08/2023	0.955248	0.616155	0.585385	0.620368	0.297847	0.254187
15/08/2023	0.951644	0.614350	0.583763	0.620168	0.291526	0.235632
16/08/2023	0.948388	0.610785	0.581130	0.618316	0.286984	0.224535
17/08/2023	0.948947	0.609946	0.580839	0.617395	0.295491	0.240186
18/08/2023	0.950198	0.611322	0.581899	0.617622	0.297829	0.240676
19/08/2023	0.948986	0.612341	0.582062	0.617962	0.297637	0.233951
22/08/2023	0.943891	0.608818	0.579007	0.616330	0.290910	0.217828
23/08/2023	0.940971	0.605994	0.576858	0.614873	0.286880	0.209336
24/08/2023	0.938131	0.603298	0.574723	0.613320	0.283530	0.203273
25/08/2023	0.936223	0.601920	0.573466	0.612153	0.287540	0.222229
26/08/2023	0.934494	0.601324	0.572914	0.611454	0.288530	0.231629
27/08/2023	0.932459	0.600433	0.572266	0.610926	0.286954	0.230255
28/08/2023	0.930125	0.598812	0.571116	0.610214	0.284312	0.223902
29/08/2023	0.927663	0.596713	0.569572	0.609212	0.280880	0.215301
30/08/2023	0.925226	0.595111	0.568153	0.608103	0.283018	0.225897
31/08/2023	0.951053	0.605612	0.583617	0.615999	0.293172	0.248216
01/09/2023	0.981772	0.625023	0.604999	0.629927	0.303709	0.276531
02/09/2023	0.997853	0.640960	0.618692	0.641598	0.307481	0.289469
03/09/2023	1.000242	0.646981	0.622048	0.646436	0.310960	0.304463
04/09/2023	0.997029	0.645357	0.619570	0.645542	0.311435	0.312663
05/09/2023	0.993227	0.641156	0.615791	0.642446	0.310076	0.312612
06/09/2023	0.989993	0.637417	0.612616	0.639603	0.308816	0.310263
07/09/2023	0.988237	0.635570	0.610934	0.637915	0.313311	0.325309
08/09/2023	0.986677	0.634686	0.610076	0.637031	0.314254	0.329422
09/09/2023	0.987410	0.635530	0.610765	0.637046	0.325209	0.347508
10/09/2023	0.988826	0.637722	0.612380	0.637646	0.335495	0.370313
11/09/2023	0.989738	0.640136	0.614158	0.638435	0.344581	0.394648
12/09/2023	0.989030	0.641053	0.615053	0.638866	0.346654	0.398603
13/09/2023	0.986997	0.640220	0.614729	0.638608	0.347558	0.398501
14/09/2023	0.998286	0.642160	0.618202	0.640117	0.356089	0.408510
15/09/2023	1.013784	0.648508	0.624812	0.643770	0.370820	0.425425
16/09/2023	1.022231	0.655326	0.630053	0.647477	0.378478	0.429658
17/09/2023	1.023403	0.659166	0.632249	0.649532	0.384477	0.441744
18/09/2023	1.020830	0.659204	0.632030	0.649666	0.384167	0.438740
19/09/2023	1.023046	0.659698	0.633328	0.649965	0.392977	0.448231
20/09/2023	1.026059	0.661704	0.635435	0.650864	0.399215	0.454915
21/09/2023	1.026365	0.663187	0.636441	0.651605	0.399325	0.447632
22/09/2023	1.024200	0.662606	0.635750	0.651476	0.397340	0.435439
23/09/2023	1.021059	0.660342	0.633961	0.650444	0.394180	0.421638
24/09/2023	1.018767	0.658389	0.632511	0.649221	0.396540	0.427942
25/09/2023	1.016676	0.657031	0.631546	0.648246	0.395755	0.424708
26/09/2023	1.014219	0.655673	0.630485	0.647436	0.394228	0.416924
27/09/2023	1.011409	0.653860	0.629034	0.646527	0.391624	0.406208
28/09/2023	1.008458	0.651677	0.627278	0.645405	0.388607	0.394753
29/09/2023	1.005495	0.649408	0.625403	0.644145	0.385583	0.384167

30/09/2023	1.002550	0.647220	0.623522	0.642863	0.382698	0.374985
01/10/2023	1.000676	0.645991	0.622402	0.641905	0.385485	0.386080
02/10/2023	1.001776	0.647226	0.623494	0.642068	0.395742	0.406239
03/10/2023	1.003676	0.650320	0.625858	0.643182	0.405833	0.429848
04/10/2023	1.003802	0.652780	0.627596	0.644311	0.409241	0.438539
05/10/2023	1.002072	0.653079	0.627864	0.644695	0.408840	0.437926
06/10/2023	0.999503	0.651563	0.626988	0.644220	0.406575	0.432704
07/10/2023	0.996838	0.649400	0.625636	0.643246	0.404043	0.426651
08/10/2023	0.994299	0.647364	0.624243	0.642171	0.401800	0.421466
09/10/2023	0.991866	0.645609	0.622942	0.641186	0.399853	0.417312
10/10/2023	0.989488	0.644004	0.621715	0.640299	0.398067	0.413847
11/10/2023	0.987139	0.642431	0.620519	0.639453	0.396334	0.410760
12/10/2023	0.984809	0.640859	0.619329	0.638609	0.394608	0.407889
13/10/2023	0.982499	0.639296	0.618139	0.637759	0.392879	0.405185
14/10/2023	0.980210	0.637766	0.616961	0.636912	0.391244	0.402966
15/10/2023	0.977947	0.636285	0.615809	0.636079	0.389746	0.401437
16/10/2023	0.975714	0.634828	0.614681	0.635266	0.388062	0.399453
17/10/2023	0.973509	0.633380	0.613563	0.634466	0.386407	0.397416
18/10/2023	0.971330	0.631941	0.612451	0.633672	0.384728	0.395369
19/10/2023	0.969445	0.630864	0.611602	0.632970	0.385777	0.403487
20/10/2023	0.967629	0.629966	0.610966	0.632390	0.385173	0.406279
21/10/2023	0.967220	0.629910	0.611148	0.632224	0.389566	0.419961
22/10/2023	0.968972	0.631563	0.612834	0.632872	0.398174	0.438553
23/10/2023	0.970089	0.633701	0.614669	0.633870	0.402235	0.445166
24/10/2023	0.972405	0.636570	0.617146	0.635295	0.412418	0.457698
25/10/2023	0.976056	0.640490	0.620442	0.637175	0.424098	0.473118
26/10/2023	0.979587	0.644844	0.623903	0.639242	0.434250	0.490148
27/10/2023	0.980822	0.647690	0.626159	0.640812	0.437012	0.492420
28/10/2023	0.983862	0.650396	0.629004	0.642536	0.445771	0.500847
29/10/2023	0.990984	0.655411	0.634188	0.645473	0.458908	0.513326
30/10/2023	1.010152	0.663648	0.641785	0.650080	0.474485	0.529185
31/10/2023	1.025978	0.671457	0.647893	0.654515	0.481872	0.535559
01/11/2023	1.031521	0.675371	0.650421	0.657035	0.482688	0.534035
02/11/2023	1.030024	0.675130	0.650097	0.657375	0.480629	0.528895
03/11/2023	1.026331	0.672695	0.648572	0.656403	0.477751	0.523083
04/11/2023	1.023898	0.670544	0.647564	0.655371	0.478635	0.529130
05/11/2023	1.022106	0.669238	0.647146	0.654749	0.478534	0.532882
06/11/2023	1.020125	0.668182	0.646729	0.654359	0.477389	0.531841
07/11/2023	1.017851	0.666810	0.645987	0.653885	0.475521	0.527842
08/11/2023	1.015471	0.665088	0.644978	0.653204	0.473595	0.523855
09/11/2023	1.014698	0.665041	0.645531	0.653191	0.481439	0.530517
10/11/2023	1.021032	0.668248	0.648510	0.654575	0.497460	0.543789
11/11/2023	1.027030	0.672478	0.651537	0.656480	0.508323	0.550318
12/11/2023	1.040342	0.677273	0.655849	0.659904	0.522878	0.560307
13/11/2023	1.051185	0.681230	0.659909	0.663564	0.526704	0.562894
14/11/2023	1.054480	0.683108	0.662004	0.665833	0.522889	0.559700
15/11/2023	1.052432	0.682686	0.661958	0.666174	0.516652	0.555760
16/11/2023	1.048652	0.680798	0.660669	0.665171	0.510116	0.550040

17/11/2023	1.045031	0.678642	0.659102	0.663748	0.506068	0.548716
18/11/2023	1.042574	0.677147	0.658118	0.662651	0.505045	0.555618
19/11/2023	1.040444	0.676112	0.657531	0.661962	0.502992	0.557829
20/11/2023	1.038091	0.675021	0.656869	0.661400	0.500675	0.557135
21/11/2023	1.035510	0.673556	0.655920	0.660715	0.497320	0.552405
22/11/2023	1.032858	0.671798	0.654737	0.659853	0.493903	0.546484
23/11/2023	1.030231	0.669955	0.653458	0.658891	0.490546	0.540533
24/11/2023	1.027654	0.668152	0.652174	0.657922	0.487367	0.535066
25/11/2023	1.025123	0.666409	0.650908	0.656984	0.484356	0.530158
26/11/2023	1.022633	0.664702	0.649661	0.656075	0.481482	0.525740
27/11/2023	1.020181	0.663012	0.648429	0.655182	0.478689	0.521630
28/11/2023	1.017765	0.661334	0.647208	0.654299	0.475961	0.517747
30/11/2023	1.013037	0.658025	0.644800	0.652557	0.470672	0.510620
01/12/2023	1.010723	0.656395	0.643614	0.651700	0.468096	0.507328
02/12/2023	1.008442	0.654788	0.642441	0.650854	0.465568	0.504216
03/12/2023	1.008942	0.654895	0.642818	0.650746	0.471546	0.512542
04/12/2023	1.009701	0.656223	0.643834	0.651183	0.474494	0.516400
05/12/2023	1.009063	0.657146	0.644257	0.651538	0.474670	0.517108
06/12/2023	1.009131	0.657731	0.644772	0.651844	0.478110	0.525679
07/12/2023	1.010420	0.658837	0.645997	0.652390	0.484127	0.539780
08/12/2023	1.034083	0.664002	0.653383	0.659143	0.496585	0.556159
09/12/2023	1.058499	0.671829	0.663759	0.669326	0.505308	0.567520
10/12/2023	1.069306	0.678231	0.671433	0.677242	0.506893	0.571032
11/12/2023	1.068938	0.680524	0.674025	0.680023	0.503598	0.567541
12/12/2023	1.064485	0.679462	0.673017	0.678731	0.500303	0.566658
13/12/2023	1.066393	0.679147	0.672952	0.677726	0.507296	0.573825
14/12/2023	1.069560	0.680517	0.674011	0.678011	0.512705	0.576665
15/12/2023	1.069734	0.681936	0.674618	0.678472	0.512946	0.575344
16/12/2023	1.067181	0.681882	0.674003	0.678097	0.509177	0.570612
17/12/2023	1.064762	0.681098	0.673107	0.677074	0.508372	0.575525
18/12/2023	1.069847	0.682237	0.674405	0.677683	0.519259	0.589999
19/12/2023	1.075112	0.684929	0.676638	0.679390	0.524837	0.595325
20/12/2023	1.075982	0.686898	0.677801	0.680566	0.523449	0.592374
21/12/2023	1.074525	0.687560	0.677928	0.680623	0.522689	0.596429
22/12/2023	1.071902	0.687191	0.677286	0.679759	0.519422	0.597127
23/12/2023	1.068728	0.686133	0.676075	0.678449	0.514833	0.592601
24/12/2023	1.065369	0.684485	0.674493	0.677009	0.510018	0.585473
25/12/2023	1.062720	0.682940	0.673178	0.675736	0.508545	0.588019
26/12/2023	1.067702	0.683836	0.674414	0.676566	0.519294	0.598575
27/12/2023	1.082857	0.688752	0.679533	0.681186	0.539664	0.599742
28/12/2023	1.094743	0.695046	0.685296	0.686754	0.549197	0.599818
29/12/2023	1.108418	0.701342	0.691439	0.693007	0.561063	0.599942
30/12/2023	1.117064	0.705896	0.696098	0.697801	0.561674	0.595737
31/12/2023	1.118125	0.707800	0.697938	0.699646	0.554864	0.590705
01/01/2024	1.113222	0.706780	0.696724	0.698258	0.543409	0.585020
02/01/2024	1.109636	0.705302	0.695136	0.696499	0.537684	0.582883
03/01/2024	1.105475	0.703552	0.693070	0.694298	0.531071	0.578709
04/01/2024	1.101602	0.702144	0.691112	0.692389	0.525292	0.573693

05/01/2024	1.106590	0.703457	0.692329	0.692986	0.533834	0.579940
06/01/2024	1.112425	0.706553	0.694981	0.695048	0.537595	0.582587
07/01/2024	1.113549	0.708997	0.696434	0.696474	0.536204	0.584370
08/01/2024	1.111934	0.709968	0.696541	0.696528	0.536472	0.595437
09/01/2024	1.108884	0.709654	0.695641	0.695460	0.534040	0.599136
10/01/2024	1.129960	0.712423	0.700424	0.701603	0.543763	0.599908
11/01/2024	1.153107	0.718146	0.708971	0.711864	0.547047	0.596278
12/01/2024	1.162550	0.723483	0.715615	0.719495	0.543477	0.591360
13/01/2024	1.160443	0.725629	0.717474	0.721454	0.536719	0.586851
14/01/2024	1.154092	0.724663	0.715658	0.719034	0.529542	0.582222
15/01/2024	1.147732	0.722384	0.712533	0.715108	0.523372	0.577716
16/01/2024	1.142249	0.720206	0.709508	0.711580	0.518283	0.573346
17/01/2024	1.140165	0.720477	0.708546	0.709235	0.526842	0.581303
18/01/2024	1.138617	0.722230	0.708271	0.707754	0.531464	0.586583
19/01/2024	1.151513	0.726320	0.711561	0.711122	0.544502	0.599365
20/01/2024	1.164620	0.731128	0.716507	0.716811	0.548561	0.599638
21/01/2024	1.196016	0.738674	0.726760	0.729301	0.559534	0.600491
22/01/2024	1.243107	0.750599	0.743681	0.749334	0.576174	0.601233
23/01/2024	1.274008	0.762962	0.759585	0.767100	0.580182	0.600555
24/01/2024	1.280407	0.770712	0.767733	0.775225	0.575504	0.601411
25/01/2024	1.303542	0.779994	0.779609	0.783625	0.580996	0.602354
26/01/2024	1.330327	0.792012	0.793517	0.793464	0.590950	0.602915
27/01/2024	1.372529	0.814220	0.819253	0.809616	0.606164	0.603600
28/01/2024	1.404152	0.838223	0.842541	0.825662	0.612267	0.604413
29/01/2024	1.421345	0.854057	0.853988	0.836227	0.621756	0.605082
30/01/2024	1.427825	0.859902	0.855732	0.839722	0.632058	0.605417
31/01/2024	1.438018	0.864741	0.859486	0.841235	0.644564	0.605511
01/02/2024	1.444487	0.870597	0.863532	0.842209	0.649296	0.605579
02/02/2024	1.441052	0.873659	0.863126	0.841111	0.641051	0.603109
03/02/2024	1.430684	0.871672	0.857755	0.837036	0.627252	0.602215
04/02/2024	1.418329	0.866239	0.849883	0.830830	0.612721	0.601795
05/02/2024	1.406487	0.860089	0.841820	0.824063	0.600116	0.601590
06/02/2024	1.395528	0.854597	0.834471	0.817763	0.589335	0.601128
07/02/2024	1.386522	0.850618	0.828537	0.812461	0.587573	0.603359
08/02/2024	1.377970	0.847487	0.823411	0.807900	0.584044	0.602497
09/02/2024	1.369033	0.844364	0.818359	0.803582	0.580140	0.603243
10/02/2024	1.362236	0.842448	0.814642	0.799634	0.588537	0.603631
11/02/2024	1.355988	0.841405	0.811424	0.796062	0.593508	0.603673
12/02/2024	1.348758	0.839701	0.807595	0.792585	0.589184	0.601398
13/02/2024	1.346124	0.838453	0.804910	0.790050	0.596010	0.602917
14/02/2024	1.343652	0.837436	0.802669	0.788072	0.595389	0.601440
15/02/2024	1.339458	0.836325	0.800291	0.786072	0.594962	0.602872
16/02/2024	1.334152	0.835017	0.798006	0.783840	0.594243	0.603417
17/02/2024	1.327658	0.832945	0.795219	0.781250	0.588241	0.601445
18/02/2024	1.321077	0.830375	0.792063	0.778467	0.584619	0.602726
19/02/2024	1.314273	0.827247	0.788618	0.775573	0.578190	0.601566
20/02/2024	1.309463	0.824479	0.785633	0.772838	0.577819	0.602596
21/02/2024	1.304725	0.822104	0.782858	0.770283	0.576112	0.602881

22/02/2024	1.300146	0.820496	0.780787	0.768209	0.579688	0.602867
23/02/2024	1.295754	0.819468	0.779287	0.766688	0.582848	0.602918
24/02/2024	1.311639	0.825963	0.788184	0.770782	0.594283	0.603067
25/02/2024	1.329234	0.836431	0.799427	0.777916	0.596838	0.602267
26/02/2024	1.334916	0.843165	0.804528	0.782800	0.590472	0.601076
27/02/2024	1.330593	0.842992	0.802677	0.783024	0.581603	0.601624
28/02/2024	1.323049	0.838609	0.797632	0.779856	0.575719	0.602818
29/02/2024	1.316028	0.833815	0.792700	0.775836	0.573033	0.603066
01/03/2024	1.311644	0.831059	0.789726	0.772899	0.578610	0.603133
02/03/2024	1.307330	0.829206	0.787460	0.770916	0.576313	0.595775
03/03/2024	1.301791	0.826862	0.784641	0.768961	0.571705	0.598243
04/03/2024	1.296436	0.824110	0.781707	0.766789	0.569684	0.602407
05/03/2024	1.290910	0.820942	0.778641	0.764417	0.563100	0.596874
06/03/2024	1.330193	0.830686	0.794375	0.776248	0.571487	0.601618
07/03/2024	1.374702	0.849104	0.817445	0.796380	0.572317	0.599960
08/03/2024	1.394016	0.863304	0.831762	0.811445	0.566408	0.594007
09/03/2024	1.391658	0.866511	0.833174	0.815398	0.557030	0.585894
10/03/2024	1.381205	0.861666	0.826922	0.810883	0.550132	0.587142
11/03/2024	1.370489	0.854408	0.819020	0.803613	0.542031	0.582300
12/03/2024	1.361146	0.848034	0.812078	0.797208	0.535258	0.575181
13/03/2024	1.355099	0.844526	0.807590	0.792961	0.540596	0.587684
14/03/2024	1.349658	0.842588	0.804275	0.790044	0.541833	0.592194
15/03/2024	1.343693	0.840768	0.801004	0.787379	0.543899	0.601907
16/03/2024	1.336850	0.837897	0.797217	0.784372	0.539621	0.599762
17/03/2024	1.329478	0.833948	0.792840	0.780940	0.533197	0.590658
18/03/2024	1.322020	0.829559	0.788217	0.777284	0.527777	0.585340
19/03/2024	1.314712	0.825104	0.783639	0.773646	0.521322	0.575313
20/03/2024	1.307610	0.820777	0.779172	0.770138	0.515759	0.564397
21/03/2024	1.300696	0.816604	0.774812	0.766755	0.510527	0.553309
22/03/2024	1.293945	0.812562	0.770555	0.763464	0.505558	0.542588
23/03/2024	1.287347	0.808743	0.766460	0.760266	0.501999	0.537420
24/03/2024	1.280904	0.805088	0.762558	0.757185	0.498230	0.532783
25/03/2024	1.275658	0.802269	0.759460	0.754501	0.499322	0.545120
26/03/2024	1.270905	0.800263	0.757116	0.752269	0.500575	0.562478
27/03/2024	1.269428	0.800386	0.756921	0.751272	0.511070	0.587492
28/03/2024	1.267844	0.801255	0.757087	0.750886	0.517434	0.595776
29/03/2024	1.264168	0.800845	0.755912	0.750041	0.517395	0.590423
30/03/2024	1.258907	0.798388	0.753246	0.748246	0.512386	0.576445
31/03/2024	1.253157	0.794653	0.749784	0.745718	0.505927	0.560656
01/04/2024	1.247492	0.790593	0.746093	0.742919	0.499098	0.538895
02/04/2024	1.241996	0.786696	0.742361	0.740136	0.492968	0.516982
03/04/2024	1.236606	0.783006	0.738636	0.737430	0.487351	0.496263
04/04/2024	1.231279	0.779436	0.734932	0.734776	0.482089	0.477459
05/04/2024	1.225997	0.775929	0.731256	0.732152	0.477037	0.460705
06/04/2024	1.220757	0.772471	0.727613	0.729552	0.472115	0.445725
07/04/2024	1.215561	0.769070	0.724010	0.726982	0.467303	0.432221
08/04/2024	1.210417	0.765821	0.720502	0.724459	0.463506	0.423108
09/04/2024	1.205331	0.762640	0.717089	0.721999	0.458928	0.412712

10/04/2024	1.200301	0.759472	0.713721	0.719588	0.454542	0.402620
11/04/2024	1.195319	0.756303	0.710376	0.717204	0.450094	0.392891
12/04/2024	1.190384	0.753154	0.707067	0.714841	0.445671	0.383719
13/04/2024	1.185495	0.750046	0.703807	0.712507	0.441328	0.375295
14/04/2024	1.180653	0.747030	0.700622	0.710214	0.437474	0.368963
15/04/2024	1.175863	0.744069	0.697509	0.707971	0.433315	0.362266
16/04/2024	1.171142	0.741414	0.694576	0.705798	0.432051	0.365177
17/04/2024	1.167569	0.739767	0.692582	0.704024	0.434927	0.383632
18/04/2024	1.164174	0.738649	0.691186	0.702644	0.435936	0.393863
19/04/2024	1.160367	0.737376	0.689713	0.701372	0.436384	0.401318
20/04/2024	1.160096	0.737805	0.690147	0.701055	0.444663	0.418559
21/04/2024	1.160187	0.739511	0.691321	0.701352	0.451135	0.433213
22/04/2024	1.158381	0.740429	0.691533	0.701400	0.451890	0.434792
23/04/2024	1.154932	0.739260	0.690234	0.700629	0.448673	0.425711
24/04/2024	1.150860	0.736564	0.687928	0.699064	0.444941	0.415413
25/04/2024	1.146760	0.733396	0.685283	0.697107	0.440152	0.402674
26/04/2024	1.142751	0.730377	0.682627	0.695114	0.435691	0.390645
27/04/2024	1.138793	0.727592	0.680029	0.693216	0.431426	0.379864
28/04/2024	1.134853	0.724932	0.677473	0.691393	0.427312	0.370227
29/04/2024	1.130919	0.722308	0.674936	0.689598	0.423298	0.361559
30/04/2024	1.126991	0.719699	0.672411	0.687808	0.419347	0.353679
01/05/2024	1.123063	0.716986	0.669828	0.686007	0.414314	0.341253
02/05/2024	1.119124	0.714169	0.667128	0.684169	0.409288	0.328150
03/05/2024	1.115166	0.711311	0.664344	0.682286	0.404131	0.315325
04/05/2024	1.111191	0.708466	0.661534	0.680381	0.399016	0.303471
05/05/2024	1.107207	0.705663	0.658736	0.678482	0.394010	0.292869
06/05/2024	1.103221	0.702907	0.655965	0.676602	0.389130	0.283469
07/05/2024	1.099241	0.700192	0.653224	0.674743	0.384324	0.274967
08/05/2024	1.095278	0.697607	0.650561	0.672913	0.380579	0.270370
09/05/2024	1.091361	0.695378	0.648121	0.671156	0.379150	0.274304
10/05/2024	1.087506	0.693078	0.645832	0.669501	0.374787	0.270279
11/05/2024	1.083696	0.690511	0.643502	0.667881	0.371119	0.265533
12/05/2024	1.079916	0.687745	0.641098	0.666229	0.366955	0.259794
13/05/2024	1.076156	0.684809	0.638656	0.664536	0.362491	0.253118
14/05/2024	1.072413	0.681796	0.636199	0.662828	0.358074	0.246670
15/05/2024	1.072327	0.681367	0.636010	0.662179	0.366329	0.265951
16/05/2024	1.072718	0.683178	0.637043	0.662410	0.372858	0.284863
17/05/2024	1.071547	0.685164	0.637741	0.662735	0.378067	0.307617
18/05/2024	1.068898	0.685057	0.637315	0.662506	0.376324	0.308091
19/05/2024	1.065609	0.682803	0.635775	0.661530	0.372697	0.300196
20/05/2024	1.062215	0.679613	0.633626	0.660026	0.367766	0.288562
21/05/2024	1.058855	0.676477	0.631313	0.658341	0.362733	0.276669
22/05/2024	1.055519	0.673686	0.629033	0.656694	0.358112	0.266619
23/05/2024	1.052207	0.671483	0.626979	0.655173	0.357325	0.269681
24/05/2024	1.048925	0.669369	0.625102	0.653782	0.353138	0.264829
25/05/2024	1.045658	0.667078	0.623175	0.652427	0.349596	0.258696
26/05/2024	1.042390	0.664630	0.621137	0.651021	0.345695	0.251983
27/05/2024	1.039141	0.662565	0.619230	0.649600	0.345649	0.257950

28/05/2024	1.035934	0.660565	0.617482	0.648258	0.341555	0.254058
29/05/2024	1.032765	0.658504	0.615721	0.646974	0.339147	0.251623
30/05/2024	1.029966	0.657012	0.614327	0.645815	0.341626	0.267520
31/05/2024	1.027260	0.655614	0.613201	0.644808	0.339224	0.266900
01/06/2024	1.024451	0.653981	0.611930	0.643829	0.337280	0.264713
02/06/2024	1.021562	0.652457	0.610613	0.642790	0.338392	0.274397
03/06/2024	1.022736	0.653414	0.611806	0.642909	0.347238	0.295237
04/06/2024	1.024431	0.655773	0.613913	0.643893	0.350790	0.299843
05/06/2024	1.024102	0.657298	0.614885	0.644656	0.351837	0.301039
06/06/2024	1.021977	0.656907	0.614386	0.644530	0.350734	0.301077
07/06/2024	1.021822	0.656945	0.614645	0.644337	0.358689	0.317308
08/06/2024	1.021912	0.657933	0.615493	0.644415	0.364113	0.328354
09/06/2024	1.020793	0.658410	0.615785	0.644472	0.363381	0.325182
10/06/2024	1.018597	0.657666	0.615175	0.644112	0.363327	0.325722
11/06/2024	1.016016	0.656230	0.614171	0.643329	0.363705	0.332341
12/06/2024	1.013459	0.654395	0.613055	0.642370	0.360446	0.326059
13/06/2024	1.010972	0.652363	0.611759	0.641366	0.357393	0.316917
14/06/2024	1.008510	0.650578	0.610444	0.640349	0.357125	0.317636
15/06/2024	1.006056	0.648919	0.609225	0.639371	0.354489	0.313600
16/06/2024	1.003597	0.647127	0.607958	0.638421	0.351299	0.305517
17/06/2024	1.001114	0.645136	0.606528	0.637428	0.347838	0.296121
19/06/2024	0.995399	0.640470	0.602963	0.634973	0.339523	0.275615
20/06/2024	0.993473	0.638929	0.601722	0.634113	0.336742	0.269375
21/06/2024	0.990875	0.636914	0.600062	0.632968	0.333134	0.261965
22/06/2024	0.988264	0.634943	0.598412	0.631839	0.329638	0.255472
24/06/2024	0.983024	0.631077	0.595136	0.629600	0.322858	0.244350
25/06/2024	0.980401	0.629175	0.593514	0.628488	0.319552	0.239564
27/06/2024	0.975170	0.625435	0.590306	0.626279	0.313090	0.231107
29/06/2024	0.969976	0.621780	0.587158	0.624099	0.306827	0.223933
30/06/2024	0.967396	0.619988	0.585611	0.623022	0.303815	0.220907
01/07/2024	0.966664	0.619634	0.585223	0.622427	0.310438	0.240564
02/07/2024	0.966058	0.619772	0.585317	0.622245	0.309471	0.235628
03/07/2024	0.964514	0.619172	0.584738	0.621971	0.306692	0.223305
04/07/2024	0.962160	0.617386	0.583243	0.621218	0.301503	0.207128
05/07/2024	0.959472	0.614872	0.581194	0.620005	0.295583	0.190474
07/07/2024	0.953311	0.609126	0.576202	0.616830	0.282914	0.159876
08/07/2024	0.951189	0.607270	0.574471	0.615716	0.278853	0.151506
09/07/2024	0.948596	0.605804	0.572697	0.614439	0.281753	0.167617
10/07/2024	0.946102	0.604642	0.571372	0.613423	0.278857	0.166606
11/07/2024	0.943599	0.603120	0.569929	0.612493	0.275662	0.160532
12/07/2024	0.946834	0.604583	0.571783	0.613188	0.285222	0.182054
13/07/2024	0.950810	0.608158	0.574999	0.615018	0.288976	0.190061
14/07/2024	0.951848	0.610791	0.576719	0.616519	0.288520	0.188813
15/07/2024	0.953378	0.613070	0.578249	0.617636	0.298434	0.210339
16/07/2024	0.954207	0.614744	0.579393	0.618296	0.301048	0.213603
17/07/2024	0.953373	0.614988	0.579334	0.618343	0.298781	0.204828
18/07/2024	0.951254	0.613480	0.578000	0.617677	0.294028	0.191468
19/07/2024	0.948623	0.610872	0.575934	0.616445	0.288236	0.176868

20/07/2024	0.945932	0.608059	0.573671	0.614967	0.282717	0.163994
21/07/2024	0.943274	0.605451	0.571449	0.613490	0.277422	0.152658
22/07/2024	0.940618	0.603045	0.569289	0.612089	0.272476	0.142910
23/07/2024	0.937935	0.600723	0.567161	0.610737	0.267702	0.134351
24/07/2024	0.935223	0.598420	0.565046	0.609393	0.263030	0.126680
25/07/2024	0.932495	0.596226	0.562985	0.608056	0.259376	0.122561
26/07/2024	0.929761	0.594059	0.560972	0.606740	0.254820	0.116748
28/07/2024	0.923660	0.589212	0.556500	0.603836	0.245388	0.105055
31/07/2024	0.916141	0.583305	0.551060	0.600278	0.233896	0.092689
01/08/2024	0.913448	0.581323	0.549190	0.599019	0.230721	0.092320
02/08/2024	0.910784	0.579471	0.547437	0.597808	0.227532	0.092645
04/08/2024	0.905577	0.575980	0.544182	0.595538	0.221682	0.094057
05/08/2024	0.903036	0.574309	0.542649	0.594459	0.219028	0.095266
06/08/2024	0.900537	0.572692	0.541175	0.593404	0.216650	0.097026
07/08/2024	0.898080	0.571088	0.539744	0.592370	0.213955	0.097605
08/08/2024	0.895660	0.569481	0.538333	0.591354	0.211373	0.097824
09/08/2024	0.893274	0.567882	0.536940	0.590348	0.208816	0.097883
10/08/2024	0.890920	0.566304	0.535570	0.589353	0.206294	0.097817
11/08/2024	0.888598	0.564750	0.534226	0.588373	0.203809	0.097626
13/08/2024	0.883494	0.561343	0.531295	0.586229	0.198442	0.097059
15/08/2024	0.879603	0.558748	0.529084	0.584602	0.194423	0.096489
16/08/2024	0.877424	0.557295	0.527855	0.583695	0.192203	0.096124
17/08/2024	0.875272	0.555863	0.526649	0.582801	0.190078	0.095886
18/08/2024	0.873147	0.554449	0.525465	0.581921	0.187948	0.095510
19/08/2024	0.871047	0.553053	0.524302	0.581055	0.185898	0.095171
20/08/2024	0.868973	0.551673	0.523156	0.580200	0.183861	0.094745
21/08/2024	0.866926	0.550311	0.522029	0.579358	0.181896	0.094372
22/08/2024	0.864903	0.548974	0.520924	0.578528	0.180032	0.094195
23/08/2024	0.862905	0.547659	0.519843	0.577713	0.178177	0.093956
24/08/2024	0.860931	0.546354	0.518778	0.576910	0.176315	0.093514
25/08/2024	0.858983	0.545110	0.517749	0.576123	0.174991	0.094556
26/08/2024	0.857076	0.544124	0.516863	0.575382	0.175489	0.101580
27/08/2024	0.855219	0.543171	0.516092	0.574711	0.173971	0.103628
28/08/2024	0.853403	0.542085	0.515286	0.574068	0.172577	0.103489
29/08/2024	0.851636	0.541305	0.514596	0.573441	0.175106	0.115316
30/08/2024	0.850362	0.541296	0.514537	0.573033	0.179791	0.138551
31/08/2024	0.849232	0.541425	0.514829	0.572881	0.181308	0.147279
01/09/2024	0.853484	0.544254	0.518240	0.574400	0.193572	0.172796
02/09/2024	0.858323	0.548724	0.522636	0.576929	0.199623	0.185156
03/09/2024	0.860345	0.552203	0.525476	0.579023	0.202348	0.191459
04/09/2024	0.859876	0.553223	0.526293	0.579870	0.202503	0.194300
05/09/2024	0.861529	0.554468	0.527795	0.580488	0.212622	0.213409
06/09/2024	0.868652	0.559428	0.532894	0.582841	0.228594	0.239685
07/09/2024	0.878109	0.568019	0.540393	0.587059	0.247749	0.269079
08/09/2024	0.883967	0.575768	0.546361	0.591197	0.256505	0.279331
09/09/2024	0.886452	0.580284	0.549786	0.593883	0.264639	0.298228
10/09/2024	0.886688	0.581596	0.551287	0.594942	0.267803	0.308736
11/09/2024	0.886007	0.581348	0.551874	0.595036	0.270832	0.321044

12/09/2024	0.885061	0.580431	0.552047	0.594808	0.270188	0.318589
13/09/2024	0.884553	0.579878	0.552358	0.594662	0.274082	0.329120
14/09/2024	0.884116	0.579710	0.552898	0.594678	0.276366	0.335298
15/09/2024	0.889969	0.582721	0.557172	0.596680	0.286869	0.350608
16/09/2024	0.896465	0.587605	0.562519	0.599887	0.292975	0.354255
17/09/2024	0.901678	0.592732	0.567147	0.603075	0.303326	0.368296
18/09/2024	0.903982	0.595847	0.569841	0.605155	0.306540	0.366196
19/09/2024	0.903937	0.596381	0.570537	0.605843	0.306653	0.357601
20/09/2024	0.902805	0.595145	0.570011	0.605537	0.304714	0.346130
21/09/2024	0.901424	0.593539	0.569157	0.604833	0.304648	0.342746
22/09/2024	0.900109	0.592323	0.568503	0.604180	0.305066	0.344032
23/09/2024	0.900556	0.592458	0.569029	0.604139	0.310923	0.358216
24/09/2024	0.901146	0.593401	0.570144	0.604579	0.315376	0.367427
25/09/2024	0.903701	0.595789	0.572559	0.605787	0.326533	0.383644
26/09/2024	0.905822	0.598508	0.575036	0.607243	0.332773	0.388002
27/09/2024	0.906255	0.599926	0.576348	0.608247	0.333343	0.380403
28/09/2024	0.905418	0.599498	0.576351	0.608468	0.331375	0.368153
29/09/2024	0.904968	0.598718	0.576240	0.608299	0.334135	0.375034
30/09/2024	0.904554	0.598087	0.576324	0.608124	0.333335	0.371347
01/10/2024	0.903789	0.597611	0.576331	0.608010	0.334145	0.372237
02/10/2024	0.902825	0.597204	0.576295	0.607902	0.335683	0.379290
03/10/2024	0.901780	0.596612	0.576215	0.607759	0.335376	0.379335
04/10/2024	0.900709	0.595781	0.575988	0.607548	0.334766	0.376857
05/10/2024	0.899624	0.594848	0.575636	0.607260	0.334314	0.375073
06/10/2024	0.898530	0.593884	0.575220	0.606922	0.333201	0.371674
07/10/2024	0.897428	0.592902	0.574757	0.606565	0.331983	0.367550
08/10/2024	0.896314	0.591902	0.574244	0.606194	0.330703	0.363318
09/10/2024	0.895187	0.590907	0.573695	0.605809	0.329468	0.359530
10/10/2024	0.894047	0.589929	0.573128	0.605411	0.328220	0.356092
11/10/2024	0.892899	0.588974	0.572554	0.605009	0.327036	0.353145
12/10/2024	0.891744	0.588037	0.571977	0.604607	0.325845	0.350460
13/10/2024	0.890586	0.587107	0.571392	0.604204	0.324615	0.347815
14/10/2024	0.889425	0.586179	0.570798	0.603797	0.323370	0.345246
15/10/2024	0.888262	0.585259	0.570196	0.603386	0.322141	0.342880
16/10/2024	0.887099	0.584350	0.569591	0.602972	0.320893	0.340623
17/10/2024	0.885936	0.583450	0.568983	0.602556	0.319660	0.338531
18/10/2024	0.884774	0.582563	0.568375	0.602140	0.318457	0.336668
19/10/2024	0.883615	0.581688	0.567770	0.601725	0.317257	0.334943
20/10/2024	0.882460	0.580823	0.567168	0.601311	0.316062	0.333310
21/10/2024	0.881309	0.579968	0.566567	0.600897	0.314898	0.331848
22/10/2024	0.880163	0.579122	0.565971	0.600485	0.313723	0.330429
23/10/2024	0.879026	0.578345	0.565406	0.600081	0.313165	0.331188
24/10/2024	0.877904	0.577614	0.564888	0.599697	0.312339	0.331625
25/10/2024	0.876811	0.577070	0.564480	0.599351	0.313327	0.338042
26/10/2024	0.875752	0.576505	0.564144	0.599054	0.312292	0.338803
27/10/2024	0.874717	0.575822	0.563760	0.598764	0.311518	0.338019
28/10/2024	0.873691	0.575040	0.563298	0.598438	0.310427	0.336143
29/10/2024	0.872663	0.574229	0.562788	0.598072	0.309240	0.333871

30/10/2024	0.871634	0.573437	0.562262	0.597689	0.308106	0.331874
31/10/2024	0.870612	0.572777	0.561789	0.597320	0.308070	0.333900
01/11/2024	0.869609	0.572211	0.561421	0.596998	0.307477	0.337582
02/11/2024	0.868636	0.571624	0.561143	0.596727	0.307055	0.341720
03/11/2024	0.867695	0.570858	0.560906	0.596481	0.306542	0.345618
04/11/2024	0.866791	0.569921	0.560699	0.596230	0.306574	0.351126
05/11/2024	0.865925	0.568959	0.560537	0.595976	0.306581	0.356734
06/11/2024	0.865101	0.568135	0.560422	0.595740	0.306691	0.362182
07/11/2024	0.864319	0.567468	0.560347	0.595537	0.306827	0.367261
08/11/2024	0.865448	0.567869	0.561291	0.595810	0.312062	0.380846
09/11/2024	0.866686	0.568963	0.562704	0.596449	0.315383	0.390736
10/11/2024	0.866977	0.569739	0.563751	0.597055	0.316552	0.395219
11/11/2024	0.866498	0.569657	0.564175	0.597335	0.316596	0.397106
12/11/2024	0.865799	0.569068	0.564267	0.597302	0.317309	0.402146
13/11/2024	0.866506	0.569110	0.565055	0.597473	0.321031	0.413911
14/11/2024	0.867336	0.569679	0.566209	0.597922	0.322981	0.420170
15/11/2024	0.868984	0.570912	0.567897	0.598744	0.328266	0.432374
16/11/2024	0.872391	0.573405	0.570733	0.600202	0.337199	0.447558
17/11/2024	0.874964	0.576093	0.573460	0.601814	0.341685	0.452802
18/11/2024	0.875740	0.577583	0.575039	0.602955	0.342746	0.451215
19/11/2024	0.875349	0.577479	0.575469	0.603369	0.341768	0.446230
20/11/2024	0.874625	0.576582	0.575353	0.603253	0.341701	0.446029
21/11/2024	0.873955	0.575542	0.575144	0.602963	0.340320	0.442725
22/11/2024	0.873375	0.574616	0.574943	0.602702	0.339414	0.439200
23/11/2024	0.872828	0.573809	0.574749	0.602495	0.338749	0.436548
24/11/2024	0.872275	0.573031	0.574542	0.602303	0.337791	0.433202
25/11/2024	0.873049	0.573044	0.575068	0.602428	0.341377	0.441286
26/11/2024	0.873865	0.573562	0.575956	0.602817	0.342774	0.444711
27/11/2024	0.873977	0.573849	0.576556	0.603188	0.342958	0.443910
28/11/2024	0.873514	0.573494	0.576652	0.603309	0.342129	0.440494
29/11/2024	0.872836	0.572662	0.576396	0.603159	0.340925	0.436213
30/11/2024	0.872148	0.571715	0.576017	0.602864	0.339852	0.432681
01/12/2024	0.871494	0.570891	0.575661	0.602556	0.339291	0.431408
02/12/2024	0.871264	0.570499	0.575648	0.602405	0.340692	0.437842
03/12/2024	0.871075	0.570378	0.575880	0.602417	0.341379	0.442871
04/12/2024	0.870708	0.570241	0.576098	0.602481	0.341926	0.446341
05/12/2024	0.871368	0.570548	0.576822	0.602773	0.345273	0.456118
06/12/2024	0.874221	0.572342	0.578923	0.603760	0.353139	0.470236
07/12/2024	0.876599	0.574782	0.581240	0.605092	0.357741	0.477033
08/12/2024	0.877361	0.576412	0.582685	0.606147	0.359516	0.478785
09/12/2024	0.877015	0.576625	0.583140	0.606602	0.359266	0.477034
10/12/2024	0.876458	0.576047	0.583136	0.606594	0.359545	0.478264
11/12/2024	0.876820	0.575814	0.583569	0.606639	0.361730	0.486240
12/12/2024	0.878712	0.576798	0.585080	0.607245	0.366862	0.499007
13/12/2024	0.880200	0.578230	0.586775	0.608178	0.369369	0.503490
14/12/2024	0.880547	0.579020	0.587796	0.608927	0.369892	0.501592
15/12/2024	0.880140	0.578813	0.588033	0.609210	0.369154	0.496530
16/12/2024	0.879931	0.578307	0.588104	0.609213	0.370003	0.498049

17/12/2024	0.879774	0.577889	0.588242	0.609167	0.369988	0.497966
18/12/2024	0.889287	0.581905	0.594001	0.612125	0.378797	0.505312
19/12/2024	0.899971	0.588941	0.601478	0.616962	0.384546	0.508807
20/12/2024	0.912811	0.598175	0.610379	0.623167	0.395685	0.517925
21/12/2024	0.930371	0.610022	0.621991	0.631031	0.410622	0.531126
22/12/2024	0.944527	0.621490	0.631900	0.638341	0.421871	0.546087
23/12/2024	0.950766	0.628661	0.636898	0.642859	0.426783	0.555077
24/12/2024	0.951238	0.630342	0.637444	0.644134	0.426604	0.554040
25/12/2024	0.950369	0.629046	0.636229	0.643481	0.427753	0.559420
26/12/2024	0.949369	0.627177	0.634863	0.642324	0.427209	0.559071
27/12/2024	0.948217	0.625599	0.633644	0.641336	0.426372	0.554891
28/12/2024	0.946885	0.624172	0.632435	0.640534	0.425242	0.548960
29/12/2024	0.947282	0.623685	0.632114	0.640186	0.429038	0.553053
30/12/2024	0.950918	0.625736	0.633977	0.640990	0.440033	0.563791
31/12/2024	0.954084	0.629738	0.636533	0.642707	0.447040	0.567176
01/01/2025	0.953536	0.630505	0.636606	0.643140	0.446855	0.562786
02/01/2025	0.952744	0.629611	0.635858	0.642767	0.447272	0.559536
03/01/2025	0.955177	0.630452	0.636556	0.642928	0.454130	0.566995
04/01/2025	0.960328	0.634168	0.638983	0.644273	0.463436	0.582964
05/01/2025	0.963815	0.636889	0.640754	0.645452	0.468917	0.594001
06/01/2025	0.965146	0.638436	0.641691	0.646235	0.470467	0.595963
07/01/2025	0.968057	0.639893	0.642708	0.646981	0.475841	0.597938
08/01/2025	0.971095	0.641526	0.643866	0.647699	0.480619	0.598400
09/01/2025	0.977825	0.644057	0.645756	0.648793	0.489358	0.598594
10/01/2025	0.984796	0.647282	0.648077	0.650235	0.499549	0.598807
11/01/2025	0.987692	0.649692	0.649535	0.651393	0.503196	0.594944
12/01/2025	0.986758	0.650269	0.649601	0.651780	0.501788	0.589301
13/01/2025	0.984159	0.649272	0.648672	0.651407	0.498130	0.583210
14/01/2025	0.981429	0.647669	0.647387	0.650623	0.494599	0.578622
15/01/2025	0.979024	0.646139	0.646132	0.649776	0.491545	0.574546
16/01/2025	0.976884	0.644826	0.644995	0.649022	0.488979	0.570473
17/01/2025	0.974876	0.643597	0.643917	0.648351	0.486445	0.565354
18/01/2025	0.972925	0.642350	0.642842	0.647701	0.484012	0.559936
19/01/2025	0.971002	0.641072	0.641753	0.647036	0.481579	0.554547
21/01/2025	0.967230	0.638513	0.639575	0.645684	0.476832	0.544683
22/01/2025	0.965643	0.637469	0.638686	0.645083	0.476032	0.546303
23/01/2025	0.964075	0.636526	0.637911	0.644559	0.474174	0.544905
24/01/2025	0.962412	0.635522	0.637096	0.644052	0.472221	0.541856
25/01/2025	0.962549	0.635408	0.637146	0.643945	0.475161	0.548007
26/01/2025	0.962746	0.635961	0.637571	0.644128	0.476552	0.551959
27/01/2025	0.961983	0.636243	0.637625	0.644249	0.475877	0.551220
28/01/2025	0.960459	0.635680	0.637085	0.644056	0.473926	0.547458
29/01/2025	0.958687	0.634465	0.636159	0.643546	0.471549	0.542739
30/01/2025	0.956950	0.633061	0.635116	0.642878	0.469137	0.538011
31/01/2025	0.955297	0.631743	0.634097	0.642200	0.466893	0.533853
01/02/2025	0.953697	0.630473	0.633094	0.641561	0.464078	0.527517
02/02/2025	0.952119	0.629242	0.632087	0.640941	0.461834	0.522687
03/02/2025	0.950552	0.627998	0.631062	0.640315	0.458988	0.516455

05/02/2025	0.947427	0.625500	0.628935	0.639022	0.453468	0.504478
06/02/2025	0.945868	0.624260	0.627844	0.638356	0.450685	0.498915
07/02/2025	0.944314	0.623081	0.626772	0.637693	0.448405	0.495485
08/02/2025	0.944799	0.623113	0.626833	0.637548	0.452019	0.502830
09/02/2025	0.945403	0.624080	0.627464	0.637823	0.454543	0.511285
10/02/2025	0.949026	0.627019	0.630061	0.639237	0.463416	0.523955
11/02/2025	0.954062	0.631524	0.633744	0.641505	0.472682	0.539461
12/02/2025	0.956743	0.635251	0.636350	0.643499	0.475521	0.542779
13/02/2025	0.956610	0.636518	0.637006	0.644407	0.474288	0.538382
14/02/2025	0.955048	0.635588	0.636233	0.644207	0.471095	0.530911
15/02/2025	0.953212	0.633795	0.634926	0.643402	0.467894	0.524467
16/02/2025	0.953503	0.633229	0.634698	0.642988	0.470758	0.530144
17/02/2025	0.955066	0.634391	0.635696	0.643341	0.475228	0.543628
18/02/2025	0.956186	0.636258	0.637130	0.644171	0.479619	0.559002
19/02/2025	0.955944	0.637253	0.637960	0.644848	0.479683	0.562289
20/02/2025	0.954706	0.636874	0.637813	0.644963	0.477912	0.558882
21/02/2025	0.953118	0.635646	0.637006	0.644542	0.475652	0.554568
22/02/2025	0.951538	0.634164	0.635962	0.643858	0.472562	0.547490
23/02/2025	0.950520	0.633102	0.635219	0.643274	0.472104	0.549790
24/02/2025	0.951208	0.633261	0.635582	0.643263	0.475157	0.559585
25/02/2025	0.951728	0.633940	0.636254	0.643613	0.475520	0.560527
26/02/2025	0.951190	0.634070	0.636345	0.643827	0.473991	0.554979
27/02/2025	0.949886	0.633233	0.635696	0.643612	0.471047	0.545844
28/02/2025	0.948338	0.631794	0.634617	0.643019	0.467887	0.536747
01/03/2025	0.946855	0.630414	0.633518	0.642294	0.466331	0.534597
02/03/2025	0.946725	0.629958	0.633259	0.641938	0.467884	0.542237
03/03/2025	0.946818	0.630244	0.633543	0.641974	0.469377	0.550782
04/03/2025	0.946485	0.630583	0.633829	0.642145	0.470087	0.557490
05/03/2025	0.945566	0.630287	0.633699	0.642149	0.468348	0.555154
06/03/2025	0.944293	0.629253	0.633050	0.641840	0.465352	0.546299
07/03/2025	0.942908	0.627797	0.632034	0.641262	0.461781	0.534746
08/03/2025	0.941517	0.626254	0.630853	0.640545	0.458108	0.523149
09/03/2025	0.940134	0.624778	0.629632	0.639800	0.454541	0.512669
10/03/2025	0.938748	0.623375	0.628411	0.639070	0.451106	0.503452
11/03/2025	0.937350	0.622008	0.627191	0.638354	0.447770	0.495265
12/03/2025	0.935936	0.620652	0.625967	0.637636	0.444495	0.487851
13/03/2025	0.934508	0.619305	0.624738	0.636911	0.441264	0.481043
14/03/2025	0.933069	0.617970	0.623506	0.636180	0.438071	0.474757
15/03/2025	0.931621	0.616649	0.622276	0.635447	0.434918	0.468949
16/03/2025	0.930168	0.615344	0.621050	0.634715	0.431808	0.463584
17/03/2025	0.928711	0.614053	0.619832	0.633985	0.428741	0.458629
18/03/2025	0.927251	0.612776	0.618623	0.633257	0.425720	0.454047
19/03/2025	0.925792	0.611522	0.617429	0.632533	0.422833	0.450123
20/03/2025	0.924481	0.610544	0.616423	0.631871	0.422203	0.454453
21/03/2025	0.924658	0.610554	0.616401	0.631655	0.424868	0.466693
22/03/2025	0.924864	0.611177	0.616854	0.631797	0.426595	0.476728
23/03/2025	0.924292	0.611399	0.616985	0.631928	0.425207	0.476815
24/03/2025	0.923107	0.610754	0.616492	0.631752	0.422723	0.472164

25/03/2025	0.921710	0.609502	0.615559	0.631235	0.419638	0.465740
26/03/2025	0.920320	0.608102	0.614466	0.630536	0.416513	0.459364
27/03/2025	0.918975	0.606812	0.613378	0.629815	0.413743	0.454466
28/03/2025	0.918106	0.606039	0.612677	0.629270	0.413919	0.460497
29/03/2025	0.918423	0.606234	0.612924	0.629197	0.416557	0.474102
30/03/2025	0.918587	0.606733	0.613471	0.629422	0.416686	0.478995
31/03/2025	0.918420	0.607115	0.613895	0.629678	0.418115	0.487340
01/04/2025	0.917735	0.606709	0.613793	0.629695	0.414831	0.475819
02/04/2025	0.916658	0.605822	0.613119	0.629359	0.414324	0.469347
03/04/2025	0.915392	0.604482	0.612027	0.628743	0.409737	0.451398
04/04/2025	0.914049	0.602858	0.610600	0.627943	0.405511	0.431817
05/04/2025	0.912650	0.601122	0.608952	0.627028	0.400935	0.412763
06/04/2025	0.911184	0.599394	0.607195	0.626049	0.396347	0.395284
07/04/2025	0.909648	0.597712	0.605390	0.625044	0.391887	0.379794
08/04/2025	0.908046	0.596067	0.603562	0.624030	0.387554	0.366093
09/04/2025	0.906395	0.594590	0.601789	0.623026	0.384835	0.359016
10/04/2025	0.904723	0.593309	0.600157	0.622068	0.382463	0.355247
11/04/2025	0.903043	0.591990	0.598582	0.621161	0.378747	0.347340
12/04/2025	0.901347	0.590526	0.596935	0.620249	0.375009	0.338156
13/04/2025	0.899623	0.588954	0.595199	0.619285	0.370993	0.328497
14/04/2025	0.897868	0.587358	0.593416	0.618273	0.366924	0.319171
15/04/2025	0.896086	0.585785	0.591625	0.617243	0.362933	0.310693
16/04/2025	0.894282	0.584242	0.589845	0.616216	0.359043	0.303115
17/04/2025	0.892460	0.582720	0.588080	0.615196	0.355242	0.296301
18/04/2025	0.890625	0.581211	0.586334	0.614182	0.351515	0.290105
19/04/2025	0.888782	0.579714	0.584606	0.613171	0.347850	0.284419
20/04/2025	0.886933	0.578232	0.582899	0.612165	0.344247	0.279180
21/04/2025	0.885084	0.576793	0.581227	0.611168	0.341007	0.275342
22/04/2025	0.883241	0.575396	0.579602	0.610187	0.337772	0.271921
23/04/2025	0.881405	0.574001	0.578006	0.609224	0.334424	0.268117
24/04/2025	0.879584	0.572730	0.576479	0.608281	0.332468	0.268752
25/04/2025	0.877784	0.571461	0.575014	0.607369	0.329160	0.266051
26/04/2025	0.876000	0.570135	0.573539	0.606469	0.326116	0.262759
27/04/2025	0.874226	0.568759	0.572036	0.605556	0.322936	0.259135
28/04/2025	0.872457	0.567373	0.570526	0.604629	0.319745	0.255474
29/04/2025	0.870693	0.566003	0.569027	0.603699	0.316626	0.252102
30/04/2025	0.868946	0.564779	0.567609	0.602793	0.314832	0.253145
01/05/2025	0.868822	0.564780	0.567276	0.602346	0.319646	0.271848
02/05/2025	0.868825	0.565357	0.567484	0.602304	0.320045	0.276354
03/05/2025	0.868059	0.565614	0.567354	0.602270	0.320248	0.279510
04/05/2025	0.866675	0.565336	0.566806	0.601973	0.321191	0.288460
05/05/2025	0.865102	0.564410	0.565988	0.601427	0.318298	0.285616
06/05/2025	0.863558	0.563083	0.564932	0.600731	0.315550	0.279900
07/05/2025	0.862058	0.561624	0.563716	0.599947	0.312362	0.273000
08/05/2025	0.860566	0.560185	0.562436	0.599124	0.309096	0.265993
09/05/2025	0.859060	0.558800	0.561144	0.598297	0.305943	0.259698
10/05/2025	0.857554	0.557717	0.559980	0.597509	0.305573	0.262999
11/05/2025	0.856063	0.556664	0.558927	0.596790	0.302590	0.260179

12/05/2025	0.854581	0.555488	0.557832	0.596094	0.300141	0.256310
13/05/2025	0.853096	0.554194	0.556651	0.595360	0.297362	0.251668
14/05/2025	0.851602	0.552864	0.555420	0.594582	0.294483	0.246772
15/05/2025	0.850099	0.551556	0.554180	0.593785	0.291675	0.242301
16/05/2025	0.852615	0.552774	0.555393	0.594155	0.300472	0.259207
17/05/2025	0.855617	0.555812	0.557700	0.595417	0.305475	0.269132
18/05/2025	0.859665	0.560308	0.560946	0.597410	0.317362	0.291012
19/05/2025	0.862239	0.564061	0.563504	0.599235	0.321203	0.294739
20/05/2025	0.862566	0.565600	0.564338	0.600134	0.320858	0.290771
21/05/2025	0.861569	0.565436	0.563977	0.600062	0.322288	0.298988
22/05/2025	0.860975	0.565077	0.563808	0.599701	0.325409	0.316029
23/05/2025	0.860515	0.565135	0.564082	0.599515	0.328651	0.331542
24/05/2025	0.860640	0.565774	0.564919	0.599720	0.333426	0.351853
25/05/2025	0.860586	0.566111	0.565692	0.600064	0.333354	0.352327
26/05/2025	0.860019	0.565740	0.565856	0.600181	0.332587	0.347342
27/05/2025	0.859072	0.564630	0.565377	0.599917	0.329248	0.335040
28/05/2025	0.857956	0.563127	0.564469	0.599347	0.325760	0.321588
29/05/2025	0.856779	0.561559	0.563366	0.598631	0.322269	0.309238
30/05/2025	0.855563	0.560068	0.562204	0.597887	0.318934	0.298479
31/05/2025	0.854304	0.558652	0.561029	0.597157	0.315750	0.289157
01/06/2025	0.852992	0.557128	0.559762	0.596418	0.311526	0.275103
02/06/2025	0.851610	0.555420	0.558305	0.595611	0.306921	0.259085
03/06/2025	0.850146	0.553594	0.556669	0.594705	0.302194	0.243244
04/06/2025	0.848600	0.551748	0.554931	0.593724	0.297446	0.228594
05/06/2025	0.846983	0.549931	0.553150	0.592710	0.292772	0.215506
06/06/2025	0.845309	0.548149	0.551353	0.591690	0.288221	0.203984
07/06/2025	0.843596	0.546512	0.549608	0.590682	0.284985	0.197636
08/06/2025	0.841883	0.545335	0.548117	0.589747	0.284937	0.203112
09/06/2025	0.840190	0.544129	0.546783	0.588917	0.280677	0.197723
10/06/2025	0.838500	0.542661	0.545336	0.588102	0.277137	0.190395
12/06/2025	0.835057	0.539313	0.542096	0.586256	0.268935	0.174442
15/06/2025	0.828100	0.532751	0.535534	0.582351	0.252775	0.147915
19/06/2025	0.822433	0.527802	0.530432	0.579274	0.240816	0.132643
20/06/2025	0.820584	0.526262	0.528831	0.578307	0.237196	0.128938
21/06/2025	0.818734	0.524739	0.527262	0.577354	0.233710	0.125728
22/06/2025	0.816888	0.523231	0.525723	0.576408	0.230323	0.122828
23/06/2025	0.815047	0.521740	0.524212	0.575470	0.227016	0.120150
24/06/2025	0.813213	0.520271	0.522727	0.574541	0.223779	0.117661
25/06/2025	0.811387	0.518821	0.521265	0.573622	0.220608	0.115349
26/06/2025	0.809591	0.517750	0.519995	0.572753	0.221046	0.124080
27/06/2025	0.807840	0.516699	0.518883	0.571975	0.217724	0.123917
28/06/2025	0.806134	0.515658	0.517808	0.571250	0.217023	0.127780
29/06/2025	0.804460	0.514467	0.516703	0.570523	0.214027	0.126225
30/06/2025	0.802802	0.513144	0.515519	0.569757	0.211276	0.123283
01/07/2025	0.801190	0.512346	0.514548	0.569012	0.214132	0.137928
02/07/2025	0.799644	0.511579	0.513767	0.568375	0.211263	0.136194
03/07/2025	0.798151	0.510787	0.512965	0.567798	0.211672	0.139992
04/07/2025	0.796684	0.509730	0.512067	0.567196	0.208753	0.136733

05/07/2025	0.795262	0.509052	0.511321	0.566587	0.211982	0.150801
06/07/2025	0.793927	0.508823	0.510938	0.566100	0.214114	0.163451
07/07/2025	0.792668	0.508297	0.510566	0.565731	0.211542	0.160443
08/07/2025	0.791427	0.507225	0.509862	0.565298	0.209180	0.153590
09/07/2025	0.790156	0.505819	0.508867	0.564688	0.205992	0.144975
10/07/2025	0.788841	0.504362	0.507744	0.563949	0.202553	0.136019
11/07/2025	0.787489	0.502977	0.506587	0.563180	0.199296	0.128129
12/07/2025	0.786108	0.501662	0.505423	0.562427	0.196221	0.121473
13/07/2025	0.784705	0.500379	0.504257	0.561690	0.193263	0.115730
14/07/2025	0.783284	0.499110	0.503092	0.560953	0.190393	0.110666
15/07/2025	0.781850	0.497851	0.501929	0.560214	0.187578	0.106088
17/07/2025	0.778959	0.495379	0.499616	0.558739	0.182118	0.098127
20/07/2025	0.773250	0.490687	0.495174	0.555885	0.172023	0.086162
21/07/2025	0.772828	0.490353	0.494854	0.555677	0.171376	0.085641
22/07/2025	0.771712	0.489496	0.494023	0.555131	0.169831	0.084898
23/07/2025	0.770302	0.488836	0.493183	0.554489	0.171629	0.095944
24/07/2025	0.768967	0.488553	0.492695	0.553999	0.172576	0.107698
25/07/2025	0.767702	0.488020	0.492251	0.553617	0.170578	0.108078
26/07/2025	0.768766	0.488907	0.493074	0.553815	0.180835	0.131706
27/07/2025	0.770047	0.490546	0.494430	0.554435	0.183168	0.134675
28/07/2025	0.770672	0.492453	0.495670	0.555125	0.190817	0.156006
29/07/2025	0.770440	0.493814	0.496626	0.555622	0.195228	0.173039
30/07/2025	0.769708	0.493927	0.497031	0.555817	0.193603	0.170856
31/07/2025	0.768805	0.493023	0.496779	0.555663	0.191653	0.163229
01/08/2025	0.767870	0.491815	0.496162	0.555231	0.189711	0.157463
02/08/2025	0.766933	0.490726	0.495494	0.554700	0.187430	0.151971
03/08/2025	0.765996	0.489817	0.494870	0.554204	0.185512	0.147819
04/08/2025	0.765053	0.488999	0.494273	0.553767	0.183811	0.144791
05/08/2025	0.764098	0.488198	0.493676	0.553350	0.182171	0.142220
07/08/2025	0.762156	0.486592	0.492456	0.552496	0.179000	0.137705
08/08/2025	0.761173	0.485792	0.491837	0.552059	0.177448	0.135686
09/08/2025	0.760196	0.485164	0.491291	0.551639	0.177494	0.138868
10/08/2025	0.759235	0.484546	0.490809	0.551259	0.175822	0.138051
11/08/2025	0.758319	0.484344	0.490533	0.550949	0.179374	0.152457
12/08/2025	0.757474	0.484294	0.490486	0.550751	0.179846	0.158962
13/08/2025	0.756685	0.484026	0.490400	0.550607	0.179341	0.159578
14/08/2025	0.755912	0.483428	0.490117	0.550403	0.178137	0.156889
16/08/2025	0.754133	0.481691	0.489079	0.549661	0.174655	0.148438
19/08/2025	0.751868	0.479541	0.487540	0.548564	0.170119	0.138374
20/08/2025	0.751020	0.478825	0.486965	0.548165	0.168746	0.135912
21/08/2025	0.750162	0.478135	0.486402	0.547785	0.167294	0.133609
22/08/2025	0.752810	0.479785	0.488026	0.548409	0.177928	0.154174
23/08/2025	0.756577	0.483775	0.491211	0.550024	0.188825	0.182411
24/08/2025	0.758713	0.487631	0.494024	0.551811	0.194109	0.196579
25/08/2025	0.759022	0.489486	0.495463	0.552971	0.196050	0.202773
26/08/2025	0.758459	0.489252	0.495681	0.553273	0.194205	0.197703
27/08/2025	0.757739	0.488212	0.495324	0.553002	0.193569	0.194460
28/08/2025	0.775471	0.495040	0.505760	0.558282	0.203375	0.210655

29/08/2025	0.809213	0.513740	0.527668	0.571437	0.219722	0.236108
30/08/2025	0.835426	0.534595	0.547102	0.585900	0.227703	0.243040
31/08/2025	0.846017	0.547094	0.556075	0.594937	0.229846	0.240291
01/09/2025	0.846732	0.549521	0.556372	0.597092	0.229365	0.237299
02/09/2025	0.844475	0.546596	0.553164	0.595137	0.227703	0.233862
03/09/2025	0.842292	0.543346	0.550051	0.592386	0.229591	0.242631
04/09/2025	0.840594	0.541233	0.547972	0.590451	0.228711	0.243729
05/09/2025	0.839117	0.539839	0.546491	0.589322	0.228577	0.243372
06/09/2025	0.837662	0.538532	0.545151	0.588464	0.228031	0.241679
07/09/2025	0.836145	0.537104	0.543786	0.587548	0.227285	0.239223
08/09/2025	0.835610	0.536498	0.543138	0.586831	0.232561	0.255772
09/09/2025	0.835097	0.536390	0.542971	0.586401	0.234397	0.262322
10/09/2025	0.834048	0.536180	0.542680	0.586064	0.236363	0.267659
11/09/2025	0.832567	0.535414	0.542029	0.585594	0.236205	0.267474
12/09/2025	0.831388	0.534749	0.541514	0.585071	0.239988	0.280460
13/09/2025	0.830293	0.534288	0.541250	0.584623	0.241806	0.287271
14/09/2025	0.829064	0.533654	0.540903	0.584228	0.241612	0.285706
15/09/2025	0.827690	0.532650	0.540254	0.583752	0.240896	0.280634
16/09/2025	0.826248	0.531393	0.539366	0.583133	0.239674	0.274063
17/09/2025	0.824790	0.530095	0.538380	0.582420	0.238376	0.267637
18/09/2025	0.823333	0.528864	0.537382	0.581693	0.237157	0.262066
19/09/2025	0.821877	0.527704	0.536396	0.580992	0.236021	0.257329
20/09/2025	0.820420	0.526587	0.535425	0.580316	0.234925	0.253187
21/09/2025	0.818962	0.525493	0.534467	0.579656	0.233889	0.249614
22/09/2025	0.819131	0.525578	0.534523	0.579421	0.240133	0.265444
23/09/2025	0.819421	0.526445	0.535173	0.579586	0.243221	0.273348
24/09/2025	0.818932	0.526989	0.535522	0.579791	0.243905	0.273687
25/09/2025	0.817792	0.526618	0.535233	0.579705	0.243137	0.269844
26/09/2025	0.816422	0.525690	0.534554	0.579283	0.242808	0.268179
27/09/2025	0.815066	0.524588	0.533765	0.578701	0.241171	0.263440
28/09/2025	0.814168	0.524088	0.533356	0.578242	0.244539	0.275341
29/09/2025	0.813372	0.523891	0.533260	0.577993	0.244832	0.277873
30/09/2025	0.819551	0.527111	0.537300	0.579949	0.255584	0.295250
01/10/2025	0.826561	0.532593	0.542686	0.583274	0.261874	0.304992
02/10/2025	0.829906	0.537068	0.546137	0.586065	0.264710	0.310015
03/10/2025	0.830677	0.539161	0.547537	0.587442	0.268637	0.324900
04/10/2025	0.830217	0.539286	0.547789	0.587629	0.269606	0.331590
05/10/2025	0.829339	0.538604	0.547575	0.587279	0.270417	0.335580
06/10/2025	0.828355	0.537745	0.547206	0.586837	0.270139	0.335449
07/10/2025	0.827371	0.536908	0.546784	0.586437	0.269833	0.333944
08/10/2025	0.826427	0.536292	0.546434	0.586086	0.271194	0.338312
09/10/2025	0.825529	0.535774	0.546190	0.585790	0.271380	0.340369
10/10/2025	0.824656	0.535235	0.545966	0.585526	0.271789	0.341647
11/10/2025	0.823788	0.534605	0.545693	0.585258	0.271679	0.340876
12/10/2025	0.822912	0.533914	0.545359	0.584961	0.271501	0.339333
13/10/2025	0.822029	0.533215	0.544988	0.584641	0.271232	0.337566
14/10/2025	0.822218	0.533268	0.545284	0.584595	0.275430	0.349632
15/10/2025	0.822482	0.533784	0.545974	0.584819	0.277271	0.354835

16/10/2025	0.822228	0.534161	0.546480	0.585076	0.278678	0.357709
17/10/2025	0.821544	0.533986	0.546579	0.585149	0.278504	0.356138
18/10/2025	0.823573	0.535197	0.548029	0.585764	0.287817	0.366923
19/10/2025	0.825895	0.537706	0.550117	0.586846	0.294491	0.374917
20/10/2025	0.828684	0.540949	0.552633	0.588310	0.302933	0.389580
21/10/2025	0.830331	0.543403	0.554641	0.589640	0.306275	0.393273
22/10/2025	0.830541	0.544317	0.555586	0.590405	0.306897	0.390959
23/10/2025	0.829933	0.543936	0.555646	0.590546	0.305916	0.385461
24/10/2025	0.829109	0.543100	0.555329	0.590306	0.305729	0.383419
25/10/2025	0.828613	0.542614	0.555233	0.590067	0.307364	0.389650
26/10/2025	0.830072	0.543491	0.556381	0.590438	0.313673	0.403633
27/10/2025	0.832580	0.545755	0.558630	0.591530	0.321368	0.421861
28/10/2025	0.835481	0.548812	0.561529	0.593148	0.329581	0.440590
29/10/2025	0.837098	0.551158	0.563869	0.594658	0.332553	0.443538
30/10/2025	0.837288	0.552074	0.565045	0.595566	0.333708	0.441541
31/10/2025	0.838775	0.552950	0.566410	0.596317	0.339186	0.447419
01/11/2025	0.840228	0.554125	0.567864	0.597072	0.341881	0.448629
02/11/2025	0.840708	0.554967	0.568845	0.597695	0.342794	0.447680
03/11/2025	0.846289	0.557760	0.572595	0.599726	0.351600	0.455211
04/11/2025	0.852309	0.561770	0.577106	0.602573	0.356564	0.457425
05/11/2025	0.857494	0.566039	0.581127	0.605411	0.364826	0.466818
06/11/2025	0.860132	0.568891	0.583566	0.607353	0.368042	0.469158
07/11/2025	0.860861	0.569973	0.584562	0.608219	0.370383	0.474365
08/11/2025	0.860568	0.569584	0.584678	0.608326	0.369568	0.473071
09/11/2025	0.865298	0.571187	0.587460	0.609633	0.377879	0.480041
10/11/2025	0.874984	0.576974	0.593687	0.613126	0.392087	0.492155
11/11/2025	0.884314	0.584980	0.600463	0.617616	0.405273	0.506655
12/11/2025	0.890916	0.592029	0.605771	0.621577	0.416045	0.521980
13/11/2025	0.893583	0.595718	0.608491	0.623923	0.419315	0.524832
14/11/2025	0.893523	0.596039	0.608939	0.624587	0.418583	0.519828
15/11/2025	0.892386	0.594437	0.608149	0.624177	0.416124	0.511365
16/11/2025	0.892457	0.593172	0.607756	0.623708	0.417970	0.513899
17/11/2025	0.894694	0.593810	0.608873	0.624028	0.424037	0.525048
18/11/2025	0.896424	0.595303	0.610331	0.624853	0.426762	0.527937
19/11/2025	0.915039	0.600012	0.615905	0.628045	0.436359	0.535825
20/11/2025	0.933731	0.606274	0.622174	0.632300	0.441208	0.536990
21/11/2025	0.941988	0.610729	0.625612	0.635423	0.441713	0.532195
22/11/2025	0.941862	0.611705	0.625880	0.636417	0.440010	0.525372
23/11/2025	0.938698	0.610192	0.624449	0.635767	0.437456	0.517813
24/11/2025	0.955919	0.611799	0.627300	0.636908	0.444622	0.522642
25/11/2025	0.975550	0.616803	0.632221	0.639811	0.450858	0.532207
26/11/2025	0.984353	0.621530	0.635453	0.642516	0.452635	0.535050
27/11/2025	0.985048	0.623990	0.636643	0.643928	0.455807	0.543470
28/11/2025	0.996416	0.626731	0.639053	0.645326	0.465253	0.555395
29/11/2025	1.008163	0.630404	0.641882	0.646945	0.472027	0.566761
30/11/2025	1.012227	0.633334	0.643427	0.648148	0.474360	0.572207
01/12/2025	1.010237	0.634298	0.643483	0.648487	0.474681	0.575595
02/12/2025	1.018066	0.635933	0.645274	0.649778	0.482128	0.583727

03/12/2025	1.027938	0.639435	0.648555	0.652087	0.491122	0.597108
04/12/2025	1.031696	0.642924	0.651061	0.654154	0.494141	0.597249
05/12/2025	1.029636	0.644340	0.651618	0.654954	0.492946	0.589367
06/12/2025	1.025233	0.643572	0.650650	0.654454	0.489896	0.579581
07/12/2025	1.020775	0.641779	0.649084	0.653282	0.486280	0.569442
08/12/2025	1.016831	0.639961	0.647504	0.652035	0.483094	0.560690
09/12/2025	1.013262	0.638409	0.646065	0.650956	0.480168	0.552786
10/12/2025	1.009890	0.637013	0.644724	0.650024	0.477457	0.545595
11/12/2025	1.006626	0.635632	0.643423	0.649147	0.474881	0.539158
12/12/2025	1.003969	0.634601	0.642490	0.648415	0.474771	0.542803
13/12/2025	1.001408	0.633807	0.641814	0.647829	0.473769	0.544870
14/12/2025	0.998648	0.632899	0.641074	0.647280	0.471954	0.542632
15/12/2025	0.995743	0.631676	0.640102	0.646646	0.469570	0.537415
16/12/2025	0.993396	0.630621	0.639323	0.646044	0.469496	0.541124
17/12/2025	0.991150	0.629737	0.638721	0.645522	0.468048	0.541264
18/12/2025	0.994820	0.631240	0.640697	0.646480	0.475544	0.549365
19/12/2025	1.003736	0.635884	0.645023	0.649188	0.489098	0.562109
20/12/2025	1.009664	0.640900	0.648719	0.652071	0.495007	0.565649
21/12/2025	1.010208	0.643393	0.650081	0.653651	0.494667	0.562090
23/12/2025	1.004833	0.641732	0.648384	0.653053	0.487925	0.548198
24/12/2025	1.001124	0.639241	0.646519	0.651636	0.484972	0.545589
25/12/2025	0.997825	0.637053	0.644851	0.650291	0.481644	0.541643
26/12/2025	0.995583	0.635795	0.643888	0.649433	0.481408	0.547463
27/12/2025	0.994167	0.635393	0.643685	0.649093	0.482354	0.558205
28/12/2025	0.992546	0.635080	0.643603	0.648955	0.481335	0.560542
29/12/2025	0.991018	0.634688	0.643501	0.648835	0.482077	0.567333
30/12/2025	0.990309	0.634643	0.643790	0.648852	0.484652	0.578930
31/12/2025	0.989273	0.634613	0.644014	0.648891	0.484429	0.580665
01/01/2026	0.987465	0.634102	0.643710	0.648729	0.482959	0.577216
02/01/2026	0.985179	0.633011	0.642889	0.648264	0.480564	0.571505
03/01/2026	0.982795	0.631701	0.641817	0.647581	0.477932	0.565274
04/01/2026	0.980488	0.630531	0.640718	0.646843	0.475538	0.559957
05/01/2026	0.978271	0.629530	0.639686	0.646151	0.473430	0.555913
06/01/2026	0.976118	0.628513	0.638714	0.645517	0.471297	0.551955
07/01/2026	0.974010	0.627389	0.637759	0.644904	0.469210	0.548064
08/01/2026	0.971973	0.626312	0.636854	0.644301	0.468008	0.547773
09/01/2026	0.969975	0.625283	0.635993	0.643719	0.466045	0.545485
10/01/2026	0.967997	0.624247	0.635126	0.643150	0.464161	0.542487
11/01/2026	0.966041	0.623185	0.634244	0.642580	0.462390	0.539948
12/01/2026	0.964114	0.622118	0.633369	0.642005	0.460631	0.537752
13/01/2026	0.962220	0.621050	0.632506	0.641434	0.458760	0.535177
14/01/2026	0.960359	0.619986	0.631649	0.640871	0.456924	0.532564
15/01/2026	0.958528	0.618920	0.630792	0.640312	0.455018	0.529709
16/01/2026	0.956727	0.617901	0.629960	0.639760	0.453605	0.528786
17/01/2026	0.955190	0.617084	0.629321	0.639288	0.453074	0.532030
18/01/2026	0.954365	0.616755	0.629205	0.639066	0.454026	0.541568
19/01/2026	0.954031	0.616954	0.629614	0.639154	0.455684	0.553505
20/01/2026	0.953303	0.617123	0.629982	0.639329	0.455589	0.557886

21/01/2026	0.951999	0.616790	0.629891	0.639324	0.454365	0.556290
22/01/2026	0.950586	0.616099	0.629493	0.639093	0.453704	0.556592
23/01/2026	0.949139	0.615242	0.628963	0.638720	0.452151	0.554212
24/01/2026	0.947648	0.614318	0.628346	0.638291	0.450480	0.550379
25/01/2026	0.946131	0.613352	0.627658	0.637838	0.448774	0.546305
26/01/2026	0.944617	0.612356	0.626925	0.637366	0.446953	0.541963
27/01/2026	0.943469	0.611602	0.626404	0.636976	0.446742	0.544142
28/01/2026	0.942361	0.611027	0.626040	0.636676	0.445956	0.545227
29/01/2026	0.941098	0.610395	0.625625	0.636395	0.444658	0.543466
30/01/2026	0.939709	0.609581	0.625054	0.636051	0.443106	0.540134
31/01/2026	0.938285	0.608639	0.624369	0.635624	0.441483	0.536510
01/02/2026	0.936867	0.607530	0.623574	0.635134	0.438380	0.527412
02/02/2026	0.935452	0.606312	0.622652	0.634589	0.435415	0.517500
03/02/2026	0.934022	0.605054	0.621628	0.633992	0.432126	0.507134
04/02/2026	0.934004	0.604720	0.621375	0.633718	0.434146	0.510926
05/02/2026	0.934032	0.604967	0.621525	0.633738	0.433448	0.509083
06/02/2026	0.933307	0.604959	0.621370	0.633749	0.431572	0.503209
07/02/2026	0.931990	0.604456	0.620784	0.633519	0.430745	0.502767
08/02/2026	0.930472	0.603468	0.619938	0.633053	0.427603	0.496639
09/02/2026	0.928959	0.602256	0.618945	0.632458	0.424738	0.489516
10/02/2026	0.927655	0.601292	0.618070	0.631881	0.424103	0.490753
11/02/2026	0.929344	0.602332	0.619020	0.632178	0.431395	0.500125
12/02/2026	0.931700	0.605030	0.620973	0.633232	0.437907	0.513785
13/02/2026	0.933078	0.607745	0.622769	0.634448	0.441904	0.528093
14/02/2026	0.932926	0.608864	0.623596	0.635210	0.440765	0.528116
15/02/2026	0.931788	0.608286	0.623347	0.635273	0.437885	0.520244
16/02/2026	0.930456	0.607106	0.622595	0.634845	0.436621	0.518003
17/02/2026	0.931977	0.607694	0.623375	0.635019	0.442995	0.524847
18/02/2026	0.933757	0.609726	0.624848	0.635789	0.447192	0.529348
19/02/2026	0.935928	0.612398	0.626673	0.636969	0.453071	0.539421
20/02/2026	0.936895	0.614164	0.627887	0.637952	0.453626	0.538151
21/02/2026	0.936383	0.614343	0.627980	0.638301	0.451485	0.529914
22/02/2026	0.935036	0.613255	0.627174	0.637997	0.447882	0.518677
23/02/2026	0.934495	0.612352	0.626597	0.637572	0.448452	0.521021
24/02/2026	0.935656	0.612862	0.627229	0.637693	0.452368	0.533062
25/02/2026	0.936418	0.613934	0.628152	0.638205	0.452908	0.534625
26/02/2026	0.936245	0.614629	0.628635	0.638656	0.454033	0.538981
27/02/2026	0.935269	0.614300	0.628445	0.638718	0.451428	0.533107
28/02/2026	0.933900	0.613139	0.627673	0.638358	0.448280	0.523224
01/03/2026	0.932424	0.611535	0.626522	0.637715	0.443764	0.508672
02/03/2026	0.930937	0.609850	0.625171	0.636937	0.439490	0.494602
03/03/2026	0.929440	0.608208	0.623739	0.636119	0.434986	0.480897
04/03/2026	0.927925	0.606732	0.622327	0.635308	0.431810	0.472671
05/03/2026	0.926405	0.605557	0.621077	0.634552	0.430316	0.472428
06/03/2026	0.924890	0.604369	0.619921	0.633864	0.426511	0.465662
07/03/2026	0.923367	0.603002	0.618678	0.633179	0.422818	0.456816
08/03/2026	0.921819	0.601483	0.617298	0.632427	0.418699	0.446811
09/03/2026	0.920239	0.599930	0.615835	0.631603	0.414580	0.437234

10/03/2026	0.918630	0.598419	0.614352	0.630749	0.410596	0.428830
11/03/2026	0.917000	0.596951	0.612875	0.629897	0.406701	0.421365
12/03/2026	0.915351	0.595497	0.611402	0.629054	0.402795	0.414282
13/03/2026	0.913687	0.594041	0.609926	0.628211	0.398928	0.407586
14/03/2026	0.912010	0.592604	0.608456	0.627363	0.395273	0.401924
15/03/2026	0.910325	0.591178	0.606997	0.626514	0.391493	0.396241
16/03/2026	0.908633	0.589759	0.605544	0.625667	0.387798	0.390879
17/03/2026	0.906937	0.588352	0.604100	0.624821	0.384202	0.386056
18/03/2026	0.905537	0.587389	0.602971	0.624080	0.384208	0.394057
19/03/2026	0.904188	0.586587	0.602094	0.623479	0.381454	0.395072
20/03/2026	0.902732	0.585719	0.601202	0.622932	0.379628	0.396025
21/03/2026	0.901181	0.584597	0.600161	0.622329	0.376349	0.392371
22/03/2026	0.899597	0.583304	0.598980	0.621630	0.373244	0.388080
23/03/2026	0.898017	0.582005	0.597756	0.620871	0.370341	0.384821
24/03/2026	0.896460	0.580895	0.596621	0.620124	0.368761	0.386582
25/03/2026	0.894929	0.579798	0.595559	0.619431	0.365581	0.383842
26/03/2026	0.893413	0.578610	0.594462	0.618757	0.362653	0.380018
27/03/2026	0.891906	0.577465	0.593362	0.618070	0.360774	0.379967
28/03/2026	0.890408	0.576315	0.592285	0.617379	0.357661	0.376743
29/03/2026	0.888916	0.575123	0.591187	0.616689	0.354741	0.372845
30/03/2026	0.887425	0.573893	0.590050	0.615986	0.351745	0.368754
31/03/2026	0.885930	0.572654	0.588892	0.615267	0.348720	0.364640
01/04/2026	0.884423	0.571320	0.587643	0.614519	0.345112	0.354005
02/04/2026	0.882886	0.569887	0.586230	0.613708	0.341593	0.342071
03/04/2026	0.881314	0.568502	0.584735	0.612835	0.339032	0.333508
04/04/2026	0.879708	0.567131	0.583228	0.611939	0.335617	0.323522
05/04/2026	0.878080	0.565838	0.581743	0.611051	0.333434	0.317609
06/04/2026	0.876435	0.564517	0.580265	0.610177	0.330078	0.309391
07/04/2026	0.874769	0.563132	0.578745	0.609294	0.326892	0.301096
08/04/2026	0.873082	0.561707	0.577179	0.608386	0.323593	0.293014
09/04/2026	0.871372	0.560280	0.575589	0.607454	0.320299	0.285415
10/04/2026	0.869646	0.558872	0.573993	0.606514	0.317069	0.278496
11/04/2026	0.867906	0.557484	0.572401	0.605576	0.313911	0.272254
12/04/2026	0.866156	0.556112	0.570818	0.604643	0.310817	0.266595
13/04/2026	0.864400	0.554753	0.569249	0.603713	0.307779	0.261428
14/04/2026	0.862642	0.553410	0.567695	0.602788	0.304829	0.256806
15/04/2026	0.860883	0.552080	0.566160	0.601870	0.301893	0.252465
16/04/2026	0.859136	0.550918	0.564716	0.600974	0.300575	0.253625
17/04/2026	0.857410	0.549778	0.563358	0.600123	0.297733	0.251166
18/04/2026	0.855703	0.548606	0.562011	0.599297	0.295516	0.249098
19/04/2026	0.854010	0.547410	0.560661	0.598469	0.293191	0.247069
20/04/2026	0.852329	0.546184	0.559310	0.597633	0.290475	0.243713
21/04/2026	0.850657	0.544955	0.557957	0.596792	0.288006	0.240804
22/04/2026	0.848992	0.543726	0.556609	0.595952	0.285352	0.237554
23/04/2026	0.847334	0.542499	0.555267	0.595116	0.282769	0.234416
24/04/2026	0.845715	0.541713	0.554148	0.594334	0.284512	0.246323
25/04/2026	0.847282	0.543147	0.555157	0.594535	0.294092	0.268060
26/04/2026	0.849260	0.546157	0.557138	0.595513	0.302004	0.286780

27/04/2026	0.849750	0.548532	0.558446	0.596463	0.304045	0.293534
28/04/2026	0.848913	0.549068	0.558580	0.596784	0.303807	0.295072
29/04/2026	0.847562	0.548120	0.557905	0.596439	0.301520	0.291185
30/04/2026	0.846172	0.546603	0.556875	0.595731	0.298380	0.283426
01/05/2026	0.844830	0.545038	0.555697	0.594927	0.294736	0.272251
02/05/2026	0.843486	0.543556	0.554426	0.594124	0.291205	0.260945
03/05/2026	0.842101	0.542132	0.553104	0.593322	0.287873	0.250907
04/05/2026	0.840672	0.540783	0.551788	0.592517	0.285192	0.243926
05/05/2026	0.845040	0.542675	0.554020	0.593459	0.294094	0.260026
06/05/2026	0.850158	0.546942	0.557722	0.595661	0.299886	0.270996
07/05/2026	0.852540	0.550929	0.560319	0.597694	0.305404	0.289044
08/05/2026	0.857850	0.555441	0.564346	0.600250	0.316305	0.311611
09/05/2026	0.862749	0.559845	0.568298	0.602823	0.322188	0.320597
10/05/2026	0.864683	0.562626	0.570341	0.604510	0.323784	0.321869
11/05/2026	0.864162	0.562770	0.570257	0.604881	0.320434	0.310632
12/05/2026	0.862673	0.561354	0.569028	0.604226	0.319761	0.307633
13/05/2026	0.861089	0.559388	0.567521	0.603171	0.315410	0.295990
14/05/2026	0.859582	0.557451	0.565980	0.602116	0.311895	0.283782
15/05/2026	0.858117	0.556165	0.564681	0.601200	0.313393	0.290069
16/05/2026	0.856664	0.555037	0.563594	0.600438	0.310407	0.283082
17/05/2026	0.855197	0.553811	0.562455	0.599727	0.308874	0.277764
18/05/2026	0.853688	0.552314	0.561159	0.598955	0.305384	0.268247
19/05/2026	0.852125	0.550694	0.559739	0.598092	0.302370	0.259641
20/05/2026	0.850512	0.549042	0.558259	0.597177	0.298776	0.250372
21/05/2026	0.848860	0.547400	0.556742	0.596248	0.295274	0.241597
22/05/2026	0.847183	0.545915	0.555269	0.595332	0.293210	0.238161
23/05/2026	0.845493	0.544453	0.553846	0.594447	0.289740	0.231834
24/05/2026	0.843793	0.542942	0.552402	0.593573	0.286608	0.225488
25/05/2026	0.842078	0.541384	0.550918	0.592681	0.283310	0.219140
26/05/2026	0.840350	0.539819	0.549416	0.591768	0.279994	0.213047
27/05/2026	0.838612	0.538278	0.547916	0.590849	0.276726	0.207465
28/05/2026	0.836866	0.536763	0.546429	0.589936	0.273527	0.202440
29/05/2026	0.835118	0.535271	0.544958	0.589032	0.270393	0.197908
30/05/2026	0.833369	0.533799	0.543504	0.588136	0.267318	0.193790
31/05/2026	0.831621	0.532343	0.542068	0.587247	0.264296	0.190023
01/06/2026	0.829877	0.530918	0.540657	0.586367	0.261427	0.187004
02/06/2026	0.828138	0.529519	0.539277	0.585499	0.258604	0.184347
03/06/2026	0.826405	0.528141	0.537927	0.584646	0.255848	0.181952
04/06/2026	0.824678	0.526782	0.536601	0.583804	0.253160	0.179803
05/06/2026	0.825392	0.527235	0.536810	0.583630	0.261530	0.200070
06/06/2026	0.828291	0.530226	0.538973	0.584525	0.273401	0.228658
07/06/2026	0.830143	0.533491	0.541196	0.585853	0.277389	0.236675
08/06/2026	0.830005	0.534914	0.542043	0.586694	0.277192	0.235291
09/06/2026	0.828659	0.534224	0.541541	0.586647	0.274082	0.228390
10/06/2026	0.826995	0.532622	0.540430	0.585957	0.271701	0.224710
11/06/2026	0.828302	0.533041	0.541048	0.585886	0.280142	0.241319
12/06/2026	0.830010	0.534956	0.542522	0.586531	0.283105	0.243549
13/06/2026	0.830321	0.536593	0.543387	0.587212	0.285129	0.246863

14/06/2026	0.829370	0.536612	0.543215	0.587359	0.282448	0.241679
15/06/2026	0.827910	0.535310	0.542310	0.586905	0.279467	0.235020
16/06/2026	0.826397	0.533556	0.541114	0.586120	0.275929	0.227300
17/06/2026	0.824929	0.531901	0.539877	0.585273	0.272631	0.220088
18/06/2026	0.823479	0.530504	0.538703	0.584486	0.270176	0.215836
19/06/2026	0.822058	0.529681	0.537814	0.583821	0.271909	0.226585
20/06/2026	0.821861	0.529966	0.537980	0.583620	0.277152	0.248262
21/06/2026	0.822559	0.531348	0.539230	0.584026	0.284446	0.275921
22/06/2026	0.822844	0.532955	0.540734	0.584724	0.290400	0.299007
23/06/2026	0.822384	0.533571	0.541651	0.585263	0.290550	0.300341
24/06/2026	0.821470	0.532897	0.541656	0.585341	0.288161	0.290548
25/06/2026	0.822818	0.533240	0.542505	0.585611	0.295721	0.300612
26/06/2026	0.827325	0.536617	0.545656	0.587015	0.309301	0.319700
27/06/2026	0.839585	0.545251	0.554206	0.591659	0.326660	0.343756
28/06/2026	0.850500	0.554878	0.562941	0.597570	0.332605	0.343312
29/06/2026	0.860095	0.563541	0.570515	0.603227	0.344263	0.356559
30/06/2026	0.865686	0.569339	0.575284	0.607076	0.349630	0.361654
01/07/2026	0.867185	0.571491	0.576843	0.608663	0.348870	0.353541
02/07/2026	0.866817	0.571353	0.576617	0.608668	0.351557	0.360847
03/07/2026	0.865827	0.570076	0.575806	0.608008	0.350154	0.354416
04/07/2026	0.864654	0.568307	0.574701	0.607215	0.346785	0.339165
05/07/2026	0.863364	0.566205	0.573263	0.606371	0.341719	0.317808
07/07/2026	0.859987	0.561057	0.569177	0.604063	0.329613	0.271870
09/07/2026	0.856956	0.557032	0.565567	0.602004	0.320010	0.241316
12/07/2026	0.851165	0.550485	0.559224	0.598395	0.304500	0.201999
13/07/2026	0.849098	0.548400	0.557121	0.597202	0.299634	0.192239
14/07/2026	0.847032	0.546930	0.555320	0.596084	0.300691	0.202241
15/07/2026	0.845008	0.545548	0.553786	0.595104	0.296426	0.198097
16/07/2026	0.843058	0.544556	0.552482	0.594247	0.299241	0.212796
17/07/2026	0.841216	0.543929	0.551530	0.593524	0.301070	0.226537
18/07/2026	0.839460	0.542952	0.550596	0.592888	0.297638	0.222465
19/07/2026	0.837725	0.541391	0.549329	0.592170	0.293927	0.213457
21/07/2026	0.833864	0.537244	0.545852	0.590135	0.283789	0.190775
23/07/2026	0.830476	0.533647	0.542606	0.588159	0.274849	0.172394
24/07/2026	0.828588	0.531867	0.540864	0.587087	0.271071	0.166621
25/07/2026	0.826685	0.530153	0.539177	0.586066	0.266653	0.160088
26/07/2026	0.824803	0.528972	0.537753	0.585127	0.267927	0.170973
27/07/2026	0.822967	0.527808	0.536536	0.584302	0.263901	0.168645
28/07/2026	0.821159	0.526384	0.535223	0.583505	0.260741	0.164051
29/07/2026	0.819360	0.524878	0.533817	0.582649	0.258461	0.163009
30/07/2026	0.817561	0.523308	0.532388	0.581744	0.254347	0.157581
31/07/2026	0.815783	0.522119	0.531117	0.580867	0.254810	0.164894
01/08/2026	0.814047	0.521056	0.530036	0.580091	0.252127	0.166173
02/08/2026	0.812347	0.519803	0.528920	0.579369	0.249001	0.162623
03/08/2026	0.810657	0.518316	0.527651	0.578599	0.245631	0.157461
05/08/2026	0.806935	0.514905	0.524631	0.576706	0.237704	0.145437
06/08/2026	0.805559	0.513669	0.523488	0.575971	0.234779	0.141089
09/08/2026	0.800067	0.508985	0.519033	0.573141	0.223877	0.127691

13/08/2026	0.793640	0.503795	0.514013	0.569949	0.212221	0.116997
20/08/2026	0.782154	0.494895	0.505441	0.564368	0.193214	0.104253
21/08/2026	0.780574	0.493847	0.504368	0.563622	0.192242	0.107772
22/08/2026	0.779026	0.492784	0.503355	0.562915	0.189535	0.106877
23/08/2026	0.777507	0.491663	0.502333	0.562229	0.187265	0.105517
24/08/2026	0.776013	0.490580	0.501324	0.561541	0.185687	0.106416
25/08/2026	0.778328	0.492013	0.502711	0.561951	0.195858	0.129767
26/08/2026	0.781122	0.494981	0.505087	0.563207	0.199198	0.135501
27/08/2026	0.785577	0.499651	0.508669	0.565334	0.212650	0.161067
28/08/2026	0.788778	0.503983	0.511815	0.567444	0.217732	0.170305
29/08/2026	0.795340	0.509417	0.516761	0.570407	0.230377	0.194100
30/08/2026	0.801076	0.514783	0.521545	0.573523	0.236027	0.204006
31/08/2026	0.803376	0.517899	0.524018	0.575607	0.235538	0.200090
01/09/2026	0.803026	0.518195	0.524152	0.576155	0.234136	0.197153
02/09/2026	0.801689	0.516779	0.523132	0.575575	0.231658	0.193809
03/09/2026	0.800879	0.515738	0.522459	0.574801	0.234998	0.210070
04/09/2026	0.800281	0.515293	0.522344	0.574351	0.235048	0.215937
05/09/2026	0.799510	0.514978	0.522288	0.574153	0.235614	0.220161
06/09/2026	0.798538	0.514410	0.522040	0.573941	0.235383	0.222448
07/09/2026	0.797476	0.513485	0.521577	0.573583	0.233697	0.219590
08/09/2026	0.796392	0.512368	0.520952	0.573098	0.232105	0.215725
09/09/2026	0.795296	0.511231	0.520244	0.572552	0.230424	0.211878
10/09/2026	0.794184	0.510144	0.519515	0.572001	0.228746	0.208311
11/09/2026	0.793066	0.509283	0.518872	0.571485	0.228892	0.211021
12/09/2026	0.791988	0.508883	0.518515	0.571074	0.231424	0.224113
13/09/2026	0.790972	0.508468	0.518314	0.570786	0.230608	0.225051
14/09/2026	0.789991	0.507786	0.517980	0.570514	0.229892	0.223126
15/09/2026	0.789009	0.506860	0.517460	0.570153	0.228388	0.219242
16/09/2026	0.788008	0.505850	0.516839	0.569703	0.226636	0.214641
17/09/2026	0.786990	0.504865	0.516185	0.569220	0.224921	0.210424
18/09/2026	0.785973	0.504157	0.515632	0.568769	0.225548	0.214351
19/09/2026	0.784972	0.503486	0.515171	0.568384	0.223836	0.212910
20/09/2026	0.783982	0.502713	0.514670	0.568023	0.222667	0.210600
21/09/2026	0.782992	0.501842	0.514089	0.567628	0.221219	0.207646
22/09/2026	0.781995	0.500946	0.513463	0.567193	0.219669	0.204417
23/09/2026	0.780992	0.500071	0.512821	0.566740	0.218136	0.201401
24/09/2026	0.779986	0.499222	0.512179	0.566292	0.216651	0.198750
25/09/2026	0.778977	0.498392	0.511538	0.565850	0.215207	0.196423
26/09/2026	0.777968	0.497575	0.510899	0.565413	0.213793	0.194342
27/09/2026	0.776961	0.496767	0.510263	0.564977	0.212404	0.192445
28/09/2026	0.775955	0.495970	0.509630	0.564543	0.211035	0.190698
29/09/2026	0.774957	0.495261	0.509039	0.564120	0.210441	0.191587
30/09/2026	0.773978	0.494657	0.508527	0.563728	0.209960	0.193637
01/10/2026	0.773027	0.494168	0.508124	0.563387	0.209911	0.198586
02/10/2026	0.772117	0.493749	0.507832	0.563103	0.209890	0.204051
03/10/2026	0.771252	0.493358	0.507615	0.562864	0.209907	0.209394
04/10/2026	0.770431	0.492970	0.507439	0.562653	0.209914	0.214279
05/10/2026	0.769651	0.492583	0.507289	0.562454	0.209903	0.218595

06/10/2026	0.771376	0.493781	0.508592	0.562910	0.218715	0.237298
07/10/2026	0.775232	0.497247	0.511618	0.564349	0.230408	0.262311
08/10/2026	0.781080	0.503039	0.516453	0.566983	0.246343	0.289528
09/10/2026	0.787250	0.509861	0.521942	0.570284	0.261367	0.315910
10/10/2026	0.790823	0.515050	0.526038	0.573102	0.267337	0.324193
11/10/2026	0.794759	0.519178	0.529782	0.575519	0.278572	0.338936
12/10/2026	0.797704	0.522281	0.532748	0.577390	0.283200	0.341075
13/10/2026	0.798895	0.524199	0.534489	0.578563	0.286400	0.345641
14/10/2026	0.800400	0.525596	0.536081	0.579450	0.291310	0.357984
15/10/2026	0.801585	0.526627	0.537557	0.580213	0.293808	0.362943
16/10/2026	0.802008	0.527098	0.538543	0.580783	0.294364	0.362038
17/10/2026	0.801853	0.526871	0.538947	0.581055	0.293615	0.357128
18/10/2026	0.801466	0.526162	0.538953	0.581050	0.292352	0.350474
19/10/2026	0.801041	0.525299	0.538776	0.580889	0.290986	0.343613
20/10/2026	0.800610	0.524475	0.538537	0.580683	0.289718	0.337413
21/10/2026	0.800157	0.523725	0.538273	0.580484	0.288530	0.331975
22/10/2026	0.799668	0.523015	0.537988	0.580290	0.287388	0.327185
23/10/2026	0.799144	0.522321	0.537682	0.580093	0.286332	0.323133
24/10/2026	0.798590	0.521631	0.537355	0.579885	0.285216	0.319321
25/10/2026	0.798012	0.520943	0.537006	0.579665	0.284115	0.315815
26/10/2026	0.798185	0.520901	0.537206	0.579653	0.287408	0.328371
27/10/2026	0.798417	0.521196	0.537767	0.579865	0.287920	0.332204
28/10/2026	0.798284	0.521296	0.538157	0.580110	0.287827	0.331550
29/10/2026	0.797835	0.520936	0.538164	0.580187	0.286812	0.327845
30/10/2026	0.797255	0.520255	0.537890	0.580057	0.285471	0.323061
31/10/2026	0.796657	0.519498	0.537504	0.579807	0.284154	0.318668
01/11/2026	0.796074	0.518904	0.537176	0.579554	0.283781	0.320691
02/11/2026	0.795522	0.518509	0.537037	0.579380	0.284197	0.327410
03/11/2026	0.795009	0.518032	0.537049	0.579299	0.284019	0.333034
04/11/2026	0.795562	0.517920	0.537704	0.579507	0.287511	0.348209
05/11/2026	0.800825	0.520500	0.541329	0.581237	0.298434	0.368132
06/11/2026	0.810600	0.527187	0.548281	0.585118	0.314588	0.389423
07/11/2026	0.818131	0.534739	0.554672	0.589451	0.323410	0.400469
08/11/2026	0.824062	0.541120	0.559772	0.593187	0.335011	0.413866
09/11/2026	0.829777	0.546382	0.564238	0.596193	0.347262	0.429349
10/11/2026	0.833331	0.550095	0.567391	0.598290	0.352733	0.435940
11/11/2026	0.834429	0.551652	0.568861	0.599395	0.353565	0.436168
12/11/2026	0.834160	0.551256	0.569077	0.599651	0.352202	0.433307
13/11/2026	0.833551	0.549963	0.568763	0.599411	0.351008	0.431853
14/11/2026	0.833012	0.548614	0.568392	0.599039	0.349583	0.429578
15/11/2026	0.832581	0.547627	0.568160	0.598739	0.349877	0.432330
16/11/2026	0.832184	0.546858	0.568056	0.598551	0.349461	0.433568
17/11/2026	0.831775	0.546067	0.567956	0.598413	0.348780	0.432630
18/11/2026	0.837498	0.548221	0.571342	0.600064	0.357470	0.441256
19/11/2026	0.845485	0.553397	0.576743	0.603241	0.367325	0.455472
20/11/2026	0.850540	0.558646	0.581100	0.606373	0.373346	0.467821
21/11/2026	0.851953	0.561330	0.583163	0.608234	0.375540	0.474994
22/11/2026	0.851486	0.561219	0.583430	0.608685	0.374621	0.473994

23/11/2026	0.850610	0.559720	0.582884	0.608302	0.373055	0.469561
25/11/2026	0.849006	0.556637	0.581503	0.607154	0.369780	0.459329
26/11/2026	0.849728	0.556239	0.581677	0.607011	0.372755	0.465286
27/11/2026	0.854071	0.558569	0.584329	0.608246	0.382956	0.477237
28/11/2026	0.860641	0.563798	0.588968	0.610899	0.396617	0.492192
29/11/2026	0.868551	0.571073	0.594909	0.614641	0.412464	0.507462
30/11/2026	0.873660	0.577312	0.599533	0.618014	0.420429	0.514670
01/12/2026	0.889640	0.586426	0.609990	0.624408	0.430783	0.523768
02/12/2026	0.932711	0.601132	0.626547	0.634950	0.444513	0.535956
03/12/2026	0.971626	0.616985	0.640983	0.645667	0.456355	0.549982
04/12/2026	0.989146	0.627629	0.648267	0.652482	0.462550	0.561862
05/12/2026	0.990322	0.630935	0.649229	0.654480	0.462978	0.563776
06/12/2026	0.985514	0.629422	0.647143	0.653398	0.461192	0.559617
07/12/2026	0.980536	0.626515	0.644525	0.651399	0.458812	0.552863
08/12/2026	0.976696	0.624024	0.642326	0.649673	0.456517	0.545404
09/12/2026	0.978972	0.624179	0.642473	0.649342	0.463899	0.549735
10/12/2026	0.985306	0.627342	0.644734	0.650457	0.474567	0.560980
11/12/2026	0.989319	0.631184	0.646957	0.651958	0.481197	0.572651
12/12/2026	0.989119	0.633071	0.647682	0.652777	0.481896	0.573729
13/12/2026	0.986375	0.632454	0.646900	0.652557	0.479968	0.568218
14/12/2026	0.983117	0.630628	0.645471	0.651648	0.478628	0.565927
15/12/2026	0.980053	0.628663	0.643991	0.650553	0.476132	0.560108
16/12/2026	0.977207	0.626904	0.642589	0.649540	0.473928	0.553484
17/12/2026	0.975939	0.626100	0.642018	0.648980	0.476118	0.557694
18/12/2026	1.025745	0.632914	0.654865	0.663544	0.486801	0.568605
19/12/2026	1.098163	0.649563	0.681047	0.692514	0.506291	0.585716
20/12/2026	1.143227	0.668625	0.706175	0.719612	0.517126	0.594925
21/12/2026	1.153716	0.681047	0.719278	0.732858	0.517828	0.595260
22/12/2026	1.148602	0.685341	0.721632	0.733075	0.519441	0.600188
23/12/2026	1.143601	0.685684	0.719773	0.727864	0.524380	0.600911
24/12/2026	1.142982	0.686589	0.718461	0.723311	0.534924	0.601000
25/12/2026	1.144731	0.689520	0.718621	0.721055	0.546972	0.601079
26/12/2026	1.143740	0.692526	0.718458	0.719804	0.549816	0.600771
27/12/2026	1.139444	0.693742	0.717024	0.718170	0.546734	0.600810
28/12/2026	1.134380	0.693432	0.715033	0.715985	0.544392	0.600795
29/12/2026	1.129050	0.692335	0.712792	0.713525	0.539365	0.598045
30/12/2026	1.125673	0.691713	0.710964	0.711166	0.539795	0.600220
31/12/2026	1.122285	0.691333	0.709159	0.708989	0.536996	0.598870
01/01/2027	1.131640	0.693692	0.710883	0.710444	0.548794	0.600349
02/01/2027	1.152330	0.699654	0.717243	0.716808	0.565948	0.600800
03/01/2027	1.170061	0.708710	0.725631	0.725251	0.577937	0.601173
04/01/2027	1.176286	0.715889	0.730755	0.730006	0.582328	0.601519
05/01/2027	1.183695	0.721153	0.734244	0.732661	0.591397	0.601729
06/01/2027	1.189224	0.725143	0.736804	0.734156	0.596461	0.601843
07/01/2027	1.188667	0.727547	0.737663	0.734333	0.593433	0.601823
08/01/2027	1.183270	0.727682	0.736382	0.732990	0.583046	0.597502
09/01/2027	1.176162	0.725922	0.733556	0.730440	0.571231	0.592838
10/01/2027	1.169227	0.723334	0.730172	0.727373	0.560164	0.587701

11/01/2027	1.162870	0.720766	0.726858	0.724364	0.551118	0.583628
12/01/2027	1.156938	0.718524	0.723806	0.721639	0.544416	0.582233
13/01/2027	1.153141	0.717519	0.721926	0.719618	0.546724	0.594578
14/01/2027	1.150053	0.717554	0.720854	0.718209	0.549276	0.600782
15/01/2027	1.146749	0.717919	0.720104	0.717145	0.551206	0.601178
16/01/2027	1.142567	0.717526	0.718900	0.715973	0.547140	0.595124
17/01/2027	1.139822	0.717179	0.718177	0.715353	0.549441	0.600049
18/01/2027	1.164715	0.721021	0.724110	0.722562	0.562324	0.601096
19/01/2027	1.192340	0.728667	0.734226	0.733889	0.572877	0.601479
20/01/2027	1.203693	0.735615	0.741887	0.742195	0.571721	0.599095
21/01/2027	1.201080	0.738271	0.743836	0.744305	0.563513	0.595155
22/01/2027	1.193203	0.736790	0.741467	0.741624	0.553227	0.590019
23/01/2027	1.185250	0.733629	0.737619	0.737254	0.545105	0.588790
24/01/2027	1.178395	0.730572	0.733941	0.733285	0.537622	0.584929
25/01/2027	1.172320	0.728070	0.730725	0.730189	0.531420	0.580014
26/01/2027	1.168445	0.726907	0.728716	0.728040	0.533540	0.590080
27/01/2027	1.164831	0.726392	0.727204	0.726362	0.532555	0.593596
28/01/2027	1.160375	0.725474	0.725322	0.724622	0.528966	0.590906
29/01/2027	1.155253	0.723721	0.722879	0.722573	0.524072	0.586030
30/01/2027	1.149988	0.721523	0.720194	0.720295	0.520051	0.585060
31/01/2027	1.144874	0.719271	0.717563	0.718005	0.516133	0.583439
01/02/2027	1.139956	0.716987	0.714997	0.715819	0.511550	0.576547
02/02/2027	1.135193	0.714634	0.712415	0.713711	0.507073	0.567414
03/02/2027	1.130544	0.712227	0.709805	0.711630	0.502453	0.557201
04/02/2027	1.125992	0.709834	0.707200	0.709568	0.498003	0.547487
05/02/2027	1.121526	0.707479	0.704626	0.707542	0.493637	0.538294
06/02/2027	1.117507	0.705562	0.702400	0.705678	0.492577	0.542126
07/02/2027	1.113600	0.703810	0.700433	0.703995	0.489291	0.539913
08/02/2027	1.109601	0.701912	0.698422	0.702383	0.485984	0.534384
10/02/2027	1.100564	0.697062	0.693483	0.698610	0.477616	0.517786
11/02/2027	1.097543	0.695312	0.691724	0.697280	0.474676	0.511705
12/02/2027	1.093623	0.693045	0.689423	0.695531	0.470913	0.504365
13/02/2027	1.089779	0.690853	0.687175	0.693826	0.467311	0.497966
14/02/2027	1.085999	0.688708	0.684976	0.692171	0.463795	0.492162
15/02/2027	1.082279	0.686588	0.682816	0.690557	0.460358	0.486819
16/02/2027	1.078616	0.684491	0.680693	0.688973	0.457013	0.481963
17/02/2027	1.075010	0.682420	0.678604	0.687416	0.453691	0.477343
18/02/2027	1.071458	0.680379	0.676549	0.685887	0.450451	0.473081
19/02/2027	1.067959	0.678366	0.674527	0.684386	0.447238	0.469023
20/02/2027	1.064512	0.676266	0.672537	0.682911	0.444172	0.465548
21/02/2027	1.061629	0.674543	0.670965	0.681610	0.444445	0.474203
22/02/2027	1.058838	0.673039	0.669683	0.680494	0.442348	0.476328
23/02/2027	1.055854	0.671510	0.668345	0.679433	0.440634	0.476962
24/02/2027	1.052718	0.669744	0.666800	0.678293	0.437745	0.473590
25/02/2027	1.049554	0.667790	0.665085	0.677039	0.434758	0.468993
26/02/2027	1.046432	0.665797	0.663309	0.675722	0.431791	0.464562
27/02/2027	1.043892	0.664329	0.661945	0.674560	0.432220	0.472552
28/02/2027	1.041444	0.663179	0.660909	0.673601	0.430852	0.476230

01/03/2027	1.038787	0.661877	0.659801	0.672712	0.428592	0.474327
02/03/2027	1.038911	0.662160	0.660134	0.672527	0.436113	0.484083
03/03/2027	1.040576	0.664402	0.661762	0.673137	0.444265	0.500768
04/03/2027	1.041424	0.667108	0.663497	0.674038	0.449927	0.520153
05/03/2027	1.045987	0.671238	0.667473	0.676196	0.460123	0.539538
06/03/2027	1.054181	0.677931	0.673818	0.679931	0.473795	0.557837
07/03/2027	1.060190	0.684945	0.679294	0.683698	0.483247	0.576761
08/03/2027	1.061425	0.688818	0.681687	0.685877	0.484376	0.578275
09/03/2027	1.059426	0.688616	0.681175	0.686032	0.481138	0.566694
10/03/2027	1.058629	0.687477	0.680435	0.685389	0.484888	0.567968
11/03/2027	1.057982	0.686911	0.679995	0.684751	0.485930	0.565670
12/03/2027	1.056347	0.686297	0.679238	0.684168	0.483743	0.555260
13/03/2027	1.053835	0.684807	0.677810	0.683361	0.479944	0.541295
14/03/2027	1.050983	0.682386	0.675870	0.682198	0.475348	0.526350
15/03/2027	1.048108	0.679576	0.673721	0.680795	0.470711	0.512298
16/03/2027	1.045267	0.676857	0.671549	0.679333	0.466272	0.499807
17/03/2027	1.042434	0.674364	0.669411	0.677908	0.462014	0.488755
18/03/2027	1.039591	0.672022	0.667307	0.676530	0.457863	0.478827
19/03/2027	1.036739	0.669742	0.665227	0.675178	0.453796	0.469875
20/03/2027	1.033880	0.667485	0.663161	0.673832	0.449742	0.461588
21/03/2027	1.031021	0.665250	0.661108	0.672490	0.445738	0.453976
22/03/2027	1.028167	0.663046	0.659073	0.671155	0.441773	0.446964
23/03/2027	1.025324	0.660928	0.657085	0.669838	0.438342	0.442217
24/03/2027	1.022499	0.658851	0.655146	0.668548	0.434515	0.436804
25/03/2027	1.020079	0.657257	0.653578	0.667401	0.434519	0.444621
26/03/2027	1.018515	0.656502	0.652848	0.666638	0.436148	0.460743
27/03/2027	1.016866	0.655895	0.652419	0.666150	0.434648	0.465023
28/03/2027	1.014716	0.654774	0.651602	0.665604	0.432035	0.461727
29/03/2027	1.012213	0.653019	0.650243	0.664768	0.428292	0.453983
30/03/2027	1.009607	0.650938	0.648551	0.663663	0.424266	0.445229
31/03/2027	1.007021	0.648842	0.646762	0.662442	0.420344	0.437295
01/04/2027	1.004492	0.647145	0.645114	0.661255	0.419911	0.439211
02/04/2027	1.005245	0.647690	0.645524	0.661070	0.427776	0.452024
03/04/2027	1.009307	0.651535	0.648464	0.662421	0.442108	0.471381
04/04/2027	1.012017	0.655953	0.651280	0.664247	0.448129	0.473708
05/04/2027	1.011809	0.658300	0.652283	0.665297	0.451000	0.477635
06/04/2027	1.010043	0.658213	0.651879	0.665252	0.451649	0.483534
07/04/2027	1.007816	0.656606	0.650777	0.664485	0.449054	0.477752
08/04/2027	1.005565	0.654814	0.649475	0.663471	0.448839	0.478928
09/04/2027	1.008869	0.656070	0.651394	0.664103	0.456358	0.488682
10/04/2027	1.013593	0.659950	0.654987	0.666101	0.464329	0.505068
11/04/2027	1.015530	0.663334	0.657458	0.667977	0.467053	0.510018
12/04/2027	1.014580	0.664108	0.657788	0.668656	0.466347	0.506729
13/04/2027	1.012325	0.662461	0.656523	0.668076	0.462511	0.493710
14/04/2027	1.015010	0.662711	0.657620	0.668315	0.469163	0.497404
15/04/2027	1.022348	0.667314	0.662158	0.670789	0.482462	0.510897
16/04/2027	1.028587	0.673863	0.667189	0.674270	0.495163	0.530145
17/04/2027	1.030514	0.678058	0.669893	0.676758	0.499397	0.531673

18/04/2027	1.030435	0.679217	0.670578	0.677642	0.503417	0.540381
19/04/2027	1.032038	0.680157	0.671688	0.678096	0.516746	0.553505
20/04/2027	1.033167	0.681625	0.672860	0.678559	0.523848	0.559401
21/04/2027	1.032462	0.682149	0.672988	0.678735	0.520489	0.548401
22/04/2027	1.030388	0.680835	0.671790	0.678243	0.513172	0.530777
23/04/2027	1.027828	0.678289	0.669782	0.677101	0.505450	0.513595
24/04/2027	1.025264	0.675798	0.667698	0.675677	0.501428	0.509371
25/04/2027	1.025824	0.675637	0.667611	0.675160	0.507297	0.517353
26/04/2027	1.026718	0.676872	0.668324	0.675411	0.510294	0.513227
27/04/2027	1.026043	0.677386	0.668201	0.675577	0.508528	0.502192
28/04/2027	1.023981	0.676128	0.666854	0.675063	0.503027	0.487419
29/04/2027	1.021356	0.673610	0.664745	0.673883	0.496251	0.472018
30/04/2027	1.018663	0.670812	0.662409	0.672395	0.489962	0.458880
01/05/2027	1.016006	0.668106	0.660047	0.670883	0.483234	0.442001
02/05/2027	1.013341	0.665431	0.657607	0.669408	0.476382	0.422972
03/05/2027	1.010623	0.662690	0.655044	0.667912	0.469526	0.403688
04/05/2027	1.007835	0.659892	0.652381	0.666356	0.462727	0.385468
05/05/2027	1.004995	0.657296	0.649762	0.664773	0.458119	0.375749
06/05/2027	1.002121	0.654760	0.647210	0.663218	0.451759	0.362758
07/05/2027	0.999220	0.652175	0.644633	0.661683	0.445793	0.349994
08/05/2027	0.996289	0.649527	0.642004	0.660130	0.439657	0.337532
09/05/2027	0.993330	0.646869	0.639351	0.658547	0.433533	0.325722
10/05/2027	0.990350	0.644244	0.636705	0.656952	0.427534	0.314937
11/05/2027	0.987356	0.641664	0.634084	0.655365	0.421679	0.305216
12/05/2027	0.984354	0.639123	0.631493	0.653793	0.415961	0.296433
13/05/2027	0.981350	0.636615	0.628937	0.652234	0.410363	0.288445
14/05/2027	0.978347	0.634137	0.626415	0.650688	0.404877	0.281142
15/05/2027	0.975351	0.631688	0.623930	0.649155	0.399497	0.274441
16/05/2027	0.972364	0.629269	0.621482	0.647637	0.394222	0.268282
17/05/2027	0.969390	0.626881	0.619074	0.646135	0.389051	0.262613
18/05/2027	0.966431	0.624522	0.616705	0.644649	0.383982	0.257387
19/05/2027	0.963491	0.622194	0.614377	0.643181	0.379013	0.252560
20/05/2027	0.960588	0.620187	0.612223	0.641760	0.377069	0.257328
21/05/2027	0.957738	0.618229	0.610228	0.640424	0.372349	0.255249
22/05/2027	0.954930	0.616159	0.608227	0.639131	0.368144	0.251868
23/05/2027	0.952156	0.614083	0.606218	0.637829	0.364696	0.251047
24/05/2027	0.949434	0.612363	0.604406	0.636558	0.363876	0.259207
25/05/2027	0.947678	0.611591	0.603474	0.635645	0.366650	0.281209
26/05/2027	0.948747	0.613004	0.604627	0.635804	0.377207	0.310027
27/05/2027	0.954655	0.618045	0.609228	0.638038	0.392657	0.340580
28/05/2027	0.959530	0.623848	0.613917	0.641025	0.399444	0.351355
29/05/2027	0.960616	0.626847	0.615991	0.642965	0.397941	0.344837
30/05/2027	0.958999	0.626189	0.615385	0.643125	0.393024	0.331608
31/05/2027	0.956462	0.623451	0.613374	0.641962	0.387049	0.317081
01/06/2027	0.953912	0.620684	0.611186	0.640361	0.384299	0.313184
02/06/2027	0.951523	0.618641	0.609382	0.638938	0.382210	0.313723
03/06/2027	0.950460	0.617957	0.608698	0.638149	0.386030	0.331447
04/06/2027	0.949522	0.617595	0.608472	0.637807	0.384712	0.330365

05/06/2027	0.947966	0.616607	0.607764	0.637407	0.381757	0.321718
06/06/2027	0.945858	0.614783	0.606371	0.636626	0.377343	0.309986
07/06/2027	0.943526	0.612716	0.604670	0.635519	0.374586	0.304806
08/06/2027	0.942386	0.611718	0.603807	0.634657	0.377665	0.319590
09/06/2027	0.941380	0.611216	0.603440	0.634167	0.376171	0.318415
10/06/2027	0.944988	0.613354	0.605875	0.635264	0.385765	0.336178
11/06/2027	0.954065	0.619744	0.612174	0.638768	0.399830	0.359467
12/06/2027	0.960969	0.626695	0.617950	0.642798	0.404135	0.359301
13/06/2027	0.966891	0.632840	0.622743	0.646407	0.414941	0.374441
14/06/2027	0.970399	0.637171	0.625912	0.648801	0.422344	0.391903
15/06/2027	0.972080	0.639833	0.627817	0.650067	0.429399	0.412719
16/06/2027	0.971824	0.640286	0.628329	0.650407	0.428128	0.407610
17/06/2027	0.970211	0.638920	0.627505	0.649958	0.425902	0.398209
18/06/2027	0.968024	0.636670	0.625941	0.648961	0.422609	0.388209
19/06/2027	0.965722	0.634060	0.624071	0.647717	0.416749	0.370408
21/06/2027	0.961025	0.628729	0.619884	0.645041	0.405968	0.336820
22/06/2027	0.958631	0.626362	0.617776	0.643691	0.402966	0.329640
23/06/2027	0.956208	0.624227	0.615817	0.642409	0.399219	0.322869
24/06/2027	0.956099	0.623838	0.615368	0.641825	0.405636	0.337685
25/06/2027	0.956183	0.624462	0.615628	0.641794	0.407617	0.340784
26/06/2027	0.956251	0.625554	0.616155	0.642044	0.413370	0.359003
27/06/2027	0.956430	0.626740	0.617040	0.642432	0.419356	0.381886
28/06/2027	0.955798	0.627306	0.617683	0.642702	0.421610	0.391637
29/06/2027	0.954279	0.627055	0.617702	0.642641	0.423405	0.401916
30/06/2027	0.952303	0.625666	0.616999	0.642179	0.419209	0.389983
01/07/2027	0.950198	0.623343	0.615563	0.641324	0.413193	0.367671
02/07/2027	0.948049	0.620574	0.613604	0.640158	0.406270	0.342939
03/07/2027	0.945834	0.617761	0.611389	0.638816	0.399195	0.319444
04/07/2027	0.943531	0.615054	0.609085	0.637423	0.392356	0.298773
05/07/2027	0.941142	0.612445	0.606748	0.636033	0.385819	0.281024
06/07/2027	0.938688	0.610083	0.604483	0.634668	0.381474	0.271870
07/07/2027	0.936193	0.607780	0.602294	0.633343	0.375486	0.260055
08/07/2027	0.933665	0.605436	0.600089	0.632031	0.369993	0.248954
09/07/2027	0.931105	0.603019	0.597830	0.630695	0.364057	0.237467
10/07/2027	0.928515	0.600576	0.595530	0.629326	0.358122	0.226440
11/07/2027	0.925936	0.598716	0.593482	0.627997	0.357949	0.234365
12/07/2027	0.923642	0.597706	0.592105	0.626919	0.359626	0.252841
13/07/2027	0.921469	0.596655	0.591013	0.626096	0.356596	0.251847
14/07/2027	0.919245	0.595024	0.589617	0.625273	0.352541	0.244425
15/07/2027	0.916931	0.592971	0.587874	0.624247	0.348197	0.236972
16/07/2027	0.914559	0.590715	0.585954	0.623047	0.342239	0.225635
17/07/2027	0.912159	0.588462	0.583959	0.621780	0.336945	0.215845
18/07/2027	0.909743	0.586246	0.581932	0.620512	0.331425	0.206427
19/07/2027	0.907309	0.584059	0.579887	0.619249	0.326106	0.197927
20/07/2027	0.908041	0.584245	0.579876	0.618895	0.334097	0.217189
21/07/2027	0.909127	0.585836	0.580793	0.619279	0.334913	0.218478
22/07/2027	0.908624	0.586760	0.580898	0.619580	0.333303	0.215170
23/07/2027	0.906714	0.585875	0.579760	0.619200	0.328528	0.207404

25/07/2027	0.901772	0.581385	0.575859	0.616931	0.317413	0.190118
26/07/2027	0.899209	0.578949	0.573728	0.615454	0.314272	0.189450
27/07/2027	0.896750	0.576786	0.571781	0.614106	0.308938	0.183629
28/07/2027	0.894381	0.575002	0.570024	0.612936	0.306653	0.184813
29/07/2027	0.892273	0.573948	0.568755	0.611970	0.308754	0.202709
30/07/2027	0.892401	0.574629	0.569145	0.611759	0.317100	0.229694
31/07/2027	0.903224	0.580973	0.576401	0.615345	0.331752	0.261676
01/08/2027	0.914449	0.589696	0.585075	0.620967	0.336129	0.266256
02/08/2027	0.919293	0.595466	0.589755	0.625221	0.334883	0.259144
03/08/2027	0.918805	0.596208	0.589895	0.626450	0.330363	0.247793
04/08/2027	0.916267	0.593638	0.587606	0.625300	0.324566	0.234705
05/08/2027	0.913553	0.590297	0.584808	0.623288	0.319240	0.223310
06/08/2027	0.911051	0.587425	0.582286	0.621418	0.314360	0.213721
08/08/2027	0.905558	0.582157	0.577341	0.618102	0.304248	0.196144
12/08/2027	0.896410	0.574386	0.569883	0.613395	0.288713	0.174573
13/08/2027	0.893955	0.572371	0.567964	0.612170	0.284767	0.170170
14/08/2027	0.893759	0.572129	0.567493	0.611527	0.292389	0.191535
15/08/2027	0.893765	0.572863	0.567755	0.611418	0.293362	0.195439
16/08/2027	0.891522	0.572647	0.566910	0.610976	0.291251	0.193227
19/08/2027	0.886806	0.569158	0.563804	0.609161	0.282963	0.181076
20/08/2027	0.884317	0.566953	0.561962	0.607907	0.279971	0.179081
21/08/2027	0.881919	0.564829	0.560178	0.606634	0.275539	0.173852
22/08/2027	0.880341	0.563807	0.559138	0.605686	0.279337	0.194003
23/08/2027	0.885000	0.566632	0.562331	0.606927	0.290454	0.223408
24/08/2027	0.890195	0.571336	0.566778	0.609552	0.294713	0.231004
25/08/2027	0.893547	0.575796	0.570194	0.612053	0.303757	0.254162
26/08/2027	0.894346	0.578474	0.572014	0.613454	0.310033	0.276353
27/08/2027	0.893357	0.578706	0.572306	0.613681	0.308658	0.273265
28/08/2027	0.891589	0.577145	0.571408	0.613081	0.305477	0.262303
29/08/2027	0.889618	0.574826	0.569882	0.612041	0.300852	0.248082
30/08/2027	0.887638	0.572483	0.568174	0.610863	0.296053	0.233899
31/08/2027	0.885686	0.570651	0.566608	0.609742	0.294534	0.231106
01/09/2027	0.883766	0.569263	0.565325	0.608776	0.292646	0.232848
02/09/2027	0.884610	0.569898	0.565883	0.608696	0.301695	0.253223
03/09/2027	0.885763	0.571923	0.567334	0.609296	0.307856	0.269250
04/09/2027	0.890089	0.576002	0.570926	0.611189	0.319829	0.293144
05/09/2027	0.893981	0.580642	0.574814	0.613566	0.328503	0.314933
06/09/2027	0.895206	0.583455	0.577082	0.615274	0.329790	0.319165
07/09/2027	0.895269	0.584412	0.578079	0.616026	0.333879	0.334995
08/09/2027	0.894752	0.584426	0.578580	0.616120	0.336880	0.350535
09/09/2027	0.893812	0.584054	0.578843	0.615962	0.338093	0.357820
10/09/2027	0.893028	0.583746	0.579149	0.615843	0.340849	0.370460
11/09/2027	0.892199	0.583188	0.579355	0.615753	0.339934	0.368585
12/09/2027	0.891963	0.582946	0.579805	0.615777	0.343552	0.380354
13/09/2027	0.891982	0.583207	0.580653	0.615970	0.347218	0.394587
14/09/2027	0.891613	0.583244	0.581367	0.616202	0.346863	0.392649
15/09/2027	0.890762	0.582658	0.581508	0.616235	0.346109	0.387011
16/09/2027	0.889635	0.581465	0.581103	0.615956	0.343451	0.376168

17/09/2027	0.888413	0.580003	0.580375	0.615436	0.340734	0.364805
18/09/2027	0.887162	0.578553	0.579525	0.614814	0.338138	0.354856
19/09/2027	0.885887	0.577202	0.578646	0.614187	0.335662	0.346313
20/09/2027	0.884581	0.575907	0.577750	0.613578	0.333182	0.338505
21/09/2027	0.883243	0.574627	0.576828	0.612972	0.330766	0.331428
22/09/2027	0.881876	0.573351	0.575878	0.612355	0.328386	0.325031
23/09/2027	0.880485	0.572091	0.574908	0.611724	0.326051	0.319291
24/09/2027	0.879075	0.570844	0.573924	0.611086	0.323690	0.313899
25/09/2027	0.877650	0.569610	0.572929	0.610443	0.321362	0.308937
26/09/2027	0.877883	0.569551	0.572938	0.610223	0.326273	0.322904
27/09/2027	0.878212	0.570188	0.573486	0.610385	0.327436	0.326762
28/09/2027	0.877711	0.570532	0.573704	0.610558	0.327437	0.327034
29/09/2027	0.877404	0.570769	0.573962	0.610678	0.330829	0.341245
30/09/2027	0.879580	0.572525	0.575808	0.611439	0.340645	0.361754
01/10/2027	0.881611	0.575168	0.578108	0.612649	0.346293	0.372150
02/10/2027	0.883188	0.577750	0.580207	0.613940	0.352420	0.388701
03/10/2027	0.883611	0.579166	0.581581	0.614857	0.354094	0.395434
04/10/2027	0.889485	0.582412	0.585819	0.617120	0.363217	0.408954
05/10/2027	0.898267	0.588614	0.592192	0.620856	0.376366	0.426297
06/10/2027	0.903871	0.594965	0.597297	0.624461	0.384292	0.437487
07/10/2027	0.908053	0.600066	0.601169	0.627309	0.394932	0.451218
08/10/2027	0.913805	0.605167	0.605557	0.630021	0.409125	0.467032
09/10/2027	0.919432	0.610542	0.610020	0.632720	0.420787	0.483663
10/10/2027	0.922168	0.614467	0.613038	0.634811	0.425756	0.491113
11/10/2027	0.922219	0.615620	0.614098	0.635809	0.425251	0.487848
12/10/2027	0.921066	0.614503	0.613744	0.635771	0.422608	0.478570
13/10/2027	0.919821	0.612790	0.612950	0.635190	0.422112	0.477325
14/10/2027	0.918705	0.611293	0.612224	0.634546	0.420415	0.471922
15/10/2027	0.917629	0.609999	0.611538	0.634011	0.418450	0.464252
16/10/2027	0.920180	0.610878	0.612911	0.634551	0.426299	0.470626
17/10/2027	0.923081	0.613345	0.615106	0.635808	0.431623	0.474721
18/10/2027	0.924076	0.615214	0.616409	0.636885	0.432034	0.470711
19/10/2027	0.923390	0.615197	0.616352	0.637195	0.430204	0.463307
20/10/2027	0.922044	0.613949	0.615533	0.636791	0.429584	0.463166
21/10/2027	0.921005	0.612726	0.614860	0.636198	0.430127	0.468846
22/10/2027	0.920807	0.612329	0.614932	0.635942	0.432764	0.481351
23/10/2027	0.921246	0.612783	0.615776	0.636192	0.436456	0.497166
24/10/2027	0.929077	0.616916	0.621158	0.638984	0.446552	0.514162
25/10/2027	0.937239	0.623087	0.627560	0.643101	0.453349	0.524017
26/10/2027	0.942620	0.628575	0.632236	0.646712	0.459866	0.534528
27/10/2027	0.950304	0.634241	0.637665	0.650395	0.470901	0.547158
28/10/2027	0.956379	0.639146	0.642161	0.653563	0.475197	0.544671
29/10/2027	0.959319	0.642300	0.644594	0.655585	0.478853	0.550117
30/10/2027	0.959425	0.642895	0.644987	0.656229	0.477413	0.544056
31/10/2027	0.971409	0.644894	0.647901	0.657782	0.485562	0.548978
01/11/2027	0.983992	0.648507	0.651659	0.660134	0.489555	0.548806
02/11/2027	1.014395	0.655335	0.658488	0.664482	0.502663	0.556353
03/11/2027	1.040711	0.662911	0.664967	0.669193	0.511668	0.566794

04/11/2027	1.050845	0.667847	0.668109	0.672190	0.512683	0.571153
05/11/2027	1.049205	0.668852	0.667950	0.672822	0.508564	0.568237
06/11/2027	1.043647	0.667223	0.666091	0.671803	0.503050	0.561776
07/11/2027	1.048470	0.667370	0.666520	0.671533	0.509435	0.565743
08/11/2027	1.078447	0.673415	0.673320	0.676327	0.528850	0.578202
09/11/2027	1.106285	0.682956	0.682322	0.683875	0.541720	0.597266
10/11/2027	1.116748	0.690487	0.688228	0.689712	0.541708	0.598538
11/11/2027	1.121598	0.694965	0.691527	0.693173	0.548905	0.599534
12/11/2027	1.123132	0.697436	0.693250	0.694640	0.552479	0.599891
13/11/2027	1.120863	0.698574	0.693656	0.694725	0.549813	0.599607
14/11/2027	1.116624	0.698719	0.693191	0.694029	0.546364	0.599875
15/11/2027	1.113500	0.698618	0.692715	0.693166	0.545424	0.600045
16/11/2027	1.110409	0.698384	0.692126	0.692308	0.542386	0.599613
17/11/2027	1.106490	0.697718	0.691116	0.691364	0.537278	0.598063
18/11/2027	1.102760	0.696929	0.690147	0.690501	0.535106	0.599583
19/11/2027	1.098956	0.695999	0.689204	0.689681	0.530813	0.596380
20/11/2027	1.094874	0.694778	0.688025	0.688766	0.525468	0.590465
21/11/2027	1.090627	0.693201	0.686524	0.687665	0.519791	0.583379
22/11/2027	1.086404	0.691393	0.684822	0.686410	0.514419	0.576058
23/11/2027	1.082301	0.689529	0.683070	0.685103	0.509625	0.569208
24/11/2027	1.079666	0.688492	0.682086	0.684156	0.510164	0.574585
25/11/2027	1.077188	0.687994	0.681508	0.683534	0.508887	0.575787
26/11/2027	1.075165	0.687934	0.681298	0.683201	0.510865	0.586105
27/11/2027	1.073458	0.688141	0.681413	0.683074	0.513581	0.599042
28/11/2027	1.074308	0.688961	0.682112	0.683106	0.520421	0.600035
29/11/2027	1.074454	0.689689	0.682489	0.683062	0.522288	0.595935
30/11/2027	1.072468	0.689426	0.681955	0.682692	0.519017	0.588747
01/12/2027	1.069082	0.688065	0.680678	0.681936	0.514079	0.582520
02/12/2027	1.065344	0.686130	0.679104	0.680932	0.508862	0.576405
03/12/2027	1.062039	0.684395	0.677726	0.679942	0.506282	0.577586
04/12/2027	1.060552	0.683805	0.677385	0.679453	0.508620	0.588353
05/12/2027	1.059329	0.684026	0.677566	0.679382	0.511135	0.599054
06/12/2027	1.057250	0.683958	0.677411	0.679302	0.510155	0.598525
07/12/2027	1.054419	0.683037	0.676621	0.678892	0.507634	0.594347
08/12/2027	1.061049	0.683627	0.678118	0.680806	0.516240	0.598739
09/12/2027	1.068522	0.685851	0.681044	0.684058	0.522166	0.599185
10/12/2027	1.082643	0.690318	0.686380	0.689805	0.535454	0.599634
11/12/2027	1.094195	0.695752	0.692364	0.695829	0.545620	0.600001
12/12/2027	1.098385	0.700135	0.696622	0.699677	0.549318	0.600318
13/12/2027	1.097005	0.702235	0.698367	0.700782	0.548561	0.600510
14/12/2027	1.093195	0.702065	0.698038	0.699935	0.543347	0.599696
15/12/2027	1.092517	0.701826	0.697939	0.699208	0.546527	0.600155
16/12/2027	1.092329	0.702080	0.698110	0.698995	0.545681	0.597823
17/12/2027	1.090611	0.702217	0.697847	0.698749	0.542637	0.599774
18/12/2027	1.091971	0.702950	0.698299	0.698859	0.548370	0.600214
19/12/2027	1.093307	0.704090	0.698954	0.699082	0.551266	0.600297
20/12/2027	1.092224	0.704625	0.698887	0.698935	0.548208	0.599419
21/12/2027	1.089469	0.704123	0.698049	0.698255	0.544179	0.600000

22/12/2027	1.086174	0.702902	0.696811	0.697190	0.539944	0.600138
23/12/2027	1.096096	0.703856	0.698848	0.699833	0.548747	0.600220
24/12/2027	1.108216	0.707372	0.703427	0.704820	0.557101	0.600469
25/12/2027	1.122947	0.712879	0.709635	0.711482	0.570854	0.600809
26/12/2027	1.135086	0.718870	0.715709	0.717331	0.582994	0.601121
27/12/2027	1.139201	0.722981	0.719198	0.720273	0.582963	0.600404
28/12/2027	1.136718	0.723950	0.719456	0.720149	0.574522	0.598156
29/12/2027	1.131513	0.722397	0.717586	0.718118	0.563674	0.595066
30/12/2027	1.128057	0.720917	0.715986	0.715988	0.562316	0.600056
31/12/2027	1.125272	0.720353	0.714930	0.714433	0.560742	0.600798
01/01/2028	1.122967	0.720287	0.714090	0.713415	0.559780	0.600812
02/01/2028	1.130052	0.721261	0.715406	0.715206	0.567183	0.600873
03/01/2028	1.155379	0.727004	0.723075	0.723937	0.585202	0.601147
04/01/2028	1.174019	0.734655	0.731876	0.733535	0.590764	0.601216
05/01/2028	1.178245	0.739659	0.736632	0.738680	0.584063	0.598403
06/01/2028	1.175541	0.741623	0.737748	0.739097	0.583897	0.600991
07/01/2028	1.181268	0.743921	0.740097	0.741178	0.594046	0.601684
08/01/2028	1.187551	0.747109	0.743672	0.744944	0.595343	0.600471
09/01/2028	1.187990	0.749482	0.745917	0.747460	0.589716	0.601063
10/01/2028	1.184078	0.749862	0.745739	0.747212	0.582893	0.601659
11/01/2028	1.178533	0.748371	0.743656	0.744735	0.573856	0.599565
12/01/2028	1.192162	0.749464	0.745937	0.747287	0.579845	0.601233
13/01/2028	1.208555	0.753744	0.751684	0.753399	0.585095	0.601941
14/01/2028	1.214427	0.758013	0.756123	0.758058	0.581661	0.599995
15/01/2028	1.223871	0.763257	0.761729	0.762260	0.588530	0.601834
16/01/2028	1.231068	0.768087	0.766265	0.765207	0.587989	0.600791
17/01/2028	1.231071	0.770515	0.767407	0.765717	0.581096	0.599380
18/01/2028	1.226004	0.770055	0.765449	0.763796	0.574556	0.601710
19/01/2028	1.219212	0.767769	0.761948	0.760425	0.568123	0.602046
20/01/2028	1.212503	0.764938	0.758159	0.756732	0.561365	0.600882
21/01/2028	1.206245	0.762155	0.754541	0.753308	0.554152	0.598321
22/01/2028	1.200321	0.759514	0.751117	0.750211	0.547301	0.595696
23/01/2028	1.196489	0.758002	0.748792	0.747766	0.549591	0.600899
24/01/2028	1.192871	0.757170	0.746965	0.745773	0.548672	0.600091
25/01/2028	1.188878	0.756393	0.745134	0.743931	0.548272	0.601235
26/01/2028	1.185738	0.755984	0.743904	0.742413	0.552616	0.601664
27/01/2028	1.185642	0.756809	0.744386	0.742976	0.562076	0.601820
28/01/2028	1.185030	0.758044	0.745414	0.744420	0.564934	0.601800
29/01/2028	1.182068	0.758147	0.745361	0.744891	0.559784	0.598941
30/01/2028	1.177452	0.756545	0.743676	0.743664	0.551678	0.595624
31/01/2028	1.172381	0.753818	0.740925	0.741206	0.543410	0.591782
01/02/2028	1.167448	0.750748	0.737843	0.738369	0.535436	0.584407
02/02/2028	1.162730	0.747789	0.734805	0.735681	0.528660	0.575978
03/02/2028	1.158161	0.745015	0.731885	0.733244	0.522673	0.567343
04/02/2028	1.153692	0.742345	0.729051	0.730961	0.517247	0.559003
05/02/2028	1.149301	0.739710	0.726268	0.728738	0.512231	0.551274
06/02/2028	1.144992	0.737295	0.723617	0.726567	0.509519	0.552132
07/02/2028	1.140768	0.734932	0.721100	0.724483	0.505223	0.548427

08/02/2028	1.136628	0.732544	0.718623	0.722474	0.501608	0.544290
09/02/2028	1.132571	0.730238	0.716211	0.720519	0.499040	0.543947
10/02/2028	1.128604	0.728068	0.713930	0.718630	0.496619	0.544937
11/02/2028	1.124724	0.725922	0.711743	0.716821	0.493686	0.543301
12/02/2028	1.120921	0.723682	0.709553	0.715059	0.490275	0.538280
13/02/2028	1.117178	0.721355	0.707316	0.713301	0.486755	0.531826
14/02/2028	1.113496	0.719166	0.705132	0.711554	0.484776	0.531318
15/02/2028	1.109877	0.717028	0.703035	0.709858	0.481408	0.527164
16/02/2028	1.106318	0.714883	0.700962	0.708215	0.478516	0.522906
17/02/2028	1.104343	0.713660	0.699742	0.706976	0.480802	0.532358
18/02/2028	1.102480	0.713084	0.698994	0.706077	0.481175	0.538502
19/02/2028	1.099868	0.712184	0.697997	0.705198	0.479622	0.537931
20/02/2028	1.097973	0.711243	0.697229	0.704403	0.481688	0.547455
21/02/2028	1.096997	0.710846	0.697111	0.703885	0.484838	0.563512
22/02/2028	1.095431	0.710436	0.696947	0.703455	0.484699	0.568933
23/02/2028	1.092862	0.709297	0.696094	0.702777	0.482894	0.565590
24/02/2028	1.089731	0.707310	0.694543	0.701684	0.479750	0.556482
25/02/2028	1.086501	0.704901	0.692627	0.700280	0.476326	0.545949
26/02/2028	1.086113	0.704245	0.692212	0.699513	0.482255	0.551183
27/02/2028	1.086043	0.704905	0.692507	0.699336	0.484848	0.551030
28/02/2028	1.085237	0.705696	0.692673	0.699308	0.488209	0.560239
29/02/2028	1.087993	0.707931	0.694883	0.700328	0.498315	0.576671
01/03/2028	1.092604	0.711902	0.698458	0.702302	0.513764	0.598965
02/03/2028	1.094595	0.715312	0.700848	0.704003	0.519517	0.598788
03/03/2028	1.093315	0.716019	0.700916	0.704455	0.516129	0.584237
04/03/2028	1.090348	0.714133	0.699235	0.703586	0.509279	0.567832
05/03/2028	1.087319	0.711499	0.697137	0.702068	0.505039	0.565205
06/03/2028	1.085571	0.709825	0.695907	0.700821	0.504102	0.574390
07/03/2028	1.083894	0.708857	0.695178	0.700017	0.502322	0.576564
08/03/2028	1.096493	0.709338	0.696873	0.704694	0.512274	0.589133
09/03/2028	1.109783	0.711239	0.701044	0.711975	0.519455	0.597905
10/03/2028	1.114755	0.713065	0.704919	0.717164	0.518161	0.591873
11/03/2028	1.112833	0.713395	0.706223	0.718341	0.513584	0.582888
12/03/2028	1.108367	0.711922	0.705074	0.716470	0.506468	0.568837
13/03/2028	1.103884	0.709473	0.702762	0.713511	0.499731	0.554214
14/03/2028	1.099913	0.706971	0.700273	0.710766	0.493982	0.541596
15/03/2028	1.096268	0.704739	0.697923	0.708538	0.488610	0.529563
16/03/2028	1.092763	0.702685	0.695670	0.706619	0.483755	0.518783
17/03/2028	1.089312	0.700701	0.693459	0.704778	0.479643	0.510916
18/03/2028	1.085886	0.698681	0.691255	0.702932	0.475155	0.502393
19/03/2028	1.084294	0.697776	0.690057	0.701541	0.477626	0.510308
20/03/2028	1.087401	0.700141	0.692029	0.701895	0.487406	0.527498
21/03/2028	1.090121	0.703935	0.694685	0.703203	0.492184	0.535073
22/03/2028	1.089734	0.706076	0.695579	0.703969	0.491230	0.530919
23/03/2028	1.087019	0.705384	0.694395	0.703429	0.487247	0.520972
24/03/2028	1.083529	0.702880	0.692070	0.701828	0.482259	0.509520
25/03/2028	1.081754	0.701106	0.690468	0.700257	0.483919	0.515168
26/03/2028	1.080221	0.700293	0.689510	0.699128	0.482736	0.515507

27/03/2028	1.077918	0.699432	0.688380	0.698183	0.480168	0.510704
28/03/2028	1.076197	0.698698	0.687485	0.697369	0.481847	0.518976
29/03/2028	1.074319	0.697850	0.686648	0.696555	0.480173	0.519398
30/03/2028	1.071840	0.696540	0.685437	0.695586	0.477169	0.513510
31/03/2028	1.068919	0.694642	0.683737	0.694364	0.473201	0.504331
01/04/2028	1.065858	0.692307	0.681666	0.692910	0.468704	0.489085
02/04/2028	1.062813	0.689922	0.679428	0.691326	0.465309	0.476734
03/04/2028	1.059809	0.687679	0.677196	0.689727	0.462040	0.465895
04/04/2028	1.056823	0.685436	0.674954	0.688160	0.457653	0.451669
05/04/2028	1.053825	0.683002	0.672627	0.686595	0.453432	0.437817
06/04/2028	1.050819	0.680641	0.670333	0.685021	0.451478	0.433141
07/04/2028	1.047816	0.678290	0.668102	0.683474	0.447034	0.422718
08/04/2028	1.044811	0.675911	0.665821	0.681943	0.442959	0.411675
09/04/2028	1.041793	0.673498	0.663458	0.680387	0.438528	0.400276
10/04/2028	1.041310	0.672922	0.662603	0.679493	0.444746	0.410798
11/04/2028	1.041423	0.674109	0.662886	0.679290	0.450938	0.428065
12/04/2028	1.044360	0.677530	0.665355	0.680406	0.462283	0.450166
13/04/2028	1.046521	0.680897	0.667774	0.681942	0.465494	0.451202
14/04/2028	1.046063	0.682070	0.668267	0.682665	0.463625	0.441597
15/04/2028	1.043700	0.680683	0.666845	0.682108	0.458660	0.426831
16/04/2028	1.040684	0.678098	0.664537	0.680647	0.455165	0.418975
17/04/2028	1.038972	0.676419	0.662994	0.679277	0.457137	0.429471
18/04/2028	1.037474	0.675589	0.662101	0.678357	0.456592	0.430803
19/04/2028	1.038365	0.676654	0.662827	0.678431	0.465391	0.445820
20/04/2028	1.039032	0.678257	0.663801	0.678941	0.467591	0.443875
21/04/2028	1.038008	0.678921	0.663761	0.679071	0.468488	0.443420
22/04/2028	1.035712	0.678161	0.662732	0.678504	0.467892	0.446108
23/04/2028	1.032996	0.676293	0.661168	0.677429	0.464663	0.440727
24/04/2028	1.030292	0.673890	0.659316	0.676133	0.460232	0.429469
25/04/2028	1.027648	0.671365	0.657289	0.674765	0.455464	0.416228
26/04/2028	1.025007	0.668889	0.655174	0.673371	0.450523	0.402829
27/04/2028	1.022335	0.666489	0.653022	0.671967	0.445685	0.390547
28/04/2028	1.019628	0.664144	0.650858	0.670562	0.441000	0.379710
29/04/2028	1.016890	0.661832	0.648682	0.669157	0.436431	0.370113
30/04/2028	1.014130	0.659545	0.646507	0.667751	0.431942	0.361471
01/05/2028	1.011344	0.657136	0.644262	0.666331	0.426222	0.347705
02/05/2028	1.008522	0.654592	0.641877	0.664859	0.420500	0.333155
03/05/2028	1.005657	0.651987	0.639383	0.663322	0.414626	0.318911
04/05/2028	1.002759	0.649503	0.636894	0.661758	0.409869	0.309220
05/05/2028	0.999840	0.647074	0.634447	0.660210	0.404220	0.298342
06/05/2028	1.001930	0.647677	0.635077	0.660180	0.411562	0.314025
07/05/2028	1.004650	0.650180	0.636941	0.661234	0.412841	0.315250
08/05/2028	1.004815	0.651894	0.637535	0.662032	0.411826	0.313404
09/05/2028	1.002709	0.651391	0.636361	0.661747	0.408796	0.310658
10/05/2028	0.999711	0.649068	0.634112	0.660479	0.403087	0.301054
11/05/2028	0.996649	0.646257	0.631572	0.658779	0.398940	0.295116
12/05/2028	0.994551	0.644548	0.629834	0.657345	0.400929	0.311548
13/05/2028	0.992665	0.643959	0.628950	0.656406	0.403614	0.330301

14/05/2028	0.990495	0.643201	0.628134	0.655732	0.401228	0.329756
15/05/2028	0.988045	0.641755	0.626856	0.654935	0.399291	0.327515
16/05/2028	0.985480	0.639752	0.625190	0.653855	0.395528	0.321057
17/05/2028	0.982907	0.637632	0.623381	0.652595	0.392171	0.315378
18/05/2028	0.980344	0.635430	0.621497	0.651293	0.386986	0.304444
19/05/2028	0.977769	0.633143	0.619497	0.649981	0.381972	0.292968
20/05/2028	0.975174	0.630965	0.617476	0.648655	0.378380	0.286940
21/05/2028	0.972563	0.628810	0.615481	0.647334	0.373292	0.277874
22/05/2028	0.969938	0.626616	0.613456	0.646018	0.368522	0.268880
23/05/2028	0.967297	0.624380	0.611384	0.644687	0.363646	0.260200
24/05/2028	0.964642	0.622144	0.609291	0.643337	0.358779	0.252021
25/05/2028	0.961978	0.619936	0.607204	0.641983	0.354001	0.244570
26/05/2028	0.959310	0.617766	0.605135	0.640639	0.349341	0.237897
27/05/2028	0.956644	0.615629	0.603089	0.639308	0.344768	0.231844
28/05/2028	0.954007	0.613915	0.601251	0.638033	0.344264	0.238887
29/05/2028	0.951463	0.612814	0.599870	0.636922	0.345493	0.255660
30/05/2028	0.949030	0.611635	0.598696	0.635990	0.342694	0.255777
31/05/2028	0.951768	0.613071	0.600442	0.636588	0.352075	0.276383
01/06/2028	0.955175	0.616140	0.603205	0.638157	0.354870	0.281010
02/06/2028	0.955988	0.618368	0.604586	0.639365	0.355156	0.281828
03/06/2028	0.954495	0.618499	0.604207	0.639467	0.354470	0.285044
04/06/2028	0.956265	0.619455	0.605324	0.639826	0.362290	0.303057
05/06/2028	0.961647	0.623627	0.609080	0.641550	0.376573	0.328703
06/06/2028	0.965419	0.628936	0.612833	0.643806	0.386367	0.348982
07/06/2028	0.965839	0.631741	0.614480	0.645260	0.386079	0.345976
08/06/2028	0.964145	0.631032	0.613886	0.645295	0.381942	0.332698
09/06/2028	0.961824	0.628545	0.612170	0.644246	0.378770	0.324548
10/06/2028	0.959873	0.626500	0.610693	0.642963	0.379474	0.333169
11/06/2028	0.965521	0.628893	0.614089	0.644210	0.388852	0.352990
12/06/2028	0.972076	0.633747	0.619037	0.647193	0.391998	0.353373
13/06/2028	0.974658	0.637092	0.621652	0.649604	0.391039	0.344888
14/06/2028	0.973670	0.636974	0.621238	0.650118	0.386372	0.329625
15/06/2028	0.971214	0.634390	0.619062	0.648989	0.380738	0.313075
16/06/2028	0.968560	0.631157	0.616431	0.647189	0.375168	0.298021
17/06/2028	0.965999	0.628242	0.613935	0.645431	0.369965	0.285059
18/06/2028	0.963500	0.626030	0.611786	0.643942	0.368153	0.283810
19/06/2028	0.961022	0.624048	0.609889	0.642677	0.363839	0.277384
20/06/2028	0.958572	0.622448	0.608228	0.641531	0.364766	0.286013
21/06/2028	0.956152	0.620728	0.606673	0.640446	0.360701	0.280985
22/06/2028	0.953730	0.618706	0.604964	0.639333	0.356909	0.272834
24/06/2028	0.948811	0.614217	0.601140	0.636879	0.347865	0.254458
25/06/2028	0.946336	0.612296	0.599300	0.635610	0.346883	0.257198
26/06/2028	0.943883	0.610506	0.597634	0.634429	0.342874	0.253437
27/06/2028	0.948522	0.612415	0.600232	0.635467	0.351518	0.272233
28/06/2028	0.958513	0.619365	0.607007	0.639254	0.366049	0.299594
29/06/2028	0.965434	0.627125	0.613014	0.643505	0.373855	0.313587
30/06/2028	0.966876	0.631030	0.615314	0.645947	0.373150	0.310565
01/07/2028	0.967074	0.631950	0.615654	0.646540	0.379673	0.325281

02/07/2028	0.966506	0.631251	0.615150	0.646080	0.378400	0.317452
03/07/2028	0.964957	0.629590	0.613830	0.645158	0.373970	0.299644
04/07/2028	0.962696	0.627719	0.612046	0.644000	0.373714	0.298179
05/07/2028	0.960206	0.625888	0.610302	0.642781	0.371703	0.297334
06/07/2028	0.957743	0.623796	0.608563	0.641595	0.366834	0.285734
07/07/2028	0.955302	0.621288	0.606566	0.640360	0.361235	0.269020
09/07/2028	0.950235	0.615759	0.601923	0.637528	0.348844	0.234782
10/07/2028	0.947590	0.612948	0.599419	0.635975	0.342373	0.218485
11/07/2028	0.944879	0.610226	0.596907	0.634415	0.336084	0.204108
12/07/2028	0.942160	0.608243	0.594715	0.632949	0.336582	0.212365
13/07/2028	0.939475	0.606391	0.592813	0.631652	0.331286	0.206047
14/07/2028	0.936808	0.604262	0.590822	0.630417	0.326652	0.197181
16/07/2028	0.931430	0.599396	0.586409	0.627719	0.315702	0.177669
17/07/2028	0.930071	0.598233	0.585112	0.626650	0.320150	0.196831
18/07/2028	0.928743	0.598210	0.584624	0.625996	0.323662	0.215500
19/07/2028	0.926870	0.597835	0.584054	0.625541	0.320477	0.212928
20/07/2028	0.924543	0.596331	0.582771	0.624861	0.316375	0.204361
21/07/2028	0.922039	0.593981	0.580897	0.623774	0.310752	0.192435
22/07/2028	0.919512	0.591409	0.578782	0.622419	0.304791	0.179877
24/07/2028	0.913813	0.586009	0.573955	0.619291	0.292195	0.156688
26/07/2028	0.909341	0.582128	0.570244	0.616942	0.283102	0.143010
27/07/2028	0.906776	0.579985	0.568166	0.615641	0.278190	0.136743
28/07/2028	0.904210	0.577864	0.566122	0.614353	0.273434	0.131262
29/07/2028	0.901651	0.575763	0.564106	0.613068	0.268760	0.126228
30/07/2028	0.899102	0.573691	0.562117	0.611790	0.264213	0.121680
31/07/2028	0.896565	0.571647	0.560153	0.610521	0.259731	0.117451
01/08/2028	0.894053	0.569786	0.558295	0.609285	0.256637	0.118897
02/08/2028	0.891582	0.568118	0.556616	0.608120	0.253662	0.121871
03/08/2028	0.896105	0.570255	0.559268	0.609138	0.263164	0.147779
04/08/2028	0.901622	0.574798	0.563540	0.611663	0.266300	0.157998
05/08/2028	0.906624	0.580445	0.567838	0.614606	0.279061	0.186146
06/08/2028	0.908786	0.584654	0.570538	0.616672	0.284938	0.202142
07/08/2028	0.912828	0.588800	0.573933	0.618670	0.296878	0.228546
08/08/2028	0.923048	0.595986	0.581160	0.622608	0.312411	0.258322
09/08/2028	0.932397	0.604581	0.588836	0.627446	0.325001	0.289156
10/08/2028	0.936237	0.610137	0.593277	0.630991	0.326792	0.293161
11/08/2028	0.935707	0.610908	0.593905	0.632113	0.324484	0.285812
12/08/2028	0.933489	0.608656	0.592376	0.631285	0.321633	0.278693
13/08/2028	0.935634	0.608427	0.593086	0.631020	0.329404	0.291972
14/08/2028	0.938506	0.610327	0.595052	0.631791	0.332015	0.291547
15/08/2028	0.942795	0.614290	0.598266	0.633656	0.343871	0.310253
16/08/2028	0.949719	0.620409	0.603439	0.636730	0.359133	0.334738
17/08/2028	0.954498	0.626106	0.607863	0.639715	0.367170	0.345651
18/08/2028	0.955411	0.628695	0.609642	0.641350	0.367781	0.343297
19/08/2028	0.953831	0.627767	0.608996	0.641315	0.364424	0.332126
20/08/2028	0.951450	0.624870	0.607091	0.640142	0.359369	0.316248
21/08/2028	0.949043	0.621663	0.604872	0.638578	0.354419	0.300601
22/08/2028	0.946711	0.618832	0.602730	0.637075	0.349732	0.286449

23/08/2028	0.944382	0.616342	0.600702	0.635729	0.345396	0.274222
24/08/2028	0.942038	0.614430	0.598933	0.634516	0.345656	0.277857
25/08/2028	0.939690	0.612565	0.597351	0.633416	0.341599	0.271641
26/08/2028	0.937328	0.610485	0.595689	0.632336	0.338247	0.263697
27/08/2028	0.934937	0.608207	0.593875	0.631187	0.334283	0.254651
28/08/2028	0.932513	0.605884	0.591978	0.629965	0.330102	0.245405
29/08/2028	0.930066	0.603614	0.590068	0.628718	0.325963	0.236922
30/08/2028	0.927605	0.601414	0.588172	0.627486	0.321932	0.229451
31/08/2028	0.925138	0.599266	0.586298	0.626276	0.317997	0.222858
01/09/2028	0.922680	0.597302	0.584519	0.625097	0.315361	0.222308
02/09/2028	0.920251	0.595525	0.582902	0.623983	0.312760	0.223437
03/09/2028	0.917867	0.593863	0.581417	0.622945	0.310418	0.225325
04/09/2028	0.915534	0.592245	0.580012	0.621962	0.308121	0.227152
05/09/2028	0.913250	0.590644	0.578654	0.621008	0.305863	0.228703
06/09/2028	0.911012	0.589059	0.577334	0.620070	0.303563	0.229764
07/09/2028	0.908819	0.587519	0.576057	0.619149	0.301506	0.231237
08/09/2028	0.906669	0.586006	0.574820	0.618252	0.299250	0.231975
09/09/2028	0.904560	0.584510	0.573609	0.617373	0.297067	0.232469
10/09/2028	0.902488	0.583029	0.572420	0.616509	0.294890	0.232777
11/09/2028	0.902564	0.583046	0.572522	0.616208	0.301638	0.252176
12/09/2028	0.905137	0.585572	0.574661	0.617000	0.313345	0.279258
13/09/2028	0.913156	0.591992	0.580763	0.620178	0.329502	0.309198
14/09/2028	0.920421	0.599613	0.587398	0.624373	0.340992	0.335819
15/09/2028	0.923275	0.604799	0.591514	0.627544	0.346683	0.353793
16/09/2028	0.922748	0.606034	0.592702	0.628779	0.346347	0.355612
17/09/2028	0.920992	0.604487	0.592049	0.628442	0.343436	0.347980
18/09/2028	0.922027	0.604087	0.592481	0.628190	0.351381	0.357928
19/09/2028	0.924204	0.605941	0.594258	0.628727	0.359692	0.375892
20/09/2028	0.925838	0.608693	0.596496	0.629836	0.367095	0.398063
21/09/2028	0.925992	0.610186	0.598041	0.630808	0.368781	0.403351
22/09/2028	0.925059	0.610106	0.598567	0.631171	0.370650	0.409635
23/09/2028	0.927616	0.611257	0.600674	0.632065	0.379174	0.421040
24/09/2028	0.930575	0.613744	0.603361	0.633456	0.384881	0.425301
25/09/2028	0.935828	0.618085	0.607478	0.635827	0.395856	0.437813
26/09/2028	0.939818	0.622110	0.611052	0.638254	0.399540	0.433630
27/09/2028	0.940923	0.624137	0.612659	0.639696	0.401395	0.431112
28/09/2028	0.942758	0.625579	0.614120	0.640627	0.409084	0.439492
29/09/2028	0.944167	0.627020	0.615472	0.641311	0.414329	0.444040
30/09/2028	0.946485	0.629237	0.617406	0.642286	0.423119	0.456605
01/10/2028	0.947876	0.631124	0.619051	0.643284	0.426343	0.457640
02/10/2028	0.948655	0.632336	0.620274	0.644076	0.430568	0.467661
03/10/2028	0.948476	0.632471	0.620893	0.644468	0.430342	0.467141
04/10/2028	0.947484	0.631576	0.620780	0.644408	0.428364	0.460413
05/10/2028	0.946085	0.630020	0.620089	0.643973	0.425522	0.450900
06/10/2028	0.946052	0.629227	0.619981	0.643691	0.428404	0.456763
07/10/2028	0.946105	0.629092	0.620267	0.643671	0.428708	0.455940
08/10/2028	0.945421	0.628770	0.620262	0.643668	0.427509	0.450720
09/10/2028	0.944112	0.627735	0.619703	0.643415	0.425067	0.442828

10/10/2028	0.942558	0.626155	0.618751	0.642865	0.422154	0.434189
11/10/2028	0.940978	0.624434	0.617649	0.642146	0.419237	0.426155
12/10/2028	0.939419	0.622799	0.616531	0.641397	0.416445	0.419100
13/10/2028	0.937866	0.621271	0.615432	0.640677	0.413759	0.412898
14/10/2028	0.936305	0.619797	0.614345	0.639983	0.411131	0.407339
15/10/2028	0.934732	0.618339	0.613259	0.639296	0.408531	0.402268
16/10/2028	0.933150	0.616893	0.612171	0.638604	0.405948	0.397600
17/10/2028	0.931561	0.615463	0.611080	0.637906	0.403381	0.393291
18/10/2028	0.929968	0.614052	0.609991	0.637207	0.400834	0.389314
19/10/2028	0.928375	0.612668	0.608911	0.636511	0.398363	0.385825
20/10/2028	0.930871	0.613673	0.610233	0.636985	0.406078	0.397827
21/10/2028	0.935397	0.617342	0.613406	0.638682	0.415775	0.417340
22/10/2028	0.943408	0.623932	0.619262	0.642143	0.429371	0.439661
23/10/2028	0.949472	0.630507	0.624649	0.645877	0.437453	0.455465
24/10/2028	0.951362	0.634037	0.627280	0.648257	0.437967	0.455522
25/10/2028	0.950460	0.633995	0.627272	0.648792	0.435308	0.448659
26/10/2028	0.948654	0.631949	0.625920	0.648047	0.431604	0.439590
27/10/2028	0.946853	0.629591	0.624301	0.646876	0.428056	0.430960
28/10/2028	0.945195	0.627619	0.622838	0.645801	0.424904	0.423562
29/10/2028	0.944034	0.626449	0.621907	0.645058	0.425594	0.430311
30/10/2028	0.942926	0.625607	0.621314	0.644574	0.424202	0.430466
31/10/2028	0.941607	0.624596	0.620631	0.644133	0.422344	0.427234
01/11/2028	0.940100	0.623305	0.619738	0.643576	0.420190	0.425702
02/11/2028	0.938519	0.621874	0.618753	0.642906	0.417802	0.424570
03/11/2028	0.936940	0.620457	0.617782	0.642208	0.415472	0.424098
04/11/2028	0.938297	0.620926	0.618513	0.642318	0.422652	0.435588
05/11/2028	0.939950	0.622752	0.619973	0.643044	0.426554	0.442656
06/11/2028	0.940135	0.624128	0.620811	0.643699	0.427031	0.445112
07/11/2028	0.939052	0.623971	0.620662	0.643808	0.425128	0.444364
08/11/2028	0.937493	0.622644	0.619887	0.643372	0.422561	0.442871
09/11/2028	0.935926	0.620986	0.618929	0.642674	0.419869	0.441002
10/11/2028	0.934447	0.619479	0.618008	0.641964	0.417477	0.439553
11/11/2028	0.933024	0.618162	0.617163	0.641332	0.415196	0.438165
12/11/2028	0.931727	0.617132	0.616493	0.640801	0.414869	0.443419
13/11/2028	0.930467	0.616223	0.615973	0.640355	0.413590	0.446723
14/11/2028	0.929450	0.615517	0.615675	0.640022	0.414047	0.454795
15/11/2028	0.928442	0.614845	0.615472	0.639757	0.413270	0.459171
16/11/2028	0.927410	0.614195	0.615286	0.639514	0.413429	0.465331
17/11/2028	0.930504	0.615720	0.617424	0.640432	0.421452	0.476762
18/11/2028	0.936155	0.619980	0.621483	0.642645	0.432540	0.492327
19/11/2028	0.942525	0.626115	0.626473	0.645722	0.446055	0.509372
20/11/2028	0.947085	0.631768	0.630717	0.648631	0.455323	0.527171
21/11/2028	0.949020	0.635145	0.633342	0.650588	0.459559	0.540873
22/11/2028	0.948840	0.635790	0.634286	0.651389	0.458405	0.540907
23/11/2028	0.947649	0.634650	0.634053	0.651297	0.456074	0.535725
24/11/2028	0.946234	0.632878	0.633269	0.650744	0.452846	0.526993
25/11/2028	0.947085	0.632487	0.633560	0.650629	0.456855	0.530863
26/11/2028	0.948149	0.633203	0.634405	0.650981	0.458243	0.530230

27/11/2028	0.948103	0.633744	0.634848	0.651339	0.458281	0.528482
28/11/2028	0.948979	0.634316	0.635587	0.651786	0.461856	0.535275
29/11/2028	0.949566	0.634802	0.636313	0.652194	0.463057	0.537947
30/11/2028	0.949157	0.634730	0.636499	0.652360	0.461957	0.534659
01/12/2028	0.948014	0.633869	0.636062	0.652171	0.459905	0.529256
02/12/2028	0.946783	0.632678	0.635402	0.651741	0.458994	0.529363
03/12/2028	0.946234	0.631886	0.635165	0.651418	0.459586	0.536938
04/12/2028	0.945713	0.631378	0.635173	0.651273	0.458865	0.539152
05/12/2028	0.944843	0.630817	0.635045	0.651155	0.458437	0.540571
06/12/2028	0.943707	0.629977	0.634664	0.650916	0.457213	0.539688
07/12/2028	0.942495	0.628932	0.634116	0.650539	0.456013	0.538496
08/12/2028	0.941302	0.627773	0.633487	0.650087	0.454120	0.534721
09/12/2028	0.943213	0.628452	0.634537	0.650437	0.461464	0.540844
10/12/2028	0.948793	0.632487	0.638129	0.652297	0.475389	0.552888
11/12/2028	0.953909	0.637994	0.642191	0.654882	0.486331	0.569019
12/12/2028	0.959632	0.643821	0.646740	0.657922	0.500693	0.585826
13/12/2028	0.963830	0.648459	0.650428	0.660574	0.510910	0.598310
14/12/2028	0.965500	0.650958	0.652411	0.662201	0.513807	0.599005
15/12/2028	0.967173	0.652328	0.653841	0.663204	0.518313	0.598831
16/12/2028	0.968179	0.653179	0.654811	0.663813	0.520033	0.598824
17/12/2028	0.967928	0.653262	0.655009	0.664029	0.516792	0.593771
18/12/2028	0.967100	0.652629	0.654675	0.663909	0.513678	0.593944
19/12/2028	0.965969	0.651455	0.654042	0.663540	0.509032	0.590106
20/12/2028	0.964980	0.650273	0.653419	0.663103	0.506571	0.590991
21/12/2028	0.972151	0.651181	0.654776	0.663639	0.516227	0.598235
22/12/2028	0.980801	0.654190	0.657360	0.665097	0.526908	0.599068
23/12/2028	0.998220	0.659350	0.661645	0.667737	0.542625	0.599222
24/12/2028	1.011858	0.664278	0.665262	0.670393	0.547247	0.597413
25/12/2028	1.017009	0.667602	0.667445	0.672276	0.549445	0.599030
26/12/2028	1.015969	0.668831	0.668083	0.673053	0.546056	0.599027
27/12/2028	1.012658	0.668322	0.667549	0.672903	0.538567	0.593763
28/12/2028	1.009310	0.666872	0.666395	0.672225	0.530813	0.587577
29/12/2028	1.009497	0.666707	0.666491	0.672046	0.535282	0.591418
30/12/2028	1.010278	0.667757	0.667204	0.672373	0.537031	0.594036
31/12/2028	1.009627	0.668497	0.667398	0.672666	0.533482	0.590722
01/01/2029	1.007682	0.667918	0.666721	0.672500	0.526997	0.583137
02/01/2029	1.014848	0.668829	0.668146	0.673195	0.533421	0.586086
03/01/2029	1.022681	0.671354	0.670409	0.674563	0.537539	0.589981
04/01/2029	1.025445	0.673544	0.671648	0.675684	0.536594	0.594036
05/01/2029	1.023905	0.673797	0.671373	0.675930	0.530936	0.591353
06/01/2029	1.020918	0.672565	0.670258	0.675388	0.526073	0.591140
07/01/2029	1.017945	0.670784	0.668930	0.674493	0.519979	0.585210
08/01/2029	1.015241	0.669009	0.667591	0.673571	0.514555	0.577298
09/01/2029	1.012706	0.667382	0.666279	0.672713	0.510061	0.570933
10/01/2029	1.010257	0.665800	0.664987	0.671899	0.505478	0.563479
11/01/2029	1.009378	0.665092	0.664516	0.671461	0.506544	0.568399
12/01/2029	1.009737	0.665641	0.665083	0.671597	0.510394	0.580788
13/01/2029	1.009513	0.666573	0.665805	0.671989	0.512690	0.592992

14/01/2029	1.008077	0.666723	0.665891	0.672162	0.511388	0.596350
15/01/2029	1.005887	0.665707	0.665193	0.671869	0.507440	0.590389
16/01/2029	1.003506	0.663969	0.664001	0.671175	0.502873	0.580725
17/01/2029	1.001195	0.662159	0.662686	0.670307	0.499214	0.573799
18/01/2029	0.999053	0.660652	0.661522	0.669482	0.496798	0.572029
19/01/2029	0.996991	0.659296	0.660491	0.668769	0.493728	0.567913
20/01/2029	0.995647	0.658368	0.659899	0.668293	0.493837	0.573509
21/01/2029	0.995854	0.658486	0.660314	0.668331	0.497372	0.585930
22/01/2029	0.995761	0.659059	0.660941	0.668630	0.498833	0.593766
23/01/2029	0.994593	0.659008	0.660952	0.668748	0.496968	0.590751
24/01/2029	0.992704	0.658001	0.660230	0.668438	0.494294	0.584361
25/01/2029	0.990619	0.656368	0.659092	0.667769	0.490621	0.574837
26/01/2029	0.988587	0.654596	0.657832	0.666949	0.487112	0.565303
27/01/2029	0.987066	0.653273	0.656890	0.666249	0.486163	0.566152
28/01/2029	0.985687	0.652403	0.656279	0.665747	0.485384	0.569517
29/01/2029	0.984136	0.651632	0.655739	0.665350	0.484438	0.571862
30/01/2029	0.982412	0.650585	0.655035	0.664914	0.482186	0.568630
31/01/2029	0.993669	0.652106	0.657297	0.665977	0.490002	0.574031
01/02/2029	1.005774	0.655490	0.660501	0.667995	0.493265	0.571355
02/02/2029	1.010713	0.658139	0.662161	0.669578	0.492644	0.564323
03/02/2029	1.009676	0.658469	0.661842	0.669935	0.489484	0.555680
04/02/2029	1.006442	0.656964	0.660388	0.669237	0.485250	0.545821
05/02/2029	1.003764	0.655342	0.659053	0.668253	0.484253	0.548788
06/02/2029	1.003490	0.655253	0.659116	0.667914	0.487766	0.560353
07/02/2029	1.004186	0.656613	0.660223	0.668347	0.492880	0.576472
08/02/2029	1.003820	0.657755	0.661041	0.668928	0.493107	0.578894
09/02/2029	1.002920	0.658114	0.661349	0.669249	0.494174	0.586956
10/02/2029	1.001656	0.657843	0.661313	0.669226	0.494056	0.594292
11/02/2029	0.999940	0.657144	0.660942	0.668932	0.492790	0.595647
12/02/2029	0.997900	0.655971	0.660172	0.668436	0.489557	0.587364
13/02/2029	0.996670	0.655060	0.659637	0.668006	0.489915	0.589382
14/02/2029	0.996473	0.655010	0.659844	0.667925	0.492361	0.598331
15/02/2029	0.995890	0.655215	0.660159	0.668033	0.492397	0.597810
16/02/2029	0.994962	0.655262	0.660317	0.668140	0.493220	0.598692
17/02/2029	0.993888	0.655047	0.660347	0.668141	0.493676	0.598969
18/02/2029	0.992472	0.654390	0.660050	0.667952	0.491723	0.592906
19/02/2029	0.991115	0.653582	0.659588	0.667634	0.491209	0.593275
20/02/2029	0.989623	0.652578	0.658968	0.667219	0.488479	0.587701
21/02/2029	0.987921	0.651294	0.658093	0.666689	0.485164	0.577862
22/02/2029	0.986088	0.649772	0.656974	0.666029	0.481656	0.566877
23/02/2029	0.986773	0.649736	0.657155	0.665941	0.486661	0.569610
24/02/2029	0.987659	0.650780	0.657888	0.666311	0.488439	0.566592
25/02/2029	0.987231	0.651416	0.658030	0.666592	0.487330	0.559408
26/02/2029	0.987498	0.651893	0.658220	0.666627	0.490445	0.563796
27/02/2029	0.987493	0.652315	0.658332	0.666473	0.492414	0.569638
28/02/2029	0.989260	0.652911	0.658657	0.666470	0.495256	0.580673
01/03/2029	0.990367	0.653042	0.658749	0.666542	0.493975	0.579782
02/03/2029	0.991558	0.653417	0.659214	0.666858	0.497548	0.586269

03/03/2029	0.992314	0.654285	0.660038	0.667368	0.501383	0.598296
04/03/2029	0.991774	0.654763	0.660463	0.667748	0.500278	0.596644
05/03/2029	0.990149	0.654081	0.659994	0.667690	0.495867	0.583349
06/03/2029	0.988066	0.652358	0.658747	0.667119	0.490084	0.565323
07/03/2029	0.985941	0.650288	0.657153	0.666215	0.484895	0.549936
08/03/2029	0.983887	0.648270	0.655509	0.665219	0.479370	0.534492
09/03/2029	0.981880	0.646413	0.653898	0.664256	0.474727	0.522007
10/03/2029	0.979881	0.644637	0.652305	0.663336	0.470079	0.510513
11/03/2029	0.977872	0.642855	0.650701	0.662421	0.465413	0.499316
12/03/2029	0.975847	0.641048	0.649066	0.661486	0.460815	0.488756
13/03/2029	0.973809	0.639255	0.647416	0.660528	0.456457	0.479588
14/03/2029	0.971767	0.637572	0.645811	0.659572	0.452957	0.474117
15/03/2029	0.969730	0.635912	0.644251	0.658638	0.448682	0.466904
16/03/2029	0.967697	0.634218	0.642682	0.657714	0.444578	0.459599
17/03/2029	0.965665	0.632507	0.641096	0.656779	0.440592	0.453004
18/03/2029	0.963633	0.630795	0.639504	0.655830	0.436455	0.446260
19/03/2029	0.961602	0.629094	0.637914	0.654876	0.432420	0.439927
20/03/2029	0.959573	0.627406	0.636329	0.653922	0.428447	0.434054
21/03/2029	0.957548	0.625755	0.634762	0.652973	0.424735	0.429288
22/03/2029	0.955531	0.624142	0.633228	0.652034	0.421109	0.425135
23/03/2029	0.954159	0.623111	0.632197	0.651289	0.421477	0.435127
24/03/2029	0.952858	0.622366	0.631517	0.650754	0.419332	0.438509
25/03/2029	0.952366	0.622221	0.631427	0.650549	0.421678	0.452148
26/03/2029	0.951710	0.622184	0.631475	0.650493	0.421051	0.457715
27/03/2029	0.951074	0.622205	0.631587	0.650486	0.422618	0.469450
28/03/2029	0.950065	0.621866	0.631508	0.650383	0.421076	0.471941
29/03/2029	0.948631	0.620925	0.630976	0.650059	0.418165	0.466872
30/03/2029	0.946964	0.619487	0.629992	0.649476	0.414622	0.458618
31/03/2029	0.945239	0.617893	0.628773	0.648705	0.411418	0.451718
01/04/2029	0.944228	0.616960	0.628013	0.648067	0.412762	0.459161
02/04/2029	0.944808	0.617439	0.628488	0.648031	0.417955	0.474800
03/04/2029	0.947108	0.619639	0.630401	0.648877	0.426817	0.493795
04/04/2029	0.950560	0.623270	0.633390	0.650524	0.437704	0.513167
05/04/2029	0.952377	0.626237	0.635650	0.652096	0.440605	0.510317
06/04/2029	0.952021	0.627035	0.636148	0.652810	0.438703	0.495676
07/04/2029	0.950449	0.625814	0.635185	0.652513	0.434506	0.477289
08/04/2029	0.948585	0.623963	0.633676	0.651608	0.432620	0.469395
09/04/2029	0.946799	0.622121	0.632154	0.650587	0.428270	0.456151
10/04/2029	0.945100	0.620419	0.630648	0.649651	0.424869	0.443720
11/04/2029	0.946376	0.620769	0.630884	0.649581	0.432147	0.450687
12/04/2029	0.949144	0.623386	0.632660	0.650453	0.440852	0.466660
13/04/2029	0.950485	0.626245	0.634322	0.651557	0.445758	0.477641
14/04/2029	0.950178	0.627677	0.635056	0.652240	0.448207	0.487847
15/04/2029	0.951351	0.628866	0.636228	0.652899	0.455404	0.500552
16/04/2029	0.952420	0.630270	0.637468	0.653554	0.460323	0.509030
17/04/2029	0.952244	0.631082	0.637988	0.653947	0.460751	0.506651
18/04/2029	0.951089	0.630861	0.637695	0.653888	0.460984	0.507354
19/04/2029	0.949590	0.629654	0.636867	0.653427	0.458112	0.497202

20/04/2029	0.948335	0.628385	0.636001	0.652818	0.458376	0.498038
21/04/2029	0.948147	0.627970	0.635873	0.652502	0.461054	0.507837
22/04/2029	0.947926	0.627943	0.636047	0.652469	0.461084	0.506777
23/04/2029	0.947108	0.627605	0.635873	0.652411	0.460365	0.502353
24/04/2029	0.946521	0.627176	0.635678	0.652283	0.461612	0.507740
25/04/2029	0.951317	0.629500	0.638661	0.653701	0.470318	0.520837
26/04/2029	0.956421	0.633435	0.642476	0.656084	0.473547	0.518348
27/04/2029	0.958866	0.636677	0.644828	0.658070	0.477276	0.523197
28/04/2029	0.958706	0.637550	0.645239	0.658839	0.476319	0.517385
29/04/2029	0.957300	0.636266	0.644241	0.658468	0.472301	0.502285
30/04/2029	0.955606	0.634135	0.642615	0.657486	0.468766	0.488988
01/05/2029	0.953914	0.631840	0.640788	0.656345	0.462807	0.467944
02/05/2029	0.952220	0.629663	0.638864	0.655218	0.457827	0.448851
03/05/2029	0.950477	0.627577	0.636878	0.654103	0.452532	0.430622
04/05/2029	0.948658	0.625477	0.634820	0.652964	0.446941	0.412502
05/05/2029	0.946752	0.623334	0.632679	0.651780	0.441424	0.395737
06/05/2029	0.944763	0.621175	0.630476	0.650551	0.435908	0.380399
07/05/2029	0.942702	0.619030	0.628242	0.649296	0.430456	0.366489
08/05/2029	0.940585	0.616915	0.626001	0.648031	0.425091	0.353932
09/05/2029	0.938446	0.615194	0.623939	0.646805	0.423565	0.354958
10/05/2029	0.936315	0.613553	0.622059	0.645671	0.418778	0.348559
11/05/2029	0.934187	0.611760	0.620154	0.644580	0.414304	0.340137
12/05/2029	0.932059	0.610020	0.618246	0.643471	0.411687	0.338240
13/05/2029	0.929932	0.608236	0.616365	0.642351	0.406665	0.330411
14/05/2029	0.927806	0.606476	0.614492	0.641231	0.403161	0.325667
15/05/2029	0.925680	0.604680	0.612614	0.640114	0.398550	0.318715
16/05/2029	0.923547	0.602820	0.610702	0.638985	0.393855	0.310845
17/05/2029	0.921434	0.601352	0.608962	0.637883	0.393499	0.317975
18/05/2029	0.923052	0.602356	0.609661	0.637926	0.401221	0.336960
19/05/2029	0.925303	0.605266	0.611574	0.638898	0.408643	0.358150
20/05/2029	0.928068	0.609100	0.614108	0.640445	0.418667	0.382000
21/05/2029	0.930410	0.612663	0.616574	0.642017	0.427370	0.406407
22/05/2029	0.931004	0.614657	0.618028	0.643036	0.429827	0.414622
23/05/2029	0.931605	0.615704	0.619061	0.643640	0.434437	0.428808
24/05/2029	0.934656	0.617969	0.621422	0.644741	0.444622	0.445924
25/05/2029	0.937132	0.620961	0.623886	0.646124	0.450505	0.452933
26/05/2029	0.944233	0.626136	0.629003	0.649096	0.460330	0.465621
27/05/2029	0.960690	0.636384	0.639578	0.654147	0.473553	0.481572
28/05/2029	0.978031	0.649632	0.650782	0.660021	0.490379	0.499299
29/05/2029	0.987936	0.660171	0.657477	0.664567	0.505451	0.516027
30/05/2029	0.990101	0.664224	0.658964	0.666654	0.507609	0.510037
31/05/2029	0.991114	0.664789	0.658937	0.667342	0.514629	0.515855
01/06/2029	0.991455	0.664088	0.658484	0.667445	0.511144	0.495930
02/06/2029	0.990506	0.662537	0.657155	0.667100	0.503454	0.467090
03/06/2029	0.988486	0.659875	0.654845	0.666195	0.493519	0.435781
04/06/2029	0.985988	0.656432	0.651932	0.664791	0.483571	0.406264
05/06/2029	0.983361	0.652826	0.648816	0.663132	0.474394	0.380438
06/06/2029	0.980680	0.649541	0.645767	0.661446	0.467404	0.362926

07/06/2029	0.977927	0.646463	0.642825	0.659833	0.459504	0.344580
08/06/2029	0.975093	0.643416	0.639898	0.658264	0.452038	0.327420
09/06/2029	0.972188	0.640409	0.636977	0.656687	0.445253	0.313607
10/06/2029	0.969228	0.637412	0.634074	0.655092	0.437857	0.299230
12/06/2029	0.963194	0.631481	0.628291	0.651876	0.423707	0.273770
13/06/2029	0.960137	0.628612	0.625446	0.650266	0.417283	0.264199
14/06/2029	0.957099	0.626256	0.622863	0.648720	0.415237	0.269058
15/06/2029	0.954105	0.623963	0.620502	0.647294	0.408807	0.263077
17/06/2029	0.947993	0.618769	0.615483	0.644393	0.397086	0.248227
19/06/2029	0.942321	0.613603	0.610612	0.641554	0.384940	0.231747
20/06/2029	0.940755	0.612209	0.609051	0.640418	0.387819	0.249566
21/06/2029	0.939190	0.611338	0.607996	0.639624	0.384564	0.249533
22/06/2029	0.937031	0.610453	0.606805	0.638916	0.384061	0.256256
23/06/2029	0.934424	0.608828	0.605218	0.638030	0.378695	0.251703
24/06/2029	0.931690	0.606653	0.603300	0.636894	0.374484	0.247559
25/06/2029	0.928992	0.604231	0.601225	0.635599	0.368721	0.239629
26/06/2029	0.926341	0.601785	0.599079	0.634251	0.362998	0.230849
27/06/2029	0.923707	0.599386	0.596908	0.632902	0.357305	0.222452
28/06/2029	0.921101	0.597474	0.594939	0.631609	0.356133	0.228417
29/06/2029	0.918553	0.595846	0.593260	0.630447	0.352936	0.231323
30/06/2029	0.916060	0.594050	0.591615	0.629377	0.348359	0.227216
01/07/2029	0.915201	0.593336	0.590895	0.628707	0.352973	0.246969
02/07/2029	0.914510	0.593650	0.590906	0.628425	0.356356	0.265901
03/07/2029	0.913140	0.594086	0.590965	0.628287	0.358824	0.283583
04/07/2029	0.912295	0.594513	0.591328	0.628300	0.363326	0.307122
05/07/2029	0.911392	0.594565	0.591677	0.628318	0.364341	0.316728
06/07/2029	0.910048	0.594082	0.591610	0.628156	0.364180	0.321410
07/07/2029	0.908354	0.592818	0.590975	0.627706	0.360057	0.313535
08/07/2029	0.906587	0.591515	0.590120	0.627036	0.360860	0.320379
09/07/2029	0.906318	0.591332	0.590218	0.626704	0.365353	0.337161
10/07/2029	0.916859	0.596688	0.597068	0.630033	0.377235	0.360903
11/07/2029	0.928198	0.604889	0.605600	0.635493	0.381760	0.364328
12/07/2029	0.933397	0.610730	0.610454	0.639783	0.381330	0.357690
13/07/2029	0.933765	0.612480	0.611378	0.641357	0.383035	0.365350
14/07/2029	0.932172	0.611564	0.610431	0.640849	0.384020	0.373350
15/07/2029	0.930266	0.609724	0.609060	0.639624	0.382390	0.371556
16/07/2029	0.928444	0.607740	0.607647	0.638459	0.379549	0.363436
17/07/2029	0.926662	0.605690	0.606146	0.637441	0.375261	0.349742
19/07/2029	0.922967	0.601473	0.602800	0.635337	0.366279	0.321919
21/07/2029	0.919039	0.597300	0.599186	0.633073	0.357211	0.297630
22/07/2029	0.916983	0.595292	0.597346	0.631910	0.353068	0.288208
23/07/2029	0.914876	0.593371	0.595539	0.630762	0.349294	0.281002
24/07/2029	0.912735	0.591477	0.593764	0.629641	0.345262	0.273700
26/07/2029	0.908400	0.587710	0.590237	0.627424	0.337504	0.260606
27/07/2029	0.907897	0.587148	0.589555	0.626759	0.342279	0.277449
28/07/2029	0.908952	0.588405	0.590383	0.626873	0.349911	0.301910
29/07/2029	0.911823	0.591744	0.592965	0.628073	0.362418	0.330393
30/07/2029	0.913538	0.594867	0.595301	0.629547	0.366061	0.334516

31/07/2029	0.913155	0.595929	0.595987	0.630325	0.364922	0.327858
01/08/2029	0.911457	0.594691	0.595101	0.630067	0.359566	0.311298
02/08/2029	0.911469	0.593928	0.594713	0.629627	0.364583	0.320370
03/08/2029	0.913729	0.595569	0.596114	0.629975	0.374294	0.340969
04/08/2029	0.915174	0.597819	0.597734	0.630848	0.376200	0.339256
05/08/2029	0.914719	0.598478	0.598050	0.631377	0.373763	0.327105
06/08/2029	0.913022	0.597078	0.596966	0.631057	0.368301	0.309485
07/08/2029	0.910970	0.595165	0.595402	0.630102	0.367875	0.311031
08/08/2029	0.908974	0.593262	0.593897	0.629012	0.362862	0.300089
09/08/2029	0.907058	0.591364	0.592334	0.627998	0.358384	0.287451
11/08/2029	0.902833	0.586969	0.588546	0.625760	0.347461	0.260109
12/08/2029	0.901143	0.585197	0.586974	0.624839	0.343010	0.249720
13/08/2029	0.899081	0.583131	0.585087	0.623707	0.338050	0.239217
14/08/2029	0.896980	0.581117	0.583199	0.622569	0.333057	0.229608
15/08/2029	0.894853	0.579195	0.581332	0.621440	0.328878	0.223070
16/08/2029	0.892710	0.577315	0.579496	0.620327	0.324344	0.216436
17/08/2029	0.890557	0.575424	0.577664	0.619222	0.319775	0.209618
18/08/2029	0.890355	0.575069	0.577076	0.618629	0.325603	0.228656
19/08/2029	0.890293	0.575515	0.577145	0.618505	0.325206	0.230546
20/08/2029	0.891172	0.576990	0.577975	0.618880	0.333336	0.252988
21/08/2029	0.894542	0.580434	0.580700	0.620234	0.346020	0.280890
22/08/2029	0.897036	0.583997	0.583399	0.621908	0.349581	0.283846
23/08/2029	0.897158	0.585557	0.584350	0.622906	0.347880	0.275921
25/08/2029	0.893979	0.583101	0.582320	0.622181	0.337885	0.251310
26/08/2029	0.891720	0.580545	0.580344	0.620885	0.334295	0.245925
27/08/2029	0.890085	0.578982	0.579008	0.619741	0.335621	0.259822
28/08/2029	0.889430	0.578948	0.578915	0.619258	0.340277	0.284079
29/08/2029	0.888747	0.579081	0.579195	0.619241	0.339400	0.286423
30/08/2029	0.887563	0.578354	0.578876	0.619139	0.336477	0.278489
31/08/2029	0.888846	0.578858	0.579630	0.619413	0.344591	0.291542
01/09/2029	0.891478	0.581384	0.581713	0.620325	0.353553	0.313213
02/09/2029	0.892892	0.584398	0.583848	0.621489	0.359977	0.334724
03/09/2029	0.892571	0.585749	0.584935	0.622287	0.359670	0.338082
04/09/2029	0.891290	0.585078	0.584803	0.622365	0.357165	0.333683
05/09/2029	0.889787	0.583589	0.584068	0.621864	0.355981	0.334075
06/09/2029	0.888358	0.582211	0.583316	0.621181	0.354353	0.334766
07/09/2029	0.887034	0.581150	0.582706	0.620590	0.353234	0.336109
08/09/2029	0.885786	0.580416	0.582272	0.620145	0.354044	0.344007
09/09/2029	0.884583	0.579594	0.581881	0.619783	0.352147	0.342412
10/09/2029	0.883385	0.578485	0.581320	0.619383	0.349744	0.336599
11/09/2029	0.882156	0.577149	0.580547	0.618871	0.346796	0.328982
12/09/2029	0.880884	0.575742	0.579637	0.618262	0.343645	0.321073
13/09/2029	0.879573	0.574363	0.578667	0.617609	0.340557	0.313911
14/09/2029	0.878261	0.573412	0.577865	0.616996	0.341414	0.321318
15/09/2029	0.887386	0.577435	0.583393	0.619684	0.350366	0.338922
16/09/2029	0.898600	0.585298	0.591498	0.624702	0.359631	0.361800
17/09/2029	0.904515	0.591918	0.596976	0.629115	0.361822	0.367067
18/09/2029	0.909903	0.596864	0.601192	0.632436	0.371573	0.382452

19/09/2029	0.916859	0.602186	0.605875	0.635356	0.385513	0.401439
20/09/2029	0.921464	0.606981	0.609433	0.637693	0.391027	0.402715
21/09/2029	0.922479	0.609231	0.610623	0.638882	0.390938	0.395754
22/09/2029	0.921314	0.608525	0.609842	0.638768	0.387355	0.383955
23/09/2029	0.919520	0.606221	0.608153	0.637785	0.383037	0.371550
24/09/2029	0.918025	0.604249	0.606661	0.636637	0.383461	0.376652
25/09/2029	0.925153	0.606980	0.610582	0.638305	0.392253	0.392701
26/09/2029	0.933353	0.612605	0.616297	0.641873	0.396274	0.395105
27/09/2029	0.940029	0.618887	0.621333	0.645645	0.407447	0.409909
28/09/2029	0.942957	0.623001	0.623959	0.648008	0.411946	0.412901
29/09/2029	0.942754	0.624124	0.624172	0.648561	0.413493	0.414472
30/09/2029	0.941077	0.622815	0.622937	0.647867	0.410304	0.406294
01/10/2029	0.939193	0.620815	0.621380	0.646721	0.410282	0.410445
02/10/2029	0.937421	0.619097	0.620101	0.645659	0.409573	0.414247
03/10/2029	0.935728	0.617677	0.619059	0.644825	0.408197	0.414995
04/10/2029	0.934052	0.616267	0.618042	0.644103	0.406584	0.413647
05/10/2029	0.932366	0.614771	0.616970	0.643365	0.404933	0.411731
06/10/2029	0.930667	0.613223	0.615859	0.642578	0.402988	0.408931
07/10/2029	0.931816	0.613512	0.616382	0.642539	0.410758	0.419902
08/10/2029	0.933296	0.615352	0.617743	0.643124	0.417121	0.432547
09/10/2029	0.937581	0.621115	0.623982	0.646530	0.428254	0.449088
10/10/2029	0.954578	0.631046	0.634131	0.652813	0.443085	0.468053
11/10/2029	0.973074	0.642217	0.643750	0.659615	0.458844	0.487397
12/10/2029	0.982702	0.650004	0.649117	0.664212	0.466249	0.495924
13/10/2029	0.983969	0.652375	0.650093	0.665717	0.466153	0.492800
14/10/2029	0.981524	0.650856	0.648633	0.665013	0.463848	0.487206
15/10/2029	0.978545	0.648012	0.646547	0.663480	0.460507	0.479779
16/10/2029	0.979141	0.647391	0.646476	0.662880	0.467240	0.486359
17/10/2029	0.985104	0.650281	0.648866	0.663879	0.478964	0.500814
18/10/2029	0.991258	0.654918	0.652099	0.665808	0.491246	0.519641
19/10/2029	0.993530	0.658096	0.654118	0.667383	0.496507	0.524679
20/10/2029	1.011160	0.661768	0.658170	0.669844	0.508484	0.534373
21/10/2029	1.030096	0.666727	0.663165	0.672972	0.520554	0.547329
22/10/2029	1.038554	0.670880	0.666334	0.675434	0.522605	0.548514
23/10/2029	1.038136	0.672572	0.667079	0.676425	0.521446	0.553207
24/10/2029	1.034131	0.671997	0.666315	0.676099	0.518661	0.556175
25/10/2029	1.029878	0.670363	0.665028	0.675135	0.514976	0.554913
26/10/2029	1.029216	0.670031	0.665049	0.674719	0.522300	0.561990
27/10/2029	1.031428	0.672467	0.667143	0.675570	0.538225	0.575825
28/10/2029	1.040924	0.678222	0.671875	0.678385	0.557955	0.594221
29/10/2029	1.087614	0.690017	0.686049	0.691892	0.577479	0.599658
30/10/2029	1.132083	0.703944	0.703649	0.710200	0.580505	0.593029
31/10/2029	1.150622	0.714051	0.715780	0.723457	0.572425	0.583081
01/11/2029	1.149396	0.717482	0.719391	0.727560	0.560698	0.575949
02/11/2029	1.157578	0.719365	0.722182	0.729720	0.564715	0.582120
03/11/2029	1.168762	0.723023	0.726633	0.732801	0.571333	0.599814
04/11/2029	1.172523	0.727038	0.730120	0.735349	0.570010	0.600091
05/11/2029	1.210797	0.734662	0.740831	0.748926	0.577873	0.601004

06/11/2029	1.281721	0.749707	0.763822	0.777410	0.592901	0.601774
07/11/2029	1.341286	0.769699	0.790710	0.807772	0.610669	0.602775
08/11/2029	1.364726	0.786474	0.808965	0.825954	0.617580	0.603765
09/11/2029	1.361195	0.794584	0.814575	0.829012	0.614824	0.604250
10/11/2029	1.350118	0.795458	0.812208	0.822834	0.610969	0.604249
11/11/2029	1.345325	0.794901	0.808993	0.816274	0.617314	0.604095
12/11/2029	1.342195	0.795627	0.806886	0.812105	0.620224	0.604022
13/11/2029	1.335765	0.796488	0.804610	0.808987	0.614113	0.602602
14/11/2029	1.326417	0.795894	0.801158	0.805327	0.604236	0.602623
15/11/2029	1.321916	0.795384	0.798416	0.801867	0.606773	0.603296
16/11/2029	1.319420	0.795997	0.796730	0.799010	0.611030	0.603511
17/11/2029	1.314330	0.796638	0.794762	0.796241	0.608454	0.603117
18/11/2029	1.312019	0.797126	0.793059	0.794065	0.610238	0.603363
19/11/2029	1.310713	0.798521	0.792914	0.792394	0.612347	0.603479
20/11/2029	1.306749	0.799885	0.792420	0.790563	0.609388	0.603449
21/11/2029	1.311076	0.801673	0.792810	0.791001	0.615318	0.603443
22/11/2029	1.315766	0.803628	0.793822	0.792535	0.618564	0.603519
23/11/2029	1.325323	0.809245	0.799717	0.795664	0.627512	0.603676
24/11/2029	1.332090	0.816378	0.805833	0.798708	0.632094	0.603887
25/11/2029	1.338128	0.822023	0.809332	0.801122	0.638326	0.604066
26/11/2029	1.338792	0.824004	0.809336	0.801669	0.635643	0.603628
27/11/2029	1.349836	0.829118	0.815350	0.804405	0.640026	0.603874
28/11/2029	1.359728	0.836307	0.822376	0.808293	0.635964	0.602090
29/11/2029	1.359979	0.840645	0.824450	0.810122	0.626861	0.602539
30/11/2029	1.354649	0.840610	0.822116	0.808926	0.623195	0.603801
01/12/2029	1.353229	0.838961	0.819171	0.806893	0.627892	0.604161
02/12/2029	1.351388	0.837214	0.816450	0.804874	0.625891	0.602770
03/12/2029	1.345896	0.835027	0.813242	0.802530	0.618269	0.602479
04/12/2029	1.338125	0.832001	0.809443	0.799584	0.610730	0.603399
05/12/2029	1.329676	0.828271	0.805266	0.796147	0.601960	0.602488
06/12/2029	1.321350	0.824380	0.800989	0.792550	0.594462	0.602865
07/12/2029	1.322131	0.823586	0.800389	0.791189	0.600993	0.603256
08/12/2029	1.324133	0.825000	0.801266	0.791349	0.604082	0.603394
09/12/2029	1.322621	0.826386	0.801432	0.791446	0.606751	0.603524
10/12/2029	1.320232	0.826947	0.801186	0.791764	0.612069	0.603660
11/12/2029	1.317714	0.827128	0.801073	0.792013	0.617393	0.603754
12/12/2029	1.315535	0.828345	0.802485	0.792418	0.621079	0.603823
13/12/2029	1.311719	0.829157	0.803060	0.792257	0.616627	0.602699
14/12/2029	1.309029	0.828702	0.802027	0.791187	0.614140	0.603379
15/12/2029	1.305338	0.826554	0.799420	0.789153	0.606718	0.601642
16/12/2029	1.299735	0.823188	0.795790	0.786417	0.598009	0.601761
17/12/2029	1.292967	0.819241	0.791776	0.783364	0.588323	0.601161
18/12/2029	1.285964	0.815227	0.787787	0.780286	0.579657	0.601090
19/12/2029	1.279180	0.811388	0.783986	0.777324	0.571987	0.600981
20/12/2029	1.272683	0.807714	0.780357	0.774497	0.564559	0.599795
21/12/2029	1.266415	0.804166	0.776848	0.771770	0.557956	0.599336
22/12/2029	1.260326	0.800692	0.773430	0.769115	0.551524	0.597791
23/12/2029	1.256041	0.799385	0.772073	0.767255	0.560629	0.601582

24/12/2029	1.270509	0.805330	0.779359	0.771290	0.579183	0.602499
25/12/2029	1.286347	0.814497	0.788683	0.778404	0.585731	0.601492
26/12/2029	1.291460	0.820131	0.793199	0.783338	0.581190	0.600745
27/12/2029	1.287663	0.819811	0.791989	0.783790	0.573490	0.601920
28/12/2029	1.280624	0.815748	0.787764	0.780899	0.566161	0.602389
29/12/2029	1.273543	0.810884	0.783064	0.776962	0.559160	0.601189
30/12/2029	1.267098	0.806738	0.778937	0.773416	0.554753	0.602056
31/12/2029	1.266593	0.805358	0.777508	0.771693	0.564237	0.602430
01/01/2030	1.267318	0.805974	0.777468	0.771242	0.571714	0.602625
02/01/2030	1.265467	0.806360	0.776921	0.770792	0.573017	0.602738
03/01/2030	1.268047	0.807971	0.778827	0.771306	0.578642	0.602824
04/01/2030	1.301740	0.820212	0.795693	0.781947	0.592471	0.603092
05/01/2030	1.335467	0.837839	0.815601	0.797526	0.598140	0.603586
06/01/2030	1.348593	0.849728	0.826196	0.808445	0.594925	0.603696
07/01/2030	1.345484	0.851504	0.826053	0.810825	0.588460	0.604051
08/01/2030	1.336613	0.846588	0.820219	0.807023	0.579965	0.602610
09/01/2030	1.327631	0.840125	0.813442	0.801313	0.572416	0.602309
10/01/2030	1.319647	0.834640	0.807624	0.796296	0.565395	0.601795
12/01/2030	1.305096	0.825848	0.798093	0.788758	0.553476	0.601327
13/01/2030	1.298313	0.822054	0.793994	0.785749	0.548744	0.601532
14/01/2030	1.291725	0.818314	0.790043	0.782792	0.544487	0.601479
15/01/2030	1.285257	0.814562	0.786152	0.779787	0.540200	0.601005
16/01/2030	1.278891	0.810884	0.782346	0.776803	0.536478	0.601122
17/01/2030	1.272644	0.807335	0.778673	0.773914	0.533011	0.601084
18/01/2030	1.266538	0.803916	0.775149	0.771144	0.529812	0.600970
19/01/2030	1.260867	0.800819	0.771946	0.768559	0.528985	0.601904
20/01/2030	1.255358	0.797884	0.768957	0.766134	0.526714	0.600774
21/01/2030	1.252379	0.796404	0.767344	0.764440	0.535686	0.601803
22/01/2030	1.251038	0.796600	0.766965	0.763573	0.546232	0.602299
23/01/2030	1.266912	0.801497	0.773063	0.768719	0.562955	0.602566
24/01/2030	1.285616	0.809308	0.782117	0.777063	0.576463	0.602904
25/01/2030	1.293248	0.815160	0.787913	0.783082	0.578059	0.602478
26/01/2030	1.329494	0.831387	0.809775	0.796467	0.586450	0.603236
27/01/2030	1.367163	0.853559	0.834864	0.813663	0.590335	0.603980
28/01/2030	1.382963	0.868730	0.848124	0.825539	0.587249	0.603911
29/01/2030	1.380321	0.871402	0.847884	0.828089	0.580793	0.603936
30/01/2030	1.373735	0.866690	0.841576	0.824264	0.581407	0.604521
31/01/2030	1.366953	0.860674	0.834667	0.818593	0.579777	0.603814
01/02/2030	1.361091	0.856381	0.829436	0.813923	0.581560	0.604184
02/02/2030	1.360725	0.854478	0.826772	0.811895	0.588715	0.604363
03/02/2030	1.365406	0.854858	0.826598	0.812303	0.602163	0.604450
04/02/2030	1.386257	0.863542	0.837457	0.818586	0.618895	0.604618
05/02/2030	1.405318	0.876143	0.850417	0.827202	0.629349	0.604951
06/02/2030	1.410751	0.884250	0.856373	0.832667	0.629821	0.605264
07/02/2030	1.420363	0.889696	0.861201	0.836749	0.635707	0.605442
08/02/2030	1.429018	0.893757	0.864839	0.839681	0.640942	0.605552
09/02/2030	1.429010	0.895031	0.864607	0.840234	0.636518	0.604090
10/02/2030	1.421848	0.892365	0.860407	0.837953	0.628853	0.604950

11/02/2030	1.412298	0.887130	0.854321	0.833757	0.621040	0.605108
12/02/2030	1.418225	0.886659	0.855407	0.834913	0.626305	0.605076
13/02/2030	1.426400	0.890032	0.859983	0.839667	0.625659	0.603504
14/02/2030	1.426328	0.892039	0.861677	0.842732	0.619011	0.603320
15/02/2030	1.419105	0.889811	0.858556	0.841522	0.609067	0.603076
16/02/2030	1.409327	0.884332	0.852456	0.836958	0.598734	0.602605
17/02/2030	1.399639	0.878006	0.845731	0.831304	0.589641	0.602468
18/02/2030	1.390577	0.872226	0.839506	0.826062	0.581519	0.602075
19/02/2030	1.381989	0.867183	0.833901	0.821556	0.574752	0.602223
20/02/2030	1.373720	0.862529	0.828690	0.817515	0.568227	0.601752
21/02/2030	1.365698	0.858015	0.823691	0.813654	0.562113	0.601477
22/02/2030	1.358410	0.853967	0.819180	0.810003	0.560308	0.603192
23/02/2030	1.351588	0.850466	0.815205	0.806643	0.559603	0.603661
24/02/2030	1.344729	0.847211	0.811460	0.803503	0.558341	0.603616
25/02/2030	1.337705	0.843854	0.807661	0.800427	0.555852	0.603253
26/02/2030	1.332296	0.841098	0.804574	0.797713	0.558847	0.603368
27/02/2030	1.328104	0.839303	0.802361	0.795526	0.563497	0.603547
28/02/2030	1.326384	0.839061	0.801589	0.794323	0.575232	0.603665
01/03/2030	1.324500	0.839404	0.801161	0.793608	0.582230	0.603733
02/03/2030	1.320400	0.838722	0.799764	0.792498	0.581097	0.603402
03/03/2030	1.314504	0.836223	0.797063	0.790553	0.573500	0.601392
04/03/2030	1.307986	0.832288	0.793489	0.787899	0.563621	0.597837
05/03/2030	1.301556	0.827853	0.789622	0.784931	0.553838	0.592410
06/03/2030	1.298339	0.825478	0.787474	0.782773	0.561134	0.601469
07/03/2030	1.295569	0.824603	0.786145	0.781342	0.562817	0.600216
08/03/2030	1.309838	0.828462	0.791164	0.785577	0.574764	0.602224
09/03/2030	1.325782	0.835136	0.798889	0.792792	0.582598	0.603143
10/03/2030	1.331471	0.840150	0.803697	0.797918	0.583409	0.603501
11/03/2030	1.342663	0.843717	0.807853	0.802949	0.592178	0.603747
12/03/2030	1.354641	0.847199	0.812164	0.807216	0.605031	0.603942
13/03/2030	1.358285	0.849451	0.814246	0.809021	0.604900	0.601566
14/03/2030	1.353842	0.848813	0.812811	0.807817	0.595512	0.598386
15/03/2030	1.346620	0.845972	0.809371	0.804646	0.588714	0.602721
16/03/2030	1.346717	0.845141	0.808772	0.802787	0.595496	0.603688
17/03/2030	1.349198	0.846840	0.810106	0.802675	0.603305	0.603878
18/03/2030	1.350925	0.849050	0.811109	0.802987	0.609183	0.604017
19/03/2030	1.348635	0.849118	0.810030	0.802249	0.604160	0.601224
20/03/2030	1.343569	0.847054	0.807355	0.800219	0.599297	0.603073
21/03/2030	1.338652	0.844872	0.805009	0.797924	0.600865	0.603713
22/03/2030	1.336117	0.845493	0.806127	0.797574	0.607256	0.603826
23/03/2030	1.334627	0.847887	0.808465	0.798612	0.611982	0.603914
24/03/2030	1.331291	0.848804	0.808783	0.799054	0.606229	0.600066
25/03/2030	1.325875	0.846769	0.806318	0.797738	0.596056	0.598992
26/03/2030	1.319515	0.842589	0.802202	0.794916	0.583870	0.595354
27/03/2030	1.315266	0.839161	0.798907	0.792064	0.584584	0.602082
28/03/2030	1.317288	0.838353	0.798062	0.791349	0.594122	0.603321
29/03/2030	1.319978	0.839771	0.799202	0.792262	0.604136	0.603526
30/03/2030	1.318594	0.840647	0.799641	0.792849	0.601899	0.600288

31/03/2030	1.313569	0.839149	0.797918	0.791858	0.592174	0.596186
01/04/2030	1.307094	0.835286	0.794393	0.789342	0.578882	0.582549
02/04/2030	1.303661	0.832452	0.791901	0.786935	0.583064	0.590266
03/04/2030	1.302330	0.831980	0.791023	0.785506	0.592405	0.602305
04/04/2030	1.299871	0.832198	0.790275	0.784583	0.596679	0.603311
05/04/2030	1.301012	0.832794	0.790875	0.786136	0.606801	0.603204
06/04/2030	1.302176	0.833323	0.792228	0.788621	0.611389	0.603205
07/04/2030	1.302662	0.834421	0.794119	0.790523	0.620746	0.603368
08/04/2030	1.302629	0.836328	0.796388	0.791572	0.628373	0.603531
09/04/2030	1.300830	0.837541	0.797334	0.791518	0.629072	0.603576
10/04/2030	1.296840	0.836509	0.796052	0.790246	0.620849	0.598719
11/04/2030	1.291513	0.833164	0.792924	0.787936	0.607318	0.587877
12/04/2030	1.285801	0.828588	0.788864	0.784995	0.592458	0.571636
13/04/2030	1.280150	0.823866	0.784583	0.781848	0.578727	0.553578
14/04/2030	1.274747	0.819908	0.780650	0.778825	0.571946	0.553535
15/04/2030	1.269526	0.816769	0.777295	0.776104	0.569074	0.561721
16/04/2030	1.264387	0.813720	0.774192	0.773643	0.562919	0.557148
17/04/2030	1.260500	0.811287	0.771738	0.771560	0.564117	0.569264
18/04/2030	1.256968	0.809506	0.769840	0.769792	0.565761	0.586871
19/04/2030	1.254616	0.808635	0.768797	0.768519	0.571908	0.601654
20/04/2030	1.252752	0.808372	0.768287	0.767664	0.577976	0.602630
21/04/2030	1.249801	0.807459	0.767254	0.766721	0.574736	0.589805
22/04/2030	1.245617	0.805117	0.765110	0.765246	0.565168	0.571190
23/04/2030	1.240844	0.801785	0.762143	0.763185	0.555679	0.558181
24/04/2030	1.236861	0.798860	0.759509	0.761051	0.552817	0.565377
25/04/2030	1.234711	0.797502	0.758245	0.759561	0.558734	0.585679
26/04/2030	1.233678	0.797624	0.758169	0.758902	0.567375	0.601510
27/04/2030	1.234141	0.799087	0.759250	0.759108	0.581196	0.602531
28/04/2030	1.233639	0.800488	0.760056	0.759420	0.587792	0.602264
29/04/2030	1.231439	0.800628	0.759796	0.759184	0.588067	0.602156
30/04/2030	1.227831	0.798793	0.758259	0.758150	0.578511	0.587700
01/05/2030	1.223554	0.795426	0.755636	0.756403	0.565693	0.565570
02/05/2030	1.220098	0.792391	0.753137	0.754493	0.560796	0.566723
03/05/2030	1.216762	0.789872	0.750964	0.752732	0.553999	0.556316
04/05/2030	1.213011	0.787139	0.748535	0.751028	0.545012	0.534850
05/05/2030	1.208878	0.783773	0.745518	0.749119	0.535067	0.508843
06/05/2030	1.204575	0.779971	0.742049	0.746910	0.524951	0.482344
07/05/2030	1.200234	0.776106	0.738391	0.744511	0.515439	0.458130
08/05/2030	1.195886	0.772368	0.734706	0.742071	0.506687	0.436922
09/05/2030	1.191777	0.769443	0.731457	0.739781	0.504772	0.441145
10/05/2030	1.187736	0.766767	0.728593	0.737724	0.498628	0.431296
11/05/2030	1.183625	0.763858	0.725647	0.735755	0.492543	0.417977
12/05/2030	1.179425	0.760594	0.722436	0.733685	0.485562	0.402269
13/05/2030	1.175173	0.757152	0.719049	0.731471	0.478403	0.386224
14/05/2030	1.176283	0.756892	0.718866	0.730806	0.484123	0.397886
15/05/2030	1.182503	0.761370	0.722708	0.732623	0.496255	0.421583
16/05/2030	1.187535	0.767596	0.727110	0.735441	0.506755	0.450568
17/05/2030	1.188237	0.771597	0.729336	0.737307	0.516451	0.475308

18/05/2030	1.185525	0.771388	0.728770	0.737332	0.515166	0.469735
19/05/2030	1.181404	0.768116	0.726189	0.735778	0.508935	0.452220
20/05/2030	1.177056	0.763814	0.722737	0.733418	0.500238	0.430417
21/05/2030	1.172805	0.759723	0.719157	0.730908	0.491562	0.409538
22/05/2030	1.168635	0.756071	0.715697	0.728536	0.483722	0.391617
23/05/2030	1.164488	0.752683	0.712358	0.726307	0.476886	0.377233
24/05/2030	1.160326	0.749358	0.709079	0.724141	0.470291	0.364182
25/05/2030	1.156137	0.746033	0.705815	0.721979	0.463974	0.352313
26/05/2030	1.151928	0.742750	0.702567	0.719810	0.458014	0.342141
27/05/2030	1.147709	0.739510	0.699348	0.717651	0.451939	0.332218
28/05/2030	1.143492	0.736311	0.696159	0.715515	0.446020	0.322982
29/05/2030	1.139285	0.733154	0.693008	0.713401	0.440197	0.314426
30/05/2030	1.135097	0.730118	0.689932	0.711319	0.435204	0.308833
31/05/2030	1.130941	0.727210	0.686967	0.709284	0.430367	0.304428
01/06/2030	1.126837	0.724579	0.684186	0.707323	0.427720	0.306378
02/06/2030	1.122789	0.721918	0.681506	0.705440	0.422430	0.300823
03/06/2030	1.118775	0.719067	0.678752	0.703570	0.417068	0.292417
04/06/2030	1.114772	0.716068	0.675884	0.701648	0.411321	0.282916
05/06/2030	1.110770	0.713045	0.672965	0.699677	0.405477	0.273450
06/06/2030	1.106787	0.710301	0.670159	0.697721	0.402028	0.272036
07/06/2030	1.102841	0.707671	0.667494	0.695844	0.396892	0.267124
08/06/2030	1.098930	0.704984	0.664848	0.694024	0.391872	0.260913
09/06/2030	1.095082	0.702772	0.662431	0.692262	0.392319	0.272847
10/06/2030	1.091333	0.700812	0.660335	0.690632	0.389786	0.276881
11/06/2030	1.087667	0.698640	0.658251	0.689098	0.385644	0.272899
13/06/2030	1.080428	0.693393	0.653641	0.685894	0.376418	0.259877
14/06/2030	1.076859	0.690887	0.651373	0.684232	0.375451	0.265040
15/06/2030	1.076931	0.690869	0.651488	0.683670	0.383059	0.286073
16/06/2030	1.082768	0.695414	0.655787	0.685565	0.397684	0.315883
17/06/2030	1.087494	0.701065	0.660325	0.688442	0.402280	0.321106
18/06/2030	1.087912	0.703857	0.661955	0.690169	0.400725	0.314480
20/06/2030	1.082418	0.700855	0.658812	0.688849	0.390210	0.290712
23/06/2030	1.069403	0.688373	0.648679	0.681737	0.370092	0.253408
25/06/2030	1.062109	0.681342	0.643037	0.677621	0.359873	0.237517
26/06/2030	1.058289	0.678314	0.640416	0.675755	0.357355	0.238769
27/06/2030	1.054691	0.675707	0.638164	0.674209	0.352627	0.234556
28/06/2030	1.051225	0.673156	0.635992	0.672760	0.348540	0.229811
29/06/2030	1.047815	0.670555	0.633780	0.671261	0.344392	0.225174
30/06/2030	1.044421	0.667938	0.631537	0.669703	0.340020	0.220022
01/07/2030	1.041030	0.665277	0.629258	0.668123	0.335122	0.212472
03/07/2030	1.033384	0.659260	0.624010	0.664540	0.324384	0.196450
04/07/2030	1.030882	0.657305	0.622277	0.663364	0.320864	0.191457
05/07/2030	1.027516	0.654731	0.619970	0.661787	0.316416	0.185912
06/07/2030	1.024877	0.653220	0.618400	0.660467	0.320023	0.207516
07/07/2030	1.026997	0.655047	0.620236	0.660843	0.331077	0.239057
08/07/2030	1.029436	0.658249	0.623052	0.662317	0.334486	0.245908
09/07/2030	1.029333	0.660570	0.624476	0.663437	0.340122	0.264438
10/07/2030	1.027167	0.660992	0.624407	0.663496	0.343300	0.281923

11/07/2030	1.024302	0.659569	0.623384	0.662691	0.340841	0.278575
12/07/2030	1.021461	0.657466	0.621925	0.661488	0.340368	0.279062
13/07/2030	1.018775	0.655634	0.620558	0.660262	0.340740	0.285255
14/07/2030	1.018157	0.655399	0.620562	0.659693	0.347225	0.305011
15/07/2030	1.017714	0.655807	0.621113	0.659658	0.348895	0.306516
16/07/2030	1.016910	0.656373	0.621621	0.659761	0.354691	0.324571
17/07/2030	1.028826	0.662347	0.629661	0.663845	0.365726	0.347915
18/07/2030	1.042473	0.672043	0.640148	0.670406	0.375753	0.371304
19/07/2030	1.053545	0.682352	0.649458	0.677061	0.389205	0.395896
20/07/2030	1.058683	0.689495	0.654820	0.681409	0.398766	0.414959
21/07/2030	1.058815	0.691406	0.655949	0.682743	0.397600	0.402555
22/07/2030	1.056507	0.689136	0.654240	0.681837	0.392948	0.379275
24/07/2030	1.050031	0.680914	0.648092	0.677641	0.379625	0.328055
25/07/2030	1.047060	0.677264	0.645164	0.675589	0.373552	0.307223
27/07/2030	1.039204	0.669250	0.638055	0.670913	0.359122	0.263994
31/07/2030	1.027383	0.659159	0.628423	0.664871	0.340266	0.220841
01/08/2030	1.024032	0.656584	0.625891	0.663256	0.336152	0.215725
02/08/2030	1.022646	0.655640	0.624701	0.662166	0.342192	0.236582
03/08/2030	1.021446	0.655941	0.624434	0.661623	0.346237	0.253865
04/08/2030	1.019384	0.656339	0.624186	0.661266	0.350236	0.274699
05/08/2030	1.016640	0.655652	0.623447	0.660723	0.349322	0.279553
06/08/2030	1.019037	0.656942	0.625355	0.661417	0.358603	0.299928
07/08/2030	1.022184	0.660093	0.628368	0.662997	0.365602	0.317415
08/08/2030	1.025243	0.664248	0.631603	0.664943	0.376821	0.340848
09/08/2030	1.029236	0.669172	0.635442	0.667186	0.392017	0.367264
10/08/2030	1.031335	0.672767	0.638174	0.668968	0.396103	0.365942
11/08/2030	1.031293	0.674401	0.639286	0.669796	0.401453	0.378759
12/08/2030	1.033230	0.676208	0.641272	0.670688	0.410882	0.396898
13/08/2030	1.034819	0.677914	0.643207	0.671673	0.412385	0.390716
14/08/2030	1.034388	0.678209	0.643621	0.672124	0.409910	0.375288
15/08/2030	1.032368	0.677110	0.642687	0.671700	0.410236	0.375583
16/08/2030	1.029767	0.674888	0.641118	0.670646	0.405240	0.361694
17/08/2030	1.027120	0.672171	0.639227	0.669336	0.400535	0.345831
18/08/2030	1.027280	0.671515	0.638934	0.668742	0.408190	0.356488
19/08/2030	1.029413	0.673631	0.640545	0.669247	0.418761	0.377785
20/08/2030	1.030243	0.675868	0.642079	0.670140	0.420504	0.375665
21/08/2030	1.027557	0.675082	0.641455	0.670211	0.415361	0.353594
22/08/2030	1.026775	0.674258	0.640911	0.669932	0.413667	0.348634
23/08/2030	1.024670	0.671877	0.639298	0.668937	0.409267	0.335414
24/08/2030	1.022074	0.669112	0.637227	0.667560	0.403814	0.320201
25/08/2030	1.019409	0.666516	0.635116	0.666201	0.398480	0.306350
26/08/2030	1.018062	0.665234	0.633949	0.665239	0.402149	0.320144
27/08/2030	1.016786	0.664525	0.633341	0.664656	0.400161	0.317548
28/08/2030	1.014811	0.663372	0.632370	0.664085	0.396953	0.309363
29/08/2030	1.012245	0.661391	0.630766	0.663204	0.392376	0.298940
30/08/2030	1.009477	0.659361	0.628986	0.662040	0.391788	0.302711
31/08/2030	1.007105	0.658027	0.627742	0.660970	0.393306	0.318139
01/09/2030	1.004901	0.656995	0.626911	0.660171	0.392502	0.324573

02/09/2030	1.003021	0.656275	0.626405	0.659622	0.395075	0.341957
03/09/2030	1.003146	0.656740	0.627137	0.659673	0.401629	0.364403
04/09/2030	1.003228	0.657660	0.628210	0.660070	0.403977	0.372750
05/09/2030	1.009450	0.661536	0.632850	0.662482	0.413927	0.390293
06/09/2030	1.015745	0.666606	0.638090	0.665845	0.417183	0.392697
07/09/2030	1.017972	0.669824	0.640824	0.668240	0.416798	0.389560
08/09/2030	1.016830	0.669934	0.640789	0.668789	0.414602	0.386102
09/09/2030	1.015207	0.668630	0.639874	0.668145	0.416036	0.398036
10/09/2030	1.013593	0.667335	0.639138	0.667248	0.416886	0.407622
11/09/2030	1.011799	0.666085	0.638484	0.666517	0.415139	0.407165
12/09/2030	1.010259	0.665098	0.638005	0.665994	0.416969	0.417374
13/09/2030	1.011610	0.666005	0.639292	0.666333	0.426050	0.433830
14/09/2030	1.013044	0.668090	0.641168	0.667215	0.431998	0.442696
15/09/2030	1.013046	0.669724	0.642389	0.667964	0.435723	0.453166
16/09/2030	1.011753	0.669853	0.642647	0.668153	0.436586	0.457506
17/09/2030	1.015414	0.671543	0.645381	0.669408	0.444527	0.469146
18/09/2030	1.028180	0.678742	0.653859	0.674029	0.458294	0.485605
19/09/2030	1.040116	0.688616	0.663053	0.680114	0.468992	0.504113
20/09/2030	1.045155	0.695588	0.668357	0.684592	0.472726	0.510444
21/09/2030	1.044779	0.697151	0.669268	0.686109	0.471036	0.503906
22/09/2030	1.042372	0.695016	0.667696	0.685331	0.468279	0.494000
23/09/2030	1.042029	0.693323	0.666780	0.684246	0.472957	0.498710
24/09/2030	1.043515	0.693934	0.667519	0.684074	0.481099	0.513072
25/09/2030	1.044058	0.695206	0.668498	0.684506	0.483850	0.513769
26/09/2030	1.042933	0.695294	0.668528	0.684709	0.483549	0.508742
27/09/2030	1.040839	0.693833	0.667548	0.684252	0.480764	0.499219
28/09/2030	1.039118	0.692122	0.666501	0.683445	0.481212	0.503160
29/09/2030	1.039179	0.691703	0.666612	0.683065	0.486646	0.516871
30/09/2030	1.040192	0.692751	0.667818	0.683402	0.494148	0.535306
01/10/2030	1.044397	0.696083	0.671278	0.685162	0.511656	0.553988
02/10/2030	1.048036	0.700085	0.674928	0.687456	0.522331	0.568668
03/10/2030	1.048786	0.702287	0.676777	0.689010	0.521650	0.566539
04/10/2030	1.047300	0.701866	0.676592	0.689257	0.516105	0.557857
05/10/2030	1.044992	0.699748	0.675242	0.688480	0.509059	0.545949
06/10/2030	1.043780	0.697990	0.674264	0.687583	0.507726	0.549205
07/10/2030	1.047796	0.699146	0.675955	0.688059	0.519756	0.561786
08/10/2030	1.052842	0.702590	0.679060	0.689735	0.532367	0.580032
09/10/2030	1.054809	0.705387	0.681180	0.691337	0.534255	0.583687
10/10/2030	1.053741	0.705653	0.681369	0.691899	0.528554	0.574582
11/10/2030	1.051324	0.703783	0.680127	0.691342	0.520315	0.559839
12/10/2030	1.048726	0.701144	0.678322	0.690168	0.512402	0.544394
13/10/2030	1.046282	0.698673	0.676497	0.688889	0.505972	0.531329
14/10/2030	1.044305	0.696935	0.675106	0.687844	0.503612	0.531785
15/10/2030	1.043118	0.696112	0.674534	0.687248	0.503917	0.542965
16/10/2030	1.041836	0.695462	0.674236	0.686925	0.502017	0.543033
17/10/2030	1.040075	0.694402	0.673599	0.686538	0.499473	0.537992
18/10/2030	1.037978	0.692801	0.672500	0.685885	0.495709	0.528837
19/10/2030	1.035908	0.691173	0.671287	0.685051	0.494101	0.528173

20/10/2030	1.042941	0.692987	0.674080	0.686236	0.501958	0.538070
21/10/2030	1.059089	0.699428	0.680652	0.690006	0.522000	0.554517
22/10/2030	1.072196	0.707243	0.686964	0.694438	0.537722	0.573368
23/10/2030	1.076854	0.712316	0.690263	0.697394	0.542562	0.589876
24/10/2030	1.076718	0.714128	0.691336	0.698542	0.545714	0.599574
25/10/2030	1.074554	0.713789	0.691047	0.698412	0.541826	0.594137
26/10/2030	1.073376	0.713447	0.690812	0.698033	0.542795	0.597647
27/10/2030	1.072177	0.713418	0.690628	0.697736	0.541344	0.598705
28/10/2030	1.070233	0.712883	0.689984	0.697355	0.535217	0.589186
29/10/2030	1.067720	0.711424	0.688703	0.696667	0.527799	0.575160
30/10/2030	1.065035	0.709559	0.687113	0.695676	0.522548	0.568888
31/10/2030	1.062384	0.707591	0.685491	0.694569	0.516176	0.557395
01/11/2030	1.059794	0.705738	0.683918	0.693487	0.511561	0.551226
03/11/2030	1.054731	0.702048	0.681007	0.691491	0.503313	0.542730
04/11/2030	1.052251	0.700115	0.679642	0.690562	0.499529	0.539007
05/11/2030	1.049812	0.698259	0.678355	0.689661	0.497218	0.540226
06/11/2030	1.047462	0.696608	0.677214	0.688813	0.495317	0.543953
07/11/2030	1.047276	0.697356	0.678591	0.689260	0.503273	0.554792
08/11/2030	1.066543	0.702877	0.684529	0.692479	0.522996	0.570346
09/11/2030	1.086642	0.710413	0.691011	0.696846	0.535919	0.591306
10/11/2030	1.095229	0.715428	0.694459	0.699954	0.535936	0.598127
11/11/2030	1.094361	0.716357	0.694637	0.700801	0.531377	0.599510
12/11/2030	1.091105	0.715231	0.693697	0.700234	0.528953	0.599696
13/11/2030	1.090764	0.714597	0.693363	0.699591	0.531237	0.599847
14/11/2030	1.090638	0.714612	0.693287	0.699260	0.529827	0.596164
15/11/2030	1.088905	0.714324	0.692759	0.698941	0.525519	0.591099
16/11/2030	1.085935	0.713199	0.691644	0.698326	0.519654	0.584369
17/11/2030	1.083322	0.711958	0.690643	0.697590	0.517426	0.589201
18/11/2030	1.081379	0.711223	0.690179	0.697035	0.517352	0.599233
19/11/2030	1.079251	0.710612	0.689804	0.696630	0.515035	0.598320
20/11/2030	1.076653	0.709598	0.689046	0.696139	0.511443	0.591779
21/11/2030	1.075164	0.708881	0.688620	0.695749	0.512139	0.595546
22/11/2030	1.074075	0.708710	0.688597	0.695541	0.513936	0.599533
23/11/2030	1.072727	0.708735	0.688659	0.695446	0.515220	0.599916
24/11/2030	1.070699	0.708247	0.688339	0.695231	0.513120	0.595184
25/11/2030	1.073704	0.708506	0.688811	0.695278	0.520146	0.599136
26/11/2030	1.076785	0.709388	0.689439	0.695477	0.523529	0.599354
27/11/2030	1.078221	0.710542	0.690112	0.695816	0.527572	0.599782
28/11/2030	1.092182	0.713587	0.693886	0.699532	0.540645	0.600056
29/11/2030	1.122835	0.720760	0.703507	0.709301	0.559468	0.600386
30/11/2030	1.146859	0.729707	0.714459	0.720392	0.568443	0.600821
01/12/2030	1.156720	0.736745	0.722062	0.727726	0.571289	0.601228
02/12/2030	1.155918	0.739611	0.724615	0.729737	0.566827	0.600869
03/12/2030	1.152431	0.739702	0.724561	0.729165	0.564739	0.601169
04/12/2030	1.152905	0.739694	0.724680	0.728432	0.566893	0.601305
05/12/2030	1.154246	0.740616	0.725487	0.728525	0.568942	0.601422
06/12/2030	1.153041	0.741387	0.725862	0.728694	0.564896	0.600137
07/12/2030	1.149404	0.740962	0.725086	0.728102	0.557484	0.598892

08/12/2030	1.144783	0.739378	0.723344	0.726638	0.549519	0.598067
09/12/2030	1.140156	0.737277	0.721173	0.724710	0.542009	0.595951
10/12/2030	1.135793	0.735246	0.718987	0.722754	0.536488	0.596374
11/12/2030	1.131658	0.733425	0.716938	0.720972	0.531693	0.596791
12/12/2030	1.127677	0.731681	0.714990	0.719354	0.527019	0.594920
13/12/2030	1.123812	0.729956	0.713093	0.717820	0.523131	0.593809
14/12/2030	1.120041	0.728178	0.711217	0.716320	0.518832	0.590050
15/12/2030	1.116451	0.726518	0.709443	0.714870	0.516458	0.591807
16/12/2030	1.112951	0.724884	0.707750	0.713488	0.512998	0.589714
17/12/2030	1.109581	0.723358	0.706148	0.712179	0.511328	0.592471
18/12/2030	1.106259	0.721797	0.704582	0.710921	0.508320	0.590510
19/12/2030	1.103553	0.720546	0.703348	0.709829	0.508215	0.598641
20/12/2030	1.100902	0.719446	0.702288	0.708870	0.506589	0.598914
21/12/2030	1.099531	0.719974	0.702735	0.708720	0.517112	0.599902
22/12/2030	1.098377	0.721623	0.703700	0.709082	0.524944	0.600245
23/12/2030	1.098926	0.723651	0.704978	0.709936	0.532778	0.600382
24/12/2030	1.099194	0.724990	0.705894	0.710703	0.535526	0.600490
25/12/2030	1.097871	0.724990	0.705860	0.710835	0.532678	0.599726
26/12/2030	1.095755	0.724049	0.705154	0.710334	0.529982	0.600210
27/12/2030	1.093210	0.722666	0.704080	0.709437	0.526549	0.600121
28/12/2030	1.090447	0.721051	0.702777	0.708380	0.521988	0.597051
29/12/2030	1.087643	0.719396	0.701369	0.707290	0.518765	0.597880
30/12/2030	1.084873	0.717709	0.699943	0.706210	0.514982	0.596371
31/12/2030	1.082469	0.716233	0.698710	0.705225	0.513485	0.599551
01/01/2031	1.079819	0.714677	0.697438	0.704214	0.510498	0.598119
02/01/2031	1.077603	0.713376	0.696351	0.703417	0.507992	0.595175
03/01/2031	1.075001	0.711700	0.694969	0.702427	0.504548	0.589496
04/01/2031	1.072419	0.709962	0.693531	0.701391	0.501497	0.584280
05/01/2031	1.069880	0.708279	0.692113	0.700352	0.498831	0.580602
06/01/2031	1.067419	0.706765	0.690801	0.699359	0.497334	0.581079
07/01/2031	1.065003	0.705227	0.689563	0.698423	0.495045	0.579086
08/01/2031	1.062606	0.703476	0.688303	0.697507	0.492558	0.575020
09/01/2031	1.060224	0.701568	0.686996	0.696572	0.490178	0.570967
10/01/2031	1.060492	0.701221	0.687109	0.696305	0.496355	0.577403
11/01/2031	1.061476	0.702400	0.688110	0.696663	0.502485	0.591735
12/01/2031	1.061123	0.703406	0.688691	0.697047	0.503633	0.596525
13/01/2031	1.059371	0.703044	0.688286	0.696941	0.501896	0.594424
14/01/2031	1.071424	0.704294	0.691183	0.700785	0.510086	0.598999
15/01/2031	1.085230	0.707849	0.696597	0.706921	0.518489	0.599909
16/01/2031	1.091299	0.711430	0.700997	0.711667	0.519843	0.596246
17/01/2031	1.095406	0.714295	0.703966	0.714275	0.526907	0.599755
18/01/2031	1.098047	0.716510	0.705793	0.715158	0.533509	0.600507
19/01/2031	1.097868	0.717694	0.706345	0.714926	0.532636	0.596292
20/01/2031	1.095392	0.717596	0.705690	0.714006	0.528874	0.595876
21/01/2031	1.092006	0.716390	0.704261	0.712673	0.522892	0.593241
22/01/2031	1.091520	0.715803	0.703549	0.711591	0.525510	0.599488
23/01/2031	1.096112	0.717406	0.704735	0.711830	0.537637	0.600451
24/01/2031	1.099579	0.719898	0.706255	0.712736	0.542581	0.599456

25/01/2031	1.112430	0.723816	0.710250	0.717010	0.553923	0.600391
26/01/2031	1.140623	0.730925	0.719465	0.727491	0.570723	0.600850
27/01/2031	1.168795	0.740716	0.731448	0.740348	0.588689	0.601319
28/01/2031	1.182111	0.749065	0.740277	0.749368	0.591687	0.600768
29/01/2031	1.181921	0.752698	0.743228	0.752029	0.583542	0.599118
30/01/2031	1.176783	0.752404	0.742257	0.750158	0.576656	0.601188
31/01/2031	1.171619	0.750771	0.740198	0.746871	0.571805	0.601681
01/02/2031	1.166881	0.749025	0.738066	0.743952	0.563299	0.594043
02/02/2031	1.162189	0.747228	0.735780	0.741600	0.554078	0.585643
03/02/2031	1.162569	0.747432	0.735369	0.740276	0.559832	0.592523
04/02/2031	1.165523	0.750067	0.736661	0.740060	0.571194	0.600997
05/02/2031	1.165946	0.752724	0.737441	0.740061	0.572585	0.599945
06/02/2031	1.163035	0.753211	0.736532	0.739378	0.565895	0.594417
07/02/2031	1.158720	0.751738	0.734488	0.737865	0.559035	0.598039
08/02/2031	1.154666	0.749757	0.732392	0.736018	0.554658	0.601021
09/02/2031	1.150748	0.747801	0.730408	0.734211	0.547970	0.595500
10/02/2031	1.146713	0.745821	0.728308	0.732470	0.541294	0.589598
11/02/2031	1.143615	0.744326	0.726639	0.730962	0.539367	0.597143
12/02/2031	1.140589	0.742994	0.725179	0.729624	0.534770	0.596553
13/02/2031	1.137117	0.741431	0.723492	0.728258	0.529998	0.592885
14/02/2031	1.133303	0.739362	0.721435	0.726722	0.523581	0.582664
15/02/2031	1.129412	0.736945	0.719121	0.725012	0.517517	0.571172
16/02/2031	1.125588	0.734452	0.716733	0.723224	0.511813	0.560064
17/02/2031	1.121856	0.732049	0.714384	0.721456	0.506750	0.550647
18/02/2031	1.118203	0.729798	0.712129	0.719754	0.502564	0.544379
19/02/2031	1.117285	0.729306	0.711465	0.718836	0.507097	0.552842
20/02/2031	1.118025	0.730795	0.712262	0.718849	0.515640	0.570054
21/02/2031	1.117484	0.732450	0.712939	0.719103	0.520873	0.584410
22/02/2031	1.115096	0.732450	0.712468	0.718869	0.519023	0.584135
23/02/2031	1.111741	0.730733	0.710917	0.717900	0.514614	0.578559
24/02/2031	1.112047	0.730333	0.710909	0.717523	0.520429	0.583763
25/02/2031	1.114654	0.732387	0.712629	0.718203	0.533075	0.599416
26/02/2031	1.115442	0.734673	0.714001	0.719090	0.536330	0.598310
27/02/2031	1.113609	0.735019	0.713772	0.719217	0.532367	0.589776
28/02/2031	1.110387	0.733277	0.712189	0.718327	0.525124	0.579747
01/03/2031	1.106891	0.730464	0.709981	0.716797	0.516459	0.565344
02/03/2031	1.103519	0.727595	0.707654	0.715094	0.509446	0.552865
03/03/2031	1.100276	0.724942	0.705378	0.713462	0.502586	0.538815
04/03/2031	1.097089	0.722426	0.703128	0.711920	0.496467	0.525189
05/03/2031	1.093916	0.719942	0.700869	0.710406	0.490672	0.512406
06/03/2031	1.090742	0.717462	0.698592	0.708881	0.485121	0.500675
07/03/2031	1.087566	0.715002	0.696307	0.707343	0.479784	0.490038
08/03/2031	1.084393	0.712595	0.694037	0.705810	0.474828	0.481068
09/03/2031	1.081232	0.710245	0.691801	0.704296	0.470058	0.473141
10/03/2031	1.078099	0.708074	0.689669	0.702822	0.466807	0.470726
11/03/2031	1.075019	0.706196	0.687751	0.701431	0.464920	0.474368
12/03/2031	1.072013	0.704409	0.686046	0.700154	0.462689	0.477426
13/03/2031	1.069072	0.702375	0.684381	0.698948	0.459210	0.474672

14/03/2031	1.068855	0.701845	0.684177	0.698448	0.465296	0.485527
15/03/2031	1.069182	0.702757	0.684847	0.698544	0.470051	0.499209
16/03/2031	1.069575	0.704274	0.685906	0.699004	0.475112	0.517826
17/03/2031	1.068760	0.705025	0.686477	0.699306	0.476843	0.529871
18/03/2031	1.071515	0.706941	0.688855	0.700474	0.484570	0.544069
19/03/2031	1.074630	0.709871	0.691750	0.702148	0.491492	0.557697
20/03/2031	1.077635	0.713348	0.694605	0.703958	0.501947	0.574890
21/03/2031	1.078479	0.715521	0.696106	0.705125	0.504656	0.573980
22/03/2031	1.077072	0.715457	0.695757	0.705185	0.501877	0.561924
23/03/2031	1.074482	0.713567	0.694098	0.704263	0.495986	0.545130
24/03/2031	1.071597	0.710890	0.691907	0.702821	0.489496	0.528296
25/03/2031	1.068768	0.708220	0.689674	0.701281	0.483689	0.514133
26/03/2031	1.066021	0.705703	0.687544	0.699831	0.478324	0.501570
27/03/2031	1.063308	0.703207	0.685491	0.698474	0.473591	0.491112
28/03/2031	1.060594	0.700672	0.683471	0.697154	0.469063	0.481850
29/03/2031	1.057868	0.698143	0.681452	0.695831	0.464480	0.472761
30/03/2031	1.055131	0.695685	0.679419	0.694495	0.459968	0.464150
31/03/2031	1.052387	0.693326	0.677392	0.693156	0.455684	0.456736
01/04/2031	1.049635	0.690947	0.675306	0.691807	0.450948	0.443428
02/04/2031	1.046863	0.688358	0.673072	0.690410	0.446083	0.428207
03/04/2031	1.044056	0.685580	0.670693	0.688942	0.441200	0.412865
04/04/2031	1.041211	0.682822	0.668248	0.687419	0.436551	0.399219
05/04/2031	1.038334	0.680181	0.665792	0.685882	0.431783	0.386512
06/04/2031	1.035431	0.677647	0.663345	0.684353	0.427134	0.375075
07/04/2031	1.032507	0.675173	0.660910	0.682834	0.422539	0.364695
08/04/2031	1.029572	0.672756	0.658502	0.681325	0.418217	0.355918
09/04/2031	1.026638	0.670498	0.656183	0.679841	0.415017	0.351625
10/04/2031	1.023717	0.668275	0.653940	0.678398	0.410713	0.344795
11/04/2031	1.020808	0.666037	0.651709	0.676978	0.406816	0.338418
12/04/2031	1.017910	0.663810	0.649489	0.675561	0.402999	0.332840
13/04/2031	1.015023	0.661603	0.647287	0.674145	0.399014	0.327045
14/04/2031	1.012151	0.659423	0.645109	0.672739	0.395129	0.321600
15/04/2031	1.009292	0.657247	0.642947	0.671345	0.391085	0.315846
16/04/2031	1.006445	0.655077	0.640797	0.669957	0.387095	0.310287
17/04/2031	1.003615	0.652985	0.638693	0.668583	0.383751	0.307060
18/04/2031	1.000815	0.651048	0.636699	0.667246	0.381093	0.306717
19/04/2031	0.998050	0.649142	0.634788	0.665959	0.377604	0.304006
20/04/2031	0.995316	0.647176	0.632879	0.664698	0.374068	0.300116
21/04/2031	0.992602	0.645154	0.630945	0.663427	0.370411	0.295712
22/04/2031	0.989905	0.643125	0.629003	0.662142	0.366720	0.291230
23/04/2031	0.987225	0.641123	0.627077	0.660858	0.363089	0.287033
24/04/2031	0.984562	0.639159	0.625178	0.659589	0.359543	0.283225
25/04/2031	0.981934	0.637467	0.623422	0.658365	0.358474	0.287640
26/04/2031	0.980724	0.636933	0.622707	0.657581	0.362527	0.307855
27/04/2031	0.982617	0.638956	0.624325	0.658013	0.374206	0.335444
28/04/2031	0.985044	0.642676	0.627074	0.659356	0.385096	0.365148
29/04/2031	0.986763	0.646354	0.629799	0.660928	0.394151	0.393313
30/04/2031	0.989743	0.650168	0.633194	0.662806	0.406491	0.418655

01/05/2031	0.991616	0.653063	0.635863	0.664429	0.410413	0.419833
02/05/2031	0.991358	0.654236	0.636833	0.665197	0.411988	0.419172
03/05/2031	0.992777	0.655516	0.638210	0.665865	0.419471	0.428882
04/05/2031	0.994075	0.656900	0.639580	0.666539	0.421399	0.423391
05/05/2031	0.993843	0.657681	0.640052	0.666881	0.423115	0.423045
06/05/2031	0.992348	0.657066	0.639529	0.666655	0.420605	0.416120
07/05/2031	0.990356	0.655207	0.638300	0.665914	0.416447	0.403087
08/05/2031	0.988299	0.652816	0.636695	0.664870	0.411886	0.388074
09/05/2031	0.986249	0.650429	0.634943	0.663715	0.407234	0.373158
10/05/2031	0.984202	0.648637	0.633361	0.662602	0.407001	0.374504
11/05/2031	0.982175	0.647274	0.632087	0.661642	0.405709	0.375059
12/05/2031	0.980172	0.645914	0.630920	0.660813	0.403744	0.372398
13/05/2031	0.983189	0.647172	0.632652	0.661470	0.412037	0.386623
14/05/2031	0.986808	0.650092	0.635396	0.663087	0.415083	0.387376
15/05/2031	0.987831	0.652040	0.636697	0.664334	0.413752	0.379121
16/05/2031	0.986521	0.651587	0.636030	0.664413	0.409760	0.366761
17/05/2031	0.984284	0.649767	0.634369	0.663489	0.408753	0.366847
18/05/2031	0.981972	0.647510	0.632557	0.662203	0.404063	0.358080
19/05/2031	0.979760	0.645290	0.630764	0.660957	0.400161	0.348406
20/05/2031	0.978716	0.644179	0.629780	0.660121	0.403103	0.360991
21/05/2031	0.980543	0.645621	0.631005	0.660407	0.413386	0.382758
22/05/2031	0.982099	0.648014	0.632766	0.661341	0.417358	0.386304
23/05/2031	0.984620	0.651156	0.635076	0.662748	0.428247	0.402370
24/05/2031	0.986031	0.653643	0.636826	0.663947	0.432038	0.404881
25/05/2031	0.988631	0.656428	0.639050	0.665257	0.441825	0.418788
26/05/2031	0.992174	0.660009	0.641943	0.666868	0.452369	0.437834
27/05/2031	0.993864	0.662910	0.644102	0.668257	0.456775	0.444897
28/05/2031	0.993284	0.663872	0.644777	0.668886	0.458030	0.448921
29/05/2031	0.991526	0.662994	0.644317	0.668685	0.457154	0.449333
30/05/2031	0.991310	0.662288	0.644328	0.668414	0.460978	0.459714
31/05/2031	0.991265	0.661890	0.644562	0.668323	0.459841	0.451683
01/06/2031	0.990344	0.660900	0.644106	0.668122	0.455267	0.430444
02/06/2031	0.988621	0.658985	0.642749	0.667489	0.450181	0.409260
03/06/2031	0.986534	0.656444	0.640834	0.666426	0.443776	0.386964
04/06/2031	0.984365	0.653982	0.638800	0.665167	0.439882	0.374199
05/06/2031	0.983431	0.652820	0.637717	0.664269	0.442535	0.385061
06/06/2031	0.982585	0.652158	0.637146	0.663777	0.439888	0.377749
07/06/2031	0.981100	0.650976	0.636147	0.663296	0.435683	0.363627
08/06/2031	0.979045	0.648929	0.634455	0.662474	0.429745	0.346083
09/06/2031	0.976775	0.646949	0.632598	0.661350	0.429080	0.348374
10/06/2031	0.974541	0.645428	0.631048	0.660232	0.428058	0.351394
11/06/2031	0.972408	0.644144	0.629745	0.659291	0.426698	0.353431
12/06/2031	0.970324	0.642456	0.628339	0.658430	0.421616	0.342647
13/06/2031	0.968227	0.640441	0.626688	0.657476	0.417802	0.333326
14/06/2031	0.966098	0.638359	0.624922	0.656397	0.413350	0.324084
15/06/2031	0.963949	0.636474	0.623200	0.655285	0.410216	0.319510
16/06/2031	0.961784	0.634504	0.621461	0.654196	0.404359	0.307464
17/06/2031	0.962172	0.634359	0.621220	0.653801	0.411510	0.321688

18/06/2031	0.963225	0.636048	0.622170	0.654107	0.418645	0.343046
19/06/2031	0.963060	0.637309	0.622814	0.654546	0.417460	0.340358
20/06/2031	0.961591	0.636720	0.622237	0.654479	0.413269	0.328902
21/06/2031	0.959500	0.634751	0.620716	0.653722	0.408783	0.319028
22/06/2031	0.957287	0.632244	0.618806	0.652542	0.401928	0.303561
24/06/2031	0.952286	0.626783	0.614203	0.649663	0.388165	0.273146
25/06/2031	0.950572	0.625050	0.612606	0.648694	0.383563	0.264012
26/06/2031	0.948294	0.622863	0.610539	0.647456	0.378027	0.254197
27/06/2031	0.945996	0.620824	0.608558	0.646250	0.373535	0.248575
28/06/2031	0.943687	0.618842	0.606652	0.645074	0.368560	0.242451
29/06/2031	0.941372	0.616806	0.604743	0.643907	0.363308	0.235097
30/06/2031	0.939058	0.614938	0.602898	0.642746	0.360407	0.235020
01/07/2031	0.936788	0.613564	0.601352	0.641666	0.360218	0.245273
02/07/2031	0.938335	0.614699	0.602324	0.641800	0.368494	0.268829
03/07/2031	0.940392	0.617453	0.604348	0.642832	0.374445	0.284813
04/07/2031	0.940655	0.619765	0.605626	0.643777	0.378403	0.301874
05/07/2031	0.941185	0.621384	0.606734	0.644462	0.385047	0.323951
06/07/2031	0.941213	0.621861	0.607366	0.644786	0.384490	0.321830
07/07/2031	0.940245	0.621075	0.607006	0.644618	0.380911	0.310018
08/07/2031	0.941307	0.621377	0.607518	0.644708	0.388205	0.321093
09/07/2031	0.942385	0.622641	0.608500	0.645106	0.390575	0.321861
10/07/2031	0.942074	0.623245	0.608747	0.645368	0.388103	0.312586
11/07/2031	0.940592	0.622477	0.607976	0.645099	0.385768	0.307231
12/07/2031	0.938645	0.620580	0.606571	0.644301	0.380421	0.296001
13/07/2031	0.936639	0.618257	0.604886	0.643223	0.374996	0.283152
14/07/2031	0.934648	0.615919	0.603086	0.642070	0.369181	0.269366
16/07/2031	0.929972	0.610837	0.598815	0.639433	0.356311	0.241434
17/07/2031	0.928453	0.609299	0.597447	0.638607	0.352344	0.233720
19/07/2031	0.924129	0.605079	0.593642	0.636301	0.341678	0.215382
20/07/2031	0.921942	0.603357	0.591908	0.635180	0.340126	0.218849
21/07/2031	0.919785	0.601919	0.590427	0.634158	0.337661	0.222245
22/07/2031	0.917666	0.600371	0.589016	0.633228	0.333366	0.218513
23/07/2031	0.915575	0.598763	0.587565	0.632303	0.331038	0.218868
24/07/2031	0.913498	0.596991	0.586051	0.631337	0.326164	0.212840
26/07/2031	0.908841	0.592766	0.582400	0.629027	0.316029	0.198373
27/07/2031	0.907240	0.591283	0.581088	0.628199	0.312397	0.193185
28/07/2031	0.913050	0.593528	0.584165	0.629536	0.320722	0.212894
29/07/2031	0.920290	0.598947	0.589361	0.632695	0.325488	0.225624
30/07/2031	0.932155	0.607694	0.597742	0.638088	0.337609	0.252581
31/07/2031	0.941444	0.616103	0.605072	0.643463	0.344019	0.268240
01/08/2031	0.944742	0.621026	0.608499	0.646639	0.347796	0.284265
02/08/2031	0.943890	0.621862	0.608569	0.647230	0.348726	0.295157
03/08/2031	0.947096	0.623085	0.610267	0.647822	0.357296	0.315429
04/08/2031	0.953828	0.627533	0.614568	0.649839	0.371974	0.340820
05/08/2031	0.962001	0.635004	0.620616	0.653349	0.389321	0.368016
06/08/2031	0.966738	0.641163	0.625019	0.656570	0.394462	0.368091
07/08/2031	0.967302	0.643205	0.626189	0.658027	0.393342	0.357780
08/08/2031	0.969932	0.644288	0.627601	0.658893	0.400556	0.366591

09/08/2031	0.974960	0.647402	0.630665	0.660329	0.412699	0.384961
10/08/2031	0.978026	0.650862	0.633248	0.661914	0.416473	0.383743
11/08/2031	0.977941	0.652007	0.633738	0.662662	0.414925	0.372908
12/08/2031	0.975985	0.650306	0.632356	0.662169	0.409845	0.356305
14/08/2031	0.970906	0.644060	0.627729	0.659305	0.398210	0.323532
15/08/2031	0.968273	0.640850	0.625213	0.657546	0.393438	0.312105
16/08/2031	0.965715	0.638200	0.622941	0.655987	0.389335	0.304062
17/08/2031	0.963203	0.635841	0.620859	0.654648	0.384627	0.294567
18/08/2031	0.963157	0.635365	0.620354	0.654059	0.391747	0.310020
19/08/2031	0.963335	0.636051	0.620635	0.654031	0.394125	0.314692
20/08/2031	0.962305	0.636449	0.620496	0.653993	0.395404	0.319834
21/08/2031	0.960243	0.635401	0.619505	0.653523	0.391499	0.313420
22/08/2031	0.957784	0.633160	0.617832	0.652557	0.386929	0.303554
23/08/2031	0.955299	0.630588	0.615893	0.651302	0.382564	0.295036
24/08/2031	0.952868	0.628159	0.613953	0.649996	0.377899	0.286318
25/08/2031	0.950464	0.625929	0.612070	0.648753	0.373583	0.278652
26/08/2031	0.948069	0.623836	0.610248	0.647574	0.369825	0.273265
28/08/2031	0.943300	0.619823	0.606750	0.645303	0.362518	0.264658
29/08/2031	0.940925	0.617787	0.605021	0.644186	0.358175	0.258483
30/08/2031	0.938556	0.615759	0.603282	0.643061	0.354553	0.254174
31/08/2031	0.936193	0.613714	0.601535	0.641928	0.350178	0.248250
01/09/2031	0.933842	0.611761	0.599827	0.640804	0.346793	0.246122
02/09/2031	0.931515	0.609946	0.598223	0.639719	0.343613	0.245817
03/09/2031	0.929223	0.608239	0.596728	0.638690	0.340624	0.246271
04/09/2031	0.927784	0.607376	0.595943	0.637949	0.343521	0.266367
05/09/2031	0.926476	0.606878	0.595626	0.637497	0.342680	0.274156
06/09/2031	0.928067	0.608285	0.597096	0.638004	0.352406	0.296355
07/09/2031	0.930044	0.611118	0.599370	0.639147	0.360466	0.319256
08/09/2031	0.932822	0.614893	0.602334	0.640787	0.371679	0.344252
09/09/2031	0.940286	0.620939	0.608169	0.644026	0.386393	0.370137
10/09/2031	0.946655	0.626963	0.613752	0.647688	0.391266	0.373206
11/09/2031	0.948818	0.630153	0.616414	0.650068	0.390344	0.365826
12/09/2031	0.947872	0.629845	0.616241	0.650528	0.386385	0.354638
13/09/2031	0.945831	0.627510	0.614638	0.649615	0.381583	0.342685
14/09/2031	0.943741	0.624837	0.612753	0.648242	0.377219	0.332321
15/09/2031	0.941784	0.622546	0.611029	0.646969	0.373319	0.323618
16/09/2031	0.939880	0.620622	0.609488	0.645906	0.369936	0.316844
17/09/2031	0.937969	0.618822	0.608028	0.644956	0.366466	0.310306
18/09/2031	0.936030	0.617014	0.606570	0.644018	0.363080	0.304218
19/09/2031	0.934061	0.615184	0.605091	0.643053	0.359691	0.298524
20/09/2031	0.932067	0.613364	0.603602	0.642070	0.356323	0.293239
21/09/2031	0.930060	0.611662	0.602159	0.641098	0.353888	0.291311
22/09/2031	0.928069	0.610200	0.600863	0.640181	0.352621	0.294155
23/09/2031	0.926111	0.608826	0.599696	0.639342	0.350442	0.294779
24/09/2031	0.924182	0.607342	0.598525	0.638541	0.347603	0.291922
25/09/2031	0.923324	0.606657	0.598031	0.638009	0.351146	0.308384
26/09/2031	0.922566	0.606359	0.597942	0.637735	0.350326	0.311372
27/09/2031	0.921316	0.605799	0.597604	0.637473	0.349042	0.310485

28/09/2031	0.919647	0.604660	0.596810	0.636999	0.346463	0.306548
29/09/2031	0.917825	0.603107	0.595705	0.636285	0.343325	0.300848
30/09/2031	0.916004	0.601477	0.594497	0.635449	0.340472	0.296133
01/10/2031	0.914227	0.600071	0.593378	0.634622	0.338839	0.297843
02/10/2031	0.912514	0.599108	0.592544	0.633913	0.339395	0.308649
03/10/2031	0.910882	0.598314	0.591960	0.633357	0.338557	0.315637
04/10/2031	0.909321	0.597452	0.591433	0.632889	0.337763	0.320734
05/10/2031	0.908936	0.597239	0.591569	0.632708	0.341363	0.337974
06/10/2031	0.908664	0.597413	0.592072	0.632764	0.342268	0.346576
07/10/2031	0.907872	0.597360	0.592344	0.632818	0.342140	0.350369
08/10/2031	0.907772	0.597516	0.592878	0.632958	0.345702	0.365025
09/10/2031	0.907604	0.597713	0.593512	0.633142	0.346405	0.370909
10/10/2031	0.906906	0.597577	0.593817	0.633220	0.346114	0.372335
11/10/2031	0.908643	0.598745	0.595325	0.633840	0.354651	0.385189
12/10/2031	0.912400	0.601988	0.598292	0.635292	0.365537	0.403991
13/10/2031	0.920379	0.608322	0.604258	0.638576	0.380189	0.425464
14/10/2031	0.929152	0.616318	0.611316	0.642976	0.394738	0.446755
15/10/2031	0.947227	0.628359	0.623988	0.650752	0.410327	0.466552
16/10/2031	0.963129	0.640779	0.636171	0.659289	0.418773	0.478024
17/10/2031	0.970194	0.648453	0.642654	0.665056	0.419638	0.476243
18/10/2031	0.971316	0.650490	0.644051	0.667059	0.421424	0.483330
19/10/2031	0.970106	0.649067	0.643002	0.666508	0.420308	0.481849
20/10/2031	0.970731	0.648149	0.642677	0.665712	0.426568	0.490731
21/10/2031	0.974596	0.650344	0.644819	0.666338	0.439106	0.504795
22/10/2031	0.979288	0.654850	0.648302	0.668228	0.451295	0.521445
23/10/2031	0.981493	0.658491	0.650828	0.670059	0.456130	0.525910
24/10/2031	0.981082	0.659390	0.651468	0.670850	0.456445	0.522961
25/10/2031	0.979812	0.658338	0.651008	0.670645	0.456889	0.525162
26/10/2031	0.980483	0.657906	0.651372	0.670497	0.462415	0.535064
27/10/2031	0.981227	0.658549	0.652240	0.670711	0.466934	0.543711
28/10/2031	0.980798	0.658902	0.652623	0.670945	0.467025	0.539341
29/10/2031	0.979736	0.658426	0.652425	0.670896	0.468119	0.541035
30/10/2031	0.978756	0.657566	0.652153	0.670627	0.469400	0.546685
31/10/2031	0.977645	0.656468	0.651791	0.670257	0.468053	0.541443
01/11/2031	0.979112	0.656913	0.652758	0.670552	0.475358	0.546923
02/11/2031	0.992438	0.662207	0.658707	0.673678	0.489837	0.558259
03/11/2031	1.005264	0.669697	0.665474	0.678160	0.500570	0.567407
04/11/2031	1.010490	0.674723	0.669171	0.681491	0.502698	0.568242
05/11/2031	1.012718	0.676709	0.670605	0.683060	0.507218	0.574987
06/11/2031	1.042966	0.681137	0.676048	0.686062	0.522382	0.588485
07/11/2031	1.073465	0.687980	0.682464	0.690159	0.529577	0.597062
08/11/2031	1.117580	0.697986	0.692646	0.698982	0.542007	0.599606
09/11/2031	1.155897	0.709387	0.704454	0.710233	0.556971	0.600095
10/11/2031	1.177755	0.719993	0.714409	0.719906	0.571878	0.600556
11/11/2031	1.187599	0.728350	0.721091	0.726265	0.584837	0.600983
12/11/2031	1.210660	0.736779	0.729686	0.735796	0.598939	0.601297
13/11/2031	1.243907	0.747341	0.742470	0.750173	0.613742	0.601646
14/11/2031	1.265283	0.758161	0.754801	0.763126	0.620407	0.602103

15/11/2031	1.268339	0.765301	0.761406	0.769360	0.615302	0.602013
16/11/2031	1.260756	0.767115	0.761730	0.768750	0.604082	0.601549
17/11/2031	1.251662	0.765823	0.759226	0.764957	0.596519	0.602010
18/11/2031	1.243437	0.763840	0.756307	0.760946	0.588204	0.601058
19/11/2031	1.235798	0.762101	0.753531	0.757679	0.579303	0.600322
20/11/2031	1.232770	0.761730	0.751845	0.755266	0.580967	0.601473
21/11/2031	1.230738	0.762371	0.750771	0.753394	0.582446	0.601894
22/11/2031	1.230707	0.763640	0.750451	0.752362	0.586505	0.602035
23/11/2031	1.229568	0.764794	0.750348	0.751760	0.587799	0.602152
24/11/2031	1.225559	0.765073	0.749633	0.750885	0.584431	0.602140
25/11/2031	1.219450	0.764094	0.747930	0.749347	0.576897	0.600970
26/11/2031	1.212675	0.762167	0.745485	0.747224	0.568796	0.600770
27/11/2031	1.208360	0.760610	0.743438	0.745049	0.566925	0.601437
28/11/2031	1.204889	0.759792	0.741922	0.743208	0.565977	0.601676
29/11/2031	1.200491	0.758979	0.740361	0.741612	0.561787	0.600664
30/11/2031	1.198860	0.758644	0.739526	0.740622	0.564635	0.601371
01/12/2031	1.201385	0.759756	0.740156	0.740597	0.574170	0.601715
02/12/2031	1.202251	0.761329	0.740819	0.740832	0.577196	0.601776
03/12/2031	1.199296	0.761682	0.740293	0.740488	0.572367	0.600626
04/12/2031	1.201314	0.762185	0.740680	0.741014	0.578625	0.601347
05/12/2031	1.203328	0.763108	0.741537	0.741977	0.580027	0.601364
06/12/2031	1.202583	0.763997	0.742096	0.742542	0.579709	0.601649
07/12/2031	1.198851	0.763752	0.741566	0.742137	0.573646	0.599792
09/12/2031	1.187024	0.759597	0.737425	0.738708	0.555835	0.594912
11/12/2031	1.177482	0.754843	0.733031	0.735086	0.542222	0.589424
12/12/2031	1.172334	0.752244	0.730563	0.733080	0.537046	0.590938
13/12/2031	1.168312	0.750412	0.728796	0.731515	0.536245	0.600300
14/12/2031	1.166347	0.750181	0.728522	0.730820	0.543539	0.601300
15/12/2031	1.175452	0.752996	0.732076	0.734946	0.560010	0.601435
16/12/2031	1.184890	0.757393	0.737502	0.741321	0.568673	0.601607
17/12/2031	1.187370	0.760467	0.741285	0.745791	0.566477	0.600662
18/12/2031	1.184129	0.760630	0.741837	0.746639	0.558861	0.599935
19/12/2031	1.178806	0.758466	0.739990	0.744744	0.549947	0.597961
20/12/2031	1.173504	0.755562	0.737315	0.741896	0.543240	0.599210
21/12/2031	1.205931	0.758504	0.744304	0.751204	0.551874	0.601134
22/12/2031	1.242410	0.766844	0.757857	0.767568	0.557962	0.601786
23/12/2031	1.258335	0.775259	0.768969	0.780058	0.558747	0.602297
24/12/2031	1.256641	0.779176	0.772860	0.783792	0.555794	0.602583
25/12/2031	1.254450	0.779735	0.772595	0.782187	0.562538	0.602677
26/12/2031	1.260007	0.780999	0.773208	0.780940	0.578468	0.602764
27/12/2031	1.263914	0.783307	0.774444	0.780919	0.583101	0.601487
28/12/2031	1.263020	0.785257	0.774848	0.780801	0.585001	0.602496
29/12/2031	1.294264	0.796019	0.789417	0.790762	0.594464	0.603050
30/12/2031	1.329108	0.812783	0.809203	0.806329	0.600807	0.603608
31/12/2031	1.359915	0.829743	0.826815	0.822450	0.612174	0.604288
01/01/2032	1.410858	0.851938	0.851603	0.844912	0.630989	0.605056
02/01/2032	1.450632	0.868248	0.870993	0.861345	0.642835	0.605517
03/01/2032	1.482923	0.887402	0.890941	0.879238	0.646989	0.606224

04/01/2032	1.484357	0.895501	0.896152	0.885098	0.641443	0.606662
05/01/2032	1.470829	0.893269	0.890538	0.880678	0.632338	0.606592
06/01/2032	1.454918	0.886247	0.880970	0.871659	0.622456	0.605855
07/01/2032	1.441008	0.879119	0.871770	0.862722	0.612246	0.604253
08/01/2032	1.429248	0.873657	0.864153	0.855574	0.605188	0.604994
09/01/2032	1.418969	0.869589	0.857879	0.849936	0.600447	0.605199
10/01/2032	1.411356	0.866472	0.852723	0.845230	0.599468	0.605197
11/01/2032	1.403838	0.863411	0.847831	0.840819	0.594810	0.603360
12/01/2032	1.395144	0.859896	0.842632	0.836308	0.588534	0.603338
13/01/2032	1.385700	0.855864	0.837132	0.831638	0.580616	0.602519
14/01/2032	1.376229	0.851640	0.831594	0.826947	0.573332	0.602427
15/01/2032	1.367098	0.847516	0.826250	0.822402	0.566777	0.602288
16/01/2032	1.358364	0.843559	0.821171	0.818085	0.560572	0.601761
17/01/2032	1.349971	0.839778	0.816353	0.813990	0.555646	0.602189
18/01/2032	1.346350	0.838285	0.813927	0.810998	0.565439	0.603345
19/01/2032	1.348678	0.841117	0.815732	0.809886	0.581701	0.603790
20/01/2032	1.352134	0.845978	0.818328	0.809814	0.595811	0.604080
21/01/2032	1.364644	0.853427	0.824676	0.813079	0.611239	0.604300
22/01/2032	1.374086	0.859901	0.830168	0.817305	0.613195	0.603363
23/01/2032	1.373979	0.862038	0.831010	0.819176	0.606026	0.603029
24/01/2032	1.367312	0.859635	0.827648	0.817695	0.597317	0.603864
25/01/2032	1.359444	0.855269	0.822876	0.814211	0.592340	0.604069
26/01/2032	1.352650	0.851345	0.818701	0.810541	0.590837	0.604138
27/01/2032	1.346645	0.848415	0.815395	0.807508	0.589551	0.604129
28/01/2032	1.346011	0.846597	0.813506	0.807513	0.597524	0.604117
29/01/2032	1.359063	0.848470	0.817071	0.812868	0.612601	0.604182
30/01/2032	1.374489	0.853562	0.823918	0.820274	0.627101	0.604381
31/01/2032	1.386834	0.860827	0.831977	0.826581	0.641164	0.604654
01/02/2032	1.392539	0.867049	0.837379	0.829846	0.650448	0.604886
02/02/2032	1.390183	0.869280	0.837936	0.829568	0.647597	0.604741
03/02/2032	1.382731	0.867107	0.834592	0.826659	0.635419	0.602500
04/02/2032	1.373689	0.862395	0.829479	0.822511	0.621365	0.601848
05/02/2032	1.364884	0.857185	0.824180	0.818197	0.608092	0.601402
06/02/2032	1.356710	0.852569	0.819335	0.814205	0.598378	0.602512
07/02/2032	1.349014	0.848493	0.814925	0.810580	0.589054	0.601335
08/02/2032	1.341693	0.844837	0.810840	0.807209	0.583362	0.602911
09/02/2032	1.336320	0.842243	0.807836	0.804407	0.584764	0.603453
10/02/2032	1.331504	0.840483	0.805508	0.802107	0.585949	0.603570
11/02/2032	1.328012	0.839642	0.804506	0.801640	0.591188	0.603695
12/02/2032	1.324096	0.838746	0.803889	0.801885	0.589005	0.601587
14/02/2032	1.312449	0.833842	0.799857	0.799597	0.574387	0.599799
18/02/2032	1.288271	0.819707	0.786557	0.788510	0.543720	0.593426
19/02/2032	1.282724	0.816076	0.782955	0.785315	0.537517	0.591181
20/02/2032	1.276813	0.812393	0.779220	0.782079	0.532100	0.589178
21/02/2032	1.271162	0.809117	0.775854	0.779278	0.527918	0.588109
23/02/2032	1.260373	0.803077	0.769736	0.774306	0.521083	0.586477
24/02/2032	1.255191	0.800149	0.766868	0.771984	0.517811	0.584193
25/02/2032	1.250121	0.797210	0.764048	0.769688	0.514641	0.581204

26/02/2032	1.245147	0.794298	0.761273	0.767411	0.511650	0.578451
27/02/2032	1.240266	0.791438	0.758556	0.765178	0.508607	0.575230
28/02/2032	1.236237	0.789166	0.756379	0.763202	0.509214	0.588017
29/02/2032	1.232927	0.787674	0.754928	0.761632	0.511460	0.601147
01/03/2032	1.229321	0.786151	0.753535	0.760254	0.509937	0.598584
02/03/2032	1.225155	0.784089	0.751665	0.758735	0.507811	0.592553
03/03/2032	1.220698	0.781451	0.749331	0.756932	0.503959	0.582534
04/03/2032	1.220912	0.781161	0.749456	0.756298	0.511541	0.588532
05/03/2032	1.221714	0.782477	0.750512	0.756545	0.515016	0.586124
06/03/2032	1.221156	0.783804	0.751018	0.756793	0.520388	0.599243
07/03/2032	1.218548	0.783472	0.750262	0.756316	0.518781	0.598720
08/03/2032	1.214624	0.781340	0.748323	0.754970	0.513996	0.588415
09/03/2032	1.210263	0.778257	0.745724	0.753052	0.508231	0.575103
10/03/2032	1.205914	0.775108	0.742985	0.750944	0.503341	0.564911
11/03/2032	1.201694	0.772226	0.740368	0.748901	0.498912	0.556460
12/03/2032	1.197584	0.769493	0.737863	0.746982	0.494335	0.546502
13/03/2032	1.193541	0.766774	0.735376	0.745127	0.489988	0.536348
14/03/2032	1.189538	0.764074	0.732891	0.743278	0.486027	0.527735
15/03/2032	1.185566	0.761411	0.730429	0.741430	0.481975	0.519427
16/03/2032	1.181624	0.758775	0.727986	0.739597	0.477897	0.511118
17/03/2032	1.177716	0.756187	0.725576	0.737791	0.474275	0.504595
18/03/2032	1.173843	0.753615	0.723202	0.736012	0.470347	0.497531
19/03/2032	1.170006	0.751052	0.720849	0.734258	0.466538	0.490676
20/03/2032	1.166209	0.748565	0.718542	0.732527	0.463325	0.486212
21/03/2032	1.162453	0.746135	0.716294	0.730828	0.459826	0.481380
22/03/2032	1.158736	0.743719	0.714078	0.729162	0.456285	0.476067
23/03/2032	1.155054	0.741305	0.711873	0.727513	0.452749	0.470706
24/03/2032	1.151403	0.738908	0.709680	0.725876	0.449218	0.465481
25/03/2032	1.147784	0.736560	0.707519	0.724255	0.445926	0.461250
26/03/2032	1.144198	0.734253	0.705395	0.722658	0.442525	0.456921
27/03/2032	1.140645	0.731972	0.703297	0.721086	0.439213	0.452801
28/03/2032	1.137126	0.729736	0.701231	0.719536	0.436119	0.449535
29/03/2032	1.133643	0.727547	0.699208	0.718010	0.433079	0.446665
30/03/2032	1.130197	0.725383	0.697220	0.716511	0.429938	0.443409
31/03/2032	1.129195	0.724804	0.696643	0.715670	0.435664	0.456054
01/04/2032	1.128415	0.725353	0.696751	0.715354	0.439253	0.462750
02/04/2032	1.126431	0.725377	0.696299	0.714991	0.438347	0.456967
03/04/2032	1.123415	0.723936	0.694814	0.714124	0.434812	0.442753
04/04/2032	1.119997	0.721412	0.692583	0.712703	0.430421	0.426528
05/04/2032	1.116541	0.718585	0.690061	0.710975	0.425615	0.410222
06/04/2032	1.113119	0.715894	0.687507	0.709198	0.421061	0.395642
07/04/2032	1.109716	0.713471	0.685033	0.707490	0.417565	0.385759
08/04/2032	1.106319	0.711230	0.682667	0.705864	0.414258	0.378075
09/04/2032	1.102939	0.709208	0.680452	0.704312	0.412629	0.376663
10/04/2032	1.099582	0.707154	0.678315	0.702815	0.409049	0.370078
11/04/2032	1.096235	0.704952	0.676117	0.701319	0.405440	0.361606
12/04/2032	1.092885	0.702639	0.673827	0.699780	0.401513	0.352377
13/04/2032	1.089527	0.700304	0.671489	0.698201	0.397489	0.343282

14/04/2032	1.086165	0.698002	0.669145	0.696612	0.393530	0.334958
15/04/2032	1.082803	0.695673	0.666820	0.695036	0.389670	0.327521
16/04/2032	1.079446	0.693251	0.664520	0.693478	0.385897	0.320838
17/04/2032	1.076098	0.690783	0.662246	0.691935	0.382193	0.314753
18/04/2032	1.072763	0.688337	0.659999	0.690404	0.378545	0.309157
19/04/2032	1.069450	0.685925	0.657824	0.688895	0.375955	0.307342
20/04/2032	1.066165	0.683457	0.655711	0.687421	0.372422	0.303358
21/04/2032	1.062906	0.680988	0.653602	0.685966	0.369085	0.299113
22/04/2032	1.059667	0.678587	0.651487	0.684512	0.365650	0.294720
23/04/2032	1.056449	0.676313	0.649401	0.683061	0.362613	0.291720
24/04/2032	1.056193	0.676228	0.649168	0.682450	0.371063	0.310322
25/04/2032	1.056271	0.677471	0.649780	0.682516	0.374027	0.315546
26/04/2032	1.056540	0.679369	0.650732	0.682946	0.382001	0.337286
27/04/2032	1.055670	0.680449	0.651237	0.683196	0.384227	0.346846
28/04/2032	1.053538	0.679995	0.650802	0.682909	0.383231	0.347577
29/04/2032	1.050850	0.678707	0.649791	0.682125	0.384621	0.358353
30/04/2032	1.051557	0.679286	0.650687	0.682095	0.393462	0.377024
01/05/2032	1.054049	0.682242	0.653203	0.683111	0.404396	0.401509
02/05/2032	1.054906	0.684847	0.655164	0.684291	0.406444	0.401190
03/05/2032	1.053538	0.685021	0.655305	0.684669	0.403988	0.388562
04/05/2032	1.050967	0.682927	0.653901	0.683976	0.398921	0.370418
05/05/2032	1.048094	0.679926	0.651782	0.682588	0.393366	0.352091
06/05/2032	1.045244	0.677019	0.649529	0.681009	0.388179	0.336113
07/05/2032	1.042428	0.674445	0.647336	0.679506	0.383427	0.322643
08/05/2032	1.039604	0.672067	0.645206	0.678106	0.378948	0.311039
09/05/2032	1.036751	0.669736	0.643098	0.676748	0.374600	0.300726
10/05/2032	1.033872	0.667476	0.641020	0.675391	0.371009	0.293655
11/05/2032	1.032499	0.666529	0.639991	0.674447	0.375555	0.310616
12/05/2032	1.031266	0.666641	0.639751	0.673954	0.379280	0.326512
13/05/2032	1.030446	0.667420	0.640165	0.673900	0.385126	0.350928
14/05/2032	1.029146	0.667545	0.640397	0.673910	0.384792	0.352583
15/05/2032	1.027457	0.667157	0.640222	0.673693	0.388183	0.365955
16/05/2032	1.025413	0.666317	0.639753	0.673204	0.388352	0.369871
17/05/2032	1.023180	0.665332	0.639110	0.672551	0.389672	0.377521
18/05/2032	1.023142	0.665598	0.639635	0.672417	0.396950	0.394269
19/05/2032	1.023803	0.667131	0.641042	0.672862	0.404665	0.414365
20/05/2032	1.024099	0.668981	0.642672	0.673588	0.411446	0.435740
21/05/2032	1.023300	0.669605	0.643623	0.674091	0.411709	0.434791
22/05/2032	1.021642	0.668861	0.643575	0.674043	0.411574	0.431190
23/05/2032	1.021060	0.668282	0.643708	0.673851	0.415221	0.439729
24/05/2032	1.020510	0.667878	0.643922	0.673705	0.414276	0.431053
25/05/2032	1.019248	0.666970	0.643538	0.673431	0.410998	0.413913
26/05/2032	1.017354	0.665213	0.642372	0.672801	0.406085	0.393292
27/05/2032	1.015167	0.662904	0.640689	0.671807	0.400630	0.372760
28/05/2032	1.012895	0.660489	0.638798	0.670613	0.395297	0.354414
29/05/2032	1.010587	0.658186	0.636860	0.669378	0.390228	0.338555
30/05/2032	1.008239	0.656067	0.634951	0.668172	0.386070	0.327066
31/05/2032	1.010371	0.656834	0.635843	0.668335	0.393842	0.340812

01/06/2032	1.013036	0.659516	0.637937	0.669501	0.397660	0.345608
02/06/2032	1.013394	0.661275	0.638855	0.670461	0.395853	0.337467
03/06/2032	1.011711	0.661150	0.638187	0.670445	0.396691	0.341450
04/06/2032	1.009230	0.659295	0.636576	0.669550	0.391220	0.329335
05/06/2032	1.007638	0.657789	0.635333	0.668524	0.394498	0.342618
06/06/2032	1.006239	0.656968	0.634641	0.667774	0.394729	0.347342
07/06/2032	1.004480	0.656393	0.634030	0.667233	0.395734	0.353496
08/06/2032	1.002386	0.655247	0.633111	0.666646	0.392677	0.347627
09/06/2032	1.000144	0.653347	0.631718	0.665821	0.388187	0.334053
10/06/2032	0.997845	0.650980	0.629924	0.664731	0.382637	0.316783
12/06/2032	0.992355	0.645390	0.625209	0.661799	0.369599	0.280276
14/06/2032	0.988078	0.641377	0.621496	0.659498	0.360068	0.257640
15/06/2032	0.985507	0.639127	0.619330	0.658171	0.354899	0.247146
16/06/2032	0.985584	0.639026	0.618914	0.657619	0.362860	0.264722
17/06/2032	0.985921	0.640122	0.619337	0.657706	0.363889	0.264912
18/06/2032	0.984917	0.640554	0.619087	0.657737	0.362081	0.259426
19/06/2032	0.982740	0.639398	0.617777	0.657197	0.357539	0.250597
20/06/2032	0.980101	0.637180	0.615841	0.656091	0.352551	0.242185
21/06/2032	0.982620	0.637836	0.616931	0.656283	0.360072	0.259747
22/06/2032	0.985869	0.640590	0.619332	0.657597	0.361648	0.262240
23/06/2032	0.986511	0.642538	0.620392	0.658703	0.359862	0.257592
24/06/2032	0.984782	0.642027	0.619484	0.658674	0.355359	0.248806
25/06/2032	0.982088	0.639670	0.617393	0.657567	0.349839	0.238469
26/06/2032	0.980506	0.638020	0.615910	0.656329	0.353253	0.255490
27/06/2032	0.979138	0.637110	0.615088	0.655468	0.351064	0.255567
28/06/2032	0.977289	0.636558	0.614320	0.654853	0.353175	0.266586
29/06/2032	0.977613	0.637387	0.614902	0.654901	0.361518	0.288912
30/06/2032	0.978769	0.639574	0.616539	0.655555	0.370975	0.316395
01/07/2032	0.978780	0.641644	0.617998	0.656289	0.377127	0.336555
02/07/2032	0.977515	0.642490	0.618660	0.656635	0.381160	0.353803
03/07/2032	0.975644	0.641487	0.618342	0.656415	0.377312	0.341606
04/07/2032	0.973628	0.639249	0.617124	0.655661	0.372335	0.322000
05/07/2032	0.971575	0.636557	0.615366	0.654544	0.365677	0.298858
06/07/2032	0.969456	0.633918	0.613389	0.653273	0.359254	0.277613
07/07/2032	0.967252	0.631434	0.611350	0.651986	0.352932	0.258777
08/07/2032	0.964962	0.629045	0.609280	0.650719	0.346966	0.242640
10/07/2032	0.959427	0.623654	0.604423	0.647780	0.333807	0.212202
14/07/2032	0.950086	0.615309	0.596612	0.643009	0.313993	0.176982
15/07/2032	0.947535	0.613780	0.594829	0.641786	0.315476	0.190953
16/07/2032	0.945054	0.612418	0.593346	0.640716	0.312207	0.191727
17/07/2032	0.942633	0.610789	0.591834	0.639737	0.307954	0.186211
18/07/2032	0.941957	0.610331	0.591295	0.639164	0.314014	0.207431
19/07/2032	0.941406	0.610391	0.591269	0.638931	0.312695	0.207506
20/07/2032	0.940001	0.609910	0.590747	0.638648	0.310007	0.201640
21/07/2032	0.937876	0.608496	0.589496	0.637995	0.306091	0.194937
22/07/2032	0.935480	0.606461	0.587820	0.636977	0.301121	0.186452
23/07/2032	0.933083	0.604380	0.586057	0.635801	0.297240	0.181320
24/07/2032	0.932676	0.604015	0.585605	0.635155	0.303584	0.202473

25/07/2032	0.937079	0.607452	0.588753	0.636426	0.316797	0.233301
26/07/2032	0.941147	0.612297	0.592700	0.638771	0.322912	0.244967
27/07/2032	0.942099	0.615098	0.594661	0.640528	0.322266	0.241864
28/07/2032	0.940688	0.615240	0.594525	0.640869	0.323372	0.248375
29/07/2032	0.939966	0.614828	0.594353	0.640527	0.327830	0.267532
30/07/2032	0.939407	0.614921	0.594633	0.640228	0.332127	0.282706
31/07/2032	0.938323	0.614832	0.594752	0.640072	0.331622	0.284267
01/08/2032	0.936716	0.613709	0.594183	0.639751	0.327625	0.272348
02/08/2032	0.934856	0.611656	0.592930	0.639046	0.322459	0.255373
04/08/2032	0.930370	0.606371	0.589128	0.636640	0.309955	0.219221
05/08/2032	0.928850	0.604682	0.587748	0.635733	0.305940	0.208742
06/08/2032	0.926748	0.602537	0.585894	0.634551	0.300828	0.196711
07/08/2032	0.924603	0.600509	0.584074	0.633424	0.296183	0.187186
08/08/2032	0.922421	0.598515	0.582273	0.632315	0.291488	0.178433
09/08/2032	0.920221	0.596709	0.580552	0.631220	0.288746	0.176144
10/08/2032	0.918019	0.594958	0.578916	0.630159	0.284576	0.171204
11/08/2032	0.915816	0.593137	0.577264	0.629116	0.280394	0.164979
12/08/2032	0.913606	0.591233	0.575554	0.628054	0.276115	0.158555
14/08/2032	0.908518	0.586867	0.571584	0.625550	0.266311	0.145095
18/08/2032	0.898197	0.578412	0.563740	0.620517	0.247683	0.124812
19/08/2032	0.898045	0.578292	0.563628	0.620444	0.247417	0.124562
20/08/2032	0.895833	0.576556	0.561999	0.619390	0.243690	0.121402
21/08/2032	0.893640	0.574943	0.560445	0.618358	0.241032	0.121553
22/08/2032	0.891469	0.573353	0.558953	0.617358	0.237424	0.119466
24/08/2032	0.886642	0.569719	0.555615	0.615139	0.230034	0.114674
26/08/2032	0.882962	0.566901	0.553057	0.613430	0.224297	0.110738
27/08/2032	0.880894	0.565680	0.551780	0.612494	0.224685	0.119559
28/08/2032	0.878881	0.564616	0.550716	0.611659	0.222649	0.123603
29/08/2032	0.876927	0.563528	0.549721	0.610908	0.221222	0.126644
30/08/2032	0.875015	0.562236	0.548658	0.610159	0.218532	0.125436
31/08/2032	0.873121	0.560787	0.547490	0.609353	0.215829	0.122865
01/09/2032	0.872786	0.560565	0.547261	0.609024	0.215894	0.124275
02/09/2032	0.870585	0.559166	0.545658	0.606747	0.214037	0.129038
03/09/2032	0.869103	0.558255	0.544666	0.605783	0.212933	0.132141
04/09/2032	0.867631	0.557424	0.543818	0.605023	0.212426	0.137115
05/09/2032	0.865910	0.556674	0.543033	0.604261	0.213184	0.147653
06/09/2032	0.864257	0.555878	0.542370	0.603606	0.211624	0.151294
07/09/2032	0.862652	0.554909	0.541651	0.602972	0.210454	0.153047
08/09/2032	0.861806	0.554666	0.541491	0.602528	0.215438	0.175293
09/09/2032	0.861099	0.555078	0.541907	0.602359	0.219035	0.193716
10/09/2032	0.860147	0.555366	0.542343	0.602338	0.220093	0.202895
11/09/2032	0.858970	0.554945	0.542359	0.602215	0.219048	0.202527
12/09/2032	0.857703	0.553939	0.541936	0.601840	0.217471	0.198426
13/09/2032	0.856423	0.552741	0.541283	0.601268	0.215524	0.193168
14/09/2032	0.855144	0.551597	0.540567	0.600631	0.213632	0.188312
15/09/2032	0.853861	0.550550	0.539848	0.600015	0.211895	0.184336
16/09/2032	0.852569	0.549555	0.539134	0.599431	0.210276	0.181090
17/09/2032	0.851267	0.548574	0.538418	0.598860	0.208722	0.178306

18/09/2032	0.849958	0.547598	0.537698	0.598290	0.207202	0.175800
19/09/2032	0.848644	0.546629	0.536972	0.597717	0.205706	0.173492
20/09/2032	0.847328	0.545672	0.536243	0.597146	0.204234	0.171361
21/09/2032	0.848446	0.546525	0.537029	0.597238	0.213775	0.191852
22/09/2032	0.849793	0.548436	0.538533	0.597890	0.217299	0.197372
23/09/2032	0.849939	0.549817	0.539443	0.598509	0.218558	0.197711
24/09/2032	0.849039	0.549813	0.539415	0.598635	0.217334	0.194461
25/09/2032	0.847751	0.549098	0.538937	0.598289	0.218169	0.199370
26/09/2032	0.846476	0.548215	0.538439	0.597777	0.216822	0.200060
27/09/2032	0.845314	0.547716	0.538127	0.597340	0.219232	0.210466
28/09/2032	0.844235	0.547190	0.537902	0.597025	0.217461	0.209453
29/09/2032	0.843180	0.546426	0.537535	0.596720	0.216376	0.205752
30/09/2032	0.842123	0.545647	0.537080	0.596346	0.216511	0.206508
01/10/2032	0.841070	0.545058	0.536726	0.595958	0.216613	0.211366
02/10/2032	0.840046	0.544631	0.536535	0.595642	0.216837	0.217199
03/10/2032	0.839775	0.544858	0.536969	0.595613	0.221301	0.237714
04/10/2032	0.839628	0.545531	0.537864	0.595858	0.224653	0.254953
05/10/2032	0.841060	0.547152	0.539737	0.596636	0.232417	0.278225
06/10/2032	0.842359	0.549049	0.541800	0.597672	0.237028	0.290978
07/10/2032	0.842659	0.550305	0.543242	0.598512	0.239278	0.296875
08/10/2032	0.842217	0.550553	0.543943	0.598921	0.239816	0.298401
09/10/2032	0.841538	0.550177	0.544215	0.598966	0.240216	0.299729
10/10/2032	0.840888	0.549611	0.544342	0.598856	0.239903	0.298878
11/10/2032	0.840301	0.549090	0.544433	0.598732	0.239836	0.297875
12/10/2032	0.839741	0.548642	0.544510	0.598634	0.239777	0.296885
13/10/2032	0.839182	0.548227	0.544573	0.598549	0.239737	0.295974
14/10/2032	0.838615	0.547817	0.544618	0.598461	0.239712	0.295205
15/10/2032	0.838039	0.547406	0.544642	0.598365	0.239694	0.294565
16/10/2032	0.837456	0.546995	0.544648	0.598261	0.239676	0.294020
17/10/2032	0.836870	0.546607	0.544648	0.598155	0.239831	0.294171
18/10/2032	0.836287	0.546298	0.544679	0.598060	0.240498	0.296409
19/10/2032	0.837202	0.546970	0.545618	0.598359	0.246310	0.312021
20/10/2032	0.840149	0.549415	0.548107	0.599480	0.256112	0.334118
21/10/2032	0.843884	0.553267	0.551647	0.601355	0.266854	0.358350
22/10/2032	0.846121	0.556814	0.554788	0.603275	0.273792	0.375053
23/10/2032	0.847138	0.559072	0.557092	0.604751	0.278821	0.389517
24/10/2032	0.848198	0.560481	0.559118	0.605864	0.284127	0.405441
25/10/2032	0.848942	0.561362	0.560844	0.606726	0.286682	0.410611
26/10/2032	0.849160	0.561647	0.561986	0.607335	0.286750	0.405480
27/10/2032	0.850295	0.562242	0.563310	0.607977	0.291504	0.412395
28/10/2032	0.851657	0.563430	0.564983	0.608770	0.296184	0.422298
29/10/2032	0.857122	0.567054	0.569239	0.610941	0.307647	0.436543
30/10/2032	0.863840	0.572623	0.574757	0.614183	0.319302	0.453205
31/10/2032	0.867903	0.577501	0.579040	0.617170	0.325208	0.458861
01/11/2032	0.872635	0.581837	0.583207	0.619943	0.335922	0.468379
02/11/2032	0.876342	0.585284	0.586619	0.622195	0.341564	0.470591
03/11/2032	0.877971	0.587097	0.588573	0.623624	0.343176	0.467841
04/11/2032	0.878097	0.586991	0.589216	0.624193	0.342603	0.463061

05/11/2032	0.877681	0.585739	0.589167	0.624165	0.341662	0.458883
06/11/2032	0.877239	0.584339	0.588943	0.623908	0.340634	0.454708
07/11/2032	0.876862	0.583239	0.588756	0.623670	0.339905	0.451072
08/11/2032	0.876502	0.582407	0.588645	0.623516	0.339758	0.449532
09/11/2032	0.876125	0.581639	0.588575	0.623413	0.339432	0.447953
10/11/2032	0.876823	0.581498	0.589137	0.623589	0.342744	0.456584
11/11/2032	0.880637	0.583632	0.591763	0.624820	0.353555	0.471050
12/11/2032	0.884161	0.586983	0.594866	0.626644	0.360411	0.478250
13/11/2032	0.885632	0.589415	0.596876	0.628162	0.363209	0.480273
14/11/2032	0.885557	0.589840	0.597542	0.628872	0.362646	0.476673
15/11/2032	0.884947	0.588892	0.597414	0.628874	0.361740	0.473291
16/11/2032	0.886612	0.588939	0.598310	0.629144	0.367316	0.479771
17/11/2032	0.888506	0.590095	0.599762	0.629846	0.370365	0.481570
18/11/2032	0.889252	0.591099	0.600771	0.630565	0.371262	0.479730
19/11/2032	0.891717	0.592712	0.602551	0.631628	0.378974	0.486554
20/11/2032	0.898845	0.597200	0.607217	0.634190	0.392473	0.498916
21/11/2032	0.916080	0.607763	0.618470	0.640747	0.409189	0.514628
22/11/2032	0.938040	0.623180	0.633630	0.650677	0.426678	0.531762
23/11/2032	0.952475	0.636497	0.644888	0.659581	0.434455	0.536933
24/11/2032	0.960043	0.644548	0.650789	0.665052	0.444265	0.545538
25/11/2032	0.973272	0.650229	0.655479	0.668521	0.457307	0.557264
26/11/2032	0.984282	0.654650	0.658859	0.670801	0.463658	0.561543
27/11/2032	0.988343	0.656840	0.659987	0.671912	0.464244	0.558019
28/11/2032	0.989512	0.657600	0.660321	0.672350	0.468836	0.562737
29/11/2032	0.995295	0.658959	0.661469	0.672920	0.477111	0.574387
30/11/2032	1.000446	0.660898	0.662748	0.673632	0.482674	0.585250
01/12/2032	1.001633	0.661965	0.663153	0.674032	0.484376	0.589663
02/12/2032	0.999825	0.661295	0.662477	0.673807	0.482710	0.584436
03/12/2032	0.997012	0.659404	0.661112	0.673026	0.480256	0.575470
04/12/2032	0.994282	0.657268	0.659563	0.671986	0.478227	0.568137
05/12/2032	0.991831	0.655317	0.658082	0.670949	0.475780	0.559921
06/12/2032	0.989552	0.653540	0.656685	0.670005	0.473567	0.552223
07/12/2032	0.987346	0.651816	0.655327	0.669124	0.471336	0.545000
08/12/2032	0.985175	0.650138	0.654004	0.668262	0.469494	0.539865
09/12/2032	0.984647	0.649417	0.653589	0.667805	0.472263	0.546189
10/12/2032	0.985830	0.650895	0.655037	0.668364	0.481197	0.559174
11/12/2032	0.992416	0.655111	0.658459	0.670224	0.497554	0.575589
12/12/2032	0.999083	0.660452	0.662277	0.672696	0.514732	0.594519
13/12/2032	1.001581	0.664158	0.664582	0.674573	0.520834	0.599002
14/12/2032	1.000506	0.664911	0.664924	0.675221	0.517948	0.593839
15/12/2032	0.998008	0.663395	0.663951	0.674797	0.511233	0.583980
16/12/2032	0.995436	0.661089	0.662488	0.673841	0.504721	0.574601
17/12/2032	0.993132	0.658908	0.661015	0.672811	0.499094	0.565527
18/12/2032	0.991020	0.657033	0.659653	0.671891	0.494556	0.557324
19/12/2032	0.997123	0.657919	0.660938	0.671951	0.501256	0.562128
20/12/2032	1.005184	0.661424	0.663705	0.673034	0.511012	0.574257
21/12/2032	1.017913	0.666656	0.667797	0.676226	0.528584	0.592166
22/12/2032	1.027325	0.671467	0.671790	0.680116	0.537571	0.599362

23/12/2032	1.029881	0.673965	0.674074	0.682794	0.535414	0.595085
24/12/2032	1.027858	0.673809	0.674241	0.683472	0.528419	0.587131
25/12/2032	1.024626	0.672225	0.673203	0.682707	0.522488	0.585354
26/12/2032	1.026476	0.672066	0.673499	0.682376	0.529373	0.593007
27/12/2032	1.028982	0.673311	0.674506	0.682775	0.532272	0.595495
28/12/2032	1.031801	0.675681	0.676063	0.683509	0.540724	0.598985
29/12/2032	1.033306	0.677999	0.677353	0.684116	0.545454	0.599590
30/12/2032	1.047165	0.681707	0.681437	0.688258	0.557005	0.599755
31/12/2032	1.062321	0.687034	0.687620	0.694528	0.566301	0.600002
01/01/2033	1.068981	0.691657	0.692408	0.699480	0.564219	0.595312
02/01/2033	1.068342	0.693757	0.694155	0.701351	0.558847	0.598725
03/01/2033	1.064636	0.693339	0.693490	0.700634	0.550527	0.598880
04/01/2033	1.060748	0.691910	0.691904	0.698874	0.544327	0.599635
05/01/2033	1.059515	0.691118	0.690886	0.697378	0.543299	0.599893
06/01/2033	1.058750	0.691025	0.690358	0.696477	0.542201	0.599958
07/01/2033	1.063988	0.692691	0.691772	0.697490	0.552277	0.600059
08/01/2033	1.068822	0.695215	0.693802	0.699372	0.556143	0.599681
09/01/2033	1.074843	0.698581	0.696518	0.701687	0.566057	0.600086
10/01/2033	1.078259	0.701599	0.698650	0.703449	0.569250	0.600293
11/01/2033	1.087696	0.705159	0.702004	0.706671	0.578516	0.600439
12/01/2033	1.095438	0.708491	0.705411	0.710235	0.578325	0.597266
13/01/2033	1.103221	0.712201	0.709125	0.713694	0.585721	0.600088
14/01/2033	1.114007	0.717084	0.713724	0.717557	0.599169	0.600845
15/01/2033	1.120811	0.721721	0.717458	0.720666	0.603124	0.601042
16/01/2033	1.124184	0.725151	0.719841	0.722293	0.605276	0.601167
17/01/2033	1.123767	0.726649	0.720435	0.722346	0.601179	0.601188
18/01/2033	1.123977	0.727441	0.720565	0.721734	0.601586	0.601191
19/01/2033	1.126747	0.729106	0.721399	0.721443	0.607269	0.601262
20/01/2033	1.128964	0.731733	0.722725	0.721749	0.612097	0.601384
21/01/2033	1.134390	0.735393	0.725589	0.724731	0.620936	0.601521
22/01/2033	1.144497	0.740329	0.730582	0.730084	0.632994	0.601683
23/01/2033	1.150655	0.744570	0.734861	0.734736	0.631244	0.600245
24/01/2033	1.150204	0.746231	0.736261	0.736534	0.621353	0.600779
25/01/2033	1.145916	0.745191	0.735055	0.735563	0.609453	0.601300
26/01/2033	1.144114	0.744124	0.733914	0.733728	0.609292	0.601394
27/01/2033	1.148711	0.745475	0.734837	0.733479	0.619422	0.601535
28/01/2033	1.152255	0.747911	0.736206	0.734328	0.620577	0.601195
29/01/2033	1.167018	0.751850	0.740516	0.739416	0.626625	0.601615
30/01/2033	1.187942	0.757766	0.748053	0.747874	0.637560	0.601970
31/01/2033	1.209477	0.768430	0.761053	0.757419	0.650702	0.602367
01/02/2033	1.220716	0.778975	0.771382	0.764242	0.648596	0.600763
02/02/2033	1.220651	0.783984	0.774291	0.766307	0.636542	0.599798
03/02/2033	1.214794	0.782699	0.771479	0.764404	0.620537	0.596140
04/02/2033	1.207948	0.778530	0.766746	0.760767	0.608907	0.601303
05/02/2033	1.203551	0.775386	0.763289	0.757628	0.606697	0.602204
06/02/2033	1.200931	0.774379	0.761572	0.755755	0.608253	0.602333
07/02/2033	1.197574	0.773834	0.760107	0.754484	0.602894	0.598559
08/02/2033	1.192881	0.772210	0.757846	0.752952	0.592977	0.593644

09/02/2033	1.187487	0.769373	0.754799	0.750846	0.581640	0.588354
10/02/2033	1.182019	0.766029	0.751431	0.748371	0.570938	0.582786
11/02/2033	1.176725	0.762764	0.748101	0.745854	0.561600	0.577363
12/02/2033	1.171626	0.759822	0.744971	0.743478	0.554693	0.576012
13/02/2033	1.166697	0.757199	0.742098	0.741285	0.549976	0.578976
14/02/2033	1.161920	0.754737	0.739437	0.739245	0.545739	0.583142
15/02/2033	1.157275	0.752217	0.736856	0.737295	0.540384	0.582396
16/02/2033	1.153799	0.750278	0.734877	0.735639	0.540492	0.594659
17/02/2033	1.150465	0.748803	0.733262	0.734227	0.539406	0.600412
18/02/2033	1.146672	0.747112	0.731478	0.732846	0.535058	0.595790
19/02/2033	1.142525	0.744878	0.729302	0.731302	0.529694	0.588037
20/02/2033	1.138308	0.742250	0.726865	0.729567	0.523850	0.578834
21/02/2033	1.134183	0.739653	0.724418	0.727756	0.519464	0.574423
22/02/2033	1.130204	0.737363	0.722167	0.726015	0.516562	0.576219
23/02/2033	1.127762	0.736048	0.720852	0.724752	0.518118	0.588910
24/02/2033	1.125448	0.735159	0.719909	0.723846	0.517461	0.592879
25/02/2033	1.122881	0.734293	0.718924	0.723027	0.518127	0.599817
26/02/2033	1.119806	0.733074	0.717688	0.722067	0.517074	0.600493
27/02/2033	1.116554	0.731549	0.716279	0.720952	0.516113	0.600469
28/02/2033	1.113221	0.729819	0.714746	0.719738	0.514297	0.599882
01/03/2033	1.109856	0.727806	0.713043	0.718457	0.510378	0.592352
02/03/2033	1.106498	0.725520	0.711131	0.717095	0.505811	0.580631
03/03/2033	1.103177	0.723187	0.709114	0.715661	0.501973	0.571254
04/03/2033	1.099906	0.720973	0.707132	0.714219	0.498475	0.564257
05/03/2033	1.096741	0.719061	0.705331	0.712852	0.496888	0.565095
06/03/2033	1.094401	0.717772	0.704159	0.711791	0.497130	0.575596
07/03/2033	1.092133	0.716764	0.703308	0.710978	0.496354	0.581715
08/03/2033	1.089500	0.715409	0.702224	0.710165	0.493369	0.576255
09/03/2033	1.086583	0.713652	0.700751	0.709157	0.491181	0.571170
10/03/2033	1.083601	0.711761	0.699112	0.707971	0.489033	0.567879
11/03/2033	1.080680	0.709996	0.697536	0.706755	0.487579	0.567930
12/03/2033	1.080351	0.709794	0.697425	0.706261	0.493355	0.577399
13/03/2033	1.080261	0.710630	0.697901	0.706304	0.497151	0.584837
14/03/2033	1.078900	0.711035	0.697814	0.706269	0.497589	0.586166
15/03/2033	1.076466	0.709973	0.696810	0.705741	0.494218	0.576891
16/03/2033	1.073643	0.707670	0.695149	0.704703	0.489913	0.563751
17/03/2033	1.070820	0.704948	0.693242	0.703393	0.485533	0.550750
18/03/2033	1.068082	0.702511	0.691400	0.702060	0.482723	0.544282
19/03/2033	1.067341	0.701565	0.690758	0.701310	0.485726	0.551883
20/03/2033	1.066719	0.701467	0.690659	0.701031	0.485758	0.552462
21/03/2033	1.066058	0.701690	0.690743	0.700980	0.488205	0.562618
22/03/2033	1.065204	0.701808	0.690896	0.700952	0.490606	0.576125
23/03/2033	1.063993	0.701643	0.690959	0.700835	0.492381	0.592611
24/03/2033	1.062146	0.700795	0.690547	0.700487	0.490470	0.593496
25/03/2033	1.059821	0.699242	0.689508	0.699809	0.487608	0.585254
26/03/2033	1.057319	0.697285	0.688056	0.698842	0.484228	0.573762
27/03/2033	1.054821	0.695185	0.686433	0.697726	0.480092	0.559536
28/03/2033	1.052367	0.693095	0.684751	0.696578	0.476127	0.545972

29/03/2033	1.049937	0.691074	0.683058	0.695439	0.472391	0.534359
30/03/2033	1.047512	0.689087	0.681363	0.694312	0.468558	0.523528
31/03/2033	1.045598	0.687615	0.680064	0.693338	0.468462	0.527078
01/04/2033	1.043746	0.686658	0.679150	0.692556	0.469059	0.533776
02/04/2033	1.041696	0.685785	0.678295	0.691874	0.469228	0.534647
03/04/2033	1.039498	0.684755	0.677309	0.691162	0.469680	0.536477
04/04/2033	1.037735	0.683860	0.676516	0.690490	0.471440	0.543478
05/04/2033	1.036052	0.683038	0.675899	0.689891	0.472977	0.548671
06/04/2033	1.035451	0.682745	0.675904	0.689618	0.476739	0.559641
07/04/2033	1.034755	0.682737	0.676071	0.689532	0.479543	0.565546
08/04/2033	1.034474	0.683057	0.676472	0.689616	0.484269	0.576627
09/04/2033	1.033727	0.683162	0.676658	0.689644	0.486211	0.577593
10/04/2033	1.032222	0.682317	0.676123	0.689360	0.483021	0.561150
11/04/2033	1.030216	0.680451	0.674769	0.688634	0.478201	0.537453
12/04/2033	1.028646	0.678775	0.673439	0.687735	0.478265	0.533975
13/04/2033	1.027111	0.677340	0.672303	0.686891	0.474578	0.519334
14/04/2033	1.025279	0.675766	0.670961	0.686066	0.470543	0.501570
15/04/2033	1.023163	0.673805	0.669225	0.685103	0.465604	0.482150
16/04/2033	1.020895	0.671574	0.667194	0.683942	0.460405	0.463088
17/04/2033	1.019120	0.669988	0.665550	0.682835	0.460746	0.466112
18/04/2033	1.019530	0.670285	0.665564	0.682484	0.466857	0.480752
19/04/2033	1.019841	0.671377	0.666139	0.682695	0.468646	0.481380
20/04/2033	1.018847	0.671645	0.665956	0.682781	0.467201	0.473814
21/04/2033	1.016855	0.670583	0.664808	0.682303	0.464497	0.465222
22/04/2033	1.014513	0.668542	0.663059	0.681308	0.459269	0.450133
23/04/2033	1.012153	0.666190	0.661040	0.680057	0.454227	0.434763
24/04/2033	1.009820	0.663904	0.658940	0.678751	0.449165	0.420263
25/04/2033	1.007479	0.661749	0.656835	0.677468	0.444251	0.407090
26/04/2033	1.005108	0.659667	0.654740	0.676209	0.439500	0.395349
27/04/2033	1.005313	0.659475	0.654235	0.675667	0.445763	0.406196
28/04/2033	1.009036	0.662689	0.656481	0.676631	0.458491	0.426953
29/04/2033	1.013876	0.668297	0.660262	0.678806	0.472020	0.451637
30/04/2033	1.016380	0.673240	0.663282	0.680943	0.480076	0.472460
01/05/2033	1.015974	0.674969	0.664244	0.682006	0.478758	0.467566
02/05/2033	1.013964	0.673883	0.663404	0.681779	0.476949	0.461715
03/05/2033	1.016821	0.674411	0.664825	0.682291	0.483197	0.468709
04/05/2033	1.023602	0.678897	0.669142	0.684532	0.497908	0.484347
05/05/2033	1.028850	0.685044	0.673534	0.687423	0.514006	0.504228
06/05/2033	1.030121	0.688497	0.675582	0.689355	0.515610	0.497091
07/05/2033	1.036015	0.691916	0.679406	0.691851	0.521985	0.504212
08/05/2033	1.041889	0.695440	0.683288	0.694520	0.519378	0.492679
09/05/2033	1.043846	0.697528	0.684779	0.696133	0.515225	0.482305
10/05/2033	1.042454	0.696830	0.683640	0.696078	0.507094	0.464104
11/05/2033	1.039712	0.693987	0.680960	0.694695	0.498708	0.443223
12/05/2033	1.036795	0.690440	0.677829	0.692745	0.490647	0.422811
13/05/2033	1.033946	0.686945	0.674761	0.690780	0.483047	0.404002
14/05/2033	1.031102	0.683656	0.671826	0.688971	0.475890	0.387222
15/05/2033	1.028208	0.680541	0.668957	0.687267	0.469062	0.372331

16/05/2033	1.025253	0.677545	0.666107	0.685584	0.462465	0.358996
17/05/2033	1.022239	0.674625	0.663268	0.683889	0.456048	0.346935
18/05/2033	1.019177	0.671759	0.660449	0.682188	0.449786	0.335960
19/05/2033	1.016079	0.668936	0.657659	0.680494	0.443668	0.325945
20/05/2033	1.012975	0.666373	0.655007	0.678840	0.439895	0.323901
21/05/2033	1.009896	0.664068	0.652577	0.677277	0.436116	0.323603
22/05/2033	1.006852	0.661720	0.650241	0.675797	0.430856	0.317900
23/05/2033	1.003827	0.659209	0.647845	0.674325	0.425604	0.310655
24/05/2033	1.000805	0.656595	0.645370	0.672805	0.420036	0.302627
25/05/2033	0.997783	0.653984	0.642875	0.671247	0.414466	0.294767
26/05/2033	0.994770	0.651523	0.640444	0.669700	0.409995	0.290714
27/05/2033	0.991777	0.649151	0.638102	0.668199	0.404992	0.285857
28/05/2033	0.988804	0.646779	0.635796	0.666736	0.400013	0.280493
29/05/2033	0.985858	0.644525	0.633562	0.665298	0.396459	0.279622
30/05/2033	0.982954	0.642450	0.631473	0.663907	0.393189	0.280671
31/05/2033	0.980120	0.640725	0.629631	0.662610	0.392373	0.289345
01/06/2033	0.977374	0.639156	0.628011	0.661436	0.390563	0.294660
02/06/2033	0.974691	0.637226	0.626311	0.660305	0.385492	0.287121
03/06/2033	0.972049	0.635390	0.624563	0.659131	0.385456	0.292653
04/06/2033	0.969432	0.633390	0.622802	0.657929	0.379824	0.284108
05/06/2033	0.966815	0.631131	0.620866	0.656683	0.374686	0.272693
06/06/2033	0.964174	0.628679	0.618735	0.655354	0.368981	0.260498
07/06/2033	0.961499	0.626184	0.616500	0.653950	0.363168	0.248669
08/06/2033	0.958796	0.623738	0.614244	0.652518	0.357510	0.238095
09/06/2033	0.956073	0.621354	0.611999	0.651095	0.352047	0.228863
10/06/2033	0.953337	0.619031	0.609781	0.649691	0.346911	0.221239
11/06/2033	0.950598	0.616773	0.607607	0.648308	0.342064	0.215078
12/06/2033	0.947883	0.614866	0.605620	0.646977	0.340325	0.219010
13/06/2033	0.945206	0.612979	0.603777	0.645731	0.335389	0.215058
15/06/2033	0.939919	0.608875	0.599972	0.643272	0.326759	0.205386
16/06/2033	0.937294	0.606689	0.597992	0.642006	0.321999	0.199398
17/06/2033	0.934677	0.604604	0.596041	0.640720	0.318200	0.196405
18/06/2033	0.932091	0.602830	0.594263	0.639483	0.316132	0.199675
19/06/2033	0.929571	0.601487	0.592789	0.638373	0.315949	0.209894
20/06/2033	0.927167	0.600627	0.591721	0.637451	0.317933	0.228559
21/06/2033	0.924925	0.600118	0.591045	0.636732	0.320985	0.248368
22/06/2033	0.927393	0.602072	0.593193	0.637466	0.331440	0.274690
23/06/2033	0.931738	0.606365	0.597052	0.639455	0.343023	0.304239
24/06/2033	0.933884	0.609973	0.599948	0.641403	0.345359	0.307962
25/06/2033	0.933340	0.610751	0.600605	0.642231	0.342646	0.297701
26/06/2033	0.931439	0.609343	0.599655	0.641807	0.340709	0.292409
27/06/2033	0.929285	0.607433	0.598307	0.640751	0.339557	0.293428
28/06/2033	0.927240	0.605493	0.596992	0.639660	0.334688	0.282832
29/06/2033	0.925273	0.603551	0.595595	0.638676	0.330885	0.271584
30/06/2033	0.923295	0.601541	0.594061	0.637698	0.326360	0.259187
01/07/2033	0.922098	0.600497	0.593169	0.636920	0.329606	0.273647
02/07/2033	0.921152	0.600523	0.593124	0.636512	0.333857	0.294221
03/07/2033	0.919910	0.600569	0.593245	0.636350	0.334592	0.299954

04/07/2033	0.918336	0.600066	0.592990	0.636121	0.335369	0.304387
05/07/2033	0.916599	0.598736	0.592244	0.635628	0.331624	0.295269
06/07/2033	0.914808	0.596855	0.591068	0.634859	0.327366	0.281369
07/07/2033	0.926401	0.601059	0.597624	0.638096	0.335588	0.293654
08/07/2033	0.939920	0.609685	0.606897	0.644021	0.339678	0.298100
09/07/2033	0.946501	0.617125	0.612713	0.648991	0.343992	0.310169
10/07/2033	0.946792	0.619905	0.613957	0.650968	0.345765	0.319420
11/07/2033	0.944556	0.618477	0.612399	0.650349	0.341961	0.311046
12/07/2033	0.942061	0.615663	0.610051	0.648611	0.341163	0.308386
13/07/2033	0.939804	0.612912	0.607855	0.646875	0.336412	0.295673
14/07/2033	0.937666	0.610660	0.605905	0.645470	0.333697	0.286648
15/07/2033	0.936919	0.609847	0.605035	0.644655	0.338304	0.301209
16/07/2033	0.936255	0.609681	0.604758	0.644261	0.338628	0.302264
17/07/2033	0.936187	0.610226	0.605055	0.644226	0.345263	0.321540
18/07/2033	0.938207	0.612367	0.606881	0.644945	0.357106	0.346216
19/07/2033	0.939609	0.614565	0.608689	0.645939	0.359968	0.343161
20/07/2033	0.939143	0.615139	0.609031	0.646407	0.358362	0.329700
21/07/2033	0.937338	0.613696	0.607883	0.645969	0.353197	0.310594
22/07/2033	0.935965	0.612188	0.606725	0.645115	0.355520	0.319234
23/07/2033	0.934667	0.610934	0.605891	0.644325	0.352315	0.311501
24/07/2033	0.933002	0.609574	0.604854	0.643618	0.349270	0.300895
25/07/2033	0.930981	0.607855	0.603419	0.642790	0.345764	0.290642
26/07/2033	0.928792	0.605762	0.601694	0.641762	0.340610	0.276308
27/07/2033	0.926554	0.603508	0.599802	0.640592	0.335679	0.262406
28/07/2033	0.924291	0.601263	0.597836	0.639366	0.330739	0.249695
29/07/2033	0.922000	0.599106	0.595861	0.638138	0.326115	0.238987
30/07/2033	0.919678	0.597007	0.593902	0.636927	0.321404	0.229030
31/07/2033	0.917332	0.594933	0.591951	0.635729	0.316839	0.220062
01/08/2033	0.914971	0.592946	0.590041	0.634540	0.312945	0.214578
02/08/2033	0.912611	0.591076	0.588219	0.633379	0.309313	0.211012
03/08/2033	0.910278	0.589504	0.586577	0.632282	0.307888	0.214826
04/08/2033	0.907989	0.587971	0.585063	0.631267	0.304290	0.213273
05/08/2033	0.905749	0.586584	0.583646	0.630308	0.303550	0.218413
06/08/2033	0.903556	0.585135	0.582281	0.629382	0.300231	0.217270
07/08/2033	0.901394	0.583546	0.580861	0.628450	0.297073	0.214035
08/08/2033	0.899448	0.582475	0.579717	0.627579	0.299382	0.229240
09/08/2033	0.907375	0.586317	0.584692	0.629860	0.309314	0.253965
10/08/2033	0.916786	0.593657	0.591944	0.634286	0.318668	0.279477
11/08/2033	0.923425	0.601128	0.597937	0.638668	0.330411	0.307268
12/08/2033	0.927469	0.606654	0.601921	0.641697	0.342571	0.335475
13/08/2033	0.929684	0.610120	0.604459	0.643323	0.352682	0.362569
14/08/2033	0.929925	0.611245	0.605574	0.643906	0.353254	0.361176
15/08/2033	0.928730	0.610458	0.605327	0.643720	0.351841	0.352981
16/08/2033	0.927971	0.609520	0.604988	0.643291	0.354764	0.361913
17/08/2033	0.930059	0.610772	0.606541	0.643684	0.365094	0.380017
18/08/2033	0.936984	0.616002	0.611607	0.646167	0.380853	0.403183
19/08/2033	0.944696	0.623480	0.617911	0.649966	0.396053	0.426957
20/08/2033	0.950235	0.630249	0.623180	0.653582	0.408509	0.448907

21/08/2033	0.952059	0.633522	0.625852	0.655758	0.410015	0.442310
22/08/2033	0.954131	0.635259	0.627742	0.657003	0.419099	0.449405
23/08/2033	0.956890	0.637435	0.629928	0.658065	0.428247	0.462202
24/08/2033	0.958348	0.639742	0.631835	0.659053	0.434763	0.474638
25/08/2033	0.961452	0.642802	0.634744	0.660625	0.445408	0.489357
26/08/2033	0.965840	0.646818	0.638483	0.662774	0.457327	0.505432
27/08/2033	0.968274	0.649995	0.641216	0.664642	0.461447	0.502393
28/08/2033	0.968132	0.650534	0.641858	0.665462	0.457918	0.480346
29/08/2033	0.967048	0.649381	0.641261	0.665273	0.458695	0.477623
30/08/2033	0.965653	0.647589	0.640301	0.664573	0.455927	0.465779
31/08/2033	0.964066	0.645498	0.639053	0.663736	0.450787	0.444673
01/09/2033	0.962311	0.643221	0.637461	0.662818	0.445937	0.425179
02/09/2033	0.960435	0.640864	0.635656	0.661790	0.440618	0.406714
03/09/2033	0.958485	0.638541	0.633772	0.660686	0.435465	0.390450
04/09/2033	0.956478	0.636295	0.631867	0.659558	0.430503	0.376396
05/09/2033	0.954420	0.634136	0.629964	0.658435	0.425892	0.364757
06/09/2033	0.952316	0.632019	0.628066	0.657319	0.421131	0.353782
07/09/2033	0.950177	0.629942	0.626175	0.656205	0.416675	0.344418
08/09/2033	0.948013	0.627882	0.624289	0.655092	0.412012	0.335266
09/09/2033	0.945828	0.625835	0.622404	0.653975	0.407415	0.326729
10/09/2033	0.943629	0.623829	0.620531	0.652857	0.403068	0.319572
11/09/2033	0.941434	0.622027	0.618762	0.651763	0.400361	0.318390
12/09/2033	0.940027	0.621076	0.617725	0.650952	0.402226	0.335118
13/09/2033	0.938741	0.620599	0.617218	0.650453	0.402240	0.344387
14/09/2033	0.937171	0.620129	0.616733	0.650071	0.402990	0.354383
15/09/2033	0.935354	0.619021	0.615918	0.649580	0.399197	0.349950
16/09/2033	0.933442	0.617304	0.614676	0.648853	0.395182	0.341027
17/09/2033	0.931520	0.615414	0.613200	0.647929	0.391486	0.333655
18/09/2033	0.929625	0.613902	0.611832	0.646969	0.390494	0.336371
19/09/2033	0.927767	0.612536	0.610625	0.646106	0.386998	0.333169
20/09/2033	0.925937	0.611161	0.609440	0.645320	0.384721	0.331325
21/09/2033	0.924116	0.609622	0.608181	0.644526	0.380978	0.325450
22/09/2033	0.926492	0.610521	0.609357	0.644893	0.388696	0.339510
23/09/2033	0.929383	0.613392	0.611651	0.646132	0.394470	0.352715
24/09/2033	0.930178	0.615675	0.613032	0.647246	0.394633	0.354799
25/09/2033	0.929115	0.615970	0.612937	0.647529	0.393936	0.356530
26/09/2033	0.927321	0.614491	0.611846	0.646978	0.389549	0.348555
27/09/2033	0.925458	0.612331	0.610330	0.645982	0.385192	0.338380
28/09/2033	0.923674	0.610468	0.608848	0.644920	0.383165	0.336175
29/09/2033	0.921939	0.608897	0.607524	0.643982	0.379356	0.330177
30/09/2033	0.923516	0.609584	0.608239	0.644075	0.387369	0.344589
01/10/2033	0.926014	0.612287	0.610281	0.645070	0.394889	0.365906
02/10/2033	0.927548	0.615268	0.612386	0.646333	0.400673	0.389609
03/10/2033	0.930596	0.618653	0.615414	0.648049	0.411238	0.413545
04/10/2033	0.932909	0.621680	0.618138	0.649709	0.416748	0.425017
05/10/2033	0.933282	0.623264	0.619487	0.650710	0.417658	0.427894
06/10/2033	0.932275	0.623051	0.619521	0.650862	0.416178	0.426776
07/10/2033	0.930813	0.621670	0.618847	0.650405	0.413481	0.422674

08/10/2033	0.929374	0.620043	0.617989	0.649715	0.411348	0.419859
09/10/2033	0.928029	0.618583	0.617173	0.649043	0.409036	0.416484
10/10/2033	0.926724	0.617278	0.616400	0.648448	0.406767	0.412639
11/10/2033	0.925424	0.616112	0.615668	0.647899	0.405545	0.412297
12/10/2033	0.925176	0.615690	0.615626	0.647644	0.407979	0.424064
13/10/2033	0.931876	0.619075	0.619963	0.649706	0.418106	0.442462
14/10/2033	0.943820	0.627224	0.628309	0.654556	0.433280	0.463195
15/10/2033	0.954665	0.637193	0.636762	0.660305	0.448256	0.483439
16/10/2033	0.959828	0.644418	0.641904	0.664497	0.456033	0.496525
17/10/2033	0.961542	0.647613	0.644103	0.666481	0.461108	0.509120
18/10/2033	0.961328	0.647689	0.644463	0.666802	0.460955	0.508578
19/10/2033	0.963499	0.648299	0.645765	0.667213	0.468594	0.516271
20/10/2033	0.968538	0.651747	0.649072	0.668803	0.481637	0.529288
21/10/2033	0.972083	0.655998	0.652176	0.670811	0.489296	0.532044
22/10/2033	0.972702	0.658160	0.653464	0.672087	0.490383	0.526477
23/10/2033	0.973922	0.659048	0.654401	0.672819	0.496996	0.531279
24/10/2033	0.976047	0.660247	0.655823	0.673508	0.506630	0.543291
25/10/2033	0.977000	0.661325	0.656920	0.674120	0.508744	0.543376
26/10/2033	0.976326	0.661186	0.656975	0.674321	0.505352	0.535106
27/10/2033	0.974760	0.659818	0.656141	0.673956	0.500978	0.528067
28/10/2033	0.975015	0.659074	0.656033	0.673703	0.502497	0.532702
29/10/2033	0.975434	0.659109	0.656362	0.673727	0.502502	0.531201
30/10/2033	0.974866	0.658946	0.656286	0.673736	0.500547	0.525384
31/10/2033	0.973449	0.657848	0.655517	0.673421	0.496533	0.515225
01/11/2033	0.972237	0.656461	0.654676	0.672891	0.495082	0.517434
02/11/2033	0.971060	0.655217	0.654043	0.672348	0.493302	0.522118
03/11/2033	0.970477	0.654369	0.653929	0.672060	0.494032	0.533701
04/11/2033	0.969767	0.653407	0.653920	0.671924	0.492553	0.537214
05/11/2033	0.968604	0.651965	0.653546	0.671675	0.489684	0.533645
06/11/2033	0.967135	0.650271	0.652790	0.671183	0.487491	0.532328
07/11/2033	0.967207	0.649442	0.652724	0.670912	0.489383	0.539516
08/11/2033	0.969065	0.650204	0.653910	0.671314	0.495296	0.553007
09/11/2033	0.973323	0.653271	0.656941	0.672873	0.510769	0.570439
10/11/2033	0.977078	0.657182	0.660222	0.674924	0.522217	0.589253
11/11/2033	0.978259	0.659510	0.662076	0.676415	0.522668	0.592921
12/11/2033	0.977641	0.659576	0.662396	0.676902	0.519322	0.594652
13/11/2033	0.976849	0.658473	0.662157	0.676728	0.516000	0.598565
14/11/2033	0.975902	0.657021	0.661712	0.676300	0.510903	0.593712
15/11/2033	0.974660	0.655428	0.660984	0.675777	0.505778	0.584062
16/11/2033	0.973206	0.653724	0.659996	0.675153	0.501372	0.575363
17/11/2033	0.971709	0.652076	0.658951	0.674453	0.498329	0.571940
18/11/2033	0.982176	0.655153	0.663894	0.676898	0.505615	0.577812
19/11/2033	0.994087	0.661402	0.670747	0.681349	0.509618	0.576854
20/11/2033	0.999674	0.666264	0.674687	0.684946	0.508679	0.570777
21/11/2033	0.999641	0.667277	0.674922	0.686126	0.505303	0.565908
22/11/2033	0.997391	0.665338	0.673103	0.685292	0.500243	0.558969
23/11/2033	0.994972	0.662513	0.670848	0.683680	0.495592	0.552119
24/11/2033	0.992835	0.659955	0.668834	0.682159	0.491168	0.544551

25/11/2033	0.990874	0.657886	0.667126	0.680951	0.487905	0.540009
26/11/2033	0.989504	0.656447	0.665956	0.680088	0.487065	0.545378
27/11/2033	0.989126	0.655850	0.665639	0.679663	0.488432	0.558192
28/11/2033	0.988702	0.655680	0.665694	0.679512	0.489918	0.569379
29/11/2033	0.987573	0.655071	0.665405	0.679298	0.488129	0.568678
30/11/2033	0.985873	0.653681	0.664490	0.678772	0.485059	0.561681
01/12/2033	0.983962	0.651853	0.663178	0.677933	0.482172	0.555799
02/12/2033	0.982066	0.650088	0.661838	0.676969	0.480153	0.554535
03/12/2033	0.980243	0.648518	0.660630	0.676059	0.477969	0.553460
04/12/2033	0.978478	0.647033	0.659505	0.675243	0.475706	0.551023
05/12/2033	0.976750	0.645594	0.658416	0.674474	0.474034	0.550170
06/12/2033	0.975050	0.644147	0.657350	0.673717	0.471925	0.548107
07/12/2033	0.973373	0.642666	0.656282	0.672956	0.469703	0.544966
08/12/2033	0.971714	0.641163	0.655200	0.672190	0.467457	0.541444
09/12/2033	0.970073	0.639667	0.654112	0.671422	0.465196	0.537865
10/12/2033	0.968448	0.638197	0.653024	0.670657	0.462970	0.534470
11/12/2033	0.966840	0.636756	0.651949	0.669901	0.460792	0.531333
12/12/2033	0.965249	0.635339	0.650889	0.669155	0.458658	0.528426
13/12/2033	0.963674	0.633945	0.649846	0.668420	0.456561	0.525706
14/12/2033	0.962118	0.632591	0.648830	0.667697	0.454698	0.523949
15/12/2033	0.960582	0.631280	0.647848	0.666991	0.452879	0.522617
16/12/2033	0.960716	0.630896	0.647762	0.666699	0.455597	0.531360
17/12/2033	0.965076	0.633417	0.650436	0.667905	0.465616	0.546059
18/12/2033	0.969026	0.637385	0.653659	0.669884	0.471585	0.554773
19/12/2033	0.970127	0.640013	0.655329	0.671357	0.472324	0.555197
20/12/2033	0.969103	0.640149	0.655217	0.671684	0.470827	0.553197
21/12/2033	0.970739	0.640282	0.655679	0.671821	0.476983	0.559333
22/12/2033	0.973060	0.641541	0.656799	0.672242	0.482605	0.569635
23/12/2033	0.973756	0.642779	0.657538	0.672698	0.483677	0.572512
24/12/2033	0.973356	0.643130	0.657718	0.672912	0.484341	0.579054
25/12/2033	0.972272	0.642478	0.657406	0.672752	0.482734	0.579749
26/12/2033	0.970848	0.641328	0.656754	0.672291	0.481416	0.579879
27/12/2033	0.982145	0.642409	0.658462	0.672956	0.489406	0.586781
28/12/2033	0.994140	0.645233	0.660956	0.674425	0.493919	0.588193
29/12/2033	0.999063	0.647538	0.662268	0.675606	0.494389	0.585501
30/12/2033	0.997364	0.647576	0.661749	0.675716	0.491283	0.578341
31/12/2033	0.995105	0.646527	0.660856	0.675182	0.489536	0.575965
01/01/2034	0.992932	0.645314	0.659915	0.674417	0.488503	0.577744
02/01/2034	0.991111	0.644345	0.659164	0.673805	0.485980	0.573512
03/01/2034	0.989223	0.643401	0.658307	0.673241	0.483145	0.565870
04/01/2034	0.988151	0.643035	0.657844	0.672857	0.483575	0.569803
05/01/2034	0.987082	0.643008	0.657626	0.672620	0.482327	0.569745
06/01/2034	0.985548	0.642672	0.657205	0.672362	0.479904	0.564065
07/01/2034	0.983655	0.641808	0.656429	0.671925	0.477651	0.558840
08/01/2034	0.981656	0.640562	0.655406	0.671298	0.474337	0.550645
09/01/2034	0.979692	0.639297	0.654307	0.670575	0.471973	0.545471
10/01/2034	0.978805	0.638744	0.653842	0.670118	0.472790	0.551878
11/01/2034	0.978011	0.638739	0.653798	0.669940	0.473246	0.558583

12/01/2034	0.976727	0.638513	0.653599	0.669812	0.471266	0.556049
13/01/2034	0.975043	0.637701	0.652966	0.669496	0.468862	0.550118
14/01/2034	0.973498	0.636736	0.652229	0.669020	0.467975	0.550852
15/01/2034	0.972000	0.635832	0.651555	0.668507	0.466163	0.549800
16/01/2034	0.970424	0.634869	0.650834	0.668004	0.463578	0.544436
17/01/2034	0.969887	0.634450	0.650623	0.667751	0.464924	0.550351
18/01/2034	0.969382	0.634483	0.650712	0.667692	0.465503	0.556225
19/01/2034	0.968328	0.634416	0.650648	0.667630	0.465013	0.558804
20/01/2034	0.969833	0.635645	0.651878	0.668195	0.472320	0.567142
21/01/2034	0.971460	0.637679	0.653409	0.669110	0.476054	0.566604
22/01/2034	0.971549	0.639121	0.654100	0.669758	0.477033	0.564710
23/01/2034	0.971274	0.639633	0.654335	0.670036	0.478032	0.570412
24/01/2034	0.971388	0.639874	0.654764	0.670213	0.479820	0.583335
25/01/2034	0.971052	0.640011	0.655143	0.670354	0.480219	0.591092
26/01/2034	0.970166	0.639878	0.655202	0.670384	0.480074	0.595428
27/01/2034	0.975862	0.640996	0.656445	0.670970	0.487969	0.598673
28/01/2034	0.982933	0.643698	0.658619	0.672176	0.496305	0.599026
29/01/2034	0.986166	0.646277	0.660261	0.673353	0.499266	0.594751
30/01/2034	0.985614	0.647110	0.660600	0.673897	0.497166	0.585710
31/01/2034	0.983427	0.646288	0.659916	0.673689	0.494025	0.579571
01/02/2034	0.981101	0.644771	0.658835	0.673031	0.490157	0.573527
02/02/2034	0.979057	0.643272	0.657730	0.672274	0.486511	0.566979
03/02/2034	0.977224	0.641944	0.656674	0.671581	0.482964	0.559250
04/02/2034	0.975482	0.640702	0.655631	0.670945	0.479608	0.551245
05/02/2034	0.973766	0.639498	0.654582	0.670320	0.476639	0.544683
06/02/2034	0.972059	0.638346	0.653557	0.669690	0.474078	0.540310
07/02/2034	0.970359	0.637229	0.652568	0.669068	0.471515	0.536511
08/02/2034	0.968671	0.636096	0.651588	0.668456	0.468764	0.531881
09/02/2034	0.967002	0.635024	0.650636	0.667854	0.466935	0.530593
10/02/2034	0.966744	0.634768	0.650486	0.667608	0.468699	0.539086
11/02/2034	0.969231	0.636637	0.652194	0.668354	0.476862	0.553587
12/02/2034	0.971521	0.639672	0.654423	0.669677	0.483538	0.566194
13/02/2034	0.972859	0.642302	0.656206	0.670953	0.487717	0.580743
14/02/2034	0.973264	0.643710	0.657326	0.671806	0.489876	0.595492
15/02/2034	0.972616	0.643797	0.657655	0.672105	0.488586	0.597675
16/02/2034	0.971256	0.642918	0.657248	0.671918	0.485526	0.590101
17/02/2034	0.969627	0.641593	0.656379	0.671409	0.482404	0.580662
18/02/2034	0.968509	0.640569	0.655697	0.670903	0.481564	0.580585
19/02/2034	0.968000	0.640207	0.655568	0.670664	0.481955	0.587032
20/02/2034	0.969118	0.641020	0.656503	0.671032	0.486811	0.598346
21/02/2034	0.970451	0.642561	0.657892	0.671814	0.491090	0.599337
22/02/2034	0.970966	0.643901	0.658993	0.672574	0.493427	0.599207
23/02/2034	0.972930	0.645041	0.660113	0.673290	0.497184	0.599187
24/02/2034	0.975567	0.646408	0.661555	0.674231	0.502514	0.599306
25/02/2034	0.976738	0.647627	0.662726	0.675133	0.504588	0.599349
26/02/2034	0.976337	0.648208	0.663309	0.675698	0.504521	0.599303
27/02/2034	0.975112	0.648017	0.663292	0.675797	0.503093	0.599215
28/02/2034	0.973764	0.647355	0.662913	0.675552	0.501421	0.599130

01/03/2034	0.973977	0.647288	0.663119	0.675504	0.504286	0.599175
02/03/2034	0.976793	0.648491	0.664371	0.676199	0.510790	0.599348
03/03/2034	0.978858	0.650000	0.665634	0.677181	0.512662	0.598025
04/03/2034	0.980290	0.651373	0.666797	0.678116	0.515575	0.599237
05/03/2034	0.980937	0.652643	0.667947	0.678907	0.519486	0.599558
06/03/2034	0.980429	0.653310	0.668530	0.679354	0.517837	0.593363
07/03/2034	0.979096	0.653096	0.668293	0.679331	0.514401	0.590229
08/03/2034	0.977459	0.652128	0.667487	0.678900	0.509909	0.588005
09/03/2034	0.975827	0.650653	0.666380	0.678237	0.503929	0.578914
10/03/2034	0.974258	0.648962	0.665093	0.677472	0.498277	0.566781
11/03/2034	0.973411	0.647812	0.664200	0.676855	0.496700	0.569017
12/03/2034	0.972596	0.647000	0.663587	0.676418	0.492991	0.564792
13/03/2034	0.971413	0.646031	0.662812	0.676000	0.488941	0.555828
14/03/2034	0.969930	0.644811	0.661753	0.675444	0.485887	0.550110
15/03/2034	0.968336	0.643329	0.660500	0.674734	0.481286	0.540030
16/03/2034	0.966734	0.641758	0.659145	0.673933	0.477357	0.530930
17/03/2034	0.965139	0.640170	0.657744	0.673100	0.473024	0.521057
18/03/2034	0.963539	0.638593	0.656314	0.672260	0.468808	0.511516
19/03/2034	0.961927	0.637084	0.654891	0.671420	0.465228	0.504688
20/03/2034	0.960304	0.635594	0.653480	0.670586	0.461215	0.497195
21/03/2034	0.958670	0.634111	0.652066	0.669753	0.457554	0.490687
22/03/2034	0.957794	0.633216	0.651181	0.669129	0.457710	0.498298
23/03/2034	0.956964	0.632614	0.650635	0.668714	0.455315	0.498904
24/03/2034	0.956457	0.632383	0.650433	0.668517	0.456326	0.509593
25/03/2034	0.955688	0.632040	0.650221	0.668368	0.454383	0.511443
26/03/2034	0.956855	0.632743	0.650988	0.668688	0.459723	0.521805
27/03/2034	0.960459	0.635602	0.653378	0.669917	0.469519	0.536943
28/03/2034	0.962940	0.638876	0.655597	0.671398	0.472792	0.538428
29/03/2034	0.963381	0.640807	0.656593	0.672360	0.474520	0.543345
30/03/2034	0.962371	0.640648	0.656357	0.672492	0.471213	0.537629
31/03/2034	0.960800	0.639111	0.655322	0.671959	0.467251	0.528094
01/04/2034	0.959148	0.637050	0.653854	0.671081	0.462118	0.509906
02/04/2034	0.957512	0.634971	0.652131	0.670071	0.457118	0.490022
03/04/2034	0.955866	0.633081	0.650313	0.669023	0.453074	0.473773
04/04/2034	0.954598	0.631865	0.648898	0.668118	0.453292	0.475635
05/04/2034	0.953350	0.630897	0.647787	0.667399	0.450705	0.468565
06/04/2034	0.951905	0.629924	0.646648	0.666744	0.449809	0.465858
07/04/2034	0.951205	0.629405	0.645983	0.666273	0.451640	0.475365
08/04/2034	0.950526	0.629305	0.645697	0.665979	0.453462	0.484507
09/04/2034	0.949423	0.628888	0.645235	0.665699	0.451465	0.479132
10/04/2034	0.947953	0.627709	0.644205	0.665204	0.447698	0.465651
11/04/2034	0.946310	0.625937	0.642667	0.664401	0.443022	0.449166
12/04/2034	0.944955	0.624534	0.641257	0.663504	0.442840	0.450496
13/04/2034	0.943658	0.623709	0.640237	0.662743	0.442766	0.453996
14/04/2034	0.943811	0.623970	0.640253	0.662533	0.446935	0.467753
15/04/2034	0.946619	0.626319	0.642156	0.663395	0.457548	0.486437
16/04/2034	0.948809	0.629160	0.644169	0.664683	0.460973	0.484907
17/04/2034	0.950656	0.631702	0.645804	0.665898	0.467045	0.493691

18/04/2034	0.951165	0.632933	0.646559	0.666583	0.467126	0.489741
19/04/2034	0.950359	0.632840	0.646327	0.666603	0.466731	0.487556
20/04/2034	0.948870	0.631587	0.645340	0.666098	0.462191	0.474822
21/04/2034	0.947195	0.629694	0.643862	0.665266	0.457405	0.458979
22/04/2034	0.945520	0.627645	0.642145	0.664272	0.452356	0.442751
23/04/2034	0.943846	0.625681	0.640349	0.663226	0.447387	0.427580
24/04/2034	0.942142	0.623863	0.638554	0.662184	0.443031	0.415536
25/04/2034	0.940407	0.622306	0.636865	0.661181	0.440538	0.411208
26/04/2034	0.938996	0.621319	0.635632	0.660354	0.440923	0.419969
27/04/2034	0.937639	0.620530	0.634708	0.659716	0.439418	0.420980
28/04/2034	0.936155	0.619602	0.633730	0.659133	0.437777	0.419998
29/04/2034	0.934545	0.618271	0.632507	0.658452	0.433915	0.411803
30/04/2034	0.935424	0.618404	0.632569	0.658307	0.440061	0.421294
01/05/2034	0.936852	0.620107	0.633569	0.658726	0.446096	0.435869
02/05/2034	0.937041	0.621528	0.634213	0.659213	0.446198	0.433937
03/05/2034	0.936403	0.621955	0.634215	0.659383	0.448264	0.442805
04/05/2034	0.935261	0.621211	0.633663	0.659122	0.445548	0.436380
05/05/2034	0.933846	0.619764	0.632618	0.658516	0.442220	0.425911
06/05/2034	0.936814	0.620660	0.633933	0.659011	0.448844	0.433550
07/05/2034	0.941632	0.624306	0.637033	0.660705	0.457613	0.450141
08/05/2034	0.944226	0.628084	0.639547	0.662512	0.462054	0.458706
09/05/2034	0.944099	0.629530	0.640236	0.663428	0.461100	0.455649
10/05/2034	0.942582	0.628344	0.639288	0.663195	0.456102	0.440010
11/05/2034	0.940736	0.625795	0.637437	0.662173	0.449785	0.419038
12/05/2034	0.938904	0.623078	0.635279	0.660852	0.443248	0.397876
13/05/2034	0.937077	0.620637	0.633089	0.659531	0.436923	0.378676
14/05/2034	0.935203	0.618416	0.630924	0.658285	0.430911	0.361953
15/05/2034	0.933259	0.616268	0.628765	0.657076	0.425126	0.347362
16/05/2034	0.932029	0.615014	0.627274	0.656103	0.426443	0.358964
17/05/2034	0.930841	0.614115	0.626252	0.655396	0.423119	0.356081
18/05/2034	0.929278	0.613047	0.625089	0.654747	0.420601	0.352626
19/05/2034	0.927426	0.611913	0.623772	0.653987	0.420425	0.359669
20/05/2034	0.925503	0.610603	0.622426	0.653136	0.417459	0.357231
21/05/2034	0.924558	0.609927	0.621679	0.652508	0.420175	0.372271
22/05/2034	0.923728	0.609390	0.621216	0.652106	0.417760	0.369871
23/05/2034	0.922440	0.608368	0.620359	0.651657	0.413793	0.359578
24/05/2034	0.920729	0.606668	0.618916	0.650924	0.408395	0.345433
25/05/2034	0.918819	0.604571	0.617087	0.649899	0.402614	0.330826
26/05/2034	0.916855	0.602419	0.615119	0.648726	0.396991	0.317752
27/05/2034	0.914872	0.600361	0.613140	0.647535	0.391628	0.306524
28/05/2034	0.912867	0.598389	0.611182	0.646373	0.386466	0.296758
29/05/2034	0.916057	0.599490	0.612414	0.646788	0.393677	0.311809
30/05/2034	0.922441	0.604446	0.616479	0.649012	0.406544	0.336940
31/05/2034	0.926405	0.609662	0.619921	0.651530	0.410414	0.341064
01/06/2034	0.926720	0.612085	0.620890	0.652856	0.411088	0.342195
02/06/2034	0.924994	0.611315	0.619839	0.652647	0.407036	0.335347
03/06/2034	0.926377	0.611278	0.620096	0.652519	0.413562	0.347954
04/06/2034	0.928264	0.612713	0.621206	0.652936	0.416182	0.351065

05/06/2034	0.928455	0.613818	0.621556	0.653348	0.414376	0.345063
06/06/2034	0.927056	0.613078	0.620556	0.653127	0.409047	0.330894
07/06/2034	0.924975	0.610773	0.618595	0.652159	0.402669	0.314341
08/06/2034	0.922771	0.607955	0.616268	0.650763	0.396117	0.298309
09/06/2034	0.920572	0.605291	0.613918	0.649289	0.389871	0.284091
10/06/2034	0.918352	0.602881	0.611636	0.647892	0.383956	0.271790
11/06/2034	0.916095	0.600631	0.609422	0.646574	0.378604	0.262099
12/06/2034	0.913827	0.598862	0.607455	0.645337	0.377639	0.267174
13/06/2034	0.911573	0.597112	0.605677	0.644202	0.372314	0.261688
14/06/2034	0.909322	0.595155	0.603833	0.643095	0.367842	0.254847
15/06/2034	0.907076	0.593328	0.602007	0.641963	0.365952	0.256963
16/06/2034	0.904840	0.591457	0.600239	0.640835	0.360593	0.250436
17/06/2034	0.902605	0.589454	0.598404	0.639707	0.355803	0.242745
18/06/2034	0.900358	0.587342	0.596475	0.638543	0.350660	0.234652
19/06/2034	0.898095	0.585209	0.594501	0.637340	0.345469	0.226750
20/06/2034	0.895844	0.583536	0.592727	0.636168	0.344697	0.233046
21/06/2034	0.893629	0.581933	0.591142	0.635103	0.339763	0.229532
22/06/2034	0.891440	0.580155	0.589509	0.634087	0.335630	0.224451
23/06/2034	0.889254	0.578196	0.587753	0.633024	0.330967	0.218261
24/06/2034	0.887526	0.576974	0.586452	0.632063	0.332975	0.234423
25/06/2034	0.885884	0.576016	0.585530	0.631305	0.329881	0.234617
26/06/2034	0.884072	0.574788	0.584449	0.630611	0.326660	0.230722
27/06/2034	0.882089	0.573110	0.583022	0.629780	0.322279	0.224032
28/06/2034	0.881224	0.572327	0.582266	0.629113	0.325955	0.241482
29/06/2034	0.881114	0.572906	0.582627	0.628930	0.331349	0.267474
30/06/2034	0.880846	0.574158	0.583575	0.629182	0.337110	0.294008
01/07/2034	0.879935	0.574545	0.584125	0.629450	0.336125	0.295998
02/07/2034	0.878520	0.573590	0.583749	0.629308	0.332913	0.287452
03/07/2034	0.879704	0.573868	0.584433	0.629454	0.340736	0.299676
04/07/2034	0.888485	0.579088	0.590075	0.632195	0.354383	0.321073
05/07/2034	0.900548	0.588812	0.598872	0.637417	0.371496	0.347813
06/07/2034	0.913834	0.600769	0.609073	0.644173	0.389212	0.375448
07/07/2034	0.922122	0.610068	0.616372	0.649792	0.396798	0.384547
08/07/2034	0.924402	0.613898	0.619043	0.652559	0.396288	0.379112
09/07/2034	0.923287	0.612893	0.618256	0.652627	0.390839	0.361813
10/07/2034	0.921191	0.609698	0.615965	0.651206	0.384885	0.342826
11/07/2034	0.919107	0.606386	0.613466	0.649450	0.378866	0.324411
12/07/2034	0.917135	0.603628	0.611179	0.647899	0.373404	0.308240
13/07/2034	0.915166	0.601259	0.609066	0.646582	0.368315	0.294281
14/07/2034	0.913136	0.599085	0.607049	0.645363	0.364309	0.284909
15/07/2034	0.911033	0.596926	0.605067	0.644154	0.359743	0.275344
16/07/2034	0.908864	0.594716	0.603063	0.642923	0.355146	0.265761
17/07/2034	0.906636	0.592473	0.601023	0.641670	0.350502	0.256579
18/07/2034	0.904381	0.590478	0.599083	0.640432	0.348238	0.255597
19/07/2034	0.902120	0.588534	0.597253	0.639254	0.343632	0.249356
20/07/2034	0.899857	0.586514	0.595408	0.638109	0.339482	0.242553
21/07/2034	0.897585	0.584413	0.593510	0.636947	0.335061	0.235478
22/07/2034	0.895304	0.582324	0.591601	0.635759	0.330797	0.229217

23/07/2034	0.893017	0.580273	0.589711	0.634568	0.326387	0.223001
24/07/2034	0.896921	0.581697	0.591598	0.635259	0.334665	0.241945
25/07/2034	0.901677	0.585692	0.595080	0.637306	0.339945	0.256292
26/07/2034	0.903346	0.589173	0.597238	0.639109	0.343267	0.270652
27/07/2034	0.902261	0.590171	0.597404	0.639679	0.344107	0.281824
28/07/2034	0.900140	0.589195	0.596424	0.639123	0.344617	0.292135
29/07/2034	0.897989	0.587181	0.595026	0.638060	0.340451	0.286362
30/07/2034	0.897401	0.586157	0.594418	0.637297	0.345226	0.301820
31/07/2034	0.897023	0.586289	0.594533	0.637001	0.348936	0.316481
01/08/2034	0.896014	0.586188	0.594497	0.636873	0.346947	0.312786
02/08/2034	0.894448	0.585283	0.593858	0.636521	0.346062	0.310667
03/08/2034	0.892653	0.583614	0.592736	0.635822	0.342034	0.301280
04/08/2034	0.891435	0.582429	0.591925	0.635088	0.344443	0.312933
05/08/2034	0.890314	0.581552	0.591429	0.634523	0.342370	0.310452
06/08/2034	0.888930	0.580475	0.590728	0.634018	0.339697	0.302873
07/08/2034	0.887290	0.578986	0.589640	0.633371	0.336342	0.293779
08/08/2034	0.885522	0.577187	0.588275	0.632528	0.331984	0.282235
09/08/2034	0.883718	0.575383	0.586812	0.631573	0.328586	0.273974
10/08/2034	0.881908	0.573707	0.585371	0.630612	0.325257	0.267485
11/08/2034	0.881402	0.573216	0.584866	0.630046	0.329534	0.283852
12/08/2034	0.881017	0.573517	0.585012	0.629889	0.331594	0.294132
13/08/2034	0.882484	0.575248	0.586463	0.630481	0.341020	0.316011
14/08/2034	0.883679	0.577341	0.588113	0.631392	0.345609	0.324602
15/08/2034	0.883478	0.578214	0.588758	0.631958	0.344127	0.317870
16/08/2034	0.882208	0.577372	0.588187	0.631821	0.340316	0.305339
17/08/2034	0.880531	0.575469	0.586875	0.631082	0.335439	0.291278
18/08/2034	0.878812	0.573402	0.585341	0.630078	0.331051	0.279707
19/08/2034	0.882674	0.574695	0.587203	0.630734	0.338956	0.293469
20/08/2034	0.887261	0.578262	0.590441	0.632646	0.341732	0.295491
21/08/2034	0.889015	0.580983	0.592223	0.634301	0.340829	0.290301
22/08/2034	0.892344	0.583747	0.594443	0.635915	0.349618	0.305631
23/08/2034	0.895119	0.586212	0.596441	0.637262	0.351198	0.304116
24/08/2034	0.898819	0.589598	0.598973	0.638799	0.362016	0.321463
25/08/2034	0.902626	0.593758	0.601918	0.640553	0.372799	0.345085
26/08/2034	0.904291	0.596621	0.603845	0.641925	0.374610	0.345821
27/08/2034	0.903760	0.596934	0.603992	0.642370	0.372067	0.335922
28/08/2034	0.902105	0.595159	0.602765	0.641843	0.367005	0.320878
29/08/2034	0.900174	0.592588	0.600939	0.640732	0.361499	0.305316
30/08/2034	0.898267	0.590117	0.599024	0.639475	0.356370	0.291652
31/08/2034	0.896389	0.587953	0.597181	0.638293	0.351675	0.280141
01/09/2034	0.894511	0.586241	0.595540	0.637235	0.349840	0.279997
02/09/2034	0.892632	0.584717	0.594113	0.636296	0.346643	0.278357
03/09/2034	0.890759	0.583213	0.592777	0.635429	0.344129	0.277617
04/09/2034	0.888904	0.581827	0.591532	0.634594	0.342944	0.281549
05/09/2034	0.887078	0.580465	0.590369	0.633790	0.340431	0.282077
06/09/2034	0.885281	0.579055	0.589212	0.633006	0.337953	0.281089
07/09/2034	0.883504	0.577573	0.588017	0.632215	0.335113	0.278663
08/09/2034	0.881741	0.576102	0.586809	0.631409	0.332626	0.277134

09/09/2034	0.887450	0.578415	0.590040	0.632860	0.340997	0.294230
10/09/2034	0.895080	0.584105	0.595534	0.636093	0.350262	0.319520
11/09/2034	0.898991	0.589189	0.599470	0.639106	0.352998	0.328909
12/09/2034	0.899029	0.590917	0.600492	0.640470	0.352071	0.328866
13/09/2034	0.897318	0.589673	0.599485	0.640146	0.348854	0.322729
14/09/2034	0.895341	0.587418	0.597823	0.638972	0.346267	0.318508
15/09/2034	0.899448	0.588515	0.599773	0.639497	0.354135	0.332355
16/09/2034	0.904457	0.592339	0.603327	0.641482	0.359645	0.342718
17/09/2034	0.906492	0.595464	0.605492	0.643317	0.359727	0.342115
18/09/2034	0.905797	0.595870	0.605453	0.643876	0.357497	0.336535
19/09/2034	0.903979	0.594140	0.604033	0.643188	0.354014	0.328622
20/09/2034	0.902023	0.591777	0.602224	0.641926	0.350429	0.320677
21/09/2034	0.900160	0.589671	0.600518	0.640663	0.347331	0.314457
22/09/2034	0.898350	0.587904	0.598983	0.639589	0.344271	0.308725
23/09/2034	0.897212	0.586994	0.598100	0.638849	0.346806	0.322775
24/09/2034	0.896147	0.586392	0.597630	0.638377	0.345653	0.325117
25/09/2034	0.894797	0.585796	0.597126	0.637966	0.346769	0.332157
26/09/2034	0.893316	0.585185	0.596612	0.637513	0.348249	0.344066
27/09/2034	0.891801	0.584266	0.596022	0.637008	0.346618	0.342703
28/09/2034	0.891885	0.584162	0.596189	0.636834	0.351953	0.357264
29/09/2034	0.892243	0.584951	0.596957	0.637010	0.356668	0.373584
30/09/2034	0.892509	0.586146	0.598055	0.637446	0.361726	0.392618
01/10/2034	0.892717	0.587247	0.599319	0.638010	0.366297	0.412352
02/10/2034	0.892402	0.587659	0.600260	0.638452	0.367112	0.418741
03/10/2034	0.891560	0.587244	0.600567	0.638574	0.366342	0.417798
04/10/2034	0.890451	0.586242	0.600329	0.638354	0.364501	0.412743
05/10/2034	0.889289	0.585032	0.599805	0.637913	0.362556	0.407019
06/10/2034	0.888152	0.583860	0.599198	0.637402	0.360743	0.402043
07/10/2034	0.887037	0.582801	0.598600	0.636908	0.359278	0.398676
08/10/2034	0.886150	0.582125	0.598249	0.636526	0.360380	0.405426
09/10/2034	0.885302	0.581574	0.598069	0.636259	0.359611	0.406011
10/10/2034	0.884367	0.580900	0.597809	0.636015	0.358675	0.404295
11/10/2034	0.883351	0.580082	0.597407	0.635705	0.357807	0.403002
12/10/2034	0.885111	0.580949	0.598532	0.636075	0.365791	0.413808
13/10/2034	0.887708	0.583533	0.600721	0.637140	0.373600	0.430051
14/10/2034	0.888947	0.585984	0.602570	0.638298	0.376772	0.437555
15/10/2034	0.888699	0.586874	0.603373	0.638972	0.377041	0.438987
16/10/2034	0.887760	0.586242	0.603282	0.639010	0.375313	0.434833
17/10/2034	0.886710	0.584956	0.602744	0.638628	0.373153	0.428444
18/10/2034	0.886082	0.584077	0.602398	0.638223	0.374083	0.433292
19/10/2034	0.889411	0.585811	0.604543	0.639071	0.383076	0.446527
20/10/2034	0.893089	0.589354	0.607659	0.640823	0.390470	0.459233
21/10/2034	0.898179	0.594253	0.611801	0.643387	0.402014	0.473961
22/10/2034	0.901800	0.598531	0.615214	0.645778	0.407789	0.478313
23/10/2034	0.909650	0.603965	0.620721	0.649188	0.418088	0.488177
24/10/2034	0.920093	0.611505	0.627980	0.653743	0.432049	0.501623
25/10/2034	0.926835	0.618397	0.633468	0.657798	0.438467	0.503558
26/10/2034	0.928682	0.621747	0.635557	0.659978	0.438766	0.497292

27/10/2034	0.927830	0.621480	0.635122	0.660204	0.436909	0.490306
28/10/2034	0.928790	0.620996	0.635122	0.659985	0.442175	0.495504
29/10/2034	0.930043	0.621441	0.635677	0.660044	0.444331	0.493547
30/10/2034	0.932550	0.623407	0.637227	0.660836	0.452261	0.502431
31/10/2034	0.938632	0.627893	0.641237	0.663105	0.464872	0.517394
01/11/2034	0.945776	0.634140	0.646435	0.666372	0.477565	0.534605
02/11/2034	0.952922	0.641097	0.651931	0.670050	0.493346	0.551526
03/11/2034	0.956835	0.646224	0.655638	0.672892	0.503807	0.559512
04/11/2034	0.957314	0.647877	0.656816	0.674171	0.505082	0.558068
05/11/2034	0.955994	0.646494	0.656191	0.674044	0.501203	0.552759
06/11/2034	0.956696	0.645244	0.656174	0.673788	0.503456	0.557303
07/11/2034	0.957670	0.645090	0.656652	0.673842	0.503576	0.557028
08/11/2034	0.957504	0.645104	0.656765	0.673949	0.502447	0.556050
09/11/2034	0.956324	0.644203	0.656209	0.673756	0.499220	0.551897
10/11/2034	0.954754	0.642386	0.655180	0.673180	0.495598	0.546840
11/11/2034	0.954921	0.641232	0.654905	0.672800	0.497597	0.552473
12/11/2034	0.955204	0.640898	0.655075	0.672713	0.498333	0.556014
13/11/2034	0.954597	0.640526	0.654985	0.672654	0.497329	0.556581
14/11/2034	0.953910	0.639855	0.654781	0.672525	0.497430	0.563152
15/11/2034	0.953002	0.638826	0.654451	0.672265	0.495819	0.565218
16/11/2034	0.952683	0.638028	0.654394	0.672079	0.496843	0.573925
17/11/2034	0.953096	0.637874	0.654875	0.672168	0.499595	0.587398
18/11/2034	0.953015	0.637820	0.655311	0.672344	0.499781	0.593283
19/11/2034	0.952109	0.637215	0.655205	0.672316	0.497988	0.591938
20/11/2034	0.950729	0.635930	0.654558	0.671954	0.495180	0.586819
21/11/2034	0.949251	0.634267	0.653617	0.671338	0.491960	0.579934
22/11/2034	0.947823	0.632507	0.652577	0.670622	0.488415	0.571237
23/11/2034	0.946445	0.630780	0.651510	0.669898	0.485029	0.562488
24/11/2034	0.945652	0.629516	0.650811	0.669341	0.484359	0.564711
25/11/2034	0.949064	0.630839	0.652717	0.670123	0.493096	0.574569
26/11/2034	0.954949	0.635100	0.656634	0.672319	0.507466	0.590205
27/11/2034	0.969230	0.641582	0.661848	0.675620	0.528640	0.598940
28/11/2034	0.980797	0.647166	0.665699	0.678546	0.536350	0.598618
29/11/2034	0.984714	0.649578	0.666972	0.680001	0.532964	0.593311
30/11/2034	0.983883	0.649257	0.666601	0.680075	0.527659	0.594748
01/12/2034	0.982304	0.648184	0.666108	0.679629	0.524703	0.598869
02/12/2034	0.981904	0.647743	0.666201	0.679386	0.524331	0.599426
03/12/2034	0.981495	0.647717	0.666428	0.679383	0.523161	0.599426
04/12/2034	0.980285	0.647316	0.666236	0.679305	0.519791	0.597535
05/12/2034	0.978478	0.646243	0.665521	0.678934	0.515327	0.593902
06/12/2034	0.976686	0.644896	0.664622	0.678345	0.512025	0.594010
07/12/2034	0.975604	0.643919	0.664102	0.677854	0.511042	0.598744
08/12/2034	0.974525	0.643164	0.663752	0.677510	0.508592	0.597842
09/12/2034	0.973075	0.642256	0.663200	0.677157	0.505698	0.594376
10/12/2034	0.971353	0.640978	0.662340	0.676654	0.501847	0.587741
11/12/2034	0.969562	0.639480	0.661292	0.675996	0.498438	0.582042
12/12/2034	0.967803	0.637944	0.660200	0.675267	0.495046	0.576458
13/12/2034	0.966091	0.636457	0.659124	0.674542	0.491956	0.571429

14/12/2034	0.964411	0.634995	0.658062	0.673839	0.488845	0.566036
15/12/2034	0.963142	0.633830	0.657261	0.673254	0.487776	0.568245
16/12/2034	0.962569	0.633251	0.657030	0.672943	0.488398	0.576916
17/12/2034	0.962970	0.633504	0.657577	0.673074	0.491367	0.592151
18/12/2034	0.963647	0.634316	0.658554	0.673542	0.494396	0.599099
19/12/2034	0.963438	0.634762	0.659140	0.673937	0.494139	0.596494
20/12/2034	0.962289	0.634286	0.658949	0.673936	0.492025	0.590356
21/12/2034	0.960703	0.633025	0.658156	0.673506	0.489060	0.583531
22/12/2034	0.959063	0.631436	0.657099	0.672825	0.485846	0.576447
23/12/2034	0.957494	0.629857	0.656001	0.672081	0.482837	0.569871
24/12/2034	0.955990	0.628466	0.654965	0.671377	0.480810	0.567047
25/12/2034	0.954526	0.627236	0.654029	0.670738	0.478975	0.565851
26/12/2034	0.953947	0.626531	0.653643	0.670361	0.479533	0.572737
27/12/2034	0.954936	0.626920	0.654287	0.670527	0.483392	0.586564
28/12/2034	0.956258	0.628126	0.655505	0.671132	0.487385	0.598603
29/12/2034	0.956440	0.628989	0.656308	0.671687	0.487950	0.598495
30/12/2034	0.985899	0.633961	0.661967	0.674967	0.499695	0.598965
31/12/2034	1.002588	0.638886	0.665912	0.677859	0.504055	0.599152
01/01/2035	1.003037	0.640814	0.666576	0.678996	0.502278	0.597983
02/01/2035	1.000458	0.640387	0.665938	0.678777	0.499981	0.595800
03/01/2035	0.999580	0.640477	0.665866	0.678565	0.501607	0.598671
04/01/2035	0.998560	0.641098	0.665936	0.678571	0.501183	0.595859
05/01/2035	0.996942	0.641161	0.665539	0.678430	0.498880	0.591371
06/01/2035	0.994941	0.640717	0.664862	0.678025	0.497683	0.593573
07/01/2035	0.993365	0.640407	0.664494	0.677670	0.497306	0.598910
08/01/2035	0.993063	0.640582	0.664580	0.677553	0.498357	0.599412
09/01/2035	0.992495	0.640726	0.664609	0.677522	0.497000	0.593318
10/01/2035	0.991680	0.640802	0.664609	0.677510	0.497468	0.597594
11/01/2035	0.990265	0.640646	0.664451	0.677402	0.496426	0.598673
12/01/2035	0.988329	0.640108	0.663974	0.677122	0.494339	0.595733
13/01/2035	0.986171	0.639145	0.663163	0.676651	0.491243	0.588780
14/01/2035	0.984010	0.637917	0.662134	0.676033	0.488003	0.580623
15/01/2035	0.981920	0.636646	0.661042	0.675347	0.485051	0.573653
16/01/2035	0.982489	0.637124	0.661526	0.675406	0.491367	0.578012
17/01/2035	0.983379	0.638929	0.662679	0.676033	0.495541	0.581520
18/01/2035	0.983295	0.640585	0.663448	0.676672	0.497483	0.587684
19/01/2035	0.982082	0.640967	0.663424	0.676878	0.496394	0.589704
20/01/2035	0.980281	0.640204	0.662780	0.676587	0.494459	0.589583
21/01/2035	0.978352	0.638867	0.661822	0.675993	0.491103	0.583880
22/01/2035	0.976463	0.637426	0.660744	0.675297	0.487835	0.576460
23/01/2035	0.974628	0.636054	0.659644	0.674601	0.484596	0.568721
24/01/2035	0.972826	0.634754	0.658555	0.673929	0.481493	0.561453
25/01/2035	0.971043	0.633511	0.657490	0.673275	0.478805	0.556031
26/01/2035	0.969278	0.632360	0.656480	0.672639	0.476793	0.553886
27/01/2035	0.967767	0.631447	0.655694	0.672094	0.475884	0.556870
28/01/2035	0.966291	0.630587	0.655014	0.671630	0.473761	0.555502
29/01/2035	0.964715	0.629604	0.654247	0.671164	0.471438	0.551528
30/01/2035	0.963058	0.628453	0.653336	0.670626	0.468771	0.546042

31/01/2035	0.961380	0.627211	0.652333	0.670015	0.466031	0.540293
01/02/2035	0.959711	0.625917	0.651281	0.669363	0.462859	0.533008
02/02/2035	0.958054	0.624599	0.650189	0.668695	0.459735	0.525618
03/02/2035	0.956401	0.623282	0.649069	0.668015	0.456595	0.518523
04/02/2035	0.954749	0.621987	0.647937	0.667328	0.453498	0.511974
06/02/2035	0.951451	0.619486	0.645671	0.665951	0.447476	0.500563
07/02/2035	0.950410	0.618734	0.644964	0.665431	0.447595	0.506693
08/02/2035	0.949358	0.618204	0.644498	0.665065	0.445903	0.508511
09/02/2035	0.948039	0.617690	0.644010	0.664744	0.445285	0.512439
10/02/2035	0.946530	0.616870	0.643343	0.664351	0.442651	0.509696
11/02/2035	0.945882	0.616375	0.643043	0.664073	0.443759	0.517869
12/02/2035	0.948226	0.617950	0.644626	0.664710	0.452074	0.532660
13/02/2035	0.950393	0.620636	0.646666	0.665899	0.456009	0.536572
14/02/2035	0.954126	0.624489	0.649620	0.667761	0.465802	0.546225
15/02/2035	0.956770	0.627939	0.652057	0.669540	0.469207	0.546064
16/02/2035	0.957172	0.629750	0.653025	0.670528	0.470218	0.547628
17/02/2035	0.956046	0.629567	0.652698	0.670591	0.467516	0.543410
18/02/2035	0.954414	0.628184	0.651691	0.670033	0.464616	0.538226
19/02/2035	0.952797	0.626578	0.650536	0.669259	0.462031	0.534059
20/02/2035	0.951833	0.625565	0.649826	0.668670	0.461921	0.539404
21/02/2035	0.951502	0.625342	0.649787	0.668465	0.463035	0.550222
22/02/2035	0.950943	0.625339	0.649923	0.668474	0.463060	0.556157
23/02/2035	0.951202	0.625693	0.650454	0.668724	0.465684	0.566428
24/02/2035	0.951197	0.625950	0.650869	0.668981	0.465264	0.566158
25/02/2035	0.950412	0.625697	0.650728	0.668985	0.463968	0.561772
26/02/2035	0.949088	0.624844	0.650072	0.668659	0.461811	0.555849
27/02/2035	0.949227	0.624544	0.650024	0.668499	0.464119	0.560693
28/02/2035	0.949451	0.624879	0.650362	0.668583	0.465479	0.565189
01/03/2035	0.948867	0.624871	0.650348	0.668652	0.462864	0.556845
02/03/2035	0.947599	0.623954	0.649637	0.668411	0.459136	0.543158
03/03/2035	0.946062	0.622346	0.648402	0.667795	0.454610	0.527643
04/03/2035	0.944494	0.620567	0.646960	0.666959	0.450220	0.513523
05/03/2035	0.942941	0.618901	0.645502	0.666079	0.446040	0.501321
06/03/2035	0.941387	0.617345	0.644064	0.665235	0.441894	0.490120
07/03/2035	0.942923	0.617872	0.644458	0.665273	0.448849	0.495888
08/03/2035	0.947239	0.621412	0.647055	0.666615	0.460168	0.510166
09/03/2035	0.950800	0.626047	0.650049	0.668548	0.468161	0.528769
10/03/2035	0.953475	0.629939	0.652680	0.670425	0.474738	0.547529
11/03/2035	0.954266	0.631673	0.654042	0.671599	0.474263	0.547098
12/03/2035	0.953428	0.631271	0.653892	0.671815	0.470849	0.536313
13/03/2035	0.951805	0.629582	0.652710	0.671259	0.465919	0.521416
14/03/2035	0.950025	0.627644	0.651177	0.670332	0.462215	0.511534
15/03/2035	0.948316	0.625833	0.649663	0.669373	0.457612	0.500218
16/03/2035	0.946676	0.624169	0.648204	0.668495	0.453655	0.490426
17/03/2035	0.945048	0.622539	0.646748	0.667660	0.449492	0.480705
18/03/2035	0.943400	0.620893	0.645262	0.666813	0.445356	0.471417
19/03/2035	0.941725	0.619276	0.643764	0.665940	0.441613	0.464089
20/03/2035	0.940028	0.617675	0.642266	0.665057	0.437563	0.456518

21/03/2035	0.938316	0.616077	0.640762	0.664172	0.433617	0.449358
22/03/2035	0.936590	0.614482	0.639249	0.663284	0.429673	0.442603
23/03/2035	0.934873	0.613172	0.637871	0.662424	0.428551	0.446112
24/03/2035	0.933582	0.612369	0.636982	0.661758	0.428490	0.456094
25/03/2035	0.932371	0.611803	0.636417	0.661298	0.427802	0.463416
26/03/2035	0.931028	0.611213	0.635886	0.660917	0.427538	0.470635
27/03/2035	0.929575	0.610256	0.635180	0.660476	0.424627	0.468290
28/03/2035	0.928091	0.609034	0.634258	0.659907	0.422312	0.465354
29/03/2035	0.929435	0.609496	0.634837	0.659995	0.428791	0.473865
30/03/2035	0.931059	0.611331	0.636118	0.660628	0.432779	0.480663
31/03/2035	0.931270	0.612848	0.636867	0.661220	0.433645	0.484235
01/04/2035	0.930273	0.613016	0.636721	0.661331	0.433411	0.484561
02/04/2035	0.929659	0.612607	0.636495	0.661155	0.435139	0.493563
03/04/2035	0.929080	0.611955	0.636254	0.660891	0.433433	0.487113
04/04/2035	0.928137	0.611058	0.635651	0.660526	0.431213	0.476046
05/04/2035	0.926844	0.609710	0.634555	0.659957	0.426886	0.458762
06/04/2035	0.925373	0.608032	0.633086	0.659162	0.422572	0.441508
07/04/2035	0.923847	0.606444	0.631531	0.658243	0.420085	0.432336
08/04/2035	0.922307	0.605006	0.630049	0.657332	0.416827	0.423302
09/04/2035	0.922454	0.604776	0.629616	0.656903	0.420820	0.433228
10/04/2035	0.922674	0.605121	0.629654	0.656863	0.420377	0.429778
11/04/2035	0.923064	0.605920	0.629983	0.657070	0.424508	0.441722
12/04/2035	0.922796	0.606220	0.630069	0.657205	0.422913	0.437259
13/04/2035	0.921855	0.606021	0.629707	0.657064	0.424130	0.442506
14/04/2035	0.920512	0.605175	0.628942	0.656638	0.421277	0.435351
15/04/2035	0.919028	0.603971	0.627866	0.656001	0.419348	0.429497
16/04/2035	0.917520	0.602490	0.626575	0.655239	0.415102	0.417354
17/04/2035	0.916001	0.600901	0.625130	0.654398	0.411336	0.405538
18/04/2035	0.914457	0.599351	0.623625	0.653515	0.407831	0.395858
19/04/2035	0.912932	0.598227	0.622311	0.652673	0.407816	0.400331
20/04/2035	0.911429	0.597223	0.621184	0.651934	0.405209	0.396232
21/04/2035	0.909930	0.596159	0.620047	0.651248	0.403403	0.393050
22/04/2035	0.908419	0.594919	0.618819	0.650535	0.400397	0.387020
23/04/2035	0.906897	0.593702	0.617575	0.649776	0.398725	0.385077
24/04/2035	0.905367	0.592390	0.616308	0.648999	0.394819	0.376959
25/04/2035	0.903821	0.590987	0.614953	0.648200	0.391538	0.369129
26/04/2035	0.902248	0.589500	0.613506	0.647359	0.387598	0.360015
27/04/2035	0.900643	0.587978	0.611997	0.646477	0.383691	0.351085
28/04/2035	0.899015	0.586558	0.610504	0.645582	0.380814	0.346231
29/04/2035	0.897373	0.585185	0.609056	0.644705	0.377238	0.340324
30/04/2035	0.900072	0.586377	0.610220	0.645108	0.385018	0.354415
01/05/2035	0.903292	0.589347	0.612444	0.646427	0.388760	0.359871
02/05/2035	0.904300	0.591542	0.613546	0.647534	0.387626	0.355122
03/05/2035	0.903319	0.591517	0.612962	0.647678	0.383981	0.345636
04/05/2035	0.901525	0.589797	0.611324	0.646900	0.379214	0.334425
05/05/2035	0.899631	0.587581	0.609376	0.645693	0.374444	0.323784
06/05/2035	0.916100	0.593515	0.618273	0.650210	0.381872	0.336770
07/05/2035	0.935343	0.605614	0.631028	0.658564	0.388435	0.353239

08/05/2035	0.949803	0.618406	0.641718	0.666943	0.400174	0.376579
09/05/2035	0.956132	0.626211	0.646798	0.671986	0.404210	0.381204
10/05/2035	0.956505	0.627890	0.646748	0.673041	0.402947	0.374929
11/05/2035	0.954324	0.625638	0.644048	0.671554	0.398706	0.363403
12/05/2035	0.951622	0.622464	0.640876	0.669286	0.396848	0.361485
13/05/2035	0.949075	0.619859	0.638215	0.667282	0.394880	0.362051
14/05/2035	0.946712	0.617672	0.635972	0.665735	0.391188	0.355598
15/05/2035	0.944401	0.615514	0.633797	0.664385	0.387902	0.347990
16/05/2035	0.942064	0.613480	0.631666	0.663027	0.386570	0.347483
17/05/2035	0.941293	0.612633	0.630609	0.662068	0.390735	0.362822
18/05/2035	0.940620	0.612730	0.630264	0.661543	0.394608	0.377393
19/05/2035	0.942834	0.614793	0.631915	0.662169	0.404765	0.398143
20/05/2035	0.945042	0.617846	0.634135	0.663402	0.412899	0.417025
21/05/2035	0.950917	0.622747	0.638598	0.665970	0.424604	0.436778
22/05/2035	0.958861	0.629521	0.644573	0.669632	0.439406	0.457339
23/05/2035	0.963514	0.635493	0.648951	0.672794	0.447773	0.468586
24/05/2035	0.968379	0.640436	0.653194	0.676647	0.458217	0.482353
25/05/2035	0.974725	0.645729	0.658592	0.681141	0.471873	0.498479
26/05/2035	0.978593	0.650259	0.662894	0.684711	0.477287	0.499301
27/05/2035	0.979652	0.652761	0.664917	0.686373	0.481317	0.508226
28/05/2035	0.978677	0.652435	0.664786	0.686211	0.478491	0.497451
29/05/2035	0.976773	0.650559	0.663438	0.685003	0.478541	0.496337
30/05/2035	0.976052	0.649207	0.662591	0.683890	0.481781	0.504065
31/05/2035	0.975393	0.648321	0.662055	0.683174	0.480622	0.494786
01/06/2035	0.973989	0.646881	0.660936	0.682480	0.475998	0.471399
02/06/2035	0.971900	0.644392	0.658899	0.681388	0.469067	0.441487
03/06/2035	0.969459	0.641197	0.656195	0.679827	0.461197	0.410651
04/06/2035	0.966878	0.637957	0.653239	0.678008	0.454436	0.386174
05/06/2035	0.964220	0.634862	0.650254	0.676158	0.446935	0.362671
06/06/2035	0.961484	0.631867	0.647252	0.674355	0.439811	0.341663
07/06/2035	0.958671	0.628917	0.644237	0.672577	0.432870	0.323225
08/06/2035	0.955794	0.625985	0.641216	0.670799	0.425813	0.306114
09/06/2035	0.952862	0.623078	0.638198	0.669014	0.418870	0.290589
10/06/2035	0.949888	0.620207	0.635193	0.667230	0.412007	0.276554
11/06/2035	0.946881	0.617379	0.632213	0.665455	0.405245	0.263885
12/06/2035	0.943878	0.615013	0.629462	0.663741	0.402901	0.265870
13/06/2035	0.941588	0.613692	0.627603	0.662370	0.404589	0.286048
14/06/2035	0.939476	0.613099	0.626487	0.661410	0.406903	0.304931
15/06/2035	0.937167	0.612048	0.625318	0.660614	0.403105	0.302842
16/06/2035	0.934636	0.610059	0.623554	0.659622	0.397768	0.291651
18/06/2035	0.928662	0.604182	0.618319	0.656481	0.383044	0.260772
19/06/2035	0.926620	0.602067	0.616354	0.655235	0.377833	0.250002
20/06/2035	0.923914	0.599651	0.613888	0.653633	0.373656	0.245259
21/06/2035	0.921223	0.597410	0.611587	0.652158	0.367572	0.236958
22/06/2035	0.918532	0.595122	0.609296	0.650749	0.362055	0.228736
23/06/2035	0.915840	0.592888	0.607026	0.649338	0.357814	0.225104
24/06/2035	0.913154	0.590639	0.604794	0.647926	0.352045	0.217956
25/06/2035	0.913259	0.590504	0.604337	0.647300	0.359842	0.237724

26/06/2035	0.913682	0.591767	0.604782	0.647343	0.362186	0.244947
27/06/2035	0.912749	0.592384	0.604583	0.647365	0.359845	0.241648
28/06/2035	0.910616	0.591277	0.603254	0.646810	0.354890	0.233479
29/06/2035	0.908007	0.588910	0.601190	0.645641	0.348751	0.223288
30/06/2035	0.905360	0.586219	0.598902	0.644166	0.342635	0.213528
01/07/2035	0.902762	0.583527	0.596550	0.642652	0.335291	0.198296
02/07/2035	0.900166	0.580862	0.594103	0.641158	0.328299	0.183083
03/07/2035	0.897536	0.578197	0.591580	0.639651	0.321289	0.168713
04/07/2035	0.894874	0.575712	0.589103	0.638133	0.316114	0.160803
05/07/2035	0.892194	0.573285	0.586694	0.636641	0.309606	0.150860
06/07/2035	0.889501	0.570815	0.584269	0.635166	0.303351	0.140989
07/07/2035	0.886803	0.568480	0.581885	0.633696	0.298935	0.137243
08/07/2035	0.884145	0.566771	0.579842	0.632310	0.298872	0.148124
09/07/2035	0.881547	0.565019	0.578012	0.631070	0.292804	0.143348
10/07/2035	0.879014	0.563440	0.576271	0.629912	0.293163	0.152294
11/07/2035	0.876530	0.561582	0.574515	0.628766	0.287082	0.146231
12/07/2035	0.874062	0.559384	0.572558	0.627550	0.281793	0.137345
13/07/2035	0.871583	0.556990	0.570415	0.626227	0.275900	0.127665
14/07/2035	0.869085	0.554605	0.568207	0.624837	0.270149	0.118863
15/07/2035	0.866576	0.552311	0.566016	0.623443	0.264589	0.111256
16/07/2035	0.864062	0.550074	0.563855	0.622076	0.259081	0.104226
18/07/2035	0.859032	0.545679	0.559585	0.619385	0.248577	0.092323
19/07/2035	0.856522	0.543558	0.557499	0.618057	0.243890	0.088423
20/07/2035	0.854023	0.541465	0.555454	0.616745	0.238873	0.083904
21/07/2035	0.851537	0.539406	0.553441	0.615450	0.234260	0.080241
22/07/2035	0.849069	0.537402	0.551473	0.614173	0.229900	0.077551
23/07/2035	0.846620	0.535415	0.549541	0.612916	0.225258	0.074089
24/07/2035	0.844188	0.533424	0.547625	0.611672	0.220789	0.070736
25/07/2035	0.841773	0.531437	0.545726	0.610434	0.216372	0.067558
26/07/2035	0.839379	0.529554	0.543887	0.609213	0.212823	0.066872
27/07/2035	0.837040	0.528216	0.542339	0.608076	0.213581	0.079310
28/07/2035	0.834771	0.526868	0.540988	0.607070	0.209134	0.078904
29/07/2035	0.832557	0.525361	0.539586	0.606110	0.206996	0.079975
30/07/2035	0.830373	0.523628	0.538069	0.605101	0.202979	0.076870
31/07/2035	0.828232	0.522336	0.536714	0.604080	0.204436	0.088679
01/08/2035	0.826189	0.521685	0.535838	0.603217	0.205910	0.107428
02/08/2035	0.828399	0.523626	0.537769	0.603772	0.216305	0.137677
03/08/2035	0.831210	0.526937	0.540664	0.605292	0.221154	0.151233
04/08/2035	0.832007	0.529306	0.542353	0.606564	0.222621	0.157694
05/08/2035	0.830980	0.529564	0.542444	0.606865	0.221135	0.159207
06/08/2035	0.831926	0.530259	0.543272	0.607044	0.230487	0.180228
07/08/2035	0.833120	0.531845	0.544670	0.607486	0.234749	0.189805
08/08/2035	0.833118	0.533123	0.545544	0.607924	0.236148	0.194191
09/08/2035	0.832034	0.533075	0.545519	0.607966	0.234829	0.193966
10/08/2035	0.830533	0.532002	0.544920	0.607540	0.233400	0.194156
11/08/2035	0.830234	0.531628	0.544992	0.607199	0.238406	0.213683
12/08/2035	0.842212	0.537406	0.552755	0.610915	0.250837	0.241368
13/08/2035	0.856378	0.547742	0.563468	0.617461	0.263528	0.272507

14/08/2035	0.863953	0.556527	0.570891	0.623204	0.269658	0.288058
15/08/2035	0.865188	0.559853	0.573337	0.625903	0.269148	0.285538
16/08/2035	0.866327	0.560630	0.574181	0.626503	0.278458	0.299420
17/08/2035	0.868168	0.561903	0.575465	0.626646	0.287737	0.320214
18/08/2035	0.869019	0.563244	0.576694	0.626972	0.289691	0.320288
19/08/2035	0.868529	0.563787	0.577202	0.627219	0.293026	0.326924
20/08/2035	0.867347	0.563265	0.577093	0.627105	0.293278	0.328531
21/08/2035	0.869588	0.564272	0.578752	0.627666	0.302511	0.342760
22/08/2035	0.872252	0.566406	0.581014	0.628793	0.305751	0.338715
23/08/2035	0.885605	0.573618	0.589610	0.633574	0.317890	0.352394
24/08/2035	0.901639	0.584801	0.600885	0.640805	0.332731	0.372195
25/08/2035	0.911513	0.595007	0.609218	0.647148	0.344634	0.395092
26/08/2035	0.914195	0.599819	0.612503	0.650415	0.346329	0.392370
27/08/2035	0.917116	0.601930	0.614456	0.651829	0.356286	0.403641
28/08/2035	0.919562	0.603411	0.615968	0.652507	0.360884	0.404353
29/08/2035	0.920072	0.604228	0.616487	0.652771	0.362176	0.400446
30/08/2035	0.918963	0.603629	0.615860	0.652510	0.360713	0.391752
31/08/2035	0.917212	0.601928	0.614543	0.651733	0.359497	0.384880
01/09/2035	0.915388	0.599734	0.612984	0.650672	0.356193	0.372998
02/09/2035	0.913617	0.597925	0.611554	0.649591	0.357263	0.375444
03/09/2035	0.911864	0.596310	0.610293	0.648633	0.354797	0.368096
04/09/2035	0.910085	0.594623	0.608978	0.647748	0.352602	0.359029
05/09/2035	0.908254	0.592759	0.607517	0.646826	0.349612	0.348300
06/09/2035	0.906364	0.590806	0.605947	0.645829	0.346421	0.337415
07/09/2035	0.904421	0.588870	0.604330	0.644787	0.343217	0.327387
08/09/2035	0.902440	0.587012	0.602714	0.643744	0.340293	0.319199
09/09/2035	0.900437	0.585251	0.601136	0.642725	0.337647	0.312903
10/09/2035	0.898426	0.583563	0.599608	0.641737	0.335079	0.307626
11/09/2035	0.896420	0.582002	0.598161	0.640785	0.333416	0.305802
12/09/2035	0.894446	0.580726	0.596900	0.639898	0.333444	0.310708
13/09/2035	0.901922	0.583955	0.601321	0.641975	0.342247	0.328959
14/09/2035	0.910740	0.590052	0.607597	0.645964	0.345887	0.332098
15/09/2035	0.914709	0.594737	0.611161	0.649202	0.346021	0.328590
16/09/2035	0.914249	0.595653	0.611203	0.650193	0.343300	0.321021
17/09/2035	0.911991	0.593767	0.609262	0.649276	0.339884	0.313093
18/09/2035	0.909546	0.591068	0.606888	0.647609	0.336332	0.305437
19/09/2035	0.907285	0.588676	0.604742	0.646026	0.333117	0.298830
20/09/2035	0.905134	0.586711	0.602870	0.644741	0.330101	0.293046
21/09/2035	0.903029	0.585192	0.601261	0.643665	0.329695	0.296204
22/09/2035	0.904193	0.585905	0.601786	0.643602	0.338327	0.314574
23/09/2035	0.905743	0.588170	0.603267	0.644280	0.344633	0.328064
24/09/2035	0.913385	0.593619	0.608571	0.647216	0.356377	0.349799
25/09/2035	0.923989	0.601976	0.616264	0.651986	0.371814	0.374376
26/09/2035	0.930431	0.609228	0.621885	0.656248	0.377284	0.376995
27/09/2035	0.931544	0.612231	0.623548	0.658268	0.376794	0.369575
28/09/2035	0.931387	0.612383	0.623336	0.658422	0.380808	0.379297
29/09/2035	0.933246	0.613222	0.624184	0.658448	0.390647	0.397502
30/09/2035	0.934685	0.614935	0.625466	0.658877	0.395296	0.402242

01/10/2035	0.935869	0.616894	0.626792	0.659618	0.401898	0.417437
02/10/2035	0.939782	0.620112	0.629813	0.661251	0.413029	0.436061
03/10/2035	0.942954	0.623599	0.632865	0.663128	0.419083	0.445028
04/10/2035	0.943513	0.625455	0.634281	0.664305	0.419582	0.444129
05/10/2035	0.944757	0.626642	0.635454	0.665065	0.426548	0.453460
06/10/2035	0.948391	0.629333	0.637980	0.666276	0.438873	0.468736
07/10/2035	0.950958	0.632535	0.640407	0.667678	0.444500	0.471934
08/10/2035	0.951060	0.634126	0.641363	0.668536	0.445091	0.468738
09/10/2035	0.951351	0.634515	0.641864	0.668924	0.448870	0.476177
10/10/2035	0.952274	0.634988	0.642755	0.669247	0.453640	0.490150
11/10/2035	0.965875	0.637878	0.646060	0.670800	0.464395	0.507402
12/10/2035	0.978849	0.641747	0.649577	0.672962	0.469240	0.510113
13/10/2035	0.983683	0.644099	0.651253	0.674463	0.469742	0.505762
14/10/2035	0.982321	0.643910	0.650986	0.674706	0.467091	0.496506
15/10/2035	0.978840	0.642052	0.649675	0.673970	0.463572	0.485933
16/10/2035	0.975478	0.639878	0.648146	0.672869	0.460786	0.478370
17/10/2035	0.973975	0.638849	0.647528	0.672161	0.463006	0.485522
18/10/2035	0.972997	0.638878	0.647633	0.671956	0.465471	0.495557
19/10/2035	0.971541	0.638981	0.647745	0.671937	0.466525	0.501254
20/10/2035	0.969594	0.638518	0.647500	0.671775	0.466825	0.506136
21/10/2035	0.967474	0.637375	0.646887	0.671355	0.465099	0.502760
22/10/2035	0.974105	0.639094	0.649756	0.672658	0.472479	0.510176
23/10/2035	1.004275	0.646907	0.658274	0.676946	0.487055	0.524656
24/10/2035	1.031164	0.656576	0.666243	0.682003	0.493825	0.525899
25/10/2035	1.042297	0.663219	0.670186	0.685449	0.499424	0.535174
26/10/2035	1.041565	0.665048	0.670521	0.686513	0.498602	0.533965
27/10/2035	1.036587	0.663789	0.669088	0.685912	0.496117	0.530464
28/10/2035	1.031585	0.661569	0.667259	0.684711	0.491722	0.521640
29/10/2035	1.027477	0.659457	0.665530	0.683532	0.487366	0.510974
30/10/2035	1.023987	0.657621	0.663941	0.682510	0.483278	0.500431
31/10/2035	1.020781	0.656001	0.662461	0.681583	0.480298	0.493694
01/11/2035	1.018142	0.654845	0.661411	0.680827	0.479698	0.498904
02/11/2035	1.015586	0.654020	0.660725	0.680249	0.479001	0.506051
03/11/2035	1.012851	0.653062	0.660077	0.679750	0.477111	0.508984
04/11/2035	1.009987	0.651590	0.659227	0.679186	0.474367	0.507185
05/11/2035	1.007121	0.649672	0.658181	0.678479	0.471785	0.504801
06/11/2035	1.004323	0.647607	0.657050	0.677668	0.468862	0.501366
07/11/2035	1.001601	0.645646	0.655897	0.676831	0.465824	0.497246
08/11/2035	0.998946	0.643910	0.654776	0.676021	0.463595	0.495941
09/11/2035	0.996352	0.642288	0.653718	0.675255	0.461179	0.494782
10/11/2035	0.998563	0.643201	0.655408	0.675889	0.468284	0.504847
11/11/2035	1.001828	0.646228	0.658399	0.677578	0.474370	0.519158
12/11/2035	1.003323	0.649200	0.660799	0.679276	0.478684	0.535001
13/11/2035	1.002488	0.650245	0.661722	0.680147	0.479053	0.542791
14/11/2035	1.002159	0.650295	0.662302	0.680482	0.482444	0.553543
15/11/2035	1.001999	0.650366	0.662929	0.680657	0.485377	0.565493
16/11/2035	1.005668	0.651475	0.664644	0.681923	0.491673	0.580260
17/11/2035	1.027772	0.656287	0.671552	0.688249	0.506687	0.598417

18/11/2035	1.048645	0.663040	0.680332	0.696758	0.513480	0.597670
19/11/2035	1.057157	0.668324	0.686401	0.702921	0.514520	0.596732
20/11/2035	1.056284	0.670190	0.688376	0.704859	0.511948	0.598224
21/11/2035	1.052024	0.669123	0.687517	0.703674	0.506706	0.593176
22/11/2035	1.069569	0.670854	0.691617	0.707900	0.514602	0.598821
23/11/2035	1.089782	0.676000	0.699215	0.715934	0.518887	0.598467
24/11/2035	1.100198	0.682297	0.706060	0.722751	0.525425	0.599904
25/11/2035	1.103504	0.687159	0.709793	0.725584	0.531932	0.600591
26/11/2035	1.113427	0.691639	0.713386	0.728278	0.545964	0.600847
27/11/2035	1.121766	0.695579	0.716671	0.731074	0.549989	0.599094
28/11/2035	1.123560	0.698227	0.718506	0.732636	0.549013	0.600546
29/11/2035	1.120166	0.698796	0.718303	0.732264	0.542740	0.599522
30/11/2035	1.114869	0.697639	0.716575	0.730351	0.535686	0.598747
01/12/2035	1.112191	0.696879	0.715187	0.728036	0.538288	0.600364
02/12/2035	1.111452	0.697632	0.714822	0.726377	0.544573	0.600791
03/12/2035	1.110302	0.699104	0.714839	0.725475	0.547947	0.600944
04/12/2035	1.107497	0.699765	0.714337	0.724731	0.545488	0.600462
05/12/2035	1.104049	0.699327	0.713340	0.723773	0.542484	0.600723
06/12/2035	1.113789	0.700494	0.715126	0.725942	0.551431	0.600882
07/12/2035	1.124927	0.703624	0.718829	0.729922	0.557511	0.601060
08/12/2035	1.129254	0.706941	0.721943	0.732985	0.558935	0.601278
09/12/2035	1.127108	0.708297	0.722770	0.733666	0.553571	0.599183
10/12/2035	1.127225	0.708604	0.722850	0.733353	0.555359	0.600831
11/12/2035	1.129553	0.709568	0.723568	0.733200	0.561004	0.601312
12/12/2035	1.129610	0.710849	0.724092	0.733075	0.561481	0.601336
13/12/2035	1.126554	0.711074	0.723489	0.732414	0.555553	0.598877
14/12/2035	1.121925	0.709787	0.721776	0.731000	0.547396	0.595959
15/12/2035	1.121900	0.709420	0.721693	0.731376	0.552882	0.600315
16/12/2035	1.122703	0.710449	0.722920	0.732945	0.555397	0.600845
17/12/2035	1.121239	0.711377	0.723654	0.733959	0.551507	0.597614
18/12/2035	1.117710	0.710899	0.722916	0.733473	0.544784	0.594939
19/12/2035	1.113426	0.709075	0.721021	0.731719	0.537505	0.592504
20/12/2035	1.109179	0.706715	0.718711	0.729481	0.531057	0.590147
21/12/2035	1.105140	0.704444	0.716450	0.727343	0.525903	0.588772
22/12/2035	1.101263	0.702454	0.714372	0.725477	0.522101	0.589773
23/12/2035	1.097501	0.700568	0.712413	0.723803	0.518005	0.587929
24/12/2035	1.093826	0.698646	0.710477	0.722197	0.514167	0.584702
25/12/2035	1.090223	0.696668	0.708535	0.720597	0.510401	0.580715
26/12/2035	1.086688	0.694717	0.706623	0.719009	0.507202	0.578227
27/12/2035	1.083225	0.692852	0.704783	0.717470	0.504508	0.577379
28/12/2035	1.079836	0.691027	0.703009	0.715995	0.501683	0.575715
29/12/2035	1.078470	0.690279	0.702275	0.715044	0.505170	0.585961
30/12/2035	1.080130	0.692110	0.703534	0.714957	0.519621	0.599647
31/12/2035	1.082186	0.695548	0.705472	0.715515	0.532691	0.600810
01/01/2036	1.082713	0.698544	0.706912	0.716210	0.539610	0.600769
02/01/2036	1.081128	0.699534	0.707146	0.716428	0.538259	0.600157
03/01/2036	1.078685	0.698838	0.706488	0.716037	0.535047	0.600462
04/01/2036	1.075884	0.697261	0.705263	0.715179	0.528534	0.594481

05/01/2036	1.073348	0.695840	0.703988	0.714179	0.524924	0.598496
06/01/2036	1.091134	0.698297	0.708757	0.720828	0.534825	0.600454
07/01/2036	1.112338	0.704713	0.718214	0.731964	0.546055	0.600939
08/01/2036	1.123078	0.711707	0.726715	0.740914	0.551839	0.601378
09/01/2036	1.133766	0.718011	0.733974	0.748572	0.563540	0.601746
10/01/2036	1.142396	0.723329	0.740002	0.754260	0.572557	0.602002
11/01/2036	1.147249	0.727480	0.744073	0.757009	0.577252	0.602188
12/01/2036	1.146945	0.729310	0.745070	0.756800	0.571925	0.598256
13/01/2036	1.143517	0.728906	0.743656	0.754631	0.565629	0.601257
14/01/2036	1.138948	0.727058	0.741151	0.751754	0.556486	0.599840
15/01/2036	1.135069	0.725266	0.738880	0.749157	0.552769	0.601166
16/01/2036	1.135180	0.725433	0.738430	0.748134	0.560800	0.601710
17/01/2036	1.157772	0.730502	0.744360	0.754650	0.577619	0.601951
18/01/2036	1.181411	0.739082	0.753948	0.764925	0.591315	0.602297
19/01/2036	1.191999	0.747085	0.761629	0.772721	0.596473	0.602665
20/01/2036	1.190834	0.751027	0.764236	0.775079	0.591301	0.601883
21/01/2036	1.184672	0.750752	0.762635	0.772981	0.582510	0.602148
22/01/2036	1.179034	0.748802	0.759798	0.769313	0.577547	0.602330
23/01/2036	1.174150	0.746847	0.757066	0.765945	0.571272	0.601049
24/01/2036	1.169474	0.745293	0.754577	0.763274	0.566063	0.601826
25/01/2036	1.164720	0.743711	0.752096	0.760948	0.559667	0.601118
26/01/2036	1.159941	0.741904	0.749517	0.758630	0.554180	0.601442
27/01/2036	1.155229	0.739773	0.746830	0.756235	0.546820	0.596908
28/01/2036	1.150617	0.737441	0.744053	0.753803	0.539664	0.591263
29/01/2036	1.146106	0.735053	0.741255	0.751399	0.532871	0.585009
30/01/2036	1.141696	0.732695	0.738497	0.749065	0.526767	0.578716
31/01/2036	1.137385	0.730412	0.735817	0.746817	0.521617	0.573905
01/02/2036	1.133174	0.728239	0.733248	0.744661	0.517427	0.571637
02/02/2036	1.129061	0.726125	0.730785	0.742595	0.513400	0.569202
03/02/2036	1.125048	0.724110	0.728434	0.740615	0.510474	0.569837
04/02/2036	1.121135	0.722153	0.726189	0.738716	0.507324	0.569519
05/02/2036	1.117315	0.720139	0.724010	0.736888	0.504299	0.568177
06/02/2036	1.113584	0.717996	0.721877	0.735112	0.501509	0.566827
07/02/2036	1.109939	0.715866	0.719837	0.733391	0.499697	0.569113
08/02/2036	1.107358	0.714372	0.718443	0.731982	0.500576	0.582422
09/02/2036	1.107001	0.714505	0.718476	0.731362	0.507466	0.599922
10/02/2036	1.109711	0.717097	0.720202	0.731512	0.525473	0.601308
11/02/2036	1.111929	0.720585	0.722026	0.732057	0.538179	0.601200
12/02/2036	1.119251	0.723919	0.724047	0.734207	0.552936	0.601242
13/02/2036	1.132052	0.728047	0.727933	0.738560	0.570488	0.601426
14/02/2036	1.141808	0.733303	0.733210	0.743162	0.580158	0.601655
15/02/2036	1.144174	0.737330	0.736657	0.745845	0.576588	0.599023
16/02/2036	1.141276	0.738298	0.736914	0.745950	0.566924	0.596634
17/02/2036	1.136595	0.736582	0.734981	0.744253	0.555922	0.593056
18/02/2036	1.131997	0.733809	0.732340	0.741948	0.546277	0.588822
19/02/2036	1.127853	0.731260	0.729846	0.739796	0.539698	0.588337
20/02/2036	1.126041	0.730529	0.728747	0.738306	0.544876	0.600108
21/02/2036	1.124980	0.731215	0.728472	0.737501	0.549620	0.601362

22/02/2036	1.123452	0.731969	0.728219	0.737004	0.551120	0.601353
23/02/2036	1.124158	0.732485	0.728347	0.736887	0.554156	0.601373
24/02/2036	1.130780	0.735324	0.731689	0.738364	0.565263	0.601512
25/02/2036	1.136133	0.739327	0.735388	0.740506	0.569498	0.601607
26/02/2036	1.137544	0.742201	0.737253	0.741977	0.569969	0.601688
27/02/2036	1.139715	0.743483	0.738052	0.743000	0.572556	0.601795
28/02/2036	1.141380	0.743918	0.738528	0.743635	0.574107	0.601914
29/02/2036	1.140419	0.743587	0.738309	0.743638	0.569455	0.600478
01/03/2036	1.149633	0.745372	0.741117	0.746147	0.576372	0.601453
02/03/2036	1.159063	0.748421	0.744968	0.749904	0.574910	0.594433
03/03/2036	1.164543	0.752111	0.748446	0.753085	0.582494	0.600711
04/03/2036	1.174817	0.756478	0.752380	0.757051	0.596842	0.602129
05/03/2036	1.182213	0.760112	0.755537	0.760555	0.600760	0.602257
06/03/2036	1.182726	0.761267	0.756465	0.762024	0.591998	0.595179
07/03/2036	1.178790	0.760056	0.755230	0.761216	0.582877	0.600234
08/03/2036	1.173425	0.757325	0.752719	0.758968	0.570053	0.595199
09/03/2036	1.168139	0.754107	0.749715	0.756288	0.558432	0.585109
10/03/2036	1.163211	0.750949	0.746638	0.753727	0.548009	0.572380
11/03/2036	1.158532	0.747970	0.743619	0.751380	0.538934	0.559398
12/03/2036	1.153989	0.745112	0.740660	0.749162	0.530965	0.547465
13/03/2036	1.149528	0.742324	0.737751	0.746996	0.523980	0.537527
14/03/2036	1.145127	0.739583	0.734889	0.744858	0.517567	0.528877
15/03/2036	1.140781	0.736864	0.732067	0.742757	0.511411	0.520405
16/03/2036	1.137222	0.734805	0.729812	0.740905	0.510088	0.529528
17/03/2036	1.133785	0.733167	0.728002	0.739329	0.507062	0.534839
18/03/2036	1.133073	0.733342	0.727871	0.738678	0.513346	0.550271
19/03/2036	1.133525	0.735150	0.728833	0.738832	0.523441	0.571390
20/03/2036	1.132424	0.736477	0.729222	0.738973	0.525327	0.576598
21/03/2036	1.129472	0.735825	0.728210	0.738419	0.521285	0.569601
22/03/2036	1.125632	0.733534	0.726131	0.737067	0.515585	0.561363
23/03/2036	1.121682	0.730608	0.723646	0.735267	0.508713	0.549898
24/03/2036	1.117877	0.727769	0.721150	0.733396	0.502908	0.539680
25/03/2036	1.114203	0.725179	0.718759	0.731626	0.497750	0.530621
26/03/2036	1.110607	0.722721	0.716449	0.729957	0.492885	0.521826
27/03/2036	1.107056	0.720272	0.714160	0.728331	0.488090	0.512867
28/03/2036	1.105168	0.718887	0.712804	0.727118	0.489906	0.521358
29/03/2036	1.103389	0.718278	0.712007	0.726274	0.489893	0.528385
30/03/2036	1.100807	0.717359	0.710957	0.725465	0.487071	0.525713
31/03/2036	1.097587	0.715515	0.709314	0.724387	0.483300	0.518739
01/04/2036	1.094153	0.712771	0.707150	0.722963	0.477979	0.501451
02/04/2036	1.090727	0.709626	0.704641	0.721291	0.472638	0.481978
03/04/2036	1.087331	0.706486	0.701963	0.719507	0.467156	0.462252
04/04/2036	1.083934	0.703504	0.699219	0.717701	0.461844	0.444115
05/04/2036	1.080517	0.700658	0.696459	0.715906	0.456666	0.428001
06/04/2036	1.077082	0.697922	0.693718	0.714127	0.452024	0.415143
07/04/2036	1.073633	0.695222	0.691004	0.712364	0.447085	0.402705
08/04/2036	1.070174	0.692536	0.688296	0.710611	0.442276	0.391173
09/04/2036	1.066710	0.689876	0.685592	0.708860	0.437479	0.380438

10/04/2036	1.063245	0.687274	0.682909	0.707116	0.432939	0.371206
11/04/2036	1.059787	0.684737	0.680267	0.705389	0.428483	0.362981
12/04/2036	1.056344	0.682275	0.677680	0.703689	0.424346	0.356270
13/04/2036	1.052921	0.679753	0.675151	0.702020	0.420293	0.350374
14/04/2036	1.049518	0.677108	0.672648	0.700371	0.415924	0.343666
15/04/2036	1.046134	0.674443	0.670143	0.698729	0.411602	0.337011
16/04/2036	1.042766	0.671852	0.667644	0.697087	0.407266	0.330588
17/04/2036	1.039415	0.669355	0.665171	0.695452	0.402982	0.324570
18/04/2036	1.036082	0.666923	0.662736	0.693836	0.398778	0.319037
19/04/2036	1.032770	0.664532	0.660340	0.692242	0.394656	0.313959
20/04/2036	1.029482	0.662191	0.657993	0.690671	0.390810	0.309936
21/04/2036	1.026221	0.659884	0.655693	0.689125	0.386839	0.305750
22/04/2036	1.022992	0.657641	0.653447	0.687605	0.383363	0.303054
23/04/2036	1.019795	0.655425	0.651250	0.686112	0.379535	0.299535
24/04/2036	1.016638	0.653339	0.649136	0.684652	0.377005	0.299898
25/04/2036	1.013524	0.651272	0.647089	0.683233	0.373317	0.297326
26/04/2036	1.010448	0.649171	0.645050	0.681836	0.369845	0.294183
27/04/2036	1.007403	0.647040	0.643003	0.680440	0.366262	0.290712
28/04/2036	1.004385	0.644918	0.640965	0.679043	0.362682	0.287199
29/04/2036	1.001395	0.642829	0.638954	0.677657	0.359169	0.283906
30/04/2036	0.998432	0.640776	0.636976	0.676290	0.355736	0.280892
01/05/2036	0.995501	0.638778	0.635044	0.674947	0.352574	0.279011
02/05/2036	0.992603	0.636829	0.633170	0.673634	0.349477	0.277525
03/05/2036	0.989741	0.634911	0.631348	0.672350	0.346471	0.276239
04/05/2036	0.986915	0.633009	0.629567	0.671092	0.343523	0.275013
05/05/2036	0.985434	0.632179	0.628692	0.670206	0.347670	0.294335
06/05/2036	0.986266	0.633454	0.629671	0.670253	0.356975	0.321922
07/05/2036	0.986685	0.635461	0.631105	0.670842	0.361939	0.336671
08/05/2036	0.988807	0.638462	0.633566	0.672113	0.373075	0.358953
09/05/2036	0.995426	0.644055	0.638814	0.674948	0.387891	0.383210
10/05/2036	1.003718	0.651965	0.645592	0.678992	0.404771	0.408296
11/05/2036	1.008259	0.658791	0.650584	0.682497	0.414557	0.425944
12/05/2036	1.012217	0.663948	0.654640	0.685276	0.425866	0.444055
13/05/2036	1.014798	0.667400	0.657581	0.687155	0.433749	0.460990
14/05/2036	1.017909	0.670649	0.660570	0.688789	0.445023	0.478962
15/05/2036	1.022528	0.675061	0.664490	0.690878	0.459589	0.497563
16/05/2036	1.025268	0.678860	0.667512	0.692799	0.464675	0.494945
17/05/2036	1.025123	0.680026	0.668358	0.693699	0.463283	0.480592
18/05/2036	1.023209	0.678388	0.667326	0.693344	0.458441	0.460906
19/05/2036	1.020750	0.675338	0.665366	0.692138	0.452909	0.441250
20/05/2036	1.018284	0.672293	0.663243	0.690662	0.448723	0.427314
21/05/2036	1.015874	0.669629	0.661230	0.689265	0.444065	0.413325
22/05/2036	1.013459	0.667191	0.659284	0.687997	0.439821	0.400565
23/05/2036	1.011002	0.664787	0.657330	0.686772	0.435544	0.388676
24/05/2036	1.008495	0.662390	0.655355	0.685527	0.431495	0.378466
25/05/2036	1.005973	0.660390	0.653552	0.684299	0.431094	0.381901
26/05/2036	1.029971	0.669760	0.667444	0.691557	0.439120	0.398471
27/05/2036	1.062466	0.689441	0.688954	0.705501	0.453916	0.422944

28/05/2036	1.081748	0.707706	0.704147	0.718005	0.464395	0.445445
29/05/2036	1.086051	0.715926	0.708708	0.723845	0.466763	0.451261
30/05/2036	1.083133	0.714757	0.706187	0.723430	0.463776	0.443906
31/05/2036	1.078817	0.709631	0.701429	0.720093	0.459437	0.432370
01/06/2036	1.074901	0.704520	0.696980	0.716592	0.454153	0.417164
02/06/2036	1.071355	0.700487	0.693264	0.713877	0.448888	0.401346
03/06/2036	1.067917	0.697121	0.689954	0.711731	0.443853	0.386693
04/06/2036	1.064446	0.693910	0.686755	0.709735	0.438932	0.373462
05/06/2036	1.060887	0.690681	0.683566	0.707687	0.434268	0.362193
06/06/2036	1.059114	0.688857	0.681550	0.706079	0.438718	0.375750
07/06/2036	1.057417	0.688118	0.680339	0.704962	0.441189	0.385677
08/06/2036	1.054783	0.687000	0.678887	0.703961	0.438818	0.381990
09/06/2036	1.051380	0.684752	0.676705	0.702663	0.434790	0.372338
10/06/2036	1.047694	0.681682	0.673986	0.700964	0.429597	0.359956
11/06/2036	1.044011	0.678445	0.671152	0.699054	0.425660	0.352342
12/06/2036	1.042314	0.676819	0.669593	0.697660	0.429963	0.366728
13/06/2036	1.045244	0.678959	0.671442	0.698127	0.441645	0.391137
14/06/2036	1.047796	0.682601	0.674075	0.699626	0.447313	0.400891
15/06/2036	1.048715	0.685508	0.675832	0.700957	0.454085	0.419886
16/06/2036	1.047474	0.686174	0.676075	0.701315	0.455093	0.424807
17/06/2036	1.044821	0.684950	0.675045	0.700659	0.454897	0.427532
18/06/2036	1.045793	0.685085	0.675763	0.700596	0.462098	0.440722
19/06/2036	1.047195	0.686299	0.677087	0.701158	0.463128	0.434613
20/06/2036	1.046544	0.686737	0.677177	0.701445	0.461298	0.423579
21/06/2036	1.044078	0.685570	0.675843	0.700864	0.459620	0.419259
22/06/2036	1.043646	0.685014	0.675404	0.700299	0.466197	0.430552
23/06/2036	1.049138	0.688369	0.678890	0.701743	0.479379	0.450981
24/06/2036	1.056159	0.694739	0.684284	0.704850	0.496384	0.474903
25/06/2036	1.059225	0.699576	0.687775	0.707589	0.501911	0.472451
26/06/2036	1.058139	0.700504	0.688082	0.708504	0.501780	0.466308
27/06/2036	1.055123	0.698552	0.686417	0.707669	0.499386	0.465988
28/06/2036	1.051821	0.695753	0.684284	0.706053	0.496383	0.465334
29/06/2036	1.051915	0.695125	0.684153	0.705333	0.502968	0.477539
30/06/2036	1.052501	0.696003	0.684899	0.705491	0.506693	0.475866
01/07/2036	1.054063	0.698052	0.686345	0.706302	0.520060	0.487129
02/07/2036	1.058815	0.702047	0.689859	0.708261	0.538897	0.503977
03/07/2036	1.065120	0.707869	0.694732	0.710992	0.559609	0.524734
04/07/2036	1.069497	0.713357	0.698749	0.713509	0.572663	0.545575
05/07/2036	1.070060	0.715430	0.700124	0.714792	0.566266	0.530768
06/07/2036	1.067873	0.713708	0.698836	0.714493	0.552723	0.504524
07/07/2036	1.064595	0.709747	0.695997	0.713002	0.536078	0.470903
08/07/2036	1.061146	0.705403	0.692673	0.710988	0.522065	0.441648
09/07/2036	1.057753	0.701415	0.689363	0.708937	0.509331	0.414004
10/07/2036	1.054374	0.697755	0.686127	0.707000	0.498353	0.389669
11/07/2036	1.050953	0.694308	0.682952	0.705135	0.489183	0.371087
12/07/2036	1.047473	0.690921	0.679812	0.703285	0.479916	0.353152
13/07/2036	1.043968	0.688026	0.676889	0.701473	0.476058	0.352492
14/07/2036	1.040509	0.685749	0.674421	0.699815	0.473519	0.360186

15/07/2036	1.037118	0.683384	0.672147	0.698330	0.466989	0.352583
16/07/2036	1.033773	0.680734	0.669785	0.696875	0.462917	0.348811
17/07/2036	1.030439	0.677634	0.667255	0.695336	0.455306	0.335548
18/07/2036	1.027093	0.674368	0.664564	0.693687	0.448566	0.322728
19/07/2036	1.025935	0.672899	0.663204	0.692572	0.452662	0.336586
20/07/2036	1.024985	0.672889	0.662737	0.692017	0.454881	0.347073
21/07/2036	1.023007	0.672805	0.662093	0.691588	0.454884	0.354613
22/07/2036	1.023773	0.673826	0.662946	0.691892	0.462255	0.374201
23/07/2036	1.024632	0.675014	0.664022	0.692517	0.461474	0.368447
24/07/2036	1.023651	0.674983	0.663766	0.692648	0.458014	0.357377
25/07/2036	1.021126	0.673562	0.662252	0.691924	0.456082	0.357250
26/07/2036	1.018033	0.671085	0.660161	0.690599	0.450324	0.348967
27/07/2036	1.017031	0.669810	0.659183	0.689624	0.455126	0.363810
28/07/2036	1.016273	0.669278	0.658763	0.689120	0.453003	0.357672
29/07/2036	1.014481	0.668180	0.657720	0.688583	0.448403	0.344041
30/07/2036	1.011764	0.665856	0.655752	0.687580	0.441394	0.326543
31/07/2036	1.008663	0.662707	0.653199	0.686095	0.433739	0.308773
01/08/2036	1.005512	0.659537	0.650528	0.684391	0.427574	0.297961
02/08/2036	1.002399	0.656647	0.647980	0.682717	0.421401	0.289114
03/08/2036	0.999314	0.653974	0.645552	0.681152	0.415721	0.281932
05/08/2036	0.993181	0.648811	0.640855	0.678171	0.404728	0.269538
06/08/2036	0.990133	0.646317	0.638578	0.676715	0.399797	0.265347
07/08/2036	0.987102	0.643847	0.636341	0.675268	0.394492	0.260309
08/08/2036	0.984088	0.641388	0.634125	0.673831	0.389338	0.255401
09/08/2036	0.981097	0.638991	0.631946	0.672406	0.384657	0.252077
10/08/2036	0.978130	0.636628	0.629811	0.671003	0.379634	0.247985
11/08/2036	0.975216	0.634711	0.627899	0.669664	0.379087	0.257500
12/08/2036	0.972394	0.633182	0.626338	0.668469	0.377803	0.267642
13/08/2036	0.971425	0.632886	0.626000	0.667862	0.383076	0.291570
14/08/2036	0.970844	0.633578	0.626469	0.667775	0.388647	0.316691
15/08/2036	0.969513	0.633917	0.626742	0.667778	0.389279	0.325064
16/08/2036	0.967461	0.633139	0.626278	0.667464	0.387721	0.325973
17/08/2036	0.965147	0.631747	0.625357	0.666763	0.387715	0.332946
18/08/2036	0.970819	0.634059	0.629008	0.668298	0.395554	0.350318
19/08/2036	0.978786	0.639865	0.635009	0.671721	0.405370	0.374690
20/08/2036	0.982799	0.645166	0.639327	0.674903	0.409994	0.387339
21/08/2036	0.987818	0.649844	0.643633	0.677865	0.419703	0.406057
22/08/2036	0.991568	0.653488	0.647022	0.680121	0.425523	0.415852
23/08/2036	0.992342	0.654921	0.648278	0.681173	0.423464	0.406794
24/08/2036	0.990859	0.653765	0.647425	0.680911	0.418793	0.389980
25/08/2036	0.988494	0.650986	0.645380	0.679698	0.412917	0.371043
26/08/2036	0.986017	0.647853	0.643008	0.678101	0.407035	0.353199
27/08/2036	0.983583	0.644993	0.640697	0.676520	0.401555	0.337710
28/08/2036	0.981139	0.642425	0.638492	0.675068	0.396417	0.324410
29/08/2036	0.978645	0.639985	0.636334	0.673696	0.391475	0.312747
30/08/2036	0.976093	0.637570	0.634184	0.672337	0.386631	0.302287
31/08/2036	0.973494	0.635165	0.632031	0.670967	0.381848	0.292789
01/09/2036	0.972133	0.633926	0.630788	0.669947	0.384996	0.308642

02/09/2036	0.970873	0.633409	0.630192	0.669314	0.384605	0.315607
03/09/2036	0.969025	0.632661	0.629446	0.668781	0.382854	0.317065
04/09/2036	0.966692	0.631194	0.628224	0.668045	0.379764	0.314677
05/09/2036	0.964194	0.629216	0.626663	0.667038	0.376109	0.310400
06/09/2036	0.961717	0.627150	0.625009	0.665889	0.372663	0.306751
07/09/2036	0.959299	0.625187	0.623388	0.664738	0.369170	0.303168
08/09/2036	0.956922	0.623323	0.621815	0.663640	0.365861	0.300037
09/09/2036	0.954570	0.621506	0.620277	0.662582	0.362620	0.297195
10/09/2036	0.952240	0.619731	0.618773	0.661544	0.359644	0.295239
11/09/2036	0.949932	0.617999	0.617308	0.660520	0.356720	0.293613
12/09/2036	0.947648	0.616283	0.615869	0.659512	0.353666	0.291483
13/09/2036	0.945387	0.614574	0.614441	0.658516	0.350664	0.289278
14/09/2036	0.943152	0.612920	0.613044	0.657532	0.348092	0.288458
15/09/2036	0.940945	0.611333	0.611703	0.656572	0.345561	0.288052
16/09/2036	0.938777	0.609882	0.610453	0.655651	0.343991	0.290648
17/09/2036	0.936649	0.608422	0.609258	0.654772	0.341221	0.289774
18/09/2036	0.934554	0.606918	0.608051	0.653906	0.338827	0.288691
19/09/2036	0.932494	0.605536	0.606898	0.653048	0.337736	0.292079
20/09/2036	0.930475	0.604218	0.605831	0.652225	0.335614	0.293074
21/09/2036	0.928496	0.602880	0.604786	0.651434	0.333577	0.292971
22/09/2036	0.928672	0.602944	0.604977	0.651201	0.339975	0.310581
23/09/2036	0.930906	0.605145	0.606861	0.651893	0.349804	0.335603
24/09/2036	0.932768	0.608300	0.609318	0.653137	0.358276	0.361876
25/09/2036	0.934682	0.611443	0.612014	0.654633	0.367311	0.387648
26/09/2036	0.935373	0.613503	0.614049	0.655834	0.371818	0.400508
27/09/2036	0.939065	0.616414	0.617467	0.657640	0.381599	0.416561
28/09/2036	0.942520	0.619554	0.620802	0.659653	0.384582	0.413544
29/09/2036	0.943552	0.621397	0.622443	0.660980	0.384764	0.406846
30/09/2036	0.942660	0.621474	0.622504	0.661246	0.385063	0.407956
01/10/2036	0.941083	0.620352	0.621855	0.660768	0.383611	0.407636
02/10/2036	0.939510	0.618914	0.621096	0.660060	0.382519	0.408233
03/10/2036	0.938065	0.617604	0.620434	0.659416	0.381426	0.408883
04/10/2036	0.936689	0.616426	0.619844	0.658880	0.379973	0.407789
05/10/2036	0.935332	0.615285	0.619259	0.658389	0.378551	0.406086
06/10/2036	0.933973	0.614135	0.618647	0.657889	0.377091	0.404192
07/10/2036	0.932613	0.613061	0.618048	0.657378	0.376423	0.405143
08/10/2036	0.940144	0.616181	0.622647	0.659581	0.384830	0.417872
09/10/2036	0.948883	0.622238	0.629021	0.663553	0.390529	0.426344
10/10/2036	0.953021	0.627139	0.633000	0.666870	0.391996	0.428310
11/10/2036	0.952991	0.628518	0.633763	0.668154	0.391057	0.426663
12/10/2036	0.951289	0.627204	0.632671	0.667678	0.389344	0.424174
13/10/2036	0.949431	0.625103	0.631163	0.666492	0.387599	0.421833
14/10/2036	0.947766	0.623393	0.629920	0.665384	0.387104	0.423549
15/10/2036	0.953837	0.625776	0.633404	0.666876	0.395465	0.436157
16/10/2036	0.960948	0.630809	0.638517	0.670049	0.400379	0.441234
17/10/2036	0.964115	0.634778	0.641577	0.672687	0.401751	0.441479
18/10/2036	0.963710	0.635642	0.641882	0.673559	0.400773	0.439267
19/10/2036	0.961863	0.634159	0.640610	0.672916	0.398945	0.436221

20/10/2036	0.959875	0.632007	0.638988	0.671672	0.397163	0.433502
21/10/2036	0.958042	0.630104	0.637548	0.670494	0.395419	0.430604
22/10/2036	0.956304	0.628547	0.636320	0.669555	0.393839	0.427861
23/10/2036	0.954595	0.627142	0.635200	0.668763	0.392300	0.425244
24/10/2036	0.952889	0.625774	0.634121	0.668005	0.390968	0.423480
25/10/2036	0.951176	0.624397	0.633054	0.667238	0.389447	0.421386
26/10/2036	0.949458	0.623039	0.632000	0.666467	0.388152	0.420018
27/10/2036	0.949576	0.622804	0.631976	0.666157	0.392750	0.431795
28/10/2036	0.949783	0.623294	0.632453	0.666233	0.394623	0.436504
29/10/2036	0.949054	0.623481	0.632568	0.666297	0.394701	0.436726
30/10/2036	0.947568	0.622793	0.632066	0.666044	0.393301	0.433920
31/10/2036	0.945822	0.621480	0.631171	0.665460	0.391599	0.430760
01/11/2036	0.944100	0.620042	0.630196	0.664727	0.389869	0.429954
02/11/2036	0.942461	0.618708	0.629315	0.664014	0.388550	0.431172
03/11/2036	0.940888	0.617369	0.628546	0.663380	0.387347	0.433221
04/11/2036	0.939361	0.615911	0.627849	0.662795	0.386465	0.436261
05/11/2036	0.937871	0.614358	0.627168	0.662219	0.385137	0.437606
06/11/2036	0.936410	0.612867	0.626467	0.661631	0.383830	0.438212
07/11/2036	0.936874	0.612592	0.626776	0.661502	0.388193	0.449418
08/11/2036	0.937447	0.613244	0.627628	0.661765	0.391428	0.460554
09/11/2036	0.938489	0.614444	0.628973	0.662389	0.396240	0.475218
10/11/2036	0.938823	0.615361	0.630146	0.663011	0.399055	0.486312
11/11/2036	0.938242	0.615506	0.630753	0.663331	0.400244	0.493762
12/11/2036	0.939065	0.615890	0.631821	0.663748	0.404952	0.504404
13/11/2036	0.939818	0.616528	0.632970	0.664249	0.407219	0.508975
14/11/2036	0.939578	0.616733	0.633559	0.664570	0.407254	0.507995
15/11/2036	0.938565	0.616059	0.633456	0.664521	0.405736	0.503304
16/11/2036	0.937291	0.614764	0.632921	0.664135	0.404038	0.498567
17/11/2036	0.939443	0.615336	0.634193	0.664527	0.411775	0.505043
18/11/2036	0.945247	0.619423	0.638070	0.666464	0.425806	0.519739
19/11/2036	0.953834	0.626849	0.644287	0.670123	0.442609	0.537236
20/11/2036	0.960665	0.634378	0.650042	0.674066	0.453733	0.554275
21/11/2036	0.963538	0.638927	0.653396	0.676784	0.458161	0.566569
22/11/2036	0.963394	0.639826	0.654330	0.677788	0.458146	0.570851
23/11/2036	0.962028	0.638422	0.653823	0.677534	0.455957	0.567493
24/11/2036	0.960509	0.636398	0.652831	0.676754	0.453915	0.562400
25/11/2036	0.959127	0.634537	0.651828	0.675948	0.451379	0.554311
26/11/2036	0.957850	0.632971	0.650918	0.675266	0.449616	0.547900
27/11/2036	0.956848	0.631779	0.650261	0.674742	0.449486	0.548778
28/11/2036	0.955862	0.630774	0.649775	0.674324	0.448857	0.549337
29/11/2036	0.956914	0.630946	0.650414	0.674462	0.453938	0.557492
30/11/2036	0.958295	0.632085	0.651624	0.675035	0.458187	0.567303
01/12/2036	0.960811	0.634257	0.653634	0.676137	0.465609	0.580843
02/12/2036	0.963717	0.637010	0.656039	0.677569	0.472782	0.596934
03/12/2036	0.964984	0.639064	0.657699	0.678728	0.475922	0.599035
04/12/2036	0.965981	0.640310	0.658906	0.679558	0.480092	0.598985
05/12/2036	0.969682	0.642704	0.661485	0.680954	0.491252	0.599067
06/12/2036	0.972776	0.645684	0.664049	0.682578	0.497541	0.594656

07/12/2036	0.976089	0.648997	0.666619	0.684329	0.509665	0.598620
08/12/2036	0.979488	0.652257	0.669133	0.686030	0.520195	0.599444
09/12/2036	0.981890	0.654890	0.671155	0.687430	0.525933	0.599628
10/12/2036	0.982315	0.655992	0.672062	0.688205	0.523967	0.596398
11/12/2036	0.981253	0.655451	0.671830	0.688247	0.519162	0.594325
12/12/2036	0.979622	0.653859	0.670903	0.687739	0.513151	0.589930
13/12/2036	0.977961	0.651951	0.669723	0.686976	0.507733	0.584030
14/12/2036	0.976404	0.650133	0.668527	0.686179	0.503145	0.577697
15/12/2036	0.974915	0.648507	0.667397	0.685433	0.499581	0.573081
16/12/2036	0.973450	0.646970	0.666319	0.684737	0.496041	0.567909
17/12/2036	0.971985	0.645439	0.665245	0.684058	0.492780	0.562864
18/12/2036	0.970518	0.643955	0.664187	0.683376	0.490219	0.560312
19/12/2036	0.969051	0.642483	0.663148	0.682695	0.487216	0.556470
20/12/2036	0.967591	0.641063	0.662131	0.682023	0.484988	0.554729
21/12/2036	0.966145	0.639724	0.661167	0.681369	0.483022	0.554491
22/12/2036	0.964716	0.638435	0.660256	0.680743	0.481039	0.554139
23/12/2036	0.964006	0.637562	0.659787	0.680316	0.481227	0.561701
24/12/2036	0.966829	0.638939	0.661498	0.681009	0.490647	0.575515
25/12/2036	0.969636	0.641629	0.663766	0.682356	0.495734	0.581555
26/12/2036	0.970333	0.643439	0.664879	0.683377	0.495811	0.579777
27/12/2036	0.971784	0.644712	0.665907	0.684163	0.501832	0.584795
28/12/2036	0.972802	0.645676	0.666706	0.684682	0.504737	0.588491
29/12/2036	0.972547	0.645993	0.666834	0.684835	0.504170	0.589288
30/12/2036	0.971335	0.645288	0.666254	0.684577	0.500988	0.585671
31/12/2036	0.970359	0.644189	0.665600	0.684139	0.499793	0.589337
01/01/2037	0.969421	0.643044	0.665008	0.683676	0.496982	0.587419
02/01/2037	0.968473	0.642115	0.664469	0.683260	0.495744	0.588822
03/01/2037	0.976040	0.643358	0.665869	0.683836	0.504430	0.598474
04/01/2037	0.983872	0.646116	0.667838	0.685035	0.509865	0.598021
05/01/2037	0.987140	0.648531	0.669005	0.686054	0.511642	0.598889
06/01/2037	0.986474	0.649257	0.669055	0.686387	0.509450	0.598465
07/01/2037	0.987112	0.649720	0.669510	0.686613	0.513839	0.599117
08/01/2037	0.987810	0.650418	0.670088	0.686891	0.514478	0.594309
09/01/2037	0.995606	0.652982	0.672298	0.688095	0.525681	0.598638
10/01/2037	1.025880	0.659902	0.678971	0.691957	0.543893	0.599621
11/01/2037	1.052600	0.668294	0.685742	0.696738	0.550705	0.599093
12/01/2037	1.062699	0.673824	0.689048	0.699996	0.546481	0.595275
13/01/2037	1.067286	0.676992	0.690786	0.701734	0.552341	0.599291
14/01/2037	1.091644	0.682800	0.697326	0.707915	0.567015	0.600156
15/01/2037	1.115022	0.690887	0.706293	0.716801	0.570570	0.596841
16/01/2037	1.125187	0.698172	0.713387	0.723976	0.571352	0.600176
17/01/2037	1.140181	0.704585	0.720207	0.731636	0.579925	0.601058
18/01/2037	1.164589	0.712309	0.729518	0.741833	0.594693	0.601414
19/01/2037	1.188107	0.721953	0.740333	0.752731	0.611227	0.601795
20/01/2037	1.200329	0.731150	0.748908	0.760466	0.620435	0.602192
21/01/2037	1.200374	0.736646	0.752488	0.763053	0.615437	0.601014
22/01/2037	1.194003	0.737692	0.751661	0.761468	0.602859	0.599631
23/01/2037	1.186191	0.735973	0.748668	0.757992	0.588886	0.597717

24/01/2037	1.178944	0.733542	0.745275	0.754399	0.576496	0.595008
25/01/2037	1.172473	0.731414	0.742170	0.751364	0.566227	0.591811
26/01/2037	1.166511	0.729665	0.739387	0.748817	0.558004	0.589741
27/01/2037	1.160839	0.728043	0.736785	0.746506	0.550936	0.588273
28/01/2037	1.156774	0.727183	0.735011	0.744622	0.551226	0.600159
29/01/2037	1.152892	0.726730	0.733599	0.743053	0.548629	0.599763
30/01/2037	1.152151	0.728033	0.734267	0.743659	0.558571	0.600930
31/01/2037	1.151580	0.730364	0.735897	0.745366	0.563427	0.601346
01/02/2037	1.148994	0.731767	0.736542	0.746305	0.559149	0.596521
02/02/2037	1.145341	0.731646	0.735838	0.745782	0.555392	0.600571
03/02/2037	1.142430	0.731294	0.735108	0.744589	0.557701	0.601486
04/02/2037	1.140113	0.731501	0.734763	0.743548	0.560359	0.601646
05/02/2037	1.137107	0.731472	0.734113	0.742649	0.556345	0.597131
06/02/2037	1.133202	0.730455	0.732675	0.741509	0.549420	0.593478
07/02/2037	1.128880	0.728459	0.730577	0.739945	0.541024	0.587780
08/02/2037	1.124558	0.726045	0.728194	0.738093	0.533535	0.582002
09/02/2037	1.120378	0.723604	0.725813	0.736188	0.527300	0.576982
10/02/2037	1.116332	0.721208	0.723546	0.734375	0.522196	0.573166
11/02/2037	1.112393	0.718826	0.721382	0.732676	0.517625	0.569380
12/02/2037	1.108540	0.716453	0.719265	0.731049	0.513169	0.564401
13/02/2037	1.104762	0.714127	0.717157	0.729449	0.508935	0.559006
14/02/2037	1.101051	0.711865	0.715061	0.727863	0.504845	0.553556
15/02/2037	1.097405	0.709659	0.712989	0.726299	0.500932	0.548339
16/02/2037	1.093823	0.707527	0.710969	0.724771	0.497510	0.544696
17/02/2037	1.090308	0.705464	0.709016	0.723290	0.494271	0.541815
18/02/2037	1.086861	0.703471	0.707134	0.721860	0.491380	0.539965
19/02/2037	1.083483	0.701519	0.705310	0.720475	0.488465	0.537864
20/02/2037	1.080169	0.699576	0.703521	0.719125	0.485496	0.535035
21/02/2037	1.076915	0.697610	0.701743	0.717795	0.482411	0.531290
22/02/2037	1.073718	0.695644	0.699977	0.716479	0.479504	0.527866
23/02/2037	1.071243	0.694192	0.698680	0.715363	0.479711	0.536764
24/02/2037	1.069471	0.693494	0.698105	0.714618	0.481094	0.552076
25/02/2037	1.067447	0.692906	0.697681	0.714081	0.480219	0.558024
26/02/2037	1.064886	0.691820	0.696849	0.713443	0.478161	0.556275
27/02/2037	1.062024	0.690171	0.695540	0.712532	0.475447	0.550991
28/02/2037	1.059946	0.688818	0.694506	0.711619	0.475960	0.557672
01/03/2037	1.057970	0.687678	0.693692	0.710832	0.473583	0.555093
02/03/2037	1.055631	0.686343	0.692659	0.710052	0.470650	0.547090
03/03/2037	1.052988	0.684668	0.691275	0.709122	0.467667	0.538945
04/03/2037	1.050613	0.683152	0.689982	0.708137	0.467161	0.542006
05/03/2037	1.048295	0.681583	0.688814	0.707196	0.464153	0.537582
06/03/2037	1.045850	0.679766	0.687527	0.706264	0.461294	0.530493
07/03/2037	1.043290	0.677772	0.686047	0.705257	0.458271	0.523030
08/03/2037	1.041908	0.676576	0.685181	0.704476	0.459864	0.530300
09/03/2037	1.043045	0.677477	0.686064	0.704580	0.467178	0.546236
10/03/2037	1.047899	0.681726	0.689684	0.706368	0.479806	0.565578
11/03/2037	1.051446	0.686874	0.693277	0.708710	0.488591	0.581226
12/03/2037	1.051621	0.689597	0.694716	0.710149	0.488974	0.578721

13/03/2037	1.050035	0.689538	0.694364	0.710270	0.489342	0.581945
14/03/2037	1.047805	0.687854	0.693179	0.709485	0.485952	0.576268
15/03/2037	1.060421	0.690238	0.697779	0.713160	0.492434	0.581759
16/03/2037	1.074741	0.696199	0.705162	0.719652	0.498674	0.591092
17/03/2037	1.081027	0.701416	0.710212	0.724800	0.500030	0.592015
18/03/2037	1.080345	0.703148	0.711309	0.726477	0.500002	0.594464
19/03/2037	1.076927	0.701730	0.709759	0.725304	0.496544	0.588774
20/03/2037	1.076077	0.700810	0.708884	0.723766	0.503133	0.596510
21/03/2037	1.088456	0.703620	0.711974	0.726655	0.522334	0.600342
22/03/2037	1.100680	0.708567	0.716856	0.731965	0.532307	0.600575
23/03/2037	1.107736	0.713668	0.721373	0.736159	0.543599	0.600822
24/03/2037	1.108625	0.716622	0.723263	0.737468	0.544401	0.596731
25/03/2037	1.106434	0.717231	0.722852	0.736476	0.542903	0.600281
26/03/2037	1.111237	0.718373	0.723829	0.736593	0.551781	0.601080
27/03/2037	1.117368	0.720989	0.726218	0.738167	0.559151	0.601270
28/03/2037	1.123626	0.724732	0.729229	0.740369	0.568715	0.601450
29/03/2037	1.126029	0.727669	0.730998	0.741736	0.570336	0.601510
30/03/2037	1.124226	0.728327	0.730717	0.741564	0.562425	0.594539
31/03/2037	1.120229	0.726919	0.728876	0.740116	0.552045	0.587174
01/04/2037	1.115757	0.724401	0.726296	0.738054	0.540860	0.570958
02/04/2037	1.111492	0.721639	0.723479	0.735885	0.531020	0.551479
03/04/2037	1.107469	0.718970	0.720621	0.733798	0.522351	0.530928
04/04/2037	1.103583	0.716566	0.717872	0.731815	0.517026	0.520036
05/04/2037	1.099777	0.714337	0.715348	0.729949	0.512732	0.514410
06/04/2037	1.096344	0.712487	0.713284	0.728301	0.511490	0.520903
07/04/2037	1.093014	0.710828	0.711525	0.726858	0.509374	0.522013
08/04/2037	1.089608	0.708994	0.709692	0.725478	0.505559	0.515341
09/04/2037	1.086123	0.706748	0.707553	0.724000	0.500173	0.501201
10/04/2037	1.082611	0.704216	0.705130	0.722361	0.494658	0.485585
11/04/2037	1.079642	0.702257	0.703054	0.720789	0.494092	0.489417
12/04/2037	1.076768	0.700761	0.701382	0.719424	0.491944	0.488822
13/04/2037	1.074161	0.699727	0.700109	0.718326	0.492937	0.499485
14/04/2037	1.071453	0.698685	0.698949	0.717360	0.492040	0.502828
15/04/2037	1.069185	0.697829	0.698056	0.716526	0.493403	0.515674
16/04/2037	1.066843	0.696858	0.697191	0.715733	0.492273	0.516734
17/04/2037	1.064163	0.695337	0.695917	0.714810	0.488420	0.505304
18/04/2037	1.061229	0.693205	0.694100	0.713629	0.483648	0.488954
19/04/2037	1.058228	0.691111	0.692108	0.712249	0.482205	0.485832
20/04/2037	1.055266	0.689088	0.690183	0.710849	0.478067	0.475646
21/04/2037	1.052345	0.687015	0.688226	0.709494	0.474058	0.464276
22/04/2037	1.049434	0.684842	0.686169	0.708136	0.469835	0.452998
23/04/2037	1.046551	0.682993	0.684236	0.706784	0.469127	0.455844
24/04/2037	1.044601	0.682036	0.683130	0.705759	0.471218	0.469576
25/04/2037	1.042756	0.681180	0.682395	0.705046	0.469582	0.468514
26/04/2037	1.040492	0.679706	0.681288	0.704319	0.466390	0.459802
27/04/2037	1.037861	0.677673	0.679664	0.703323	0.463016	0.451003
28/04/2037	1.035112	0.675676	0.677886	0.702106	0.461435	0.449998
29/04/2037	1.038087	0.676849	0.679513	0.702555	0.468411	0.462307

30/04/2037	1.043967	0.681614	0.683635	0.704768	0.479468	0.482470
01/05/2037	1.047074	0.686494	0.686835	0.707100	0.484575	0.486989
02/05/2037	1.046459	0.688225	0.687387	0.708095	0.482782	0.475874
03/05/2037	1.043862	0.686436	0.685723	0.707466	0.477084	0.455545
04/05/2037	1.040787	0.682905	0.683023	0.705822	0.470228	0.433357
05/05/2037	1.037766	0.679300	0.680127	0.703898	0.463407	0.412821
06/05/2037	1.034814	0.676190	0.677335	0.702080	0.457032	0.394980
07/05/2037	1.031862	0.673435	0.674652	0.700416	0.451035	0.379548
08/05/2037	1.028872	0.670788	0.672011	0.698819	0.445259	0.365921
09/05/2037	1.025854	0.668411	0.669502	0.697246	0.442371	0.362815
10/05/2037	1.022824	0.666056	0.667109	0.695718	0.436931	0.353941
11/05/2037	1.019781	0.663592	0.664686	0.694208	0.431885	0.344271
12/05/2037	1.016722	0.661026	0.662190	0.692671	0.426488	0.334154
13/05/2037	1.013645	0.658442	0.659659	0.691098	0.421017	0.324245
14/05/2037	1.010558	0.655922	0.657148	0.689519	0.415885	0.315969
15/05/2037	1.009958	0.655326	0.656225	0.688640	0.422084	0.332149
16/05/2037	1.009610	0.655992	0.656150	0.688371	0.424014	0.338486
17/05/2037	1.008058	0.656223	0.655618	0.688121	0.423062	0.339526
18/05/2037	1.005468	0.654958	0.654169	0.687409	0.418531	0.332588
19/05/2037	1.002484	0.652539	0.652056	0.686175	0.413097	0.322845
20/05/2037	0.999482	0.649810	0.649709	0.684655	0.407723	0.313688
21/05/2037	0.996544	0.647250	0.647378	0.683103	0.402609	0.305704
22/05/2037	0.993642	0.644880	0.645120	0.681625	0.397578	0.298161
23/05/2037	0.990754	0.642608	0.642918	0.680211	0.392985	0.292108
24/05/2037	0.990692	0.642428	0.642502	0.679608	0.400471	0.309684
25/05/2037	0.998102	0.647323	0.647212	0.681834	0.414240	0.336753
26/05/2037	1.018832	0.660445	0.660972	0.689801	0.431248	0.367659
27/05/2037	1.041295	0.677944	0.677289	0.700877	0.448685	0.398225
28/05/2037	1.053356	0.691063	0.687510	0.709553	0.453103	0.400849
29/05/2037	1.059878	0.698300	0.692517	0.714326	0.462961	0.416185
30/05/2037	1.062173	0.700565	0.693708	0.715680	0.463368	0.411251
31/05/2037	1.061130	0.699621	0.692258	0.714888	0.460680	0.401487
01/06/2037	1.058219	0.696685	0.689342	0.713053	0.454650	0.385356
02/06/2037	1.060963	0.696413	0.689666	0.712736	0.461057	0.395016
03/06/2037	1.065052	0.699107	0.691996	0.713892	0.468133	0.414236
04/06/2037	1.066086	0.701316	0.693240	0.714993	0.468179	0.413878
05/06/2037	1.064020	0.700644	0.692118	0.714820	0.464851	0.404067
06/06/2037	1.064747	0.700172	0.691871	0.714508	0.471647	0.414202
07/06/2037	1.066015	0.701157	0.692522	0.714523	0.477576	0.429708
08/06/2037	1.065290	0.701659	0.692440	0.714455	0.475895	0.423209
09/06/2037	1.062618	0.700092	0.690773	0.713688	0.471516	0.408511
10/06/2037	1.059076	0.696749	0.687931	0.712075	0.465235	0.389796
11/06/2037	1.056041	0.693711	0.685295	0.710185	0.465883	0.396799
12/06/2037	1.053144	0.691208	0.683149	0.708494	0.462111	0.390230
13/06/2037	1.050001	0.688781	0.680980	0.706995	0.458536	0.381545
14/06/2037	1.046608	0.686060	0.678536	0.705456	0.453974	0.371112
15/06/2037	1.043101	0.683023	0.675859	0.703762	0.448212	0.357364
16/06/2037	1.039565	0.679748	0.673052	0.701950	0.442465	0.343883

17/06/2037	1.036020	0.676367	0.670192	0.700096	0.436522	0.330906
18/06/2037	1.032471	0.673183	0.667385	0.698262	0.432062	0.323541
19/06/2037	1.028925	0.670145	0.664653	0.696481	0.426358	0.313933
20/06/2037	1.025388	0.667228	0.661968	0.694744	0.421612	0.306768
21/06/2037	1.021869	0.664463	0.659367	0.693040	0.417460	0.302613
22/06/2037	1.018374	0.661701	0.656821	0.691369	0.412071	0.295161
23/06/2037	1.014899	0.658888	0.654259	0.689710	0.406829	0.287328
24/06/2037	1.011437	0.656049	0.651674	0.688041	0.401438	0.279496
25/06/2037	1.007988	0.653239	0.649096	0.686367	0.396066	0.272061
26/06/2037	1.004788	0.651147	0.646930	0.684814	0.396893	0.285996
27/06/2037	1.001693	0.649336	0.645139	0.683466	0.393749	0.287493
28/06/2037	0.998577	0.647297	0.643292	0.682210	0.389910	0.283756
29/06/2037	0.995422	0.644994	0.641257	0.680886	0.386309	0.280822
30/06/2037	0.992260	0.642500	0.639107	0.679459	0.381130	0.273697
01/07/2037	0.989105	0.639830	0.636831	0.677962	0.375108	0.261694
02/07/2037	0.985957	0.637228	0.634490	0.676427	0.370804	0.254645
03/07/2037	0.982833	0.634937	0.632281	0.674922	0.367970	0.253998
04/07/2037	0.979755	0.632854	0.630260	0.673508	0.364686	0.253000
05/07/2037	0.976736	0.630913	0.628384	0.672191	0.362663	0.255142
06/07/2037	0.973797	0.629263	0.626721	0.670963	0.362726	0.264495
07/07/2037	0.973814	0.629608	0.626959	0.670618	0.371144	0.287578
08/07/2037	0.974203	0.631106	0.627977	0.670938	0.375392	0.296675
09/07/2037	0.979207	0.635163	0.631828	0.672964	0.386575	0.319406
10/07/2037	0.983752	0.639442	0.635780	0.675585	0.387695	0.315826
11/07/2037	0.987696	0.643638	0.639141	0.677999	0.398065	0.332583
12/07/2037	0.989140	0.646072	0.640814	0.679386	0.398342	0.326335
13/07/2037	0.988026	0.645917	0.640351	0.679422	0.394617	0.311650
14/07/2037	0.985498	0.643613	0.638373	0.678355	0.388244	0.293791
15/07/2037	0.982543	0.640352	0.635767	0.676711	0.381242	0.276027
16/07/2037	0.979584	0.637171	0.633128	0.674954	0.375424	0.263039
17/07/2037	0.976684	0.634404	0.630672	0.673316	0.370291	0.253571
18/07/2037	0.974287	0.632727	0.628911	0.671991	0.372436	0.269400
19/07/2037	0.971977	0.631347	0.627609	0.670968	0.369443	0.268340
20/07/2037	0.969471	0.629623	0.626137	0.670002	0.366234	0.263096
21/07/2037	0.966763	0.627310	0.624258	0.668860	0.360798	0.251949
22/07/2037	0.963948	0.624649	0.622076	0.667497	0.354952	0.239190
23/07/2037	0.961094	0.621938	0.619772	0.666013	0.349056	0.227133
25/07/2037	0.955338	0.616748	0.615156	0.663039	0.337768	0.207050
26/07/2037	0.952443	0.614269	0.612882	0.661587	0.332396	0.198901
27/07/2037	0.949543	0.611837	0.610644	0.660160	0.327175	0.191738
28/07/2037	0.947210	0.610366	0.609053	0.658950	0.329961	0.211253
29/07/2037	0.944989	0.609195	0.607935	0.658016	0.326845	0.212386
30/07/2037	0.942564	0.607675	0.606632	0.657147	0.323495	0.208556
31/07/2037	0.939982	0.606248	0.605230	0.656177	0.325085	0.221965
01/08/2037	0.937402	0.604829	0.603949	0.655171	0.322599	0.225349
02/08/2037	0.935442	0.604016	0.603194	0.654374	0.326090	0.246437
03/08/2037	0.936312	0.605237	0.604383	0.654535	0.336473	0.274923
04/08/2037	0.937277	0.607257	0.606109	0.655311	0.340165	0.282494

05/08/2037	0.938524	0.609586	0.607927	0.656319	0.348703	0.304022
06/08/2037	0.940934	0.612540	0.610487	0.657629	0.359499	0.329085
07/08/2037	0.946738	0.617644	0.615367	0.660160	0.374270	0.355985
08/08/2037	0.951219	0.622764	0.619920	0.663017	0.379478	0.360108
09/08/2037	0.953323	0.626286	0.622784	0.665130	0.385766	0.375856
10/08/2037	0.953134	0.627085	0.623758	0.665981	0.383923	0.370538
11/08/2037	0.962541	0.630987	0.629729	0.669104	0.392520	0.382819
12/08/2037	0.973053	0.637615	0.637261	0.673831	0.396816	0.386917
13/08/2037	0.978897	0.643639	0.642394	0.677857	0.402658	0.402824
14/08/2037	0.980913	0.646974	0.644813	0.679999	0.409342	0.423829
15/08/2037	0.980488	0.647208	0.645144	0.680353	0.408801	0.419724
16/08/2037	0.980974	0.647017	0.645405	0.680173	0.415995	0.430692
17/08/2037	0.983524	0.648645	0.647118	0.680653	0.426872	0.446843
18/08/2037	0.985113	0.650766	0.648868	0.681551	0.430369	0.443354
19/08/2037	0.984650	0.651627	0.649388	0.682067	0.431970	0.440648
20/08/2037	0.982898	0.650869	0.648822	0.681830	0.432121	0.441810
21/08/2037	0.980796	0.649107	0.647744	0.681049	0.430385	0.436504
22/08/2037	0.978729	0.646882	0.646386	0.680051	0.426393	0.422571
23/08/2037	0.976772	0.645017	0.645057	0.679046	0.427059	0.424480
24/08/2037	0.974850	0.643348	0.643857	0.678132	0.424389	0.415793
25/08/2037	0.972890	0.641453	0.642509	0.677249	0.420116	0.400077
26/08/2037	0.970847	0.639212	0.640857	0.676263	0.415156	0.382228
27/08/2037	0.968705	0.636783	0.638965	0.675126	0.409737	0.364278
28/08/2037	0.966477	0.634354	0.636957	0.673892	0.404336	0.347872
29/08/2037	0.964180	0.631999	0.634910	0.672632	0.399099	0.333480
30/08/2037	0.961832	0.629754	0.632875	0.671383	0.394453	0.322296
31/08/2037	0.959486	0.628071	0.631112	0.670211	0.394683	0.329373
01/09/2037	0.958641	0.627707	0.630577	0.669570	0.398871	0.348871
02/09/2037	0.960190	0.629411	0.631961	0.669977	0.408565	0.375330
03/09/2037	0.961232	0.631549	0.633626	0.670888	0.411956	0.383977
04/09/2037	0.962861	0.633905	0.635525	0.672043	0.420297	0.401279
05/09/2037	0.967212	0.637782	0.639059	0.673979	0.432615	0.421294
06/09/2037	0.972456	0.643098	0.643502	0.676559	0.445153	0.443052
07/09/2037	0.977767	0.649119	0.648272	0.679508	0.459285	0.464919
08/09/2037	0.980377	0.653342	0.651480	0.681822	0.463482	0.465558
09/09/2037	0.980131	0.654721	0.652474	0.682825	0.464902	0.466865
10/09/2037	0.978410	0.653530	0.651870	0.682621	0.460319	0.455255
11/09/2037	0.976365	0.651411	0.650623	0.681760	0.458659	0.452152
12/09/2037	0.976469	0.650630	0.650515	0.681293	0.462537	0.461639
13/09/2037	0.976813	0.650870	0.651015	0.681350	0.463182	0.459771
14/09/2037	0.976141	0.650734	0.651015	0.681435	0.461054	0.450670
15/09/2037	0.974569	0.649461	0.650168	0.681102	0.456967	0.437707
16/09/2037	0.972624	0.647361	0.648744	0.680304	0.452197	0.424042
17/09/2037	0.970621	0.645089	0.647117	0.679264	0.447709	0.412377
18/09/2037	0.968634	0.642958	0.645481	0.678195	0.443247	0.401796
19/09/2037	0.966644	0.640974	0.643872	0.677176	0.439003	0.392419
20/09/2037	0.964637	0.639073	0.642285	0.676194	0.435058	0.384677
21/09/2037	0.962609	0.637190	0.640707	0.675221	0.430946	0.377095

22/09/2037	0.960590	0.635662	0.639294	0.674281	0.430491	0.382629
23/09/2037	0.959212	0.634869	0.638557	0.673606	0.432116	0.397840
24/09/2037	0.957938	0.634279	0.638175	0.673192	0.431158	0.402006
25/09/2037	0.956414	0.633307	0.637567	0.672798	0.428641	0.398816
26/09/2037	0.954652	0.631828	0.636552	0.672209	0.425219	0.392141
27/09/2037	0.952791	0.630080	0.635271	0.671407	0.421424	0.384471
28/09/2037	0.950919	0.628338	0.633911	0.670506	0.417957	0.378307
29/09/2037	0.949895	0.627413	0.633182	0.669844	0.419611	0.390758
30/09/2037	0.950332	0.627906	0.633746	0.669825	0.424672	0.411819
01/10/2037	0.950498	0.629020	0.634781	0.670232	0.428274	0.428830
02/10/2037	0.949711	0.629637	0.635423	0.670587	0.429816	0.440860
03/10/2037	0.948316	0.629327	0.635472	0.670598	0.429886	0.447609
04/10/2037	0.951646	0.630888	0.637905	0.671684	0.437478	0.460057
05/10/2037	0.960735	0.636712	0.644115	0.675043	0.451080	0.477095
06/10/2037	0.967980	0.643746	0.650095	0.679076	0.457865	0.483523
07/10/2037	0.970367	0.647968	0.653039	0.681764	0.459030	0.483799
08/10/2037	0.969527	0.648259	0.653139	0.682426	0.456670	0.479285
09/10/2037	0.967690	0.646243	0.651851	0.681684	0.453165	0.472230
10/10/2037	0.965883	0.643871	0.650330	0.680500	0.450235	0.466613
11/10/2037	0.964250	0.641982	0.649027	0.679450	0.447853	0.462783
12/10/2037	0.962699	0.640475	0.647931	0.678639	0.445401	0.458601
13/10/2037	0.961164	0.639088	0.646914	0.677949	0.443306	0.455314
14/10/2037	0.959625	0.637789	0.645955	0.677279	0.442213	0.455919
15/10/2037	0.958379	0.636810	0.645291	0.676701	0.442667	0.463634
16/10/2037	0.957160	0.635897	0.644782	0.676228	0.441248	0.463765
17/10/2037	0.955801	0.634819	0.644146	0.675759	0.439527	0.461179
18/10/2037	0.954316	0.633497	0.643300	0.675197	0.436977	0.455977
19/10/2037	0.952778	0.632037	0.642307	0.674532	0.434277	0.450157
20/10/2037	0.955833	0.633114	0.643940	0.675146	0.441552	0.459094
21/10/2037	0.959426	0.635984	0.646573	0.676675	0.445088	0.461301
22/10/2037	0.960648	0.638206	0.648047	0.677959	0.445267	0.459490
23/10/2037	0.960348	0.638835	0.648319	0.678437	0.446512	0.467982
24/10/2037	0.959274	0.638201	0.647951	0.678212	0.445821	0.472018
25/10/2037	0.959853	0.638172	0.648358	0.678144	0.450441	0.484305
26/10/2037	0.962886	0.640292	0.650483	0.679024	0.460213	0.500772
27/10/2037	0.965056	0.643109	0.652704	0.680339	0.464672	0.505894
28/10/2037	0.967103	0.645747	0.654755	0.681709	0.470914	0.517014
29/10/2037	0.968108	0.647481	0.656223	0.682709	0.475218	0.527191
30/10/2037	0.970139	0.649354	0.658121	0.683750	0.483894	0.540222
31/10/2037	0.971446	0.651042	0.659730	0.684703	0.487582	0.542914
01/11/2037	0.981930	0.656512	0.666507	0.688497	0.498801	0.551706
02/11/2037	0.995152	0.665309	0.675593	0.694365	0.515399	0.565232
03/11/2037	1.003595	0.673477	0.682332	0.699606	0.525615	0.583148
04/11/2037	1.005811	0.677472	0.684932	0.702326	0.525589	0.592025
05/11/2037	1.004533	0.677298	0.684504	0.702547	0.521390	0.595220
06/11/2037	1.002816	0.675345	0.683182	0.701571	0.517869	0.599195
07/11/2037	1.001211	0.673301	0.681939	0.700467	0.513532	0.597543
08/11/2037	1.002637	0.673429	0.682522	0.700412	0.523033	0.599083

09/11/2037	1.010004	0.676863	0.685429	0.701890	0.541736	0.599689
10/11/2037	1.045752	0.685528	0.693511	0.706620	0.562812	0.600012
11/11/2037	1.078762	0.695290	0.701521	0.712344	0.568196	0.598338
12/11/2037	1.092010	0.701210	0.705305	0.716115	0.561645	0.594100
13/11/2037	1.090648	0.702176	0.705096	0.716958	0.552926	0.594681
14/11/2037	1.084417	0.700204	0.703027	0.715811	0.543093	0.591304
15/11/2037	1.079410	0.698219	0.701252	0.714308	0.539849	0.599186
16/11/2037	1.076690	0.697602	0.700655	0.713470	0.540641	0.600336
17/11/2037	1.075267	0.698109	0.700944	0.713382	0.542609	0.600474
18/11/2037	1.073314	0.698437	0.701066	0.713457	0.539822	0.597765
19/11/2037	1.070425	0.697765	0.700435	0.713172	0.533944	0.593121
20/11/2037	1.067036	0.696213	0.699168	0.712411	0.527471	0.588398
21/11/2037	1.064249	0.694744	0.698054	0.711544	0.524691	0.595022
22/11/2037	1.062852	0.694272	0.697841	0.711093	0.527142	0.599998
23/11/2037	1.072573	0.696439	0.700065	0.712054	0.540842	0.600498
24/11/2037	1.086486	0.701133	0.704254	0.715149	0.556639	0.600609
25/11/2037	1.093949	0.705670	0.707893	0.718604	0.560846	0.600337
26/11/2037	1.093759	0.707693	0.709397	0.720591	0.555704	0.599148
27/11/2037	1.095290	0.708778	0.710600	0.721691	0.560844	0.600316
28/11/2037	1.105283	0.711801	0.713844	0.723960	0.575174	0.600766
29/11/2037	1.115141	0.716689	0.718245	0.727213	0.585965	0.601054
30/11/2037	1.125452	0.722448	0.723658	0.732656	0.598423	0.601337
01/12/2037	1.130806	0.726828	0.728137	0.737834	0.598447	0.600557
02/12/2037	1.131074	0.729128	0.730730	0.740725	0.595146	0.601273
03/12/2037	1.130764	0.730215	0.732263	0.742163	0.593411	0.601607
04/12/2037	1.130517	0.731089	0.733420	0.742821	0.592162	0.601755
05/12/2037	1.130513	0.732203	0.734705	0.743706	0.591701	0.601876
06/12/2037	1.128983	0.732884	0.735415	0.744352	0.587190	0.601696
07/12/2037	1.125732	0.732525	0.734997	0.744103	0.580284	0.601636
08/12/2037	1.124218	0.731923	0.734368	0.743311	0.578336	0.601592
09/12/2037	1.122818	0.731418	0.733636	0.742299	0.575592	0.601581
10/12/2037	1.120368	0.730805	0.732641	0.741207	0.571473	0.601549
11/12/2037	1.116953	0.729766	0.731299	0.740012	0.566294	0.601463
12/12/2037	1.114162	0.728603	0.730038	0.738843	0.562832	0.601435
13/12/2037	1.125495	0.729908	0.732695	0.742774	0.571839	0.601560
14/12/2037	1.137650	0.733272	0.737817	0.749362	0.575200	0.601300
15/12/2037	1.141692	0.736207	0.741677	0.754120	0.571139	0.600754
16/12/2037	1.139457	0.737076	0.742634	0.755197	0.566122	0.601535
17/12/2037	1.134821	0.735910	0.741290	0.753457	0.559318	0.600807
18/12/2037	1.130094	0.733883	0.739049	0.750739	0.553941	0.601349
19/12/2037	1.125736	0.731850	0.736769	0.748236	0.548967	0.601285
20/12/2037	1.121641	0.730025	0.734648	0.746208	0.544247	0.600889
21/12/2037	1.117709	0.728260	0.732613	0.744449	0.539246	0.600216
22/12/2037	1.113893	0.726443	0.730590	0.742747	0.534408	0.599984
23/12/2037	1.110165	0.724614	0.728585	0.741037	0.530387	0.600385
24/12/2037	1.106513	0.722787	0.726615	0.739349	0.526358	0.599936
25/12/2037	1.102934	0.720967	0.724678	0.737714	0.522693	0.599566
26/12/2037	1.099433	0.719158	0.722777	0.736136	0.519262	0.599065

27/12/2037	1.096012	0.717424	0.720943	0.734616	0.516829	0.600261
28/12/2037	1.092673	0.715648	0.719185	0.733156	0.514253	0.599949
29/12/2037	1.089411	0.713711	0.717466	0.731747	0.511670	0.598858
30/12/2037	1.085436	0.711179	0.715356	0.730035	0.508749	0.598377
31/12/2037	1.083098	0.709693	0.714113	0.729028	0.506926	0.597610
01/01/2038	1.080041	0.707856	0.712502	0.727718	0.505134	0.598522
02/01/2038	1.077051	0.706120	0.710951	0.726452	0.503210	0.599042
03/01/2038	1.074121	0.704369	0.709419	0.725223	0.500816	0.596516
04/01/2038	1.072015	0.703054	0.708329	0.724207	0.501439	0.599801
05/01/2038	1.070288	0.702257	0.707686	0.723451	0.502398	0.600472
06/01/2038	1.068218	0.701473	0.707019	0.722786	0.501626	0.598326
07/01/2038	1.065717	0.700288	0.706015	0.722004	0.499939	0.595907
08/01/2038	1.063026	0.698674	0.704695	0.721024	0.497455	0.592101
09/01/2038	1.060343	0.696923	0.703254	0.719916	0.495434	0.590079
10/01/2038	1.057734	0.695189	0.701823	0.718792	0.492982	0.586565
11/01/2038	1.055194	0.693589	0.700459	0.717713	0.491532	0.586231
12/01/2038	1.054501	0.693012	0.700065	0.717115	0.495011	0.597211
13/01/2038	1.053895	0.693062	0.700061	0.716867	0.496343	0.598872
14/01/2038	1.052382	0.692911	0.699718	0.716576	0.496695	0.599842
15/01/2038	1.051283	0.692631	0.699462	0.716272	0.498779	0.600111
16/01/2038	1.050561	0.692515	0.699485	0.716052	0.501751	0.600255
17/01/2038	1.059946	0.694701	0.702587	0.719172	0.514181	0.600468
18/01/2038	1.091911	0.701996	0.712825	0.730938	0.535115	0.600791
19/01/2038	1.120231	0.711902	0.725575	0.745276	0.546001	0.601217
20/01/2038	1.131233	0.719443	0.734285	0.754665	0.544863	0.600545
21/01/2038	1.135267	0.723493	0.738409	0.758265	0.549566	0.601443
22/01/2038	1.149382	0.727502	0.742943	0.762068	0.563233	0.601855
23/01/2038	1.168175	0.733851	0.749748	0.768074	0.580211	0.602124
24/01/2038	1.179236	0.740904	0.756094	0.773529	0.588844	0.602443
25/01/2038	1.197008	0.748046	0.763139	0.781021	0.599535	0.602739
26/01/2038	1.210449	0.753717	0.769333	0.787879	0.598953	0.601873
27/01/2038	1.213937	0.757247	0.772934	0.791181	0.595243	0.602675
28/01/2038	1.211470	0.758735	0.773637	0.790606	0.591481	0.603034
29/01/2038	1.206200	0.758435	0.772007	0.787590	0.584466	0.601993
30/01/2038	1.199998	0.756896	0.769114	0.783813	0.575598	0.601128
31/01/2038	1.193754	0.754779	0.765849	0.780222	0.566576	0.600738
01/02/2038	1.187793	0.752582	0.762648	0.777025	0.558334	0.600518
02/02/2038	1.190309	0.752854	0.762375	0.776621	0.565705	0.601830
03/02/2038	1.193757	0.754881	0.763553	0.777730	0.567737	0.600540
04/02/2038	1.194395	0.757205	0.764520	0.778451	0.570758	0.601944
05/02/2038	1.197887	0.759501	0.765702	0.779369	0.578539	0.602556
06/02/2038	1.200998	0.761736	0.767010	0.780181	0.584671	0.602759
07/02/2038	1.200004	0.763014	0.767279	0.780057	0.583002	0.602420
08/02/2038	1.198043	0.763209	0.766596	0.779026	0.580932	0.602622
09/02/2038	1.222830	0.766253	0.771732	0.786172	0.589391	0.602790
10/02/2038	1.248823	0.772042	0.780782	0.797637	0.591398	0.602432
11/02/2038	1.258493	0.777419	0.787755	0.805727	0.587893	0.603035
12/02/2038	1.255708	0.779914	0.789908	0.807449	0.584421	0.603375

13/02/2038	1.248173	0.779268	0.788133	0.804406	0.577858	0.602041
14/02/2038	1.240254	0.776892	0.784627	0.799695	0.570092	0.601463
15/02/2038	1.233051	0.774159	0.780884	0.795308	0.562224	0.601180
16/02/2038	1.226483	0.771656	0.777388	0.791699	0.554810	0.600768
17/02/2038	1.220345	0.769447	0.774158	0.788587	0.549112	0.601334
18/02/2038	1.214485	0.767343	0.771093	0.785663	0.543847	0.601019
19/02/2038	1.208809	0.765301	0.768140	0.782808	0.540279	0.601791
20/02/2038	1.203276	0.763189	0.765249	0.780028	0.535489	0.600076
21/02/2038	1.197881	0.760980	0.762373	0.777334	0.530740	0.598295
22/02/2038	1.192631	0.758743	0.759540	0.774728	0.526418	0.597677
23/02/2038	1.187536	0.756627	0.756833	0.772224	0.523700	0.601123
24/02/2038	1.182596	0.754562	0.754256	0.769840	0.520431	0.600377
25/02/2038	1.177800	0.752452	0.751735	0.767555	0.517067	0.597476
26/02/2038	1.173137	0.750312	0.749251	0.765336	0.514010	0.595450
27/02/2038	1.168596	0.748154	0.746815	0.763172	0.510715	0.592376
28/02/2038	1.164168	0.745998	0.744430	0.761066	0.507616	0.588977
01/03/2038	1.159842	0.743764	0.742053	0.759011	0.503727	0.581628
02/03/2038	1.155597	0.741390	0.739616	0.756977	0.499314	0.570570
03/03/2038	1.155795	0.741461	0.739640	0.756209	0.506344	0.576886
04/03/2038	1.156539	0.743324	0.740684	0.756343	0.511823	0.584177
05/03/2038	1.155064	0.744489	0.740719	0.756290	0.511508	0.581761
06/03/2038	1.151653	0.743520	0.739186	0.755347	0.507475	0.572346
07/03/2038	1.147530	0.741121	0.736760	0.753579	0.503879	0.567654
08/03/2038	1.144176	0.738940	0.734700	0.751698	0.502899	0.576337
09/03/2038	1.143782	0.738979	0.734631	0.750828	0.511053	0.597951
10/03/2038	1.143343	0.740190	0.735157	0.750683	0.516726	0.599390
11/03/2038	1.141221	0.740487	0.734732	0.750360	0.515917	0.588024
12/03/2038	1.137810	0.738982	0.733070	0.749319	0.510753	0.572767
13/03/2038	1.133974	0.736285	0.730691	0.747637	0.504114	0.557952
14/03/2038	1.130171	0.733342	0.728133	0.745694	0.497703	0.544932
15/03/2038	1.126480	0.730612	0.725643	0.743783	0.492027	0.533664
16/03/2038	1.122861	0.728102	0.723254	0.741987	0.486973	0.523689
17/03/2038	1.119287	0.725726	0.720946	0.740277	0.482689	0.516069
18/03/2038	1.115745	0.723397	0.718697	0.738608	0.478444	0.508871
19/03/2038	1.112235	0.721082	0.716480	0.736960	0.474381	0.502175
20/03/2038	1.108757	0.718804	0.714295	0.735331	0.470590	0.496570
21/03/2038	1.105312	0.716534	0.712135	0.733723	0.466508	0.490116
22/03/2038	1.101901	0.714266	0.709986	0.732134	0.462526	0.483688
23/03/2038	1.099545	0.712783	0.708516	0.730835	0.463650	0.493831
24/03/2038	1.099403	0.713078	0.708668	0.730364	0.469454	0.513023
25/03/2038	1.099266	0.714401	0.709515	0.730487	0.474308	0.533111
26/03/2038	1.097685	0.715096	0.709804	0.730536	0.475336	0.543139
27/03/2038	1.094941	0.714363	0.709125	0.730056	0.474142	0.545702
28/03/2038	1.092157	0.712872	0.708028	0.729138	0.473940	0.552481
29/03/2038	1.089436	0.711054	0.706786	0.728038	0.470662	0.547734
30/03/2038	1.086658	0.709009	0.705338	0.726876	0.467249	0.538215
31/03/2038	1.083806	0.706690	0.703669	0.725644	0.463343	0.526624
01/04/2038	1.080921	0.704117	0.701786	0.724318	0.458944	0.509167

02/04/2038	1.078024	0.701488	0.699710	0.722895	0.454853	0.491949
03/04/2038	1.075110	0.698968	0.697528	0.721405	0.451036	0.476537
04/04/2038	1.072173	0.696543	0.695301	0.719890	0.446940	0.461460
05/04/2038	1.069211	0.694161	0.693039	0.718371	0.442936	0.447652
06/04/2038	1.066226	0.691805	0.690764	0.716851	0.439125	0.435748
07/04/2038	1.063239	0.689686	0.688596	0.715358	0.437402	0.432310
08/04/2038	1.060268	0.687651	0.686549	0.713928	0.434025	0.425479
09/04/2038	1.057312	0.685549	0.684494	0.712534	0.430552	0.416835
10/04/2038	1.055060	0.684088	0.682949	0.711335	0.432380	0.427969
11/04/2038	1.052905	0.683165	0.681897	0.710375	0.433041	0.435999
12/04/2038	1.050469	0.681898	0.680783	0.709508	0.430545	0.432144
13/04/2038	1.047782	0.679956	0.679252	0.708505	0.427710	0.424599
14/04/2038	1.044994	0.677606	0.677370	0.707272	0.423949	0.414450
15/04/2038	1.042211	0.675435	0.675438	0.705913	0.422181	0.411459
16/04/2038	1.041530	0.674871	0.674816	0.705115	0.427247	0.424840
17/04/2038	1.041021	0.675258	0.674851	0.704837	0.429157	0.428766
18/04/2038	1.039482	0.675145	0.674413	0.704560	0.427931	0.424556
19/04/2038	1.037070	0.673812	0.673137	0.703863	0.424533	0.415087
20/04/2038	1.034329	0.671652	0.671311	0.702713	0.420756	0.405340
21/04/2038	1.031575	0.669290	0.669304	0.701340	0.416581	0.395162
22/04/2038	1.028869	0.667050	0.667294	0.699947	0.412696	0.386038
23/04/2038	1.026188	0.664970	0.665328	0.698611	0.409163	0.378600
24/04/2038	1.023510	0.662955	0.663399	0.697320	0.405539	0.371443
25/04/2038	1.020830	0.660969	0.661490	0.696046	0.402211	0.365486
26/04/2038	1.018150	0.658986	0.659593	0.694775	0.398711	0.359469
27/04/2038	1.017360	0.658341	0.658827	0.693987	0.403439	0.374166
28/04/2038	1.016693	0.658496	0.658669	0.693630	0.404206	0.378228
29/04/2038	1.015089	0.658243	0.658124	0.693277	0.402811	0.375948
30/04/2038	1.012711	0.656971	0.656873	0.692574	0.399661	0.369753
01/05/2038	1.010046	0.654845	0.655085	0.691474	0.394738	0.356865
02/05/2038	1.007362	0.652407	0.653013	0.690131	0.389813	0.343101
03/05/2038	1.004701	0.650013	0.650846	0.688710	0.384922	0.330039
04/05/2038	1.002043	0.647816	0.648702	0.687308	0.380929	0.320732
05/05/2038	0.999377	0.645751	0.646625	0.685956	0.376871	0.312600
06/05/2038	0.996701	0.643685	0.644571	0.684637	0.372558	0.303956
07/05/2038	0.994011	0.641574	0.642493	0.683315	0.368287	0.295585
08/05/2038	0.991346	0.639951	0.640639	0.682029	0.368991	0.304923
09/05/2038	0.988735	0.638416	0.639009	0.680853	0.365348	0.301520
10/05/2038	0.986159	0.636678	0.637313	0.679730	0.362053	0.295663
11/05/2038	0.983586	0.634696	0.635460	0.678552	0.357994	0.288079
12/05/2038	0.981002	0.632615	0.633514	0.677293	0.353699	0.279940
13/05/2038	0.980115	0.631914	0.632648	0.676449	0.358483	0.296688
14/05/2038	0.984850	0.635135	0.635741	0.677690	0.370354	0.323570
15/05/2038	0.989777	0.640603	0.640175	0.680255	0.380561	0.350953
16/05/2038	0.991296	0.644542	0.642887	0.682379	0.383477	0.360298
17/05/2038	0.991153	0.646097	0.643911	0.683327	0.388494	0.378754
18/05/2038	0.990032	0.645799	0.643874	0.683234	0.388834	0.382201
19/05/2038	0.988290	0.644580	0.643150	0.682569	0.387649	0.379538

20/05/2038	0.986213	0.642746	0.641910	0.681648	0.383290	0.366503
21/05/2038	0.984014	0.640634	0.640328	0.680583	0.379458	0.353565
22/05/2038	0.981790	0.638434	0.638580	0.679427	0.374724	0.339130
23/05/2038	0.979543	0.636259	0.636752	0.678225	0.370243	0.325791
24/05/2038	0.977255	0.634156	0.634892	0.677007	0.366099	0.314685
25/05/2038	0.978512	0.634532	0.635246	0.676827	0.374140	0.329024
26/05/2038	0.980167	0.636728	0.636692	0.677478	0.379191	0.339066
27/05/2038	0.980026	0.638292	0.637370	0.678070	0.378903	0.338021
28/05/2038	0.978290	0.637781	0.636642	0.677926	0.375533	0.329343
29/05/2038	0.975910	0.635691	0.634954	0.676998	0.371104	0.318353
30/05/2038	0.973456	0.633139	0.632937	0.675665	0.366218	0.306603
31/05/2038	0.971054	0.630764	0.630924	0.674288	0.361645	0.296032
01/06/2038	0.968670	0.628605	0.628969	0.673001	0.357054	0.285588
02/06/2038	0.966270	0.626525	0.627032	0.671778	0.352639	0.275993
03/06/2038	0.963845	0.624447	0.625089	0.670561	0.348282	0.267202
04/06/2038	0.961394	0.622366	0.623139	0.669327	0.343986	0.259189
05/06/2038	0.958931	0.620433	0.621253	0.668097	0.341055	0.256122
06/06/2038	0.956476	0.618648	0.619487	0.666913	0.338028	0.254139
07/06/2038	0.956514	0.618728	0.619328	0.666457	0.345911	0.274213
08/06/2038	0.957336	0.620605	0.620442	0.666768	0.354275	0.300939
09/06/2038	0.957036	0.622100	0.621322	0.667257	0.355017	0.305254
10/06/2038	0.960061	0.624661	0.623863	0.668627	0.365096	0.325228
11/06/2038	0.963059	0.627627	0.626631	0.670322	0.368490	0.329668
12/06/2038	0.963633	0.629200	0.627797	0.671376	0.366563	0.321596
13/06/2038	0.962169	0.628526	0.627100	0.671298	0.362503	0.309744
14/06/2038	0.959894	0.626306	0.625327	0.670298	0.357349	0.296484
15/06/2038	0.959504	0.625245	0.624517	0.669436	0.362430	0.309791
16/06/2038	0.959329	0.625221	0.624437	0.669063	0.362134	0.308491
17/06/2038	0.958208	0.624987	0.624018	0.668817	0.360590	0.303429
18/06/2038	0.956253	0.623707	0.622868	0.668259	0.356528	0.293562
19/06/2038	0.953964	0.621610	0.621197	0.667286	0.351825	0.282272
20/06/2038	0.951645	0.619434	0.619398	0.666093	0.348560	0.276406
21/06/2038	0.949364	0.617381	0.617649	0.664895	0.344055	0.268153
22/06/2038	0.947098	0.615405	0.615914	0.663759	0.339992	0.260286
23/06/2038	0.944822	0.613431	0.614164	0.662647	0.335855	0.252748
24/06/2038	0.942530	0.611451	0.612401	0.661527	0.331724	0.245621
25/06/2038	0.940225	0.609504	0.610646	0.660396	0.327818	0.239620
26/06/2038	0.937915	0.607619	0.608923	0.659273	0.324151	0.234881
27/06/2038	0.935607	0.605774	0.607234	0.658168	0.320424	0.230328
28/06/2038	0.933306	0.603965	0.605575	0.657082	0.316956	0.226639
29/06/2038	0.931014	0.602156	0.603934	0.656007	0.313206	0.222319
30/06/2038	0.928730	0.600342	0.602296	0.654936	0.309536	0.218073
01/07/2038	0.926448	0.598434	0.600611	0.653854	0.305015	0.210221
02/07/2038	0.924184	0.596865	0.599037	0.652781	0.304785	0.215282
03/07/2038	0.921951	0.595345	0.597601	0.651774	0.300775	0.211764
04/07/2038	0.919748	0.593796	0.596173	0.650811	0.298570	0.210268
05/07/2038	0.917565	0.592153	0.594708	0.649843	0.295333	0.206786
06/07/2038	0.915762	0.591186	0.593670	0.648991	0.298449	0.224214

07/07/2038	0.914068	0.590599	0.593054	0.648346	0.298572	0.231850
08/07/2038	0.912277	0.589688	0.592333	0.647790	0.296038	0.228856
09/07/2038	0.910392	0.588655	0.591428	0.647152	0.297108	0.235912
10/07/2038	0.908479	0.587254	0.590380	0.646404	0.292541	0.228502
11/07/2038	0.908609	0.587218	0.590442	0.646104	0.299970	0.246772
12/07/2038	0.908892	0.587863	0.591010	0.646214	0.300028	0.244970
13/07/2038	0.908141	0.587957	0.590969	0.646256	0.298408	0.237699
14/07/2038	0.909621	0.589206	0.592065	0.646744	0.307554	0.254668
15/07/2038	0.911100	0.590984	0.593521	0.647510	0.308615	0.251296
16/07/2038	0.915891	0.594894	0.597014	0.649436	0.320324	0.271154
17/07/2038	0.925641	0.602320	0.603983	0.653453	0.335325	0.297932
18/07/2038	0.933131	0.609753	0.610273	0.657827	0.339996	0.299430
19/07/2038	0.935498	0.614110	0.613213	0.660554	0.344756	0.310682
20/07/2038	0.934502	0.614606	0.613283	0.661120	0.343836	0.311087
21/07/2038	0.932472	0.612756	0.611946	0.660278	0.341204	0.305274
22/07/2038	0.930457	0.610121	0.610179	0.658971	0.336184	0.290527
23/07/2038	0.928595	0.608055	0.608568	0.657737	0.336310	0.290740
24/07/2038	0.928548	0.607757	0.608346	0.657194	0.341643	0.307641
25/07/2038	0.928612	0.608047	0.608691	0.657195	0.341279	0.302991
26/07/2038	0.928284	0.608510	0.608993	0.657325	0.346666	0.318527
27/07/2038	0.927278	0.608499	0.609046	0.657275	0.348115	0.324947
28/07/2038	0.925779	0.607578	0.608600	0.656937	0.345636	0.318064
29/07/2038	0.925429	0.607102	0.608553	0.656675	0.350758	0.331877
30/07/2038	0.925146	0.607117	0.608832	0.656584	0.352554	0.335820
31/07/2038	0.924210	0.606653	0.608701	0.656459	0.349618	0.324523
01/08/2038	0.924374	0.606665	0.608938	0.656473	0.355458	0.336515
02/08/2038	0.924400	0.606645	0.609226	0.656539	0.353647	0.326260
03/08/2038	0.923528	0.605921	0.608812	0.656376	0.350238	0.309797
04/08/2038	0.921920	0.604265	0.607580	0.655780	0.345097	0.291407
05/08/2038	0.919997	0.602036	0.605857	0.654807	0.339229	0.272780
06/08/2038	0.918051	0.600331	0.604266	0.653728	0.339844	0.277348
07/08/2038	0.916168	0.598887	0.602956	0.652784	0.335735	0.269646
08/08/2038	0.914310	0.597292	0.601589	0.651945	0.331863	0.259106
09/08/2038	0.912422	0.595388	0.600007	0.651049	0.326984	0.246379
10/08/2038	0.910480	0.593354	0.598281	0.650037	0.322177	0.234482
11/08/2038	0.908503	0.591584	0.596626	0.648984	0.319668	0.231128
12/08/2038	0.906540	0.590301	0.595255	0.648026	0.319013	0.236176
13/08/2038	0.904603	0.588934	0.593997	0.647192	0.314480	0.229842
14/08/2038	0.902669	0.587239	0.592568	0.646354	0.310405	0.221092
15/08/2038	0.900711	0.585344	0.590956	0.645408	0.306061	0.212309
16/08/2038	0.898722	0.583404	0.589259	0.644372	0.301149	0.202484
17/08/2038	0.896705	0.581496	0.587530	0.643307	0.296434	0.193483
18/08/2038	0.894666	0.579627	0.585791	0.642245	0.291834	0.185536
19/08/2038	0.892610	0.577787	0.584055	0.641190	0.287353	0.178506
20/08/2038	0.890542	0.575990	0.582339	0.640139	0.283184	0.172868
21/08/2038	0.888480	0.574419	0.580740	0.639116	0.280917	0.173618
22/08/2038	0.886435	0.572865	0.579231	0.638144	0.276679	0.169681
23/08/2038	0.884403	0.571221	0.577695	0.637189	0.272880	0.165146

24/08/2038	0.882375	0.569496	0.576104	0.636208	0.268871	0.160298
25/08/2038	0.880360	0.568020	0.574614	0.635225	0.267425	0.163496
26/08/2038	0.878374	0.566619	0.573253	0.634299	0.263747	0.161763
27/08/2038	0.876412	0.565118	0.571876	0.633409	0.260273	0.158259
28/08/2038	0.874493	0.564048	0.570681	0.632557	0.262074	0.171367
29/08/2038	0.872633	0.562966	0.569660	0.631788	0.258334	0.170082
30/08/2038	0.870808	0.561630	0.568531	0.631040	0.255488	0.166392
31/08/2038	0.868989	0.560054	0.567227	0.630220	0.251939	0.161293
01/09/2038	0.867177	0.558703	0.565985	0.629354	0.250842	0.165952
02/09/2038	0.870687	0.560560	0.568139	0.630123	0.260093	0.189608
03/09/2038	0.874915	0.564493	0.571654	0.632104	0.264611	0.201909
04/09/2038	0.876511	0.567699	0.573878	0.633864	0.266978	0.211902
05/09/2038	0.875732	0.568462	0.574208	0.634482	0.265633	0.215148
06/09/2038	0.874024	0.567358	0.573394	0.634039	0.263884	0.216874
07/09/2038	0.872264	0.565672	0.572276	0.633132	0.261595	0.216805
08/09/2038	0.870644	0.564159	0.571236	0.632234	0.259596	0.216582
09/09/2038	0.869112	0.562935	0.570335	0.631492	0.257957	0.217100
10/09/2038	0.867616	0.561854	0.569528	0.630861	0.256417	0.217833
11/09/2038	0.866137	0.560777	0.568751	0.630264	0.254775	0.217991
12/09/2038	0.864666	0.559689	0.567976	0.629661	0.253371	0.218582
13/09/2038	0.863200	0.558592	0.567201	0.629051	0.251752	0.218521
14/09/2038	0.862554	0.558303	0.567074	0.628683	0.256096	0.238405
15/09/2038	0.862591	0.559063	0.567911	0.628776	0.261780	0.264590
16/09/2038	0.862364	0.559810	0.568927	0.629143	0.262983	0.272738
17/09/2038	0.861589	0.559760	0.569353	0.629372	0.262694	0.272497
18/09/2038	0.860470	0.558907	0.569124	0.629222	0.260939	0.267389
19/09/2038	0.859251	0.557720	0.568547	0.628766	0.259012	0.261687
20/09/2038	0.858041	0.556583	0.567894	0.628205	0.257388	0.257597
21/09/2038	0.856851	0.555552	0.567253	0.627670	0.255597	0.253525
22/09/2038	0.855665	0.554569	0.566613	0.627177	0.253989	0.249964
23/09/2038	0.854472	0.553587	0.565959	0.626695	0.252382	0.246674
24/09/2038	0.853269	0.552604	0.565289	0.626203	0.250783	0.243587
25/09/2038	0.852060	0.551628	0.564606	0.625701	0.249205	0.240736
26/09/2038	0.850848	0.550705	0.563933	0.625200	0.248035	0.239426
27/09/2038	0.849638	0.549797	0.563274	0.624711	0.246488	0.237345
28/09/2038	0.848432	0.548881	0.562608	0.624227	0.245048	0.235255
29/09/2038	0.847228	0.547977	0.561938	0.623743	0.243771	0.233829
30/09/2038	0.846027	0.547079	0.561271	0.623258	0.242296	0.231980
01/10/2038	0.844842	0.546359	0.560700	0.622799	0.242389	0.237138
02/10/2038	0.843693	0.545824	0.560310	0.622410	0.242392	0.243975
03/10/2038	0.842601	0.545462	0.560104	0.622118	0.243333	0.253752
04/10/2038	0.841585	0.545299	0.560096	0.621924	0.245318	0.267428
05/10/2038	0.842132	0.546035	0.561059	0.622176	0.251052	0.289016
06/10/2038	0.845157	0.548680	0.563776	0.623372	0.262206	0.314983
07/10/2038	0.850576	0.553823	0.568434	0.625802	0.278225	0.341770
08/10/2038	0.854511	0.559130	0.572734	0.628484	0.286527	0.352803
09/10/2038	0.859426	0.564394	0.577323	0.631372	0.299046	0.369150
10/10/2038	0.863094	0.568547	0.581085	0.633848	0.304476	0.373626

11/10/2038	0.864451	0.570797	0.583169	0.635378	0.306622	0.375509
12/10/2038	0.864235	0.571100	0.583830	0.635923	0.306147	0.374425
13/10/2038	0.863502	0.570422	0.583849	0.635847	0.306601	0.377411
14/10/2038	0.862789	0.569531	0.583766	0.635592	0.305759	0.376642
15/10/2038	0.862177	0.568792	0.583730	0.635388	0.305788	0.376514
16/10/2038	0.861603	0.568167	0.583719	0.635258	0.305397	0.374950
17/10/2038	0.861021	0.567560	0.583684	0.635148	0.305056	0.373000
18/10/2038	0.860414	0.566913	0.583596	0.635015	0.304488	0.370388
19/10/2038	0.859779	0.566255	0.583463	0.634853	0.304094	0.368435
20/10/2038	0.861634	0.567188	0.584750	0.635337	0.312132	0.380533
21/10/2038	0.871809	0.573087	0.591402	0.638790	0.326598	0.399710
22/10/2038	0.881792	0.581427	0.599183	0.643801	0.336132	0.413122
23/10/2038	0.886514	0.587648	0.604054	0.647808	0.340552	0.422253
24/10/2038	0.887063	0.589796	0.605610	0.649577	0.342417	0.429503
25/10/2038	0.886102	0.589010	0.605321	0.649561	0.341622	0.427535
26/10/2038	0.885081	0.587481	0.604580	0.648852	0.341976	0.427823
27/10/2038	0.884263	0.586204	0.603984	0.648202	0.340881	0.423725
28/10/2038	0.883539	0.585264	0.603548	0.647790	0.340295	0.419562
29/10/2038	0.882819	0.584469	0.603172	0.647505	0.339825	0.416257
30/10/2038	0.882360	0.584005	0.603046	0.647321	0.341738	0.422621
31/10/2038	0.881984	0.583881	0.603215	0.647251	0.344068	0.431545
01/11/2038	0.887156	0.586598	0.606708	0.648918	0.354136	0.446076
02/11/2038	0.894589	0.592054	0.612120	0.652076	0.365332	0.464027
03/11/2038	0.902839	0.599318	0.618482	0.656164	0.379774	0.482480
04/11/2038	0.908664	0.605819	0.623703	0.659844	0.389651	0.499798
05/11/2038	0.910828	0.609429	0.626553	0.662110	0.392901	0.506939
06/11/2038	0.913041	0.611404	0.628666	0.663502	0.399798	0.516127
07/11/2038	0.915906	0.613400	0.630944	0.664710	0.406864	0.528982
08/11/2038	0.917532	0.615168	0.632755	0.665765	0.409624	0.533304
09/11/2038	0.917558	0.615834	0.633592	0.666400	0.410208	0.533197
10/11/2038	0.916733	0.615276	0.633614	0.666507	0.409496	0.530738
11/11/2038	0.916292	0.614442	0.633598	0.666392	0.410425	0.535151
12/11/2038	0.921203	0.616459	0.636703	0.667816	0.419430	0.545990
13/11/2038	0.930316	0.622592	0.642917	0.671342	0.434239	0.559959
14/11/2038	0.943111	0.632499	0.651922	0.677049	0.451269	0.576545
15/11/2038	0.955107	0.643339	0.660815	0.683293	0.468074	0.592514
16/11/2038	0.961391	0.650997	0.666226	0.687792	0.475620	0.598272
17/11/2038	0.962488	0.653584	0.667669	0.689620	0.475664	0.592487
18/11/2038	0.961191	0.652415	0.666728	0.689380	0.473576	0.584876
19/11/2038	0.959459	0.649978	0.665123	0.688272	0.471472	0.579386
20/11/2038	0.957977	0.647892	0.663767	0.687195	0.470399	0.577548
21/11/2038	0.959778	0.648159	0.664405	0.687226	0.477911	0.584229
22/11/2038	0.964593	0.651195	0.666957	0.688560	0.489452	0.598305
23/11/2038	0.971618	0.656039	0.670581	0.690816	0.507510	0.599621
24/11/2038	0.977184	0.660892	0.674057	0.693235	0.522052	0.599646
25/11/2038	0.979018	0.663803	0.676014	0.694888	0.525421	0.598811
26/11/2038	0.978721	0.664521	0.676603	0.695560	0.524292	0.599430
27/11/2038	0.984343	0.665533	0.677983	0.696287	0.533742	0.599665

28/11/2038	1.008563	0.670403	0.683155	0.699084	0.551290	0.599857
29/11/2038	1.054243	0.681107	0.695056	0.709726	0.571194	0.600172
30/11/2038	1.089445	0.693591	0.708656	0.723568	0.578875	0.600616
01/12/2038	1.104550	0.703001	0.718489	0.733974	0.579356	0.601077
02/12/2038	1.122073	0.709879	0.726644	0.743082	0.586735	0.601426
03/12/2038	1.141714	0.716468	0.734816	0.751680	0.597577	0.601699
04/12/2038	1.156687	0.723471	0.742384	0.758795	0.607206	0.601971
05/12/2038	1.169199	0.730532	0.748933	0.764688	0.618657	0.602232
06/12/2038	1.178241	0.736730	0.754007	0.768845	0.625919	0.602449
07/12/2038	1.181614	0.741214	0.756990	0.770528	0.626558	0.602606
08/12/2038	1.179620	0.743453	0.757697	0.770021	0.621764	0.602672
09/12/2038	1.174280	0.743521	0.756447	0.768029	0.612710	0.602554
10/12/2038	1.167833	0.742175	0.754057	0.765356	0.602501	0.602302
11/12/2038	1.163561	0.740741	0.751806	0.762879	0.595864	0.602170
12/12/2038	1.161342	0.740191	0.750517	0.761165	0.593807	0.602229
13/12/2038	1.160205	0.740670	0.750314	0.760686	0.593970	0.602349
14/12/2038	1.157805	0.741232	0.750212	0.760582	0.590820	0.602328
15/12/2038	1.153619	0.740890	0.749284	0.759884	0.583579	0.601235
16/12/2038	1.152155	0.740537	0.748506	0.759018	0.583649	0.601799
17/12/2038	1.160536	0.742305	0.750280	0.760846	0.594638	0.602126
18/12/2038	1.168337	0.745714	0.753489	0.764126	0.601123	0.602362
19/12/2038	1.169994	0.748674	0.755879	0.766516	0.600853	0.602539
20/12/2038	1.166500	0.749434	0.756064	0.766717	0.593601	0.601580
21/12/2038	1.164599	0.748915	0.755130	0.765329	0.590912	0.602143
22/12/2038	1.162673	0.747973	0.753617	0.763326	0.586365	0.602082
23/12/2038	1.161366	0.747474	0.752377	0.761579	0.585496	0.602175
24/12/2038	1.159425	0.747319	0.751407	0.760266	0.584198	0.602246
25/12/2038	1.155968	0.746827	0.750174	0.759045	0.579963	0.602190
26/12/2038	1.151427	0.745544	0.748408	0.757599	0.573389	0.601604
27/12/2038	1.146570	0.743566	0.746214	0.755861	0.565810	0.600792
28/12/2038	1.141845	0.741344	0.743867	0.753963	0.559163	0.600980
29/12/2038	1.158740	0.742573	0.746975	0.758864	0.566918	0.601581
30/12/2038	1.186761	0.750430	0.757918	0.771633	0.580873	0.602230
31/12/2038	1.191735	0.755478	0.763153	0.777055	0.581604	0.602569
01/01/2039	1.188889	0.756655	0.763782	0.777095	0.579476	0.602701
02/01/2039	1.188172	0.756554	0.763556	0.776002	0.578859	0.602732
03/01/2039	1.185933	0.756228	0.762898	0.774934	0.574744	0.602588
04/01/2039	1.180824	0.754897	0.761031	0.773013	0.568643	0.602372
05/01/2039	1.175964	0.753204	0.758881	0.770734	0.564546	0.602262
06/01/2039	1.172288	0.752149	0.757319	0.768761	0.564293	0.602317
07/01/2039	1.168759	0.751522	0.756019	0.767192	0.562441	0.602313
08/01/2039	1.164003	0.750160	0.754010	0.765247	0.558479	0.602184
09/01/2039	1.161014	0.749070	0.752608	0.763825	0.556978	0.602165
10/01/2039	1.159700	0.748446	0.751697	0.762648	0.557332	0.602242
11/01/2039	1.158276	0.747990	0.750807	0.761353	0.557449	0.602295
12/01/2039	1.155258	0.747184	0.749576	0.760059	0.554867	0.602165
13/01/2039	1.154200	0.746502	0.748662	0.759199	0.555941	0.602093
14/01/2039	1.162847	0.747939	0.750482	0.761382	0.567975	0.602172

15/01/2039	1.171491	0.751128	0.753916	0.765085	0.576110	0.602364
16/01/2039	1.193395	0.758586	0.763383	0.773790	0.588697	0.602636
17/01/2039	1.211927	0.767299	0.773729	0.783557	0.591664	0.602824
18/01/2039	1.217504	0.772837	0.779342	0.789329	0.585573	0.601856
19/01/2039	1.213720	0.773475	0.779309	0.789732	0.576260	0.601513
20/01/2039	1.206874	0.770814	0.776045	0.786622	0.567052	0.601327
21/01/2039	1.200801	0.767661	0.772403	0.782729	0.562448	0.602296
22/01/2039	1.212242	0.770238	0.776430	0.784621	0.571860	0.602703
23/01/2039	1.225731	0.776768	0.783616	0.790211	0.575984	0.602219
24/01/2039	1.231054	0.782435	0.788209	0.794650	0.577688	0.603006
25/01/2039	1.228501	0.783986	0.788275	0.795371	0.573377	0.602199
26/01/2039	1.222473	0.781923	0.785224	0.792937	0.566436	0.601756
27/01/2039	1.219677	0.779403	0.782298	0.790117	0.567139	0.602676
28/01/2039	1.226577	0.781680	0.785148	0.790509	0.579510	0.603058
29/01/2039	1.233470	0.787064	0.789823	0.792967	0.586953	0.603303
30/01/2039	1.234043	0.790742	0.791639	0.794562	0.584516	0.602313
31/01/2039	1.229584	0.790403	0.789822	0.793790	0.577788	0.602585
01/02/2039	1.223682	0.787427	0.786231	0.791210	0.571654	0.602937
02/02/2039	1.221437	0.784821	0.783488	0.788808	0.572928	0.603013
03/02/2039	1.220311	0.783641	0.781962	0.787268	0.575132	0.603136
04/02/2039	1.219375	0.783381	0.781076	0.786272	0.577173	0.603259
05/02/2039	1.216905	0.782844	0.779860	0.785160	0.575960	0.603218
06/02/2039	1.212585	0.781244	0.777796	0.783526	0.570452	0.602020
07/02/2039	1.207484	0.778870	0.775174	0.781449	0.565373	0.602513
08/02/2039	1.202385	0.776314	0.772465	0.779229	0.560895	0.602612
09/02/2039	1.197381	0.773826	0.769814	0.777060	0.556244	0.602115
10/02/2039	1.192767	0.771561	0.767373	0.775051	0.553252	0.602333
11/02/2039	1.188627	0.769593	0.765250	0.773248	0.551451	0.602428
12/02/2039	1.184450	0.767685	0.763204	0.771544	0.548502	0.601990
13/02/2039	1.180068	0.765604	0.761018	0.769811	0.544747	0.601757
14/02/2039	1.175604	0.763252	0.758657	0.767990	0.539805	0.600807
15/02/2039	1.171305	0.760891	0.756303	0.766139	0.536623	0.601658
16/02/2039	1.175890	0.760185	0.755997	0.766983	0.546923	0.602018
17/02/2039	1.181132	0.760910	0.757198	0.769315	0.551659	0.600951
18/02/2039	1.188172	0.762747	0.759300	0.772600	0.564036	0.601964
19/02/2039	1.191607	0.764311	0.760928	0.774974	0.567245	0.601364
20/02/2039	1.189971	0.764532	0.761102	0.775306	0.563969	0.601853
21/02/2039	1.196581	0.766196	0.763745	0.777142	0.571033	0.602266
22/02/2039	1.208732	0.770488	0.768927	0.781264	0.583732	0.602560
23/02/2039	1.216728	0.776226	0.774627	0.785394	0.591825	0.602908
24/02/2039	1.218981	0.780808	0.778555	0.788404	0.595790	0.603173
25/02/2039	1.221460	0.784072	0.781527	0.790501	0.601830	0.603327
26/02/2039	1.222782	0.786097	0.783283	0.791500	0.603846	0.603385
27/02/2039	1.237191	0.791487	0.790169	0.796086	0.612333	0.603473
28/02/2039	1.260148	0.800840	0.801017	0.804947	0.625940	0.603707
01/03/2039	1.273952	0.809072	0.809070	0.812882	0.624798	0.599804
02/03/2039	1.274814	0.811949	0.810900	0.815875	0.613765	0.595954
03/03/2039	1.268601	0.809557	0.807809	0.813950	0.598560	0.589654

04/03/2039	1.260812	0.804749	0.802729	0.809552	0.584257	0.582898
05/03/2039	1.253565	0.800054	0.797700	0.804957	0.573538	0.581062
06/03/2039	1.247008	0.796123	0.793283	0.801093	0.563328	0.575588
07/03/2039	1.240863	0.792658	0.789266	0.797848	0.554492	0.568921
08/03/2039	1.234938	0.789288	0.785397	0.794839	0.546391	0.561487
09/03/2039	1.229140	0.785893	0.781576	0.791854	0.538970	0.553919
10/03/2039	1.223434	0.782503	0.777802	0.788876	0.532164	0.546672
11/03/2039	1.217826	0.779350	0.774188	0.785974	0.527650	0.547125
12/03/2039	1.212551	0.776667	0.770989	0.783289	0.525023	0.556426
13/03/2039	1.207429	0.774067	0.768054	0.780829	0.520319	0.556622
14/03/2039	1.202483	0.771619	0.765286	0.778524	0.518800	0.565539
15/03/2039	1.197595	0.769056	0.762565	0.776285	0.514475	0.564396
16/03/2039	1.192727	0.766276	0.759738	0.774036	0.510139	0.557980
17/03/2039	1.187907	0.763339	0.756796	0.771744	0.505503	0.549089
18/03/2039	1.183167	0.760385	0.753828	0.769434	0.501048	0.540565
19/03/2039	1.180124	0.758537	0.751819	0.767559	0.502786	0.550312
20/03/2039	1.177311	0.757632	0.750494	0.766134	0.503979	0.564082
21/03/2039	1.173761	0.756463	0.749020	0.764825	0.501552	0.565076
22/03/2039	1.169594	0.754461	0.746995	0.763292	0.498982	0.562140
23/03/2039	1.165250	0.751831	0.744576	0.761458	0.495453	0.555774
24/03/2039	1.160990	0.749171	0.742104	0.759485	0.493129	0.553732
25/03/2039	1.158602	0.747701	0.740681	0.757982	0.495697	0.564845
26/03/2039	1.156378	0.746871	0.739741	0.756917	0.494908	0.566159
27/03/2039	1.153310	0.745703	0.738431	0.755859	0.493231	0.562889
28/03/2039	1.149577	0.743838	0.736591	0.754505	0.491169	0.560245
29/03/2039	1.151088	0.744340	0.737559	0.754480	0.498762	0.570031
30/03/2039	1.156266	0.748463	0.741219	0.756220	0.517034	0.592955
31/03/2039	1.158958	0.753133	0.744191	0.758198	0.527785	0.600399
01/04/2039	1.157686	0.755215	0.744701	0.758935	0.530883	0.601228
02/04/2039	1.154259	0.754314	0.743283	0.758158	0.530039	0.601207
03/04/2039	1.150345	0.751705	0.741006	0.756473	0.525163	0.590791
04/04/2039	1.146545	0.748553	0.738421	0.754519	0.517935	0.571053
05/04/2039	1.142865	0.745358	0.735679	0.752567	0.510340	0.546820
06/04/2039	1.139212	0.742229	0.732821	0.750632	0.503084	0.522397
07/04/2039	1.135555	0.739434	0.730021	0.748708	0.499078	0.509714
08/04/2039	1.131891	0.736719	0.727310	0.746828	0.493007	0.492773
09/04/2039	1.128210	0.733944	0.724564	0.744972	0.487756	0.476880
10/04/2039	1.124504	0.731080	0.721736	0.743092	0.482105	0.460762
11/04/2039	1.120773	0.728191	0.718853	0.741175	0.476487	0.445318
12/04/2039	1.117027	0.725334	0.715955	0.739243	0.470984	0.431117
13/04/2039	1.113271	0.722531	0.713071	0.737320	0.465640	0.418286
14/04/2039	1.109515	0.719774	0.710213	0.735416	0.460449	0.406715
15/04/2039	1.105763	0.717052	0.707384	0.733532	0.455391	0.396228
16/04/2039	1.102024	0.714406	0.704605	0.731671	0.450855	0.388055
17/04/2039	1.098305	0.711820	0.701887	0.729840	0.446238	0.380356
18/04/2039	1.094609	0.709256	0.699209	0.728037	0.441570	0.372595
19/04/2039	1.090933	0.706627	0.696556	0.726252	0.436952	0.365141
20/04/2039	1.087278	0.703888	0.693925	0.724478	0.432368	0.358078

21/04/2039	1.083643	0.701089	0.691325	0.722717	0.427857	0.351510
22/04/2039	1.080032	0.698324	0.688760	0.720973	0.423435	0.345469
23/04/2039	1.076446	0.695652	0.686233	0.719250	0.419101	0.339912
24/04/2039	1.072888	0.693069	0.683748	0.717550	0.414850	0.334781
25/04/2039	1.069382	0.690902	0.681475	0.715911	0.414278	0.341971
26/04/2039	1.065959	0.688966	0.679474	0.714396	0.411915	0.345913
27/04/2039	1.062614	0.686916	0.677531	0.712977	0.408551	0.343920
28/04/2039	1.059317	0.684658	0.675481	0.711550	0.404917	0.339465
29/04/2039	1.056980	0.683179	0.674047	0.710329	0.407386	0.355560
30/04/2039	1.054791	0.682515	0.673262	0.709408	0.409830	0.373062
01/05/2039	1.055430	0.683858	0.674411	0.709538	0.419620	0.396717
02/05/2039	1.058553	0.687599	0.677416	0.710896	0.433619	0.422984
03/05/2039	1.060180	0.691271	0.679955	0.712431	0.439466	0.430092
04/05/2039	1.059175	0.692399	0.680510	0.713069	0.437590	0.420122
05/05/2039	1.056582	0.690758	0.679233	0.712485	0.432551	0.403496
06/05/2039	1.053541	0.687742	0.677032	0.711060	0.426543	0.385797
07/05/2039	1.050557	0.685084	0.674837	0.709409	0.425269	0.385144
08/05/2039	1.047736	0.683335	0.673159	0.707984	0.425411	0.393600
09/05/2039	1.045031	0.681596	0.671737	0.706850	0.422131	0.387696
10/05/2039	1.042358	0.679383	0.670126	0.705772	0.418726	0.378186
11/05/2039	1.039654	0.676824	0.668239	0.704550	0.414279	0.366168
12/05/2039	1.036900	0.674229	0.666192	0.703180	0.409605	0.353952
13/05/2039	1.034100	0.671724	0.664081	0.701753	0.404798	0.342194
14/05/2039	1.031265	0.669324	0.661957	0.700330	0.400399	0.332511
15/05/2039	1.028405	0.666968	0.659837	0.698926	0.395853	0.323320
16/05/2039	1.026224	0.665474	0.658346	0.697752	0.398028	0.338263
17/05/2039	1.024140	0.664460	0.657376	0.696862	0.397123	0.343638
18/05/2039	1.021775	0.663161	0.656285	0.696060	0.394234	0.339911
19/05/2039	1.019149	0.661260	0.654752	0.695095	0.390286	0.331589
20/05/2039	1.016411	0.658968	0.652879	0.693888	0.385711	0.321395
21/05/2039	1.013659	0.656658	0.650897	0.692545	0.381604	0.313239
22/05/2039	1.010917	0.654440	0.648926	0.691193	0.377204	0.305136
23/05/2039	1.008180	0.652288	0.646969	0.689877	0.373050	0.297917
24/05/2039	1.005443	0.650160	0.645018	0.688583	0.368944	0.291335
25/05/2039	1.002704	0.648045	0.643076	0.687294	0.364892	0.285255
26/05/2039	1.000005	0.646452	0.641391	0.686061	0.365879	0.296919
27/05/2039	0.997376	0.644992	0.639958	0.684958	0.362971	0.296599
28/05/2039	0.994799	0.643332	0.638476	0.683918	0.360048	0.293026
29/05/2039	0.994533	0.643127	0.638259	0.683446	0.366940	0.310825
30/05/2039	0.994476	0.643939	0.638718	0.683436	0.369575	0.318310
31/05/2039	0.993297	0.644275	0.638693	0.683398	0.368706	0.317470
01/06/2039	0.991485	0.643927	0.638186	0.683052	0.371251	0.331127
02/06/2039	0.989382	0.642669	0.637328	0.682398	0.367720	0.324756
03/06/2039	0.987137	0.640769	0.636026	0.681499	0.363805	0.313269
04/06/2039	0.984800	0.638548	0.634356	0.680405	0.358893	0.299522
05/06/2039	0.984288	0.637786	0.633711	0.679686	0.363903	0.312584
06/06/2039	0.985953	0.639499	0.635006	0.679952	0.373841	0.337041
07/06/2039	0.986875	0.642136	0.636793	0.680794	0.381125	0.356072

08/06/2039	0.986049	0.643407	0.637623	0.681400	0.381657	0.358763
09/06/2039	0.984195	0.643100	0.637432	0.681339	0.383791	0.369003
10/06/2039	0.983014	0.642577	0.637388	0.681006	0.387672	0.385771
11/06/2039	0.981976	0.641899	0.637409	0.680694	0.385859	0.379853
12/06/2039	0.980545	0.640682	0.636877	0.680291	0.382259	0.364823
13/06/2039	0.978728	0.639226	0.635862	0.679636	0.381333	0.360065
14/06/2039	0.976740	0.637441	0.634600	0.678777	0.375978	0.344916
15/06/2039	0.974699	0.635407	0.633103	0.677798	0.371291	0.328921
16/06/2039	0.972614	0.633251	0.631410	0.676732	0.366274	0.313300
17/06/2039	0.970471	0.631094	0.629607	0.675603	0.361196	0.298642
18/06/2039	0.968275	0.629081	0.627807	0.674455	0.357215	0.288739
19/06/2039	0.966062	0.627494	0.626207	0.673365	0.356153	0.290182
20/06/2039	0.963855	0.625910	0.624736	0.672370	0.351627	0.282821
21/06/2039	0.961643	0.624112	0.623165	0.671391	0.347621	0.273886
22/06/2039	0.959405	0.622129	0.621444	0.670340	0.343085	0.264016
23/06/2039	0.957136	0.620098	0.619640	0.669211	0.338416	0.254190
24/06/2039	0.954839	0.618103	0.617816	0.668053	0.333838	0.245274
25/06/2039	0.952523	0.616156	0.615999	0.666900	0.329399	0.237433
26/06/2039	0.950191	0.614240	0.614195	0.665760	0.325081	0.230504
27/06/2039	0.947850	0.612346	0.612407	0.664628	0.320859	0.224291
28/06/2039	0.945513	0.610613	0.610703	0.663515	0.318145	0.223200
29/06/2039	0.943190	0.608939	0.609090	0.662443	0.314375	0.220008
30/06/2039	0.940882	0.607215	0.607484	0.661397	0.310602	0.215693
01/07/2039	0.938570	0.605246	0.605751	0.660320	0.305234	0.204389
02/07/2039	0.936232	0.603110	0.603842	0.659159	0.300254	0.193047
03/07/2039	0.933859	0.600900	0.601820	0.657919	0.294705	0.180884
04/07/2039	0.931449	0.598693	0.599748	0.656638	0.289319	0.169608
05/07/2039	0.929010	0.596522	0.597666	0.655349	0.284050	0.159622
06/07/2039	0.926551	0.594446	0.595617	0.654073	0.279504	0.152641
07/07/2039	0.924080	0.592405	0.593604	0.652817	0.274484	0.145196
08/07/2039	0.921603	0.590361	0.591596	0.651570	0.269694	0.138306
09/07/2039	0.919121	0.588315	0.589586	0.650321	0.264931	0.131922
10/07/2039	0.916636	0.586286	0.587587	0.649069	0.260242	0.126041
11/07/2039	0.916539	0.586297	0.587201	0.648490	0.269028	0.150340
12/07/2039	0.919558	0.589666	0.589539	0.649342	0.283867	0.184448
13/07/2039	0.921746	0.593657	0.592185	0.650882	0.288624	0.191593
14/07/2039	0.921531	0.595714	0.593213	0.651885	0.290543	0.196319
15/07/2039	0.919719	0.595393	0.592721	0.651826	0.289355	0.199351
16/07/2039	0.917440	0.593504	0.591423	0.650987	0.284197	0.191129
17/07/2039	0.915218	0.591449	0.589920	0.649869	0.282368	0.190205
18/07/2039	0.913105	0.589476	0.588417	0.648778	0.277067	0.180625
20/07/2039	0.908897	0.585532	0.585177	0.646666	0.268064	0.161353
21/07/2039	0.906765	0.583582	0.583477	0.645598	0.263858	0.153445
22/07/2039	0.906503	0.583303	0.583050	0.645021	0.270780	0.174800
23/07/2039	0.906360	0.583776	0.583298	0.644923	0.270271	0.175012
24/07/2039	0.905264	0.583657	0.583015	0.644820	0.268365	0.169691
25/07/2039	0.903358	0.582370	0.581891	0.644294	0.264112	0.160697
26/07/2039	0.901154	0.580591	0.580378	0.643357	0.261755	0.158648

27/07/2039	0.901677	0.580884	0.580619	0.643049	0.270657	0.180926
28/07/2039	0.902559	0.582397	0.581706	0.643426	0.272461	0.182536
29/07/2039	0.902125	0.583216	0.582030	0.643784	0.271450	0.177608
30/07/2039	0.902985	0.584447	0.582848	0.644235	0.280993	0.198405
31/07/2039	0.903622	0.585689	0.583822	0.644691	0.282458	0.199306
01/08/2039	0.903018	0.586240	0.584095	0.644879	0.282891	0.201688
02/08/2039	0.901449	0.585812	0.583653	0.644633	0.282404	0.207535
03/08/2039	0.899563	0.584699	0.582894	0.644059	0.280693	0.211718
04/08/2039	0.898482	0.584129	0.582692	0.643596	0.284545	0.233811
05/08/2039	0.897593	0.583812	0.582870	0.643389	0.283775	0.239059
06/08/2039	0.897336	0.584150	0.583528	0.643497	0.289516	0.261580
07/08/2039	0.896894	0.584399	0.584232	0.643716	0.289603	0.266455
08/08/2039	0.895916	0.583965	0.584399	0.643753	0.288015	0.262499
09/08/2039	0.897675	0.585016	0.585890	0.644333	0.297341	0.278469
10/08/2039	0.902366	0.589086	0.589585	0.646084	0.312196	0.302393
11/08/2039	0.905769	0.593724	0.593177	0.648248	0.318357	0.306711
12/08/2039	0.906487	0.596572	0.595120	0.649752	0.323378	0.317780
13/08/2039	0.914278	0.601034	0.600695	0.652873	0.332694	0.335489
14/08/2039	0.922825	0.607052	0.607349	0.657007	0.339789	0.349219
15/08/2039	0.926936	0.611435	0.611391	0.660247	0.339113	0.343626
16/08/2039	0.927035	0.612286	0.612067	0.661447	0.336743	0.332735
17/08/2039	0.925472	0.610510	0.610778	0.660892	0.333186	0.320335
18/08/2039	0.923685	0.607943	0.608981	0.659598	0.329208	0.307325
19/08/2039	0.922033	0.606055	0.607509	0.658372	0.329783	0.309928
20/08/2039	0.920464	0.604566	0.606387	0.657479	0.326273	0.302525
21/08/2039	0.918910	0.603281	0.605383	0.656785	0.326027	0.302063
22/08/2039	0.925247	0.605901	0.609088	0.658530	0.334959	0.318865
23/08/2039	0.932651	0.611354	0.614550	0.661865	0.342113	0.332731
24/08/2039	0.935978	0.615576	0.617891	0.664659	0.342190	0.330615
25/08/2039	0.953044	0.624051	0.628491	0.671101	0.352058	0.346073
26/08/2039	0.977440	0.638548	0.644431	0.681309	0.366671	0.368382
27/08/2039	0.993383	0.652179	0.656357	0.690617	0.372281	0.369783
28/08/2039	0.997888	0.658586	0.660251	0.695293	0.371922	0.360718
29/08/2039	0.996189	0.658167	0.658566	0.695273	0.372521	0.361869
30/08/2039	0.992999	0.654493	0.655064	0.692887	0.368507	0.352811
31/08/2039	0.990023	0.650514	0.651665	0.690241	0.364725	0.340801
01/09/2039	0.987342	0.647383	0.648832	0.688137	0.362406	0.335291
02/09/2039	0.984761	0.644953	0.646470	0.686513	0.360041	0.331745
03/09/2039	0.982185	0.642793	0.644361	0.685103	0.358016	0.329675
04/09/2039	0.979580	0.640633	0.642339	0.683733	0.355898	0.327581
05/09/2039	0.976935	0.638430	0.640338	0.682349	0.353770	0.325345
06/09/2039	0.979621	0.639212	0.641548	0.682560	0.362581	0.341833
07/09/2039	0.982979	0.642093	0.644053	0.683913	0.367464	0.350688
08/09/2039	0.983617	0.644260	0.645290	0.685018	0.368995	0.354689
09/09/2039	0.983544	0.645206	0.645669	0.685438	0.374623	0.371531
10/09/2039	0.982630	0.645007	0.645455	0.685212	0.375920	0.376667
11/09/2039	0.980806	0.643920	0.644609	0.684539	0.375250	0.375763
12/09/2039	0.978413	0.642112	0.643227	0.683570	0.372777	0.370035

13/09/2039	0.975861	0.640107	0.641643	0.682438	0.371771	0.369326
14/09/2039	0.974848	0.639170	0.641002	0.681670	0.375852	0.383527
15/09/2039	0.974037	0.639214	0.641062	0.681333	0.380079	0.399247
16/09/2039	0.972601	0.639344	0.641134	0.681154	0.383343	0.412991
17/09/2039	0.970640	0.638593	0.640734	0.680817	0.382323	0.411290
18/09/2039	0.968495	0.636959	0.639776	0.680161	0.380293	0.403996
19/09/2039	0.966345	0.634918	0.638472	0.679241	0.377270	0.393736
20/09/2039	0.964220	0.632918	0.637060	0.678212	0.374600	0.384955
21/09/2039	0.962107	0.631114	0.635675	0.677201	0.372287	0.378519
22/09/2039	0.959996	0.629395	0.634319	0.676244	0.369572	0.371475
23/09/2039	0.958764	0.628464	0.633606	0.675564	0.372551	0.384143
24/09/2039	0.958115	0.628492	0.633754	0.675305	0.376672	0.403226
25/09/2039	0.958160	0.629359	0.634753	0.675555	0.382628	0.425938
26/09/2039	0.963323	0.632959	0.638972	0.677614	0.394493	0.449015
27/09/2039	0.968382	0.637693	0.643672	0.680513	0.400838	0.456318
28/09/2039	0.970092	0.640725	0.646197	0.682616	0.401795	0.452427
29/09/2039	0.973560	0.643400	0.648913	0.684446	0.410050	0.460228
30/09/2039	0.976550	0.645765	0.651256	0.685942	0.412451	0.454565
01/10/2039	0.981273	0.649374	0.654517	0.687881	0.422729	0.464276
02/10/2039	0.988082	0.654785	0.658979	0.690553	0.436827	0.480458
03/10/2039	0.994277	0.661049	0.663656	0.693531	0.450854	0.499621
04/10/2039	0.997138	0.665774	0.666870	0.695841	0.458709	0.515031
05/10/2039	1.004203	0.669471	0.670025	0.697867	0.469080	0.531122
06/10/2039	1.010360	0.672244	0.672522	0.699454	0.475328	0.542214
07/10/2039	1.012238	0.673383	0.673531	0.700255	0.475436	0.538941
08/10/2039	1.010835	0.672634	0.673094	0.700162	0.473140	0.529821
09/10/2039	1.008272	0.670729	0.671878	0.699420	0.470360	0.520353
10/10/2039	1.005738	0.668621	0.670501	0.698431	0.467922	0.512672
11/10/2039	1.003462	0.666719	0.669210	0.697475	0.465483	0.505283
12/10/2039	1.001333	0.664984	0.667987	0.696615	0.463078	0.497911
13/10/2039	0.999251	0.663312	0.666777	0.695802	0.460872	0.491519
14/10/2039	0.997185	0.661798	0.665635	0.695006	0.460068	0.490812
15/10/2039	0.996502	0.661189	0.665357	0.694585	0.462948	0.500695
16/10/2039	0.995899	0.661092	0.665498	0.694481	0.463857	0.504336
17/10/2039	0.994610	0.660765	0.665369	0.694377	0.463793	0.505188
18/10/2039	0.993237	0.660158	0.665098	0.694160	0.464699	0.512292
19/10/2039	0.993753	0.660467	0.665829	0.694326	0.470161	0.525873
20/10/2039	0.994180	0.661378	0.666867	0.694780	0.473055	0.531607
21/10/2039	0.993426	0.661704	0.667255	0.695081	0.472472	0.528085
22/10/2039	0.994705	0.662738	0.668465	0.695713	0.480763	0.534745
23/10/2039	0.996005	0.664487	0.669955	0.696530	0.486887	0.541970
24/10/2039	0.995846	0.665660	0.670735	0.697102	0.487989	0.541556
25/10/2039	0.994466	0.665325	0.670502	0.697128	0.485959	0.535902
26/10/2039	0.996705	0.666055	0.671863	0.697751	0.493404	0.542035
27/10/2039	0.999402	0.667982	0.673848	0.698881	0.497186	0.541370
28/10/2039	1.000057	0.669384	0.674830	0.699759	0.496588	0.534961
29/10/2039	0.998882	0.669237	0.674525	0.699877	0.495296	0.533438
30/10/2039	0.996999	0.667819	0.673504	0.699323	0.492240	0.529240

31/10/2039	0.995090	0.666112	0.672353	0.698494	0.490708	0.529800
01/11/2039	0.993336	0.664664	0.671393	0.697718	0.489556	0.533545
02/11/2039	0.992437	0.663871	0.671073	0.697291	0.490572	0.544692
03/11/2039	0.991597	0.663416	0.671079	0.697132	0.490525	0.552649
04/11/2039	0.990367	0.662735	0.670913	0.696983	0.488678	0.553482
05/11/2039	1.000473	0.664570	0.673709	0.698366	0.496725	0.561491
06/11/2039	1.011751	0.668547	0.677675	0.700790	0.504640	0.573336
07/11/2039	1.018026	0.672679	0.680919	0.703153	0.511977	0.589696
08/11/2039	1.034989	0.677810	0.686124	0.707346	0.526475	0.599527
09/11/2039	1.051617	0.683741	0.692196	0.712420	0.537487	0.600231
10/11/2039	1.064640	0.689707	0.697707	0.717287	0.547077	0.600294
11/11/2039	1.074403	0.695235	0.702369	0.721120	0.558364	0.600499
12/11/2039	1.079002	0.699508	0.705565	0.723428	0.563699	0.600712
13/11/2039	1.078674	0.701745	0.706909	0.724214	0.561645	0.600758
14/11/2039	1.082410	0.703315	0.708329	0.725206	0.565323	0.600753
15/11/2039	1.085810	0.704615	0.709720	0.726414	0.562940	0.597841
16/11/2039	1.085637	0.705219	0.710243	0.727072	0.556602	0.596394
17/11/2039	1.082679	0.704672	0.709635	0.726747	0.548224	0.594093
18/11/2039	1.078832	0.703325	0.708337	0.725662	0.541657	0.596095
19/11/2039	1.075110	0.701692	0.706849	0.724319	0.535115	0.595337
20/11/2039	1.071684	0.700168	0.705417	0.723055	0.530379	0.596611
21/11/2039	1.068457	0.698741	0.704069	0.721942	0.525411	0.594862
22/11/2039	1.066440	0.697943	0.703342	0.721185	0.525656	0.599630
23/11/2039	1.064539	0.697572	0.702925	0.720670	0.524987	0.600121
24/11/2039	1.062811	0.697421	0.702707	0.720323	0.525409	0.600320
25/11/2039	1.061063	0.697242	0.702543	0.720036	0.525406	0.600414
26/11/2039	1.059144	0.696887	0.702288	0.719713	0.524609	0.600436
27/11/2039	1.057187	0.696373	0.701939	0.719335	0.523651	0.600432
28/11/2039	1.054950	0.695585	0.701360	0.718844	0.521039	0.599862
29/11/2039	1.064253	0.696769	0.703577	0.721615	0.531052	0.600266
30/11/2039	1.074953	0.699968	0.707768	0.726256	0.538527	0.600590
01/12/2039	1.079238	0.702983	0.711124	0.729855	0.537896	0.598948
02/12/2039	1.077983	0.704107	0.712222	0.731006	0.534384	0.600397
03/12/2039	1.077878	0.704199	0.712415	0.730734	0.535746	0.600775
04/12/2039	1.081907	0.705205	0.713510	0.730851	0.543733	0.600917
05/12/2039	1.084633	0.706764	0.714715	0.731409	0.545150	0.599512
06/12/2039	1.083840	0.707486	0.714928	0.731629	0.540951	0.597978
07/12/2039	1.080792	0.706774	0.714019	0.731054	0.534563	0.596886
08/12/2039	1.077176	0.705189	0.712523	0.729853	0.529072	0.598728
09/12/2039	1.073753	0.703398	0.710916	0.728452	0.523717	0.597813
10/12/2039	1.070597	0.701719	0.709364	0.727125	0.519229	0.595446
11/12/2039	1.067605	0.700178	0.707890	0.725924	0.515432	0.593112
12/12/2039	1.064709	0.698761	0.706501	0.724811	0.512698	0.593895
13/12/2039	1.061885	0.697422	0.705197	0.723755	0.510384	0.596369
14/12/2039	1.059120	0.696041	0.703917	0.722732	0.507519	0.595509
15/12/2039	1.056968	0.694949	0.702951	0.721863	0.507154	0.599673
16/12/2039	1.057190	0.695352	0.703370	0.721704	0.514626	0.600394
17/12/2039	1.057282	0.696566	0.704157	0.721974	0.518806	0.598441

18/12/2039	1.055960	0.697136	0.704221	0.722063	0.517888	0.595568
19/12/2039	1.053600	0.696428	0.703410	0.721628	0.514478	0.594056
20/12/2039	1.050935	0.694903	0.702148	0.720758	0.510895	0.594992
21/12/2039	1.049608	0.693850	0.701391	0.719883	0.511563	0.599857
22/12/2039	1.048773	0.693567	0.701156	0.719337	0.513269	0.600399
23/12/2039	1.047347	0.693381	0.700869	0.718983	0.513040	0.600215
24/12/2039	1.045254	0.692610	0.700181	0.718549	0.510377	0.597603
25/12/2039	1.042872	0.691230	0.699119	0.717894	0.507001	0.594174
26/12/2039	1.040487	0.689587	0.697883	0.717058	0.503534	0.590261
27/12/2039	1.039404	0.688651	0.697284	0.716455	0.504492	0.598644
28/12/2039	1.040176	0.688868	0.697603	0.716329	0.508318	0.600324
29/12/2039	1.040603	0.689521	0.698115	0.716468	0.510718	0.600433
30/12/2039	1.039587	0.689528	0.698076	0.716464	0.509410	0.597818
31/12/2039	1.037545	0.688583	0.697360	0.716080	0.506632	0.595371
01/01/2040	1.036467	0.687760	0.696948	0.715705	0.507607	0.599608
02/01/2040	1.045040	0.689278	0.699171	0.717911	0.521026	0.600360
03/01/2040	1.053820	0.692456	0.702676	0.721518	0.528902	0.600500
04/01/2040	1.057109	0.695108	0.705243	0.724287	0.529752	0.600529
05/01/2040	1.055828	0.695728	0.705868	0.725101	0.525422	0.598955
06/01/2040	1.052834	0.694669	0.705039	0.724312	0.520894	0.600077
07/01/2040	1.049802	0.693003	0.703682	0.722902	0.516745	0.600107
08/01/2040	1.047103	0.691356	0.702300	0.721561	0.512421	0.596573
09/01/2040	1.060290	0.692889	0.705326	0.725215	0.521738	0.599734
10/01/2040	1.075339	0.697281	0.711205	0.731703	0.529340	0.600568
11/01/2040	1.081897	0.701481	0.715874	0.736753	0.529192	0.597697
12/01/2040	1.098717	0.706222	0.721974	0.743750	0.538588	0.600470
13/01/2040	1.116974	0.712135	0.729387	0.751244	0.549937	0.601287
14/01/2040	1.142172	0.720412	0.739218	0.761246	0.566020	0.601708
15/01/2040	1.159459	0.728397	0.747894	0.770167	0.569493	0.600616
16/01/2040	1.174467	0.735579	0.755344	0.777601	0.578361	0.601850
17/01/2040	1.187155	0.742143	0.761659	0.783091	0.589529	0.602464
18/01/2040	1.196718	0.748273	0.766723	0.786625	0.601014	0.602761
19/01/2040	1.199714	0.752764	0.769453	0.787852	0.603658	0.602951
20/01/2040	1.200679	0.755460	0.770530	0.787652	0.604927	0.603055
21/01/2040	1.207717	0.758303	0.772543	0.788846	0.613345	0.603095
22/01/2040	1.212693	0.761114	0.774565	0.790538	0.612073	0.601691
23/01/2040	1.211344	0.762543	0.774859	0.790837	0.603173	0.601178
24/01/2040	1.205710	0.761866	0.773043	0.789086	0.591329	0.600926
25/01/2040	1.198902	0.759757	0.769985	0.785959	0.580656	0.601276
26/01/2040	1.193550	0.757895	0.767259	0.782781	0.576696	0.602193
27/01/2040	1.188766	0.756585	0.764981	0.780108	0.571515	0.601040
28/01/2040	1.183743	0.755297	0.762671	0.777776	0.565046	0.600612
29/01/2040	1.178471	0.753588	0.760105	0.775464	0.557772	0.600392
30/01/2040	1.173210	0.751504	0.757372	0.773051	0.550699	0.600184
31/01/2040	1.168108	0.749305	0.754633	0.770607	0.544268	0.599740
01/02/2040	1.163185	0.747111	0.751960	0.768230	0.537957	0.596745
02/02/2040	1.159812	0.745774	0.750106	0.766297	0.539070	0.600973
03/02/2040	1.156620	0.745049	0.748702	0.764738	0.538809	0.601205

04/02/2040	1.152944	0.744291	0.747222	0.763282	0.537629	0.601588
05/02/2040	1.148809	0.742981	0.745421	0.761701	0.534142	0.600751
06/02/2040	1.144524	0.741104	0.743329	0.759938	0.529259	0.598352
07/02/2040	1.140303	0.738934	0.741090	0.758066	0.524028	0.594268
08/02/2040	1.136208	0.736722	0.738832	0.756182	0.519136	0.589366
09/02/2040	1.133894	0.735537	0.737497	0.754754	0.521071	0.599696
10/02/2040	1.131731	0.735069	0.736640	0.753715	0.521870	0.600383
11/02/2040	1.128764	0.734336	0.735495	0.752698	0.519765	0.595058
12/02/2040	1.125168	0.732816	0.733816	0.751423	0.515923	0.588744
13/02/2040	1.121401	0.730717	0.731805	0.749875	0.511492	0.582754
14/02/2040	1.117715	0.728479	0.729723	0.748212	0.507281	0.577398
15/02/2040	1.114154	0.726340	0.727701	0.746578	0.503503	0.572586
16/02/2040	1.110690	0.724316	0.725755	0.745022	0.500085	0.568138
17/02/2040	1.107298	0.722351	0.723867	0.743531	0.496900	0.563939
18/02/2040	1.103965	0.720409	0.722019	0.742077	0.493871	0.559988
19/02/2040	1.100689	0.718536	0.720229	0.740654	0.491483	0.558422
20/02/2040	1.097479	0.716839	0.718561	0.739283	0.490191	0.561791
21/02/2040	1.094827	0.715547	0.717316	0.738116	0.490130	0.571457
22/02/2040	1.095303	0.716253	0.717962	0.737942	0.499249	0.591758
23/02/2040	1.095972	0.718243	0.719236	0.738403	0.506914	0.600645
24/02/2040	1.095640	0.719965	0.720080	0.738854	0.512172	0.601047
25/02/2040	1.093890	0.720190	0.719972	0.738779	0.512098	0.598011
26/02/2040	1.091236	0.718914	0.718970	0.738071	0.508590	0.592416
27/02/2040	1.090413	0.718122	0.718575	0.737466	0.511921	0.599728
28/02/2040	1.093420	0.719601	0.720167	0.738468	0.525367	0.600968
29/02/2040	1.097490	0.723031	0.723151	0.740686	0.538950	0.601188
01/03/2040	1.099327	0.726251	0.725646	0.742694	0.544869	0.601323
02/03/2040	1.098258	0.727325	0.726385	0.743438	0.541318	0.598177
03/03/2040	1.095530	0.726064	0.725434	0.742828	0.533144	0.590568
04/03/2040	1.093572	0.724366	0.724274	0.741717	0.530335	0.598071
05/03/2040	1.092432	0.723490	0.723679	0.740806	0.531042	0.601047
06/03/2040	1.090846	0.723056	0.723218	0.740156	0.530160	0.600912
07/03/2040	1.089249	0.722628	0.722811	0.739767	0.530325	0.601074
08/03/2040	1.123303	0.724597	0.727968	0.750134	0.542011	0.601289
09/03/2040	1.170453	0.731099	0.740379	0.768830	0.561085	0.601725
10/03/2040	1.200332	0.740930	0.754747	0.785525	0.578188	0.602338
11/03/2040	1.207914	0.749420	0.764196	0.793815	0.583709	0.602820
12/03/2040	1.203057	0.753143	0.766889	0.793999	0.578213	0.601820
13/03/2040	1.196849	0.753491	0.766173	0.790431	0.576286	0.602504
14/03/2040	1.191570	0.752851	0.764597	0.786623	0.573428	0.602671
15/03/2040	1.188001	0.752895	0.763591	0.784133	0.573733	0.602676
16/03/2040	1.184720	0.753526	0.763048	0.782663	0.573695	0.602728
17/03/2040	1.180670	0.753546	0.762056	0.781246	0.567076	0.597379
18/03/2040	1.175940	0.752371	0.760140	0.779288	0.557667	0.590961
19/03/2040	1.170983	0.750279	0.757518	0.776792	0.547691	0.583565
20/03/2040	1.166099	0.747894	0.754636	0.774078	0.538946	0.576632
21/03/2040	1.163262	0.746732	0.752804	0.771897	0.539235	0.585862
22/03/2040	1.160950	0.746735	0.751797	0.770350	0.541767	0.601090

23/03/2040	1.158748	0.747228	0.751211	0.769250	0.544935	0.602323
24/03/2040	1.155739	0.747164	0.750306	0.768132	0.543658	0.600632
25/03/2040	1.153085	0.746758	0.749357	0.766959	0.544597	0.601691
26/03/2040	1.150125	0.745861	0.748131	0.765649	0.540402	0.596236
27/03/2040	1.146553	0.744336	0.746358	0.764097	0.534027	0.588843
28/03/2040	1.144783	0.743631	0.745234	0.762627	0.536487	0.597317
29/03/2040	1.143071	0.743649	0.744407	0.761350	0.538208	0.601183
30/03/2040	1.140322	0.743254	0.743169	0.760112	0.535171	0.597855
31/03/2040	1.136756	0.741744	0.741307	0.758693	0.529081	0.589891
01/04/2040	1.132936	0.739327	0.738984	0.757016	0.521781	0.574816
02/04/2040	1.129167	0.736642	0.736445	0.755156	0.515152	0.559067
03/04/2040	1.125496	0.734043	0.733862	0.753241	0.509045	0.543186
04/04/2040	1.121886	0.731570	0.731290	0.751351	0.503530	0.528178
05/04/2040	1.118313	0.729231	0.728770	0.749509	0.499214	0.517419
06/04/2040	1.114767	0.726917	0.726298	0.747712	0.494427	0.505927
07/04/2040	1.111241	0.724581	0.723831	0.745940	0.489909	0.494902
08/04/2040	1.107732	0.722227	0.721355	0.744174	0.485430	0.484361
09/04/2040	1.104241	0.719885	0.718884	0.742414	0.481051	0.474483
10/04/2040	1.100782	0.717766	0.716526	0.740689	0.478771	0.472354
11/04/2040	1.097366	0.715699	0.714287	0.739036	0.474802	0.466140
12/04/2040	1.093991	0.713569	0.712056	0.737430	0.471143	0.459165
13/04/2040	1.090645	0.711366	0.709789	0.735823	0.467274	0.451683
14/04/2040	1.087322	0.709145	0.707502	0.734202	0.463375	0.444244
15/04/2040	1.084022	0.706876	0.705223	0.732581	0.459554	0.437346
16/04/2040	1.080746	0.704515	0.702968	0.730978	0.455833	0.431094
17/04/2040	1.077496	0.702095	0.700743	0.729399	0.452217	0.425459
18/04/2040	1.074272	0.699714	0.698557	0.727843	0.448821	0.420795
19/04/2040	1.071077	0.697416	0.696409	0.726311	0.445357	0.416156
20/04/2040	1.067909	0.695200	0.694290	0.724801	0.441953	0.411684
21/04/2040	1.066366	0.694141	0.693155	0.723718	0.445362	0.425483
22/04/2040	1.064947	0.693786	0.692586	0.723025	0.445798	0.431093
23/04/2040	1.069748	0.696681	0.695823	0.724478	0.455002	0.448626
24/04/2040	1.085690	0.706318	0.705781	0.728207	0.468854	0.470582
25/04/2040	1.139528	0.729039	0.731581	0.744618	0.484506	0.493945
26/04/2040	1.189292	0.755017	0.758184	0.766523	0.492814	0.503066
27/04/2040	1.210566	0.771631	0.772600	0.781976	0.496048	0.509639
28/04/2040	1.210457	0.775218	0.774086	0.786510	0.493101	0.504554
29/04/2040	1.203522	0.771390	0.769236	0.783460	0.493645	0.514022
30/04/2040	1.196583	0.766022	0.763554	0.778228	0.491098	0.512283
01/05/2040	1.190674	0.761585	0.758813	0.773868	0.488025	0.503274
02/05/2040	1.187568	0.759584	0.756130	0.771332	0.493847	0.512595
03/05/2040	1.184835	0.758787	0.754347	0.769822	0.495766	0.510192
04/05/2040	1.182905	0.758760	0.753198	0.768764	0.504435	0.523951
05/05/2040	1.180090	0.758150	0.751761	0.767578	0.505838	0.521123
06/05/2040	1.205383	0.764243	0.761249	0.776042	0.518361	0.533140
07/05/2040	1.233348	0.775085	0.775542	0.789833	0.523891	0.536903
08/05/2040	1.246058	0.784440	0.785504	0.800243	0.530044	0.553435
09/05/2040	1.244835	0.787514	0.787625	0.803227	0.527247	0.550339

10/05/2040	1.237788	0.784910	0.784103	0.800296	0.520892	0.537771
11/05/2040	1.230085	0.779881	0.778607	0.795110	0.512921	0.520235
12/05/2040	1.223091	0.774921	0.773249	0.790203	0.505346	0.502298
13/05/2040	1.216678	0.770770	0.768497	0.786241	0.498671	0.486179
14/05/2040	1.210582	0.767221	0.764178	0.782898	0.493450	0.474618
15/05/2040	1.204664	0.764027	0.760154	0.779780	0.490108	0.470180
16/05/2040	1.200821	0.762209	0.757459	0.777245	0.493993	0.483638
17/05/2040	1.198957	0.762317	0.756470	0.775662	0.501983	0.506418
18/05/2040	1.196244	0.762719	0.755677	0.774531	0.505526	0.515211
19/05/2040	1.193900	0.763086	0.755040	0.773622	0.515331	0.532725
20/05/2040	1.190741	0.762823	0.754018	0.772530	0.519742	0.540920
21/05/2040	1.187112	0.762016	0.752680	0.771188	0.523412	0.557423
22/05/2040	1.184244	0.761329	0.751735	0.769945	0.530014	0.581444
23/05/2040	1.182302	0.761282	0.751461	0.769083	0.538358	0.600883
24/05/2040	1.181185	0.761989	0.751803	0.768686	0.547838	0.602121
25/05/2040	1.178928	0.762317	0.751665	0.768242	0.549927	0.595641
26/05/2040	1.175181	0.761143	0.750342	0.767248	0.543423	0.580513
27/05/2040	1.170675	0.758726	0.748070	0.765607	0.536546	0.571323
28/05/2040	1.166066	0.755562	0.745335	0.763565	0.526726	0.552914
29/05/2040	1.161596	0.752359	0.742470	0.761406	0.519928	0.538953
30/05/2040	1.157258	0.749295	0.739624	0.759289	0.512902	0.522997
31/05/2040	1.158816	0.749504	0.740214	0.758988	0.518558	0.528739
01/06/2040	1.161124	0.751625	0.742023	0.759899	0.520162	0.519588
02/06/2040	1.160407	0.752578	0.742132	0.760378	0.516454	0.500890
03/06/2040	1.156991	0.750868	0.739946	0.759458	0.509225	0.478885
04/06/2040	1.152499	0.747267	0.736415	0.757319	0.500448	0.455923
05/06/2040	1.147915	0.743320	0.732609	0.754693	0.493261	0.439266
06/06/2040	1.143473	0.739861	0.729078	0.752160	0.487568	0.428710
07/06/2040	1.139134	0.736727	0.725809	0.749886	0.481029	0.415404
08/06/2040	1.134837	0.733626	0.722600	0.747755	0.474842	0.401811
09/06/2040	1.132017	0.731701	0.720352	0.746027	0.477178	0.413928
10/06/2040	1.129316	0.730421	0.718710	0.744664	0.475270	0.413398
11/06/2040	1.125913	0.728727	0.716758	0.743329	0.471014	0.404311
13/06/2040	1.117914	0.723333	0.711366	0.739876	0.459482	0.378796
14/06/2040	1.113669	0.720001	0.708185	0.737780	0.452923	0.364470
15/06/2040	1.109473	0.716722	0.704978	0.735610	0.446585	0.351501
16/06/2040	1.105345	0.713639	0.701851	0.733491	0.440599	0.340368
17/06/2040	1.101255	0.710697	0.698807	0.731451	0.434883	0.330701
18/06/2040	1.097201	0.708026	0.695922	0.729485	0.431414	0.328821
19/06/2040	1.093190	0.705335	0.693172	0.727595	0.426086	0.322578
20/06/2040	1.089215	0.702454	0.690433	0.725742	0.421109	0.315705
21/06/2040	1.085267	0.699423	0.687665	0.723881	0.415911	0.308444
22/06/2040	1.083546	0.698065	0.686273	0.722601	0.421372	0.326148
23/06/2040	1.084758	0.699756	0.687311	0.722606	0.433594	0.353874
24/06/2040	1.085199	0.702314	0.688732	0.723253	0.438578	0.363777
25/06/2040	1.087454	0.705695	0.691189	0.724634	0.449449	0.385640
26/06/2040	1.088704	0.708230	0.693100	0.725903	0.451091	0.386160
27/06/2040	1.087460	0.708563	0.693097	0.726189	0.447903	0.376502

28/06/2040	1.084440	0.706610	0.691318	0.725278	0.442115	0.362829
29/06/2040	1.080801	0.703410	0.688649	0.723559	0.435750	0.348798
30/06/2040	1.077145	0.700030	0.685814	0.721584	0.429740	0.336369
01/07/2040	1.073577	0.696881	0.683073	0.719676	0.423841	0.324185
02/07/2040	1.070932	0.694947	0.681170	0.718161	0.426066	0.339626
03/07/2040	1.068396	0.693483	0.679815	0.717017	0.423058	0.338408
04/07/2040	1.065461	0.691660	0.678222	0.715929	0.419317	0.331306
05/07/2040	1.062166	0.689184	0.676116	0.714606	0.414078	0.320296
06/07/2040	1.058721	0.686325	0.673664	0.713012	0.408367	0.308167
07/07/2040	1.055258	0.683309	0.671101	0.711286	0.402740	0.297044
08/07/2040	1.051815	0.680347	0.668573	0.709564	0.398010	0.289608
09/07/2040	1.048391	0.677488	0.666106	0.707899	0.392817	0.281772
10/07/2040	1.044977	0.674728	0.663665	0.706275	0.387850	0.274471
11/07/2040	1.041571	0.672035	0.661236	0.704662	0.382872	0.267540
12/07/2040	1.038174	0.669392	0.658824	0.703051	0.377938	0.261021
13/07/2040	1.034800	0.666965	0.656518	0.701466	0.374823	0.260547
14/07/2040	1.031462	0.664593	0.654313	0.699937	0.370114	0.256361
15/07/2040	1.028184	0.662618	0.652320	0.698489	0.370144	0.265728
16/07/2040	1.026048	0.661720	0.651314	0.697452	0.373720	0.289615
17/07/2040	1.024115	0.661558	0.651007	0.696834	0.377509	0.310811
18/07/2040	1.021787	0.660937	0.650545	0.696328	0.375945	0.313930
19/07/2040	1.019090	0.659287	0.649411	0.695572	0.372296	0.306843
20/07/2040	1.016245	0.656990	0.647742	0.694451	0.368342	0.298382
21/07/2040	1.019161	0.657853	0.649361	0.694854	0.375945	0.313288
22/07/2040	1.029995	0.664733	0.656589	0.698629	0.390056	0.338924
23/07/2040	1.040359	0.674434	0.664881	0.703994	0.403935	0.369478
24/07/2040	1.044505	0.680939	0.669619	0.707972	0.406350	0.372031
25/07/2040	1.043534	0.681894	0.669990	0.709114	0.403504	0.361649
27/07/2040	1.036558	0.675240	0.664665	0.705938	0.391017	0.328009
29/07/2040	1.030098	0.668079	0.658936	0.701670	0.380205	0.301633
30/07/2040	1.032478	0.668111	0.659580	0.701336	0.387396	0.315366
31/07/2040	1.035364	0.670612	0.661701	0.702508	0.388753	0.316169
01/08/2040	1.035469	0.672319	0.662499	0.703528	0.386954	0.311132
02/08/2040	1.033149	0.671453	0.661277	0.703294	0.382854	0.302779
03/08/2040	1.029902	0.668710	0.658862	0.701894	0.377893	0.293140
04/08/2040	1.026596	0.665508	0.656175	0.700017	0.372992	0.284068
05/08/2040	1.023418	0.662839	0.653743	0.698218	0.370840	0.284092
06/08/2040	1.022460	0.662171	0.652936	0.697246	0.377058	0.304200
07/08/2040	1.021716	0.662437	0.652894	0.696929	0.378165	0.308206
08/08/2040	1.019926	0.662051	0.652305	0.696599	0.376536	0.304548
09/08/2040	1.017232	0.660353	0.650819	0.695781	0.372514	0.296155
10/08/2040	1.014188	0.657796	0.648771	0.694478	0.367674	0.286246
11/08/2040	1.011127	0.655075	0.646555	0.692957	0.362904	0.277120
12/08/2040	1.008119	0.652526	0.644371	0.691441	0.358425	0.269357
13/08/2040	1.005146	0.650151	0.642259	0.690002	0.354185	0.262718
14/08/2040	1.002187	0.647858	0.640202	0.688622	0.350085	0.256851
15/08/2040	0.999238	0.645594	0.638177	0.687265	0.346065	0.251518
16/08/2040	0.996300	0.643354	0.636176	0.685915	0.342131	0.246693

17/08/2040	0.993376	0.641143	0.634198	0.684574	0.338226	0.242178
18/08/2040	0.993562	0.641208	0.634184	0.684124	0.346806	0.262305
19/08/2040	0.994127	0.642903	0.635183	0.684417	0.351632	0.275308
20/08/2040	0.993198	0.643949	0.635524	0.684692	0.350952	0.276020
22/08/2040	0.988620	0.641682	0.633420	0.683596	0.344896	0.267352
23/08/2040	0.985733	0.639027	0.631463	0.682300	0.340227	0.259501
24/08/2040	0.982916	0.636364	0.629437	0.680847	0.335711	0.252004
25/08/2040	0.980213	0.634037	0.627527	0.679472	0.331602	0.245769
26/08/2040	0.977561	0.631953	0.625723	0.678217	0.327802	0.240620
27/08/2040	0.974928	0.629953	0.623976	0.677031	0.324169	0.236166
28/08/2040	0.972304	0.627965	0.622258	0.675862	0.320616	0.232135
29/08/2040	0.969689	0.625986	0.620554	0.674695	0.317113	0.228405
30/08/2040	0.967085	0.624031	0.618867	0.673531	0.313658	0.224939
31/08/2040	0.964495	0.622106	0.617201	0.672378	0.310258	0.221725
01/09/2040	0.961931	0.620335	0.615625	0.671257	0.307958	0.223344
02/09/2040	0.959409	0.618721	0.614197	0.670198	0.305694	0.226173
03/09/2040	0.956940	0.617201	0.612891	0.669211	0.303650	0.229433
04/09/2040	0.954528	0.615713	0.611659	0.668276	0.301673	0.232531
05/09/2040	0.952168	0.614234	0.610471	0.667368	0.299705	0.235152
06/09/2040	0.949858	0.612768	0.609319	0.666476	0.297747	0.237306
07/09/2040	0.947609	0.611557	0.608308	0.665626	0.298136	0.246739
08/09/2040	0.945429	0.610378	0.607424	0.664849	0.296168	0.249987
09/09/2040	0.943327	0.609419	0.606676	0.664144	0.297769	0.262080
10/09/2040	0.941300	0.608378	0.606003	0.663497	0.295881	0.265046
11/09/2040	0.939350	0.607490	0.605422	0.662890	0.297592	0.277637
12/09/2040	0.937470	0.606489	0.604887	0.662318	0.295684	0.279519
13/09/2040	0.935659	0.605304	0.604503	0.661798	0.294241	0.298638
14/09/2040	0.933924	0.603999	0.604289	0.661350	0.292407	0.303856
15/09/2040	0.932250	0.602676	0.603983	0.660919	0.290483	0.305465
16/09/2040	0.930611	0.601392	0.603539	0.660439	0.288623	0.307936
17/09/2040	0.929007	0.600152	0.603148	0.659942	0.286845	0.317678
18/09/2040	0.927469	0.598944	0.603059	0.659537	0.285129	0.336814
19/09/2040	0.926016	0.597758	0.603121	0.659249	0.283454	0.340702
20/09/2040	0.924619	0.596585	0.602965	0.658953	0.281810	0.337313
21/09/2040	0.923225	0.595427	0.602496	0.658530	0.280193	0.329597
22/09/2040	0.921807	0.594282	0.601821	0.657977	0.278603	0.320901
23/09/2040	0.920384	0.593153	0.601324	0.657423	0.277039	0.333506
24/09/2040	0.919019	0.592046	0.601375	0.657061	0.275503	0.355720
25/09/2040	0.917769	0.590965	0.601955	0.656974	0.273996	0.381788
26/09/2040	0.916632	0.589906	0.602575	0.657033	0.272517	0.385693
27/09/2040	0.915546	0.588863	0.602735	0.656982	0.271066	0.378344
28/09/2040	0.914444	0.587832	0.602394	0.656682	0.269642	0.365790
29/09/2040	0.913319	0.586813	0.602032	0.656247	0.268244	0.373598
30/09/2040	0.912199	0.585807	0.601867	0.655868	0.266872	0.370458
01/10/2040	0.911102	0.584817	0.601806	0.655595	0.265525	0.379073
02/10/2040	0.910048	0.583847	0.601956	0.655426	0.264203	0.394831
03/10/2040	0.909069	0.582899	0.602436	0.655384	0.262906	0.415424
04/10/2040	0.908177	0.581969	0.603052	0.655444	0.261635	0.423765

05/10/2040	0.907358	0.581057	0.603639	0.655527	0.260388	0.437451
06/10/2040	0.906597	0.580162	0.604191	0.655589	0.259167	0.444160
07/10/2040	0.905879	0.579283	0.604663	0.655622	0.257970	0.450025
08/10/2040	0.905193	0.578419	0.605008	0.655614	0.256796	0.451474
09/10/2040	0.904532	0.577568	0.605343	0.655584	0.255646	0.461129
10/10/2040	0.903897	0.576730	0.605725	0.655568	0.254519	0.462692
11/10/2040	0.903281	0.575904	0.606086	0.655567	0.253414	0.467299
12/10/2040	0.902673	0.575092	0.606329	0.655542	0.252331	0.463506
13/10/2040	0.902053	0.574290	0.606361	0.655443	0.251270	0.457371
14/10/2040	0.901421	0.573498	0.606397	0.655298	0.250230	0.464082
15/10/2040	0.900791	0.572716	0.606567	0.655186	0.249209	0.464154
16/10/2040	0.900177	0.571946	0.606871	0.655149	0.248210	0.474050
17/10/2040	0.899582	0.571187	0.607230	0.655168	0.247230	0.475198
18/10/2040	0.899008	0.570441	0.607611	0.655206	0.246270	0.484368
19/10/2040	0.898463	0.569708	0.608158	0.655286	0.245330	0.497702
20/10/2040	0.897950	0.568988	0.608753	0.655412	0.244408	0.498824
21/10/2040	0.897449	0.568276	0.609120	0.655500	0.243506	0.494968
22/10/2040	0.896933	0.567573	0.609186	0.655466	0.242622	0.487312
23/10/2040	0.896400	0.566877	0.609204	0.655348	0.241756	0.491830
24/10/2040	0.895864	0.566187	0.609332	0.655247	0.240906	0.490323
25/10/2040	0.895336	0.565503	0.609524	0.655203	0.240073	0.494906
26/10/2040	0.894808	0.564827	0.609667	0.655176	0.239257	0.490970
27/10/2040	0.894274	0.564158	0.609710	0.655117	0.238456	0.491921
28/10/2040	0.893734	0.563497	0.609739	0.655029	0.237671	0.493297
29/10/2040	0.893201	0.562845	0.609883	0.654962	0.236902	0.501789
30/10/2040	0.892683	0.562198	0.610102	0.654944	0.236147	0.501570
31/10/2040	0.892164	0.561557	0.610174	0.654912	0.235407	0.495523
01/11/2040	0.891620	0.560920	0.610019	0.654792	0.234682	0.487766
02/11/2040	0.891038	0.560287	0.609708	0.654576	0.233969	0.480015
03/11/2040	0.890416	0.559656	0.609326	0.654306	0.233270	0.473331
04/11/2040	0.889760	0.559029	0.608917	0.654023	0.232583	0.467713
05/11/2040	0.889072	0.558405	0.608493	0.653740	0.231908	0.462855
06/11/2040	0.888358	0.557784	0.608057	0.653455	0.231244	0.458531
07/11/2040	0.887618	0.557167	0.607607	0.653165	0.230592	0.454554
08/11/2040	0.886857	0.556554	0.607143	0.652866	0.229950	0.450821
09/11/2040	0.886078	0.555943	0.606679	0.652563	0.229320	0.448383
10/11/2040	0.885299	0.555338	0.606384	0.652300	0.228699	0.457752
11/11/2040	0.884543	0.554739	0.606297	0.652124	0.228089	0.461152
12/11/2040	0.883810	0.554144	0.606204	0.651995	0.227490	0.460320
13/11/2040	0.883080	0.553554	0.605959	0.651829	0.226900	0.456655
14/11/2040	0.882337	0.552968	0.605581	0.651586	0.226321	0.452582
15/11/2040	0.881591	0.552384	0.605306	0.651329	0.225750	0.460757
16/11/2040	0.880865	0.551803	0.605230	0.651145	0.225189	0.463485
17/11/2040	0.880172	0.551228	0.605318	0.651055	0.224637	0.474625
18/11/2040	0.879525	0.550661	0.605644	0.651066	0.224095	0.489565
19/11/2040	0.878935	0.550103	0.606221	0.651185	0.223562	0.505894
20/11/2040	0.878408	0.549555	0.606969	0.651397	0.223040	0.523094
21/11/2040	0.877941	0.549017	0.607792	0.651662	0.222528	0.538763

22/11/2040	0.877527	0.548490	0.608630	0.651942	0.222027	0.552603
23/11/2040	0.877160	0.547972	0.609462	0.652220	0.221536	0.565847
24/11/2040	0.876835	0.547463	0.610278	0.652492	0.221055	0.579208
25/11/2040	0.876546	0.546962	0.611074	0.652758	0.220584	0.591787
26/11/2040	0.876288	0.546470	0.611846	0.653020	0.220123	0.597765
27/11/2040	0.876058	0.545986	0.612590	0.653275	0.219672	0.598060
28/11/2040	0.875851	0.545510	0.613306	0.653524	0.219231	0.598016
29/11/2040	0.875664	0.545041	0.613996	0.653766	0.218800	0.598098
30/11/2040	0.875495	0.544580	0.614662	0.654002	0.218377	0.598191
01/12/2040	0.875339	0.544125	0.615304	0.654232	0.217964	0.598252
02/12/2040	0.875195	0.543677	0.615921	0.654455	0.217560	0.598296
03/12/2040	0.875060	0.543236	0.616515	0.654671	0.217165	0.598337
04/12/2040	0.874933	0.542801	0.617087	0.654880	0.216779	0.598377
05/12/2040	0.874811	0.542372	0.617638	0.655084	0.216401	0.598415
06/12/2040	0.874693	0.541949	0.618168	0.655281	0.216032	0.598449
07/12/2040	0.874577	0.541531	0.618677	0.655472	0.215670	0.598481
08/12/2040	0.874463	0.541119	0.619166	0.655656	0.215316	0.598510
09/12/2040	0.874350	0.540711	0.619635	0.655833	0.214971	0.598538
10/12/2040	0.874236	0.540308	0.620084	0.656004	0.214632	0.598564
11/12/2040	0.874120	0.539910	0.620514	0.656169	0.214301	0.598589
12/12/2040	0.874003	0.539517	0.620925	0.656326	0.213977	0.598613
13/12/2040	0.873883	0.539128	0.621319	0.656477	0.213660	0.598635
14/12/2040	0.873760	0.538742	0.621695	0.656622	0.213350	0.598657
15/12/2040	0.873633	0.538361	0.622053	0.656760	0.213046	0.598682
16/12/2040	0.873503	0.537983	0.622394	0.656891	0.212749	0.598708
17/12/2040	0.873368	0.537609	0.622719	0.657016	0.212458	0.598732
18/12/2040	0.873228	0.537238	0.623029	0.657135	0.212173	0.598755
19/12/2040	0.873084	0.536871	0.623324	0.657248	0.211893	0.598776
20/12/2040	0.872935	0.536506	0.623604	0.657355	0.211620	0.598796
21/12/2040	0.872782	0.536145	0.623871	0.657457	0.211352	0.598815
22/12/2040	0.872623	0.535787	0.624125	0.657553	0.211089	0.598833
23/12/2040	0.872459	0.535431	0.624366	0.657643	0.210831	0.598849
24/12/2040	0.872290	0.535079	0.624594	0.657729	0.210579	0.598865
25/12/2040	0.872117	0.534728	0.624811	0.657809	0.210331	0.598880
26/12/2040	0.871938	0.534381	0.625017	0.657884	0.210088	0.598894
27/12/2040	0.871755	0.534036	0.625212	0.657955	0.209850	0.598907
28/12/2040	0.871567	0.533693	0.625397	0.658021	0.209617	0.598919
29/12/2040	0.871374	0.533352	0.625571	0.658082	0.209387	0.598930
30/12/2040	0.871152	0.532972	0.625756	0.658147	0.209134	0.598943
31/12/2040	0.870975	0.532678	0.625893	0.658193	0.208941	0.598952
01/01/2041	0.870769	0.532344	0.626039	0.658240	0.208724	0.598961
02/01/2041	0.870558	0.532011	0.626176	0.658282	0.208511	0.598968
03/01/2041	0.870344	0.531681	0.626305	0.658319	0.208301	0.598973
04/01/2041	0.870125	0.531353	0.626425	0.658353	0.208095	0.598978
05/01/2041	0.869903	0.531026	0.626538	0.658383	0.207893	0.598983
06/01/2041	0.869677	0.530701	0.626643	0.658409	0.207694	0.598987
07/01/2041	0.869447	0.530378	0.626742	0.658432	0.207499	0.598992
08/01/2041	0.869214	0.530056	0.626833	0.658452	0.207306	0.598996

09/01/2041	0.868977	0.529737	0.626918	0.658468	0.207117	0.598999
10/01/2041	0.868737	0.529419	0.626997	0.658481	0.206931	0.599003
11/01/2041	0.868495	0.529102	0.627069	0.658492	0.206748	0.599006
12/01/2041	0.868249	0.528786	0.627136	0.658499	0.206567	0.599009
13/01/2041	0.868000	0.528472	0.627197	0.658503	0.206390	0.599012
14/01/2041	0.867748	0.528160	0.627253	0.658505	0.206215	0.599015
15/01/2041	0.867494	0.527849	0.627303	0.658504	0.206042	0.599017
16/01/2041	0.867238	0.527539	0.627349	0.658500	0.205872	0.599020
17/01/2041	0.866978	0.527232	0.627389	0.658494	0.205705	0.599022
18/01/2041	0.866717	0.526926	0.627425	0.658486	0.205540	0.599024
19/01/2041	0.866454	0.526616	0.627457	0.658475	0.205377	0.599026
20/01/2041	0.866188	0.526301	0.627485	0.658463	0.205217	0.599027
21/01/2041	0.865920	0.525988	0.627508	0.658448	0.205059	0.599029
22/01/2041	0.865651	0.525678	0.627527	0.658430	0.204902	0.599030
23/01/2041	0.865380	0.525372	0.627542	0.658411	0.204748	0.599032
24/01/2041	0.865107	0.525069	0.627554	0.658390	0.204596	0.599033
25/01/2041	0.864833	0.524766	0.627562	0.658368	0.204446	0.599034
26/01/2041	0.864557	0.524466	0.627567	0.658343	0.204297	0.599035
27/01/2041	0.864279	0.524167	0.627569	0.658317	0.204151	0.599035
28/01/2041	0.864000	0.523870	0.627567	0.658290	0.204006	0.599036
29/01/2041	0.863720	0.523574	0.627563	0.658261	0.203863	0.599037
30/01/2041	0.863439	0.523280	0.627556	0.658230	0.203722	0.599037
31/01/2041	0.863157	0.522987	0.627546	0.658198	0.203582	0.599038
01/02/2041	0.862874	0.522696	0.627534	0.658165	0.203444	0.599038
02/02/2041	0.862590	0.522407	0.627519	0.658130	0.203307	0.599038
03/02/2041	0.862305	0.522118	0.627501	0.658094	0.203172	0.599038
04/02/2041	0.862019	0.521832	0.627482	0.658057	0.203039	0.599038
05/02/2041	0.861733	0.521546	0.627460	0.658019	0.202907	0.599038
06/02/2041	0.861445	0.521262	0.627436	0.657980	0.202776	0.599038
07/02/2041	0.861158	0.520979	0.627410	0.657939	0.202647	0.599038
08/02/2041	0.860869	0.520698	0.627381	0.657898	0.202519	0.599038
09/02/2041	0.860581	0.520418	0.627352	0.657856	0.202392	0.599038
10/02/2041	0.860292	0.520140	0.627320	0.657813	0.202266	0.599037
11/02/2041	0.860002	0.519862	0.627286	0.657769	0.202142	0.599037
12/02/2041	0.859712	0.519586	0.627251	0.657724	0.202019	0.599036
13/02/2041	0.859422	0.519311	0.627214	0.657678	0.201897	0.599036
14/02/2041	0.859132	0.519038	0.627176	0.657631	0.201777	0.599035
15/02/2041	0.858842	0.518766	0.627136	0.657584	0.201657	0.599035
16/02/2041	0.858551	0.518495	0.627095	0.657536	0.201539	0.599034
17/02/2041	0.858261	0.518225	0.627053	0.657488	0.201421	0.599033
18/02/2041	0.857970	0.517957	0.627009	0.657439	0.201305	0.599032
19/02/2041	0.857679	0.517690	0.626964	0.657389	0.201189	0.599031
20/02/2041	0.857389	0.517424	0.626918	0.657338	0.201075	0.599031
21/02/2041	0.857099	0.517159	0.626870	0.657287	0.200962	0.599030
22/02/2041	0.856808	0.516895	0.626822	0.657236	0.200849	0.599029
23/02/2041	0.856518	0.516633	0.626772	0.657184	0.200738	0.599028
24/02/2041	0.856228	0.516372	0.626722	0.657131	0.200627	0.599027
25/02/2041	0.855939	0.516111	0.626670	0.657078	0.200517	0.599026

26/02/2041	0.855649	0.515852	0.626618	0.657025	0.200408	0.599025
27/02/2041	0.855360	0.515595	0.626565	0.656971	0.200300	0.599023
28/02/2041	0.855071	0.515338	0.626511	0.656917	0.200193	0.599022
01/03/2041	0.854783	0.515083	0.626456	0.656862	0.200087	0.599021
02/03/2041	0.854495	0.514828	0.626400	0.656807	0.199981	0.599020
03/03/2041	0.854208	0.514575	0.626344	0.656752	0.199877	0.599019
04/03/2041	0.853921	0.514323	0.626287	0.656697	0.199773	0.599017
05/03/2041	0.853634	0.514072	0.626229	0.656641	0.199669	0.599016
06/03/2041	0.853348	0.513823	0.626171	0.656585	0.199567	0.599015
07/03/2041	0.853062	0.513574	0.626112	0.656528	0.199465	0.599013
08/03/2041	0.852777	0.513326	0.626053	0.656472	0.199364	0.599012
09/03/2041	0.852493	0.513080	0.625993	0.656415	0.199263	0.599011
10/03/2041	0.852209	0.512834	0.625932	0.656358	0.199164	0.599009
11/03/2041	0.851925	0.512590	0.625871	0.656301	0.199064	0.599008
12/03/2041	0.851643	0.512347	0.625810	0.656243	0.198966	0.599006
13/03/2041	0.851361	0.512105	0.625748	0.656186	0.198868	0.599005
14/03/2041	0.851079	0.511864	0.625686	0.656128	0.198771	0.599004
15/03/2041	0.850798	0.511624	0.625623	0.656070	0.198675	0.599002
16/03/2041	0.850518	0.511385	0.625560	0.656012	0.198579	0.599001
17/03/2041	0.850239	0.511147	0.625497	0.655954	0.198483	0.598999
18/03/2041	0.849960	0.510910	0.625433	0.655895	0.198389	0.598998
19/03/2041	0.849682	0.510674	0.625369	0.655837	0.198295	0.598996
20/03/2041	0.849405	0.510439	0.625305	0.655779	0.198201	0.598994
21/03/2041	0.849128	0.510206	0.625240	0.655720	0.198108	0.598993
22/03/2041	0.848853	0.509973	0.625175	0.655661	0.198015	0.598991
23/03/2041	0.848578	0.509741	0.625110	0.655603	0.197924	0.598990
24/03/2041	0.848304	0.509511	0.625045	0.655544	0.197832	0.598988
25/03/2041	0.848030	0.509281	0.624979	0.655485	0.197741	0.598987
26/03/2041	0.847758	0.509052	0.624914	0.655427	0.197651	0.598985
27/03/2041	0.847486	0.508825	0.624848	0.655368	0.197561	0.598983
28/03/2041	0.847215	0.508598	0.624782	0.655309	0.197472	0.598982
29/03/2041	0.846945	0.508372	0.624716	0.655250	0.197383	0.598980
30/03/2041	0.846676	0.508147	0.624650	0.655191	0.197295	0.598979
31/03/2041	0.846407	0.507924	0.624583	0.655132	0.197207	0.598977
01/04/2041	0.846140	0.507701	0.624517	0.655073	0.197119	0.598975
02/04/2041	0.845873	0.507479	0.624450	0.655015	0.197033	0.598974
03/04/2041	0.845607	0.507258	0.624383	0.654956	0.196946	0.598972
04/04/2041	0.845343	0.507039	0.624317	0.654897	0.196860	0.598970
05/04/2041	0.845079	0.506820	0.624250	0.654838	0.196775	0.598969
06/04/2041	0.844815	0.506602	0.624183	0.654780	0.196690	0.598967
07/04/2041	0.844553	0.506385	0.624116	0.654721	0.196605	0.598965
08/04/2041	0.844292	0.506169	0.624049	0.654662	0.196521	0.598964
09/04/2041	0.844031	0.505954	0.623982	0.654604	0.196437	0.598962
10/04/2041	0.843772	0.505740	0.623915	0.654545	0.196354	0.598960
11/04/2041	0.843513	0.505526	0.623849	0.654487	0.196271	0.598959
12/04/2041	0.843255	0.505314	0.623782	0.654429	0.196188	0.598957
13/04/2041	0.842998	0.505103	0.623715	0.654370	0.196106	0.598955
14/04/2041	0.842743	0.504892	0.623648	0.654312	0.196024	0.598954

15/04/2041	0.842487	0.504682	0.623581	0.654254	0.195943	0.598952
16/04/2041	0.842233	0.504472	0.623514	0.654196	0.195862	0.598950
17/04/2041	0.841980	0.504262	0.623447	0.654138	0.195782	0.598948
18/04/2041	0.841728	0.504054	0.623380	0.654080	0.195701	0.598947
19/04/2041	0.841477	0.503846	0.623313	0.654022	0.195622	0.598945
20/04/2041	0.841226	0.503640	0.623246	0.653964	0.195542	0.598943
21/04/2041	0.840976	0.503435	0.623179	0.653906	0.195463	0.598942
22/04/2041	0.840728	0.503230	0.623112	0.653848	0.195385	0.598940
23/04/2041	0.840480	0.503027	0.623045	0.653790	0.195306	0.598938
24/04/2041	0.840233	0.502824	0.622979	0.653733	0.195228	0.598937
25/04/2041	0.839987	0.502622	0.622912	0.653675	0.195151	0.598935
26/04/2041	0.839743	0.502421	0.622846	0.653618	0.195074	0.598933
27/04/2041	0.839499	0.502221	0.622779	0.653561	0.194997	0.598932
28/04/2041	0.839255	0.502022	0.622713	0.653504	0.194920	0.598930
29/04/2041	0.839013	0.501823	0.622647	0.653447	0.194844	0.598928
30/04/2041	0.838772	0.501626	0.622580	0.653390	0.194768	0.598926
01/05/2041	0.838532	0.501429	0.622514	0.653333	0.194693	0.598925
02/05/2041	0.838293	0.501233	0.622449	0.653277	0.194617	0.598923
03/05/2041	0.838054	0.501038	0.622383	0.653220	0.194543	0.598921
04/05/2041	0.837817	0.500843	0.622317	0.653164	0.194468	0.598920
05/05/2041	0.837580	0.500650	0.622252	0.653108	0.194394	0.598918
06/05/2041	0.837344	0.500457	0.622186	0.653052	0.194320	0.598916
07/05/2041	0.837110	0.500265	0.622121	0.652996	0.194247	0.598915
08/05/2041	0.836876	0.500074	0.622056	0.652940	0.194173	0.598913
09/05/2041	0.836643	0.499884	0.621991	0.652885	0.194100	0.598911
10/05/2041	0.836410	0.499694	0.621926	0.652829	0.194028	0.598910
11/05/2041	0.836178	0.499505	0.621861	0.652774	0.193956	0.598908
12/05/2041	0.835946	0.499317	0.621797	0.652719	0.193884	0.598906
13/05/2041	0.835716	0.499130	0.621732	0.652664	0.193812	0.598905
14/05/2041	0.835486	0.498943	0.621668	0.652609	0.193741	0.598903
15/05/2041	0.835256	0.498758	0.621604	0.652554	0.193670	0.598902
16/05/2041	0.835028	0.498573	0.621540	0.652500	0.193599	0.598900
17/05/2041	0.834801	0.498388	0.621476	0.652445	0.193529	0.598898
18/05/2041	0.834574	0.498205	0.621413	0.652391	0.193459	0.598897
19/05/2041	0.834349	0.498022	0.621349	0.652337	0.193389	0.598895
20/05/2041	0.834125	0.497840	0.621286	0.652283	0.193319	0.598893
21/05/2041	0.833901	0.497659	0.621223	0.652229	0.193250	0.598892
22/05/2041	0.833679	0.497479	0.621160	0.652176	0.193181	0.598890
23/05/2041	0.833457	0.497299	0.621097	0.652122	0.193113	0.598888
24/05/2041	0.833237	0.497120	0.621035	0.652069	0.193044	0.598887
25/05/2041	0.833017	0.496941	0.620972	0.652016	0.192976	0.598885
26/05/2041	0.832798	0.496764	0.620910	0.651963	0.192908	0.598884
27/05/2041	0.832581	0.496587	0.620848	0.651910	0.192841	0.598882
28/05/2041	0.832364	0.496410	0.620786	0.651858	0.192774	0.598880
29/05/2041	0.832148	0.496235	0.620724	0.651805	0.192707	0.598879
30/05/2041	0.831933	0.496060	0.620663	0.651753	0.192640	0.598877
31/05/2041	0.831719	0.495886	0.620601	0.651701	0.192574	0.598876
01/06/2041	0.831506	0.495713	0.620540	0.651649	0.192508	0.598874

02/06/2041	0.831294	0.495540	0.620479	0.651597	0.192442	0.598873
03/06/2041	0.831083	0.495368	0.620418	0.651545	0.192376	0.598871
04/06/2041	0.830873	0.495196	0.620358	0.651494	0.192311	0.598869
05/06/2041	0.830663	0.495026	0.620297	0.651443	0.192246	0.598868
06/06/2041	0.830455	0.494856	0.620237	0.651391	0.192181	0.598866
07/06/2041	0.830247	0.494686	0.620177	0.651340	0.192117	0.598865
08/06/2041	0.830041	0.494518	0.620117	0.651290	0.192052	0.598863
09/06/2041	0.829835	0.494350	0.620057	0.651239	0.191989	0.598862
10/06/2041	0.829630	0.494182	0.619998	0.651188	0.191925	0.598860
11/06/2041	0.829426	0.494016	0.619939	0.651138	0.191861	0.598859
12/06/2041	0.829223	0.493849	0.619879	0.651088	0.191798	0.598857
13/06/2041	0.829020	0.493684	0.619820	0.651038	0.191735	0.598855
14/06/2041	0.828819	0.493519	0.619762	0.650988	0.191673	0.598854
15/06/2041	0.828618	0.493355	0.619703	0.650939	0.191610	0.598852
16/06/2041	0.828418	0.493192	0.619645	0.650889	0.191548	0.598851
17/06/2041	0.828220	0.493029	0.619587	0.650840	0.191486	0.598849
18/06/2041	0.828021	0.492867	0.619529	0.650791	0.191425	0.598848
19/06/2041	0.827824	0.492705	0.619471	0.650742	0.191363	0.598846
20/06/2041	0.827628	0.492544	0.619413	0.650693	0.191302	0.598845
21/06/2041	0.827432	0.492384	0.619356	0.650644	0.191241	0.598843
22/06/2041	0.827237	0.492224	0.619298	0.650596	0.191180	0.598842
24/06/2041	0.826774	0.491844	0.619162	0.650480	0.191036	0.598838
25/06/2041	0.826658	0.491749	0.619128	0.650451	0.191000	0.598838
26/06/2041	0.826467	0.491591	0.619071	0.650403	0.190940	0.598836
27/06/2041	0.826276	0.491435	0.619015	0.650356	0.190881	0.598835
28/06/2041	0.826086	0.491278	0.618959	0.650308	0.190821	0.598833
29/06/2041	0.825897	0.491123	0.618903	0.650261	0.190762	0.598832
30/06/2041	0.825708	0.490968	0.618847	0.650214	0.190704	0.598830
01/07/2041	0.825521	0.490813	0.618792	0.650167	0.190645	0.598829
02/07/2041	0.825334	0.490660	0.618737	0.650120	0.190587	0.598827
03/07/2041	0.825148	0.490506	0.618681	0.650073	0.190529	0.598826
04/07/2041	0.824963	0.490354	0.618626	0.650027	0.190471	0.598825
05/07/2041	0.824778	0.490202	0.618572	0.649980	0.190413	0.598823
06/07/2041	0.824595	0.490050	0.618517	0.649934	0.190356	0.598822
07/07/2041	0.824412	0.489899	0.618463	0.649888	0.190299	0.598820
08/07/2041	0.824230	0.489749	0.618408	0.649842	0.190242	0.598819
09/07/2041	0.824048	0.489599	0.618354	0.649797	0.190185	0.598817
10/07/2041	0.823867	0.489449	0.618301	0.649751	0.190129	0.598816
11/07/2041	0.823687	0.489301	0.618247	0.649706	0.190072	0.598815
12/07/2041	0.823508	0.489152	0.618193	0.649660	0.190016	0.598813
13/07/2041	0.823330	0.489005	0.618140	0.649615	0.189961	0.598812
14/07/2041	0.823152	0.488857	0.618087	0.649570	0.189905	0.598810
16/07/2041	0.822726	0.488504	0.617960	0.649462	0.189772	0.598807
17/07/2041	0.822623	0.488419	0.617929	0.649436	0.189740	0.598806
19/07/2041	0.822274	0.488129	0.617824	0.649348	0.189630	0.598804
20/07/2041	0.822101	0.487984	0.617772	0.649304	0.189576	0.598802
21/07/2041	0.821928	0.487840	0.617720	0.649260	0.189522	0.598801
22/07/2041	0.821756	0.487697	0.617669	0.649216	0.189468	0.598800

23/07/2041	0.821585	0.487554	0.617617	0.649173	0.189414	0.598798
24/07/2041	0.821415	0.487412	0.617566	0.649130	0.189361	0.598797
26/07/2041	0.821006	0.487071	0.617443	0.649025	0.189232	0.598794
27/07/2041	0.820907	0.486989	0.617413	0.649000	0.189201	0.598793
28/07/2041	0.820739	0.486849	0.617363	0.648957	0.189149	0.598792
29/07/2041	0.820572	0.486709	0.617312	0.648915	0.189096	0.598790
30/07/2041	0.820406	0.486569	0.617262	0.648872	0.189044	0.598789
31/07/2041	0.820240	0.486431	0.617212	0.648830	0.188992	0.598788
01/08/2041	0.820075	0.486292	0.617162	0.648788	0.188940	0.598786
02/08/2041	0.819910	0.486155	0.617112	0.648746	0.188888	0.598785
03/08/2041	0.819746	0.486017	0.617063	0.648704	0.188837	0.598784
04/08/2041	0.819583	0.485880	0.617013	0.648662	0.188786	0.598783
05/08/2041	0.819421	0.485744	0.616964	0.648620	0.188735	0.598781
06/08/2041	0.819259	0.485608	0.616915	0.648579	0.188684	0.598780
07/08/2041	0.819098	0.485473	0.616866	0.648538	0.188633	0.598779
08/08/2041	0.818937	0.485338	0.616818	0.648496	0.188582	0.598777
09/08/2041	0.818777	0.485203	0.616769	0.648455	0.188532	0.598776
10/08/2041	0.818618	0.485069	0.616721	0.648414	0.188482	0.598775
11/08/2041	0.818459	0.484936	0.616672	0.648374	0.188432	0.598774
12/08/2041	0.818301	0.484803	0.616624	0.648333	0.188382	0.598772
14/08/2041	0.817987	0.484538	0.616529	0.648252	0.188283	0.598770
15/08/2041	0.817831	0.484406	0.616482	0.648212	0.188234	0.598769
16/08/2041	0.817676	0.484275	0.616434	0.648172	0.188185	0.598768
17/08/2041	0.817521	0.484145	0.616387	0.648132	0.188136	0.598766
18/08/2041	0.817367	0.484014	0.616340	0.648092	0.188087	0.598765
19/08/2041	0.817213	0.483885	0.616293	0.648053	0.188039	0.598764
20/08/2041	0.817060	0.483755	0.616247	0.648013	0.187991	0.598763
21/08/2041	0.816908	0.483626	0.616200	0.647974	0.187942	0.598761
22/08/2041	0.816756	0.483498	0.616154	0.647935	0.187895	0.598760
23/08/2041	0.816605	0.483370	0.616108	0.647896	0.187847	0.598759
24/08/2041	0.816454	0.483242	0.616062	0.647857	0.187799	0.598758
25/08/2041	0.816304	0.483115	0.616016	0.647818	0.187752	0.598757
26/08/2041	0.816155	0.482988	0.615970	0.647779	0.187705	0.598755
28/08/2041	0.815857	0.482735	0.615879	0.647703	0.187611	0.598753
29/08/2041	0.815710	0.482610	0.615834	0.647664	0.187564	0.598752
30/08/2041	0.815563	0.482485	0.615789	0.647626	0.187517	0.598751
31/08/2041	0.815416	0.482360	0.615744	0.647588	0.187471	0.598750
01/09/2041	0.815270	0.482236	0.615699	0.647550	0.187425	0.598748
02/09/2041	0.815125	0.482112	0.615655	0.647513	0.187379	0.598747
03/09/2041	0.814980	0.481988	0.615610	0.647475	0.187333	0.598746
04/09/2041	0.814836	0.481865	0.615566	0.647438	0.187287	0.598745
05/09/2041	0.814692	0.481743	0.615522	0.647400	0.187241	0.598744
06/09/2041	0.814549	0.481620	0.615478	0.647363	0.187196	0.598743
07/09/2041	0.814406	0.481499	0.615434	0.647326	0.187151	0.598742
08/09/2041	0.814264	0.481377	0.615390	0.647289	0.187106	0.598740
09/09/2041	0.814122	0.481256	0.615347	0.647252	0.187061	0.598739
10/09/2041	0.813981	0.481135	0.615304	0.647216	0.187016	0.598738
11/09/2041	0.813841	0.481015	0.615260	0.647179	0.186972	0.598737

12/09/2041	0.813701	0.480895	0.615217	0.647143	0.186927	0.598736
13/09/2041	0.813562	0.480776	0.615174	0.647106	0.186883	0.598735
14/09/2041	0.813423	0.480657	0.615132	0.647070	0.186839	0.598734
15/09/2041	0.813285	0.480538	0.615089	0.647034	0.186795	0.598733
16/09/2041	0.813147	0.480420	0.615047	0.646998	0.186751	0.598731
17/09/2041	0.813010	0.480302	0.615004	0.646962	0.186708	0.598730
18/09/2041	0.812873	0.480184	0.614962	0.646927	0.186664	0.598729
19/09/2041	0.812737	0.480067	0.614920	0.646891	0.186621	0.598728
20/09/2041	0.812601	0.479951	0.614878	0.646856	0.186578	0.598727
21/09/2041	0.812466	0.479834	0.614837	0.646820	0.186535	0.598726
22/09/2041	0.812331	0.479718	0.614795	0.646785	0.186492	0.598725
23/09/2041	0.812197	0.479603	0.614754	0.646750	0.186449	0.598724
24/09/2041	0.812063	0.479488	0.614712	0.646715	0.186407	0.598723
25/09/2041	0.811930	0.479373	0.614671	0.646680	0.186364	0.598722
26/09/2041	0.811798	0.479258	0.614630	0.646646	0.186322	0.598721
27/09/2041	0.811665	0.479144	0.614589	0.646611	0.186280	0.598720
28/09/2041	0.811534	0.479030	0.614549	0.646577	0.186238	0.598719
29/09/2041	0.811403	0.478917	0.614508	0.646542	0.186196	0.598718
30/09/2041	0.811272	0.478804	0.614468	0.646508	0.186155	0.598716
01/10/2041	0.811142	0.478691	0.614427	0.646474	0.186113	0.598715
02/10/2041	0.811012	0.478579	0.614387	0.646440	0.186072	0.598714
03/10/2041	0.810883	0.478467	0.614347	0.646406	0.186031	0.598713
04/10/2041	0.810754	0.478356	0.614307	0.646372	0.185990	0.598712
05/10/2041	0.810626	0.478245	0.614267	0.646339	0.185949	0.598711
06/10/2041	0.810498	0.478134	0.614228	0.646305	0.185908	0.598710
07/10/2041	0.810371	0.478023	0.614188	0.646272	0.185867	0.598709
08/10/2041	0.810245	0.477913	0.614149	0.646239	0.185827	0.598708
09/10/2041	0.810118	0.477804	0.614110	0.646205	0.185786	0.598707
10/10/2041	0.809992	0.477694	0.614071	0.646172	0.185746	0.598706
11/10/2041	0.809867	0.477585	0.614032	0.646139	0.185706	0.598705
12/10/2041	0.809742	0.477476	0.613993	0.646107	0.185666	0.598704
13/10/2041	0.809618	0.477368	0.613954	0.646074	0.185626	0.598703
14/10/2041	0.809494	0.477260	0.613916	0.646041	0.185587	0.598702
15/10/2041	0.809370	0.477152	0.613877	0.646009	0.185547	0.598701
16/10/2041	0.809247	0.477045	0.613839	0.645976	0.185508	0.598700
17/10/2041	0.809124	0.476938	0.613801	0.645944	0.185469	0.598699
18/10/2041	0.809002	0.476831	0.613763	0.645912	0.185430	0.598698
19/10/2041	0.808881	0.476725	0.613725	0.645880	0.185391	0.598697
20/10/2041	0.808759	0.476619	0.613687	0.645848	0.185352	0.598696
21/10/2041	0.808639	0.476514	0.613649	0.645816	0.185313	0.598695
22/10/2041	0.808518	0.476408	0.613612	0.645784	0.185275	0.598694
23/10/2041	0.808398	0.476303	0.613575	0.645753	0.185236	0.598693
24/10/2041	0.808279	0.476199	0.613537	0.645721	0.185198	0.598692
25/10/2041	0.808160	0.476094	0.613500	0.645690	0.185160	0.598691
26/10/2041	0.808041	0.475990	0.613463	0.645658	0.185122	0.598690
27/10/2041	0.807923	0.475887	0.613426	0.645627	0.185084	0.598689
28/10/2041	0.807805	0.475783	0.613389	0.645596	0.185046	0.598688
29/10/2041	0.807688	0.475680	0.613353	0.645565	0.185008	0.598688

30/10/2041	0.807571	0.475578	0.613316	0.645534	0.184971	0.598687
31/10/2041	0.807454	0.475475	0.613280	0.645504	0.184933	0.598686
01/11/2041	0.807338	0.475373	0.613244	0.645473	0.184896	0.598685
02/11/2041	0.807222	0.475271	0.613208	0.645442	0.184859	0.598684
03/11/2041	0.807107	0.475170	0.613171	0.645412	0.184822	0.598683
04/11/2041	0.806992	0.475069	0.613136	0.645381	0.184785	0.598682
05/11/2041	0.806878	0.474968	0.613100	0.645351	0.184748	0.598681
06/11/2041	0.806764	0.474867	0.613064	0.645321	0.184712	0.598680
07/11/2041	0.806650	0.474767	0.613029	0.645291	0.184675	0.598679
08/11/2041	0.806537	0.474667	0.612993	0.645261	0.184639	0.598678
09/11/2041	0.806424	0.474567	0.612958	0.645231	0.184602	0.598677
10/11/2041	0.806312	0.474468	0.612923	0.645201	0.184566	0.598676
11/11/2041	0.806200	0.474369	0.612888	0.645172	0.184530	0.598675
12/11/2041	0.806088	0.474270	0.612853	0.645142	0.184494	0.598675
13/11/2041	0.805977	0.474172	0.612818	0.645113	0.184459	0.598674
14/11/2041	0.805866	0.474074	0.612783	0.645083	0.184423	0.598673
15/11/2041	0.805756	0.473976	0.612748	0.645054	0.184387	0.598672
16/11/2041	0.805646	0.473878	0.612714	0.645025	0.184352	0.598671
17/11/2041	0.805536	0.473781	0.612679	0.644996	0.184317	0.598670
18/11/2041	0.805427	0.473684	0.612645	0.644967	0.184281	0.598669
19/11/2041	0.805318	0.473587	0.612611	0.644938	0.184246	0.598668
20/11/2041	0.805210	0.473491	0.612577	0.644909	0.184211	0.598668
21/11/2041	0.805101	0.473395	0.612543	0.644880	0.184177	0.598667
22/11/2041	0.804994	0.473299	0.612509	0.644852	0.184142	0.598666
23/11/2041	0.804886	0.473203	0.612476	0.644823	0.184107	0.598665
24/11/2041	0.804779	0.473108	0.612442	0.644795	0.184073	0.598664
25/11/2041	0.804673	0.473013	0.612408	0.644766	0.184038	0.598663
26/11/2041	0.804567	0.472918	0.612375	0.644738	0.184004	0.598662
27/11/2041	0.804461	0.472824	0.612342	0.644710	0.183970	0.598661
28/11/2041	0.804355	0.472729	0.612309	0.644682	0.183936	0.598661
29/11/2041	0.804250	0.472633	0.612275	0.644654	0.183902	0.598660
30/11/2041	0.804145	0.472538	0.612242	0.644626	0.183868	0.598659
01/12/2041	0.804041	0.472443	0.612209	0.644598	0.183834	0.598658
02/12/2041	0.803937	0.472348	0.612177	0.644570	0.183801	0.598657
03/12/2041	0.803833	0.472254	0.612144	0.644543	0.183767	0.598656
04/12/2041	0.803730	0.472161	0.612111	0.644515	0.183734	0.598655
05/12/2041	0.803627	0.472067	0.612079	0.644488	0.183700	0.598655
06/12/2041	0.803524	0.471974	0.612046	0.644460	0.183667	0.598654
07/12/2041	0.803422	0.471882	0.612014	0.644433	0.183634	0.598653
09/12/2041	0.803178	0.471661	0.611937	0.644368	0.183555	0.598651
11/12/2041	0.803016	0.471514	0.611886	0.644325	0.183502	0.598650
12/12/2041	0.802916	0.471423	0.611854	0.644298	0.183470	0.598649
13/12/2041	0.802816	0.471332	0.611822	0.644271	0.183437	0.598648
14/12/2041	0.802716	0.471241	0.611790	0.644244	0.183405	0.598647
15/12/2041	0.802616	0.471151	0.611759	0.644217	0.183372	0.598646
16/12/2041	0.802517	0.471061	0.611727	0.644191	0.183340	0.598646
17/12/2041	0.802418	0.470971	0.611696	0.644164	0.183308	0.598645
18/12/2041	0.802320	0.470882	0.611665	0.644138	0.183276	0.598644

19/12/2041	0.802222	0.470793	0.611634	0.644112	0.183244	0.598643
20/12/2041	0.802124	0.470704	0.611603	0.644085	0.183212	0.598642
21/12/2041	0.802026	0.470615	0.611572	0.644059	0.183181	0.598642
22/12/2041	0.801929	0.470527	0.611541	0.644033	0.183149	0.598641
23/12/2041	0.801832	0.470439	0.611510	0.644007	0.183117	0.598640
24/12/2041	0.801736	0.470351	0.611480	0.643981	0.183086	0.598639
25/12/2041	0.801639	0.470264	0.611449	0.643955	0.183055	0.598638
26/12/2041	0.801543	0.470176	0.611419	0.643930	0.183024	0.598638
27/12/2041	0.801448	0.470089	0.611388	0.643904	0.182992	0.598637
28/12/2041	0.801352	0.470002	0.611358	0.643879	0.182961	0.598636
29/12/2041	0.801257	0.469916	0.611328	0.643853	0.182930	0.598635
30/12/2041	0.801139	0.469808	0.611290	0.643821	0.182892	0.598634
31/12/2041	0.801068	0.469744	0.611268	0.643802	0.182869	0.598634
01/01/2042	0.800974	0.469658	0.611238	0.643777	0.182838	0.598633
02/01/2042	0.800881	0.469573	0.611208	0.643751	0.182808	0.598632
03/01/2042	0.800787	0.469487	0.611178	0.643725	0.182777	0.598631
04/01/2042	0.800694	0.469402	0.611148	0.643700	0.182747	0.598631
05/01/2042	0.800601	0.469318	0.611118	0.643674	0.182717	0.598630
06/01/2042	0.800509	0.469233	0.611089	0.643649	0.182686	0.598629
07/01/2042	0.800417	0.469149	0.611059	0.643623	0.182656	0.598628
08/01/2042	0.800325	0.469065	0.611030	0.643597	0.182626	0.598628
09/01/2042	0.800233	0.468981	0.611000	0.643572	0.182596	0.598627
10/01/2042	0.800142	0.468898	0.610970	0.643547	0.182567	0.598626
11/01/2042	0.800051	0.468814	0.610941	0.643521	0.182537	0.598625
12/01/2042	0.799960	0.468731	0.610912	0.643496	0.182507	0.598625
13/01/2042	0.799870	0.468648	0.610883	0.643471	0.182478	0.598624
14/01/2042	0.799780	0.468566	0.610853	0.643446	0.182448	0.598623
15/01/2042	0.799690	0.468484	0.610824	0.643421	0.182419	0.598622
16/01/2042	0.799601	0.468401	0.610795	0.643396	0.182390	0.598621
17/01/2042	0.799511	0.468320	0.610766	0.643371	0.182360	0.598621
18/01/2042	0.799423	0.468238	0.610738	0.643346	0.182331	0.598620
19/01/2042	0.799334	0.468157	0.610709	0.643321	0.182302	0.598619
20/01/2042	0.799246	0.468075	0.610680	0.643296	0.182273	0.598619
21/01/2042	0.799158	0.467994	0.610651	0.643271	0.182245	0.598618
22/01/2042	0.799070	0.467914	0.610623	0.643247	0.182216	0.598617
23/01/2042	0.798982	0.467833	0.610594	0.643222	0.182187	0.598616
24/01/2042	0.798895	0.467753	0.610566	0.643197	0.182159	0.598616
25/01/2042	0.798808	0.467673	0.610538	0.643173	0.182130	0.598615
26/01/2042	0.798721	0.467593	0.610509	0.643148	0.182102	0.598614
27/01/2042	0.798635	0.467513	0.610481	0.643124	0.182073	0.598613
28/01/2042	0.798549	0.467434	0.610453	0.643100	0.182045	0.598613
29/01/2042	0.798463	0.467355	0.610425	0.643076	0.182017	0.598612
30/01/2042	0.798377	0.467276	0.610397	0.643051	0.181989	0.598611
31/01/2042	0.798292	0.467197	0.610369	0.643027	0.181961	0.598610
01/02/2042	0.798207	0.467119	0.610341	0.643003	0.181933	0.598610
02/02/2042	0.798122	0.467040	0.610314	0.642979	0.181905	0.598609
03/02/2042	0.798038	0.466962	0.610286	0.642955	0.181877	0.598608
04/02/2042	0.797954	0.466884	0.610259	0.642932	0.181850	0.598608

05/02/2042	0.797870	0.466807	0.610231	0.642908	0.181822	0.598607
06/02/2042	0.797786	0.466729	0.610204	0.642884	0.181795	0.598606
07/02/2042	0.797703	0.466652	0.610176	0.642860	0.181767	0.598605
08/02/2042	0.797619	0.466575	0.610149	0.642837	0.181740	0.598605
09/02/2042	0.797536	0.466498	0.610122	0.642813	0.181713	0.598604
10/02/2042	0.797454	0.466422	0.610095	0.642790	0.181685	0.598603
11/02/2042	0.797372	0.466345	0.610068	0.642766	0.181658	0.598603
12/02/2042	0.797289	0.466269	0.610041	0.642743	0.181631	0.598602
14/02/2042	0.797092	0.466086	0.609976	0.642687	0.181566	0.598600
19/02/2042	0.796722	0.465742	0.609854	0.642581	0.181444	0.598597
20/02/2042	0.796642	0.465668	0.609828	0.642558	0.181418	0.598596
21/02/2042	0.796562	0.465593	0.609802	0.642536	0.181391	0.598596
23/02/2042	0.796404	0.465445	0.609749	0.642490	0.181339	0.598594
24/02/2042	0.796325	0.465372	0.609723	0.642468	0.181313	0.598594
25/02/2042	0.796246	0.465298	0.609697	0.642445	0.181287	0.598593
26/02/2042	0.796167	0.465225	0.609671	0.642423	0.181261	0.598592
27/02/2042	0.796089	0.465152	0.609645	0.642400	0.181235	0.598592
28/02/2042	0.796011	0.465079	0.609620	0.642378	0.181209	0.598591
01/03/2042	0.795933	0.465006	0.609594	0.642356	0.181183	0.598590
02/03/2042	0.795855	0.464934	0.609568	0.642333	0.181158	0.598590
03/03/2042	0.795778	0.464861	0.609543	0.642311	0.181132	0.598589
04/03/2042	0.795701	0.464789	0.609517	0.642289	0.181107	0.598588
05/03/2042	0.795624	0.464717	0.609492	0.642267	0.181081	0.598588
06/03/2042	0.795547	0.464645	0.609466	0.642245	0.181056	0.598587
07/03/2042	0.795471	0.464574	0.609441	0.642223	0.181031	0.598586
08/03/2042	0.795394	0.464503	0.609416	0.642201	0.181005	0.598586
09/03/2042	0.795318	0.464431	0.609391	0.642179	0.180980	0.598585
10/03/2042	0.795243	0.464360	0.609366	0.642158	0.180955	0.598584
11/03/2042	0.795167	0.464290	0.609341	0.642136	0.180930	0.598584
12/03/2042	0.795092	0.464219	0.609316	0.642114	0.180905	0.598583
13/03/2042	0.795017	0.464149	0.609291	0.642093	0.180880	0.598583
14/03/2042	0.794942	0.464078	0.609266	0.642071	0.180856	0.598582
15/03/2042	0.794867	0.464008	0.609241	0.642050	0.180831	0.598581
16/03/2042	0.794793	0.463938	0.609217	0.642028	0.180806	0.598581
17/03/2042	0.794719	0.463869	0.609192	0.642007	0.180782	0.598580
18/03/2042	0.794645	0.463799	0.609167	0.641986	0.180757	0.598579
19/03/2042	0.794571	0.463730	0.609143	0.641964	0.180733	0.598579
20/03/2042	0.794498	0.463661	0.609119	0.641943	0.180708	0.598578
21/03/2042	0.794424	0.463592	0.609094	0.641922	0.180684	0.598577
22/03/2042	0.794351	0.463523	0.609070	0.641901	0.180660	0.598577
23/03/2042	0.794279	0.463454	0.609046	0.641880	0.180635	0.598576
24/03/2042	0.794206	0.463386	0.609022	0.641859	0.180611	0.598576
25/03/2042	0.794133	0.463318	0.608998	0.641838	0.180587	0.598575
26/03/2042	0.794061	0.463250	0.608974	0.641817	0.180563	0.598574
27/03/2042	0.793989	0.463182	0.608950	0.641796	0.180539	0.598574
28/03/2042	0.793918	0.463114	0.608926	0.641776	0.180516	0.598573
29/03/2042	0.793846	0.463047	0.608902	0.641755	0.180492	0.598572
30/03/2042	0.793775	0.462979	0.608878	0.641734	0.180468	0.598572

31/03/2042	0.793704	0.462912	0.608855	0.641714	0.180444	0.598571
01/04/2042	0.793633	0.462845	0.608831	0.641693	0.180421	0.598571
02/04/2042	0.793562	0.462778	0.608807	0.641673	0.180397	0.598570
03/04/2042	0.793492	0.462712	0.608784	0.641653	0.180374	0.598569
04/04/2042	0.793421	0.462645	0.608761	0.641632	0.180350	0.598569
05/04/2042	0.793351	0.462579	0.608737	0.641612	0.180327	0.598568
06/04/2042	0.793281	0.462513	0.608714	0.641592	0.180304	0.598568
07/04/2042	0.793212	0.462447	0.608691	0.641572	0.180281	0.598567
08/04/2042	0.793142	0.462381	0.608668	0.641551	0.180258	0.598566
09/04/2042	0.793073	0.462315	0.608644	0.641531	0.180235	0.598566
10/04/2042	0.793004	0.462250	0.608621	0.641511	0.180212	0.598565
11/04/2042	0.792935	0.462184	0.608598	0.641491	0.180189	0.598565
12/04/2042	0.792866	0.462119	0.608576	0.641471	0.180166	0.598564
13/04/2042	0.792798	0.462054	0.608553	0.641452	0.180143	0.598563
14/04/2042	0.792730	0.461989	0.608530	0.641432	0.180120	0.598563
15/04/2042	0.792661	0.461925	0.608507	0.641412	0.180097	0.598562
16/04/2042	0.792594	0.461860	0.608485	0.641392	0.180075	0.598562
17/04/2042	0.792526	0.461796	0.608462	0.641373	0.180052	0.598561
18/04/2042	0.792458	0.461732	0.608439	0.641353	0.180030	0.598561
19/04/2042	0.792391	0.461668	0.608417	0.641334	0.180007	0.598560
20/04/2042	0.792324	0.461604	0.608395	0.641314	0.179985	0.598559
21/04/2042	0.792257	0.461540	0.608372	0.641295	0.179963	0.598559
22/04/2042	0.792190	0.461477	0.608350	0.641275	0.179940	0.598558
23/04/2042	0.792124	0.461413	0.608328	0.641256	0.179918	0.598558
24/04/2042	0.792058	0.461350	0.608305	0.641237	0.179896	0.598557
25/04/2042	0.791991	0.461287	0.608283	0.641217	0.179874	0.598557
26/04/2042	0.791925	0.461224	0.608261	0.641198	0.179852	0.598556
27/04/2042	0.791860	0.461161	0.608239	0.641179	0.179830	0.598555
28/04/2042	0.791794	0.461099	0.608217	0.641160	0.179808	0.598555
29/04/2042	0.791729	0.461036	0.608195	0.641141	0.179786	0.598554
30/04/2042	0.791664	0.460974	0.608174	0.641122	0.179764	0.598554
01/05/2042	0.791598	0.460912	0.608152	0.641103	0.179743	0.598553
02/05/2042	0.791534	0.460850	0.608130	0.641084	0.179721	0.598553
03/05/2042	0.791469	0.460788	0.608108	0.641065	0.179699	0.598552
04/05/2042	0.791405	0.460727	0.608087	0.641047	0.179678	0.598551
05/05/2042	0.791340	0.460665	0.608065	0.641028	0.179656	0.598551
06/05/2042	0.791276	0.460604	0.608044	0.641009	0.179635	0.598550
07/05/2042	0.791212	0.460543	0.608022	0.640990	0.179614	0.598550
08/05/2042	0.791148	0.460482	0.608001	0.640972	0.179592	0.598549
09/05/2042	0.791085	0.460421	0.607980	0.640953	0.179571	0.598549
10/05/2042	0.791021	0.460360	0.607958	0.640935	0.179550	0.598548
11/05/2042	0.790958	0.460299	0.607937	0.640916	0.179529	0.598548
12/05/2042	0.790895	0.460239	0.607916	0.640898	0.179508	0.598547
13/05/2042	0.790832	0.460179	0.607895	0.640880	0.179487	0.598547
14/05/2042	0.790770	0.460119	0.607874	0.640861	0.179466	0.598546
15/05/2042	0.790707	0.460059	0.607853	0.640843	0.179445	0.598545
16/05/2042	0.790645	0.459999	0.607832	0.640825	0.179424	0.598545
17/05/2042	0.790583	0.459939	0.607811	0.640807	0.179403	0.598544

18/05/2042	0.790521	0.459879	0.607790	0.640789	0.179382	0.598544
19/05/2042	0.790459	0.459820	0.607769	0.640771	0.179361	0.598543
20/05/2042	0.790397	0.459761	0.607749	0.640753	0.179341	0.598543
21/05/2042	0.790336	0.459702	0.607728	0.640735	0.179320	0.598542
22/05/2042	0.790274	0.459643	0.607707	0.640717	0.179300	0.598542
23/05/2042	0.790213	0.459584	0.607687	0.640699	0.179279	0.598541
24/05/2042	0.790152	0.459525	0.607666	0.640681	0.179259	0.598541
25/05/2042	0.790091	0.459466	0.607646	0.640663	0.179238	0.598540
26/05/2042	0.790031	0.459408	0.607626	0.640645	0.179218	0.598540
27/05/2042	0.789970	0.459350	0.607605	0.640628	0.179198	0.598539
28/05/2042	0.789910	0.459292	0.607585	0.640610	0.179178	0.598538
29/05/2042	0.789850	0.459234	0.607565	0.640592	0.179157	0.598538
30/05/2042	0.789790	0.459176	0.607544	0.640575	0.179137	0.598537
31/05/2042	0.789730	0.459118	0.607524	0.640557	0.179117	0.598537
01/06/2042	0.789670	0.459060	0.607504	0.640540	0.179097	0.598536
02/06/2042	0.789611	0.459003	0.607484	0.640522	0.179077	0.598536
03/06/2042	0.789552	0.458946	0.607464	0.640505	0.179057	0.598535
04/06/2042	0.789492	0.458888	0.607444	0.640488	0.179037	0.598535
05/06/2042	0.789433	0.458831	0.607424	0.640470	0.179018	0.598534
06/06/2042	0.789375	0.458775	0.607405	0.640453	0.178998	0.598534
07/06/2042	0.789316	0.458718	0.607385	0.640436	0.178978	0.598533
08/06/2042	0.789257	0.458661	0.607365	0.640419	0.178958	0.598533
09/06/2042	0.789199	0.458605	0.607345	0.640402	0.178939	0.598532
10/06/2042	0.789141	0.458548	0.607326	0.640385	0.178919	0.598532
11/06/2042	0.789083	0.458492	0.607306	0.640368	0.178900	0.598531
13/06/2042	0.788943	0.458357	0.607259	0.640327	0.178853	0.598530
15/06/2042	0.788852	0.458268	0.607229	0.640300	0.178822	0.598529
16/06/2042	0.788795	0.458213	0.607209	0.640283	0.178803	0.598529
17/06/2042	0.788738	0.458157	0.607190	0.640266	0.178784	0.598528
18/06/2042	0.788681	0.458102	0.607171	0.640249	0.178765	0.598528
19/06/2042	0.788624	0.458047	0.607151	0.640233	0.178746	0.598527
20/06/2042	0.788568	0.457992	0.607132	0.640216	0.178726	0.598527
21/06/2042	0.788511	0.457937	0.607113	0.640200	0.178707	0.598526
22/06/2042	0.788455	0.457882	0.607094	0.640183	0.178688	0.598526
23/06/2042	0.788399	0.457828	0.607075	0.640166	0.178670	0.598525
24/06/2042	0.788342	0.457773	0.607056	0.640150	0.178651	0.598525
25/06/2042	0.788287	0.457719	0.607037	0.640133	0.178632	0.598524
26/06/2042	0.788231	0.457664	0.607018	0.640117	0.178613	0.598524
27/06/2042	0.788175	0.457610	0.607000	0.640101	0.178594	0.598523
28/06/2042	0.788120	0.457556	0.606981	0.640084	0.178576	0.598523
29/06/2042	0.788064	0.457502	0.606962	0.640068	0.178557	0.598522
30/06/2042	0.788009	0.457449	0.606943	0.640052	0.178538	0.598522
01/07/2042	0.787954	0.457395	0.606925	0.640036	0.178520	0.598521
02/07/2042	0.787899	0.457342	0.606906	0.640019	0.178501	0.598521
03/07/2042	0.787845	0.457288	0.606888	0.640003	0.178483	0.598521
04/07/2042	0.787790	0.457235	0.606869	0.639987	0.178465	0.598520
05/07/2042	0.787736	0.457182	0.606851	0.639971	0.178446	0.598520
06/07/2042	0.787681	0.457129	0.606832	0.639955	0.178428	0.598519

07/07/2042	0.787627	0.457076	0.606814	0.639939	0.178410	0.598519
08/07/2042	0.787573	0.457023	0.606796	0.639923	0.178391	0.598518
09/07/2042	0.787519	0.456970	0.606778	0.639907	0.178373	0.598518
11/07/2042	0.787390	0.456844	0.606734	0.639869	0.178330	0.598517
15/07/2042	0.787199	0.456657	0.606669	0.639813	0.178265	0.598515
16/07/2042	0.787146	0.456605	0.606651	0.639797	0.178247	0.598514
17/07/2042	0.787094	0.456553	0.606633	0.639782	0.178229	0.598514
18/07/2042	0.787041	0.456502	0.606615	0.639766	0.178212	0.598514
19/07/2042	0.786989	0.456451	0.606598	0.639751	0.178194	0.598513
20/07/2042	0.786936	0.456399	0.606580	0.639735	0.178176	0.598513
21/07/2042	0.786884	0.456348	0.606562	0.639720	0.178159	0.598512
22/07/2042	0.786832	0.456297	0.606544	0.639704	0.178141	0.598512
23/07/2042	0.786780	0.456246	0.606527	0.639689	0.178123	0.598511
24/07/2042	0.786728	0.456195	0.606509	0.639674	0.178106	0.598511
25/07/2042	0.786677	0.456144	0.606492	0.639658	0.178088	0.598510
26/07/2042	0.786625	0.456094	0.606474	0.639643	0.178071	0.598510
27/07/2042	0.786574	0.456043	0.606457	0.639628	0.178054	0.598509
28/07/2042	0.786522	0.455993	0.606439	0.639613	0.178036	0.598509
29/07/2042	0.786471	0.455942	0.606422	0.639598	0.178019	0.598509
30/07/2042	0.786420	0.455892	0.606404	0.639583	0.178002	0.598508
31/07/2042	0.786369	0.455842	0.606387	0.639567	0.177985	0.598508
01/08/2042	0.786319	0.455792	0.606370	0.639552	0.177967	0.598507
02/08/2042	0.786268	0.455742	0.606353	0.639537	0.177950	0.598507
03/08/2042	0.786218	0.455693	0.606336	0.639522	0.177933	0.598506
05/08/2042	0.786096	0.455573	0.606294	0.639487	0.177892	0.598505
06/08/2042	0.786067	0.455544	0.606284	0.639478	0.177882	0.598505
07/08/2042	0.786017	0.455495	0.606267	0.639463	0.177865	0.598505
08/08/2042	0.785967	0.455446	0.606250	0.639448	0.177848	0.598504
09/08/2042	0.785918	0.455397	0.606233	0.639434	0.177832	0.598504
10/08/2042	0.785868	0.455348	0.606216	0.639419	0.177815	0.598503
11/08/2042	0.785819	0.455299	0.606200	0.639404	0.177798	0.598503
12/08/2042	0.785769	0.455250	0.606183	0.639390	0.177781	0.598502
13/08/2042	0.785720	0.455202	0.606166	0.639375	0.177765	0.598502
15/08/2042	0.785602	0.455085	0.606126	0.639340	0.177724	0.598501
20/08/2042	0.785380	0.454864	0.606050	0.639274	0.177649	0.598499
21/08/2042	0.785331	0.454817	0.606034	0.639260	0.177633	0.598499
22/08/2042	0.785283	0.454769	0.606017	0.639245	0.177616	0.598498
23/08/2042	0.785235	0.454722	0.606001	0.639231	0.177600	0.598498
25/08/2042	0.785120	0.454607	0.605962	0.639197	0.177561	0.598497
27/08/2042	0.785045	0.454532	0.605936	0.639174	0.177535	0.598496
28/08/2042	0.784998	0.454485	0.605920	0.639160	0.177519	0.598496
29/08/2042	0.784950	0.454439	0.605903	0.639146	0.177503	0.598495
30/08/2042	0.784903	0.454392	0.605887	0.639132	0.177487	0.598495
31/08/2042	0.784856	0.454345	0.605871	0.639118	0.177471	0.598494
01/09/2042	0.784809	0.454298	0.605855	0.639104	0.177455	0.598494
02/09/2042	0.784763	0.454252	0.605839	0.639090	0.177439	0.598494
03/09/2042	0.784716	0.454206	0.605823	0.639076	0.177423	0.598493
04/09/2042	0.784669	0.454159	0.605807	0.639062	0.177407	0.598493

05/09/2042	0.784623	0.454113	0.605791	0.639049	0.177392	0.598492
06/09/2042	0.784577	0.454067	0.605776	0.639035	0.177376	0.598492
07/09/2042	0.784530	0.454021	0.605760	0.639021	0.177360	0.598492
08/09/2042	0.784484	0.453975	0.605744	0.639007	0.177345	0.598491
09/09/2042	0.784438	0.453929	0.605728	0.638994	0.177329	0.598491
10/09/2042	0.784392	0.453884	0.605713	0.638980	0.177313	0.598490
11/09/2042	0.784347	0.453838	0.605697	0.638966	0.177298	0.598490
13/09/2042	0.784237	0.453728	0.605659	0.638934	0.177260	0.598489
18/09/2042	0.784003	0.453494	0.605579	0.638864	0.177180	0.598487
21/09/2042	0.783896	0.453387	0.605543	0.638832	0.177144	0.598486
22/09/2042	0.783852	0.453343	0.605527	0.638819	0.177129	0.598486
23/09/2042	0.783807	0.453299	0.605512	0.638805	0.177114	0.598485
25/09/2042	0.783701	0.453192	0.605476	0.638773	0.177077	0.598484
30/09/2042	0.783473	0.452963	0.605398	0.638705	0.176999	0.598482
11/10/2042	0.782989	0.452476	0.605231	0.638560	0.176833	0.598478
19/10/2042	0.782693	0.452176	0.605129	0.638471	0.176732	0.598475

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P2	P4	P5
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0.283207	0.153106	0.311494
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0.288164	0.148467	0.316845
0.291308	0.147926	0.316625
0.296328	0.148832	0.317839
0.299768	0.148008	0.317133
0.300476	0.145318	0.313247
0.300812	0.143696	0.310583
0.301502	0.142245	0.307895
0.313113	0.152721	0.316959
0.332790	0.171764	0.335867
0.355578	0.193932	0.359147
0.370723	0.206977	0.374229
0.386946	0.221172	0.390476
0.394626	0.225878	0.396989
0.396020	0.224307	0.395902
0.394492	0.219517	0.390690
0.392408	0.214082	0.384192
0.390399	0.208911	0.377559
0.388626	0.204309	0.371285
0.387273	0.200441	0.365696
0.385844	0.196799	0.360393
0.392617	0.201364	0.363866
0.407790	0.214984	0.377468
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0.456159	0.259032	0.426293
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0.490201	0.288559	0.460104
0.505457	0.300325	0.473670
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0.523809	0.308409	0.484578
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0.599716	0.354034	0.516606
0.600083	0.369679	0.536629
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0.600419	0.394452	0.574846
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0.600262	0.387672	0.566825
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0.600367	0.401532	0.583100
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0.600185	0.394009	0.572894
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0.599767	0.384350	0.553594
0.599987	0.381057	0.548618
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0.599869	0.376611	0.541053
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0.600588	0.472469	0.631509
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0.600663	0.528192	0.631612
0.601153	0.529192	0.629799
0.600715	0.533005	0.631470
0.600707	0.544115	0.631805
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0.600788	0.571627	0.632481
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0.600922	0.560229	0.631647
0.600941	0.560171	0.631649
0.601059	0.555128	0.630637
0.601164	0.545421	0.627118

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0.601161	0.520601	0.624322
0.601083	0.511333	0.617270
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0.600025	0.425311	0.549848
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0.598690	0.405376	0.528408
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0.599609	0.399197	0.522563
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0.599928	0.417850	0.550894
0.599827	0.413364	0.547084
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0.600207	0.410852	0.544906
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0.575656	0.370250	0.501945
0.569984	0.362885	0.493605
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0.544652	0.332707	0.458991
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0.569602	0.348048	0.479823
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0.560392	0.338461	0.471215
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0.553113	0.330017	0.462872
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0.599647	0.365879	0.513318
0.599841	0.377269	0.530554
0.597684	0.377490	0.535969
0.599977	0.376535	0.537793
0.600242	0.381789	0.547342
0.599846	0.381916	0.551334
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0.596690	0.368301	0.541005
0.593411	0.358631	0.531548
0.590504	0.349985	0.522621
0.595352	0.348957	0.521127
0.599749	0.358258	0.531208
0.599144	0.360464	0.535487
0.596910	0.356928	0.533333
0.592849	0.348794	0.525972
0.588265	0.339432	0.516620
0.583475	0.330260	0.506920
0.578459	0.321588	0.497450

0.573278	0.313439	0.488401
0.568075	0.305792	0.479857
0.562669	0.298356	0.471571
0.557464	0.291425	0.463827
0.551981	0.284511	0.456172
0.546412	0.277804	0.448738
0.540767	0.271277	0.441515
0.535667	0.265432	0.435038
0.530205	0.259422	0.428508
0.524458	0.253255	0.421885
0.518554	0.247136	0.415292
0.512639	0.241148	0.408847
0.515171	0.243279	0.410973
0.524967	0.251219	0.420852
0.528727	0.253219	0.425330
0.539128	0.264966	0.438116
0.541900	0.267864	0.443045
0.538974	0.265159	0.441561
0.533109	0.259022	0.436105
0.526586	0.251911	0.429178
0.520322	0.245035	0.422103
0.514429	0.238676	0.415330
0.514747	0.238256	0.414668
0.514667	0.236055	0.413600
0.524116	0.246341	0.424134
0.537117	0.258954	0.438650
0.541643	0.261452	0.443802
0.542213	0.260610	0.444484
0.537370	0.254743	0.439614
0.544791	0.261856	0.446920
0.553624	0.267489	0.454074
0.554378	0.265622	0.453925
0.550203	0.260509	0.449402
0.543626	0.253619	0.442416
0.536664	0.246494	0.434730
0.543226	0.252533	0.440742
0.546475	0.254038	0.443659
0.544346	0.251442	0.441663
0.538894	0.245954	0.436165
0.532283	0.239372	0.429124
0.523711	0.229972	0.419497
0.514798	0.220428	0.409231
0.506008	0.211056	0.398997
0.503756	0.207402	0.394837
0.497782	0.199868	0.387719
0.490661	0.192470	0.379910
0.484187	0.186081	0.372841
0.487644	0.188920	0.375888

0.486029	0.185214	0.374131
0.480430	0.179854	0.369055
0.462883	0.164607	0.352561
0.437096	0.143073	0.327719
0.402784	0.116329	0.295641
0.394937	0.110595	0.288672
0.387687	0.105494	0.282486
0.380401	0.100447	0.276485
0.373235	0.095627	0.270722
0.380117	0.106873	0.280782
0.381636	0.110320	0.285485
0.378576	0.109782	0.285455
0.372279	0.105655	0.281463
0.367610	0.102317	0.278082
0.363049	0.098632	0.274451
0.357347	0.094118	0.269697
0.356789	0.093769	0.269354
0.351376	0.088897	0.264831
0.345361	0.084159	0.259626
0.338879	0.079273	0.253890
0.331731	0.073849	0.247475
0.325161	0.069012	0.241543
0.321348	0.066440	0.238167
0.315436	0.061908	0.233115
0.303350	0.053532	0.222907
0.296829	0.049172	0.217422
0.292544	0.046674	0.213975
0.289219	0.044697	0.211550
0.284054	0.041166	0.207609
0.278754	0.037906	0.203541
0.272793	0.034202	0.198848
0.259450	0.026066	0.188221
0.249223	0.019972	0.180097
0.226730	0.007242	0.162798
0.217198	0.002155	0.155773
0.226169	0.015521	0.168088
0.242611	0.035796	0.189596
0.249182	0.044140	0.200833
0.262544	0.061939	0.219941
0.275678	0.074682	0.236863
0.279746	0.076880	0.243367
0.278713	0.075622	0.243891
0.278744	0.075340	0.244233
0.281988	0.077372	0.247216
0.281754	0.075095	0.246396
0.279912	0.072946	0.244130
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0.297795	0.094606	0.263068
0.306142	0.103130	0.273811
0.306715	0.104360	0.276059
0.299632	0.097250	0.268940
0.294712	0.091748	0.262588
0.303466	0.101876	0.271298
0.307641	0.105400	0.275437
0.307438	0.105150	0.274957
0.299710	0.096821	0.265334
0.295129	0.091784	0.259295
0.291217	0.087457	0.253762
0.295336	0.090385	0.256241
0.297845	0.090011	0.257152
0.296608	0.087955	0.255223
0.293394	0.084946	0.251472
0.289211	0.081265	0.246672
0.290933	0.082636	0.247357
0.302523	0.094827	0.259861
0.314738	0.107137	0.273639
0.319554	0.111967	0.280195
0.323025	0.115868	0.284881
0.324284	0.116999	0.286711
0.323488	0.116321	0.286076
0.322220	0.115443	0.284569
0.327140	0.120325	0.289094
0.329330	0.121590	0.290892
0.341599	0.133537	0.303516
0.354346	0.145026	0.316859
0.365793	0.154821	0.328992
0.369638	0.157221	0.333294
0.371017	0.158044	0.334488
0.381071	0.168851	0.345139
0.398671	0.187202	0.364194
0.408765	0.196942	0.375405
0.416254	0.203547	0.383230
0.417655	0.202589	0.383766
0.428085	0.212486	0.393799
0.436702	0.219281	0.401360
0.438453	0.219302	0.401853
0.436892	0.216195	0.398395
0.433877	0.211668	0.392943
0.436854	0.212829	0.393145
0.437432	0.210870	0.391012
0.436135	0.208180	0.387346
0.433390	0.204548	0.382382
0.430088	0.200574	0.376902
0.426725	0.196681	0.371419

0.423466	0.193026	0.366159
0.426287	0.195772	0.367402
0.438558	0.207334	0.379127
0.450902	0.219122	0.391782
0.455761	0.223649	0.397242
0.455731	0.223756	0.397438
0.453619	0.221683	0.394827
0.451230	0.219173	0.391336
0.449127	0.216901	0.387837
0.447274	0.214939	0.384561
0.445517	0.213188	0.381490
0.443758	0.211555	0.378556
0.441963	0.209990	0.375713
0.440136	0.208475	0.372944
0.438389	0.207095	0.370337
0.436797	0.205898	0.367965
0.435034	0.204597	0.365539
0.433228	0.203333	0.363157
0.431376	0.202083	0.360813
0.432503	0.203614	0.361426
0.432478	0.203555	0.361018
0.437561	0.208881	0.366077
0.448021	0.219178	0.377104
0.453569	0.224700	0.383555
0.465396	0.236791	0.396751
0.479710	0.250816	0.412643
0.493332	0.262923	0.426917
0.499322	0.266645	0.432475
0.512205	0.277007	0.443968
0.531852	0.292938	0.461381
0.555285	0.311871	0.482273
0.568248	0.321112	0.493550
0.570980	0.322032	0.495473
0.569134	0.318992	0.492524
0.566070	0.314997	0.487785
0.567828	0.315110	0.486845
0.568785	0.314637	0.485268
0.567886	0.312926	0.482297
0.565679	0.310401	0.478337
0.563224	0.307823	0.474199
0.572936	0.315497	0.480948
0.591787	0.330854	0.495806
0.598927	0.339373	0.504478
0.599393	0.350763	0.516511
0.597156	0.355440	0.522201
0.595045	0.354369	0.521676
0.593963	0.350984	0.518086
0.592565	0.346565	0.512909

0.592260	0.343453	0.508600
0.594307	0.342778	0.506740
0.594515	0.341148	0.504034
0.593528	0.339018	0.500773
0.591052	0.335884	0.496509
0.588047	0.332537	0.491919
0.584822	0.329176	0.487242
0.581549	0.325936	0.482656
0.578266	0.322845	0.478227
0.574977	0.319897	0.473976
0.571653	0.317055	0.469875
0.568292	0.314304	0.465913
0.561515	0.309056	0.458381
0.558103	0.306546	0.454799
0.554693	0.304112	0.451336
0.562519	0.311133	0.458048
0.567202	0.315524	0.462519
0.567583	0.316309	0.463366
0.572173	0.320386	0.467753
0.579853	0.326778	0.474481
0.595142	0.339482	0.487956
0.599171	0.347256	0.497508
0.597554	0.348669	0.500419
0.594105	0.346067	0.498518
0.592423	0.343500	0.495839
0.599094	0.350426	0.502983
0.599104	0.354775	0.507931
0.596779	0.354890	0.508442
0.594073	0.352078	0.505632
0.596549	0.352289	0.505517
0.599419	0.361411	0.515552
0.599257	0.366419	0.521938
0.598094	0.366162	0.522481
0.599553	0.366917	0.523710
0.599342	0.365439	0.522284
0.598038	0.362252	0.518643
0.596236	0.358372	0.513950
0.597630	0.357199	0.512006
0.599458	0.365414	0.520782
0.599796	0.380548	0.539711
0.600038	0.389506	0.551720
0.599712	0.400448	0.567100
0.599723	0.404087	0.573878
0.600051	0.401964	0.572635
0.599989	0.395928	0.565516
0.599948	0.392385	0.560821
0.599662	0.387700	0.554500
0.599384	0.383120	0.548130

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0.599679	0.392330	0.556949
0.599897	0.391989	0.556554
0.600058	0.392756	0.556936
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0.600165	0.398746	0.563928
0.599727	0.402208	0.568572
0.599943	0.400816	0.567176
0.599930	0.396760	0.562153
0.599771	0.391747	0.555643
0.599626	0.386808	0.548961
0.599343	0.382182	0.542527
0.599904	0.388405	0.547977
0.599682	0.391948	0.552160
0.599930	0.401659	0.564190
0.599869	0.406015	0.570501
0.599962	0.415209	0.584957
0.600127	0.429128	0.607398
0.600547	0.434992	0.617386
0.600782	0.434421	0.616482
0.600369	0.440214	0.623681
0.600424	0.449413	0.630880
0.600562	0.462668	0.631408
0.600567	0.470117	0.630614
0.600643	0.480822	0.631621
0.600690	0.493672	0.631860
0.600742	0.508766	0.632115
0.600802	0.517585	0.632088
0.601030	0.515030	0.628850
0.600953	0.506431	0.623170
0.600790	0.495836	0.615603
0.600650	0.485706	0.607251
0.600434	0.476414	0.598576
0.600888	0.473392	0.595607
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0.600633	0.470962	0.597303
0.600713	0.475502	0.604012
0.600532	0.473247	0.602672
0.600430	0.478673	0.612471
0.600344	0.479246	0.615905
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0.600763	0.463023	0.605098
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0.599976	0.455040	0.595870
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0.597390	0.425418	0.563519
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0.599641	0.426809	0.563519
0.600305	0.426774	0.563442
0.599137	0.422258	0.559113
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0.577264	0.371692	0.502170
0.580341	0.371741	0.501754
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0.567259	0.344603	0.481379
0.561839	0.335896	0.473229
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0.508482	0.265368	0.407420
0.503252	0.259416	0.402005
0.501035	0.256237	0.399407
0.504325	0.258302	0.402686
0.506178	0.257955	0.404610
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0.185058	-0.005789	0.139330
0.179229	-0.008155	0.135643
0.176007	-0.009444	0.133615
0.172900	-0.010653	0.131680
0.169824	-0.011862	0.129762
0.166835	-0.013011	0.127909
0.163884	-0.014148	0.126077
0.161018	-0.015231	0.124306
0.158278	-0.016228	0.122639
0.155587	-0.017214	0.121006
0.152901	-0.018212	0.119363
0.150749	-0.018770	0.118202
0.150582	-0.017729	0.118923
0.149044	-0.018124	0.118500
0.147109	-0.018688	0.117661
0.148930	-0.015966	0.120266
0.154664	-0.010673	0.126961
0.157836	-0.009539	0.130731
0.170811	0.005678	0.146840
0.178581	0.015190	0.157968
0.181595	0.020550	0.164144
0.181821	0.022697	0.166683
0.192885	0.035938	0.180462
0.211774	0.056699	0.203017
0.234408	0.081183	0.230292
0.246031	0.093364	0.245738
0.255905	0.102980	0.258020
0.261541	0.106267	0.264126
0.266820	0.109315	0.268880

0.268445	0.108258	0.269123
0.273767	0.111574	0.272707
0.278204	0.113136	0.275044
0.291114	0.125628	0.287627
0.299737	0.133099	0.295891
0.312257	0.144380	0.308153
0.317911	0.147646	0.312993
0.318950	0.147084	0.312695
0.317546	0.144251	0.309290
0.317987	0.142974	0.307046
0.319603	0.142562	0.305842
0.327448	0.148245	0.311357
0.334057	0.151989	0.315728
0.347787	0.163728	0.328356
0.356530	0.170065	0.336081
0.358269	0.170473	0.336886
0.356562	0.167742	0.333658
0.359964	0.169669	0.334921
0.360688	0.167982	0.333281
0.361878	0.168100	0.332339
0.364264	0.169535	0.332802
0.365042	0.169031	0.331762
0.364861	0.168363	0.330000
0.364657	0.167889	0.328229
0.363875	0.166907	0.325963
0.362814	0.165768	0.323474
0.361572	0.164564	0.320880
0.360316	0.163423	0.318352
0.359034	0.162321	0.315899
0.357792	0.161317	0.313584
0.356534	0.160357	0.311359
0.355209	0.159398	0.309175
0.353836	0.158455	0.307037
0.352458	0.157555	0.304977
0.351053	0.156673	0.302974
0.349648	0.155828	0.301045
0.348266	0.155039	0.299208
0.346887	0.154280	0.297442
0.345506	0.153549	0.295738
0.344150	0.152865	0.294114
0.342784	0.152193	0.292536
0.342060	0.152101	0.291590
0.341245	0.151882	0.290640
0.342290	0.153316	0.291437
0.341740	0.153168	0.290915
0.340896	0.152970	0.290122
0.339648	0.152474	0.288936
0.338267	0.151854	0.287589

0.336938	0.151265	0.286265
0.336780	0.151691	0.286009
0.336227	0.152444	0.285844
0.335686	0.153389	0.285854
0.335001	0.154364	0.285851
0.334856	0.155839	0.286366
0.334868	0.157347	0.287039
0.335024	0.158906	0.287829
0.335228	0.160452	0.288637
0.341144	0.167527	0.295420
0.345382	0.172958	0.300788
0.346919	0.175719	0.303412
0.347043	0.176957	0.304306
0.347923	0.178648	0.305507
0.352596	0.183849	0.310544
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0.361555	0.194034	0.320604
0.372242	0.205142	0.332354
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0.378958	0.212951	0.340483
0.378139	0.211894	0.338840
0.377369	0.211032	0.337119
0.376738	0.210400	0.335527
0.375805	0.209545	0.333717
0.379795	0.213515	0.336993
0.381932	0.215721	0.338791
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0.381295	0.215515	0.337422
0.379931	0.214339	0.335468
0.378696	0.213264	0.333519
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0.379642	0.214307	0.332939
0.380813	0.215454	0.333573
0.381636	0.216312	0.333931
0.385609	0.220268	0.337638
0.394955	0.229569	0.347312
0.400782	0.235495	0.353757
0.403072	0.237793	0.356419
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0.403841	0.237895	0.356463
0.406918	0.240342	0.358796
0.413367	0.246170	0.364780
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0.429144	0.258832	0.377023
0.436258	0.265535	0.384255
0.449024	0.277780	0.397715
0.467863	0.294665	0.416611
0.484273	0.307367	0.431535
0.492322	0.312492	0.438572
0.493573	0.311579	0.438928
0.495993	0.311533	0.439435
0.496544	0.309853	0.437877
0.496048	0.307515	0.435214
0.494932	0.304839	0.431965
0.500188	0.307669	0.434435
0.515559	0.319134	0.446422
0.526136	0.326216	0.454518
0.526349	0.324998	0.453704
0.527311	0.324206	0.452933
0.537041	0.330901	0.459947
0.550567	0.340531	0.470573
0.558796	0.346082	0.477025
0.561701	0.347220	0.478840
0.569541	0.352026	0.484481
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0.588557	0.364151	0.498145
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0.573945	0.338104	0.468365
0.572951	0.336511	0.466006
0.570947	0.334116	0.463019
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0.574665	0.335929	0.463980
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0.565243	0.326660	0.453994
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0.535173	0.302547	0.425776
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0.576528	0.332028	0.464195
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0.558316	0.315782	0.446650
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0.539140	0.335071	0.470022
0.549419	0.342109	0.477658
0.553617	0.343847	0.479861
0.555022	0.343071	0.479234
0.566023	0.350318	0.486950

0.577765	0.358356	0.495581
0.581943	0.360127	0.497792
0.580760	0.357518	0.495207
0.577486	0.353145	0.490421
0.573571	0.348267	0.484778
0.569891	0.343754	0.479231
0.566297	0.339519	0.473856
0.562737	0.335542	0.468709
0.559206	0.331794	0.463807
0.558797	0.330753	0.461753
0.557778	0.329187	0.459425
0.555445	0.326713	0.456221
0.552118	0.323608	0.452333
0.551643	0.322938	0.450938
0.549986	0.321227	0.448700
0.559762	0.329301	0.456914
0.576051	0.342849	0.471534
0.583853	0.349183	0.479065
0.583891	0.348891	0.479724
0.576317	0.341401	0.472825
0.572891	0.337741	0.468794
0.569237	0.333832	0.464402
0.569052	0.333044	0.463086
0.570702	0.333864	0.463638
0.569832	0.332749	0.462374
0.570415	0.333023	0.462467
0.573430	0.335231	0.464788
0.573339	0.334893	0.464596
0.571364	0.333106	0.462718
0.568433	0.330446	0.459834
0.565238	0.327531	0.456571
0.562243	0.324815	0.453406
0.559560	0.322398	0.450509
0.556839	0.320010	0.447661
0.554077	0.317687	0.444878
0.552377	0.316264	0.443012
0.550051	0.314291	0.440724
0.547530	0.312303	0.438370
0.545096	0.310441	0.436134
0.542751	0.308650	0.434001
0.540288	0.306787	0.431818
0.537799	0.304958	0.429666
0.535212	0.303089	0.427479
0.533207	0.301704	0.425781
0.532547	0.301361	0.425248
0.534055	0.302792	0.426724
0.536592	0.305099	0.429274
0.536893	0.305552	0.430021

0.535418	0.304562	0.429194
0.534564	0.304013	0.428695
0.532888	0.302672	0.427388
0.530779	0.301056	0.425664
0.528521	0.299364	0.423778
0.526119	0.297572	0.421758
0.525735	0.297455	0.421449
0.524978	0.296951	0.420873
0.523401	0.295835	0.419667
0.521335	0.294384	0.418057
0.519146	0.292845	0.416308
0.515284	0.289906	0.413127
0.511067	0.286854	0.409604
0.506477	0.283509	0.405717
0.507782	0.285786	0.407703
0.507179	0.285881	0.407873
0.504571	0.284231	0.406155
0.502844	0.283356	0.405077
0.499186	0.280551	0.402225
0.495290	0.277684	0.399030
0.493780	0.277006	0.397940
0.503201	0.285683	0.407182
0.512552	0.293858	0.416319
0.518559	0.299027	0.422695
0.517965	0.298590	0.423300
0.514206	0.295618	0.420724
0.512154	0.293972	0.419017
0.521177	0.301264	0.426929
0.527701	0.306518	0.432957
0.535980	0.313232	0.440758
0.537735	0.314432	0.443001
0.534984	0.311999	0.441048
0.530104	0.307739	0.436755
0.530469	0.307741	0.436544
0.536230	0.311983	0.441022
0.537802	0.312852	0.442246
0.539027	0.313599	0.443111
0.536198	0.310816	0.440463
0.531846	0.306992	0.436324
0.525803	0.301778	0.430501
0.519700	0.296629	0.424446
0.513414	0.291355	0.418174
0.508526	0.287398	0.413166
0.505846	0.285362	0.410254
0.501193	0.281511	0.405834
0.495926	0.277431	0.400958
0.490074	0.272959	0.395602
0.484202	0.268509	0.390237

0.478532	0.264261	0.385088
0.473012	0.260180	0.380143
0.467497	0.256157	0.375293
0.462009	0.252219	0.370550
0.456758	0.248539	0.366094
0.451451	0.244828	0.361663
0.446211	0.241220	0.357351
0.441096	0.237753	0.353205
0.439931	0.237869	0.352756
0.436771	0.235903	0.350721
0.433869	0.234381	0.348920
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0.425176	0.228749	0.342608
0.421067	0.226133	0.339543
0.418495	0.224822	0.337825
0.414634	0.222245	0.335033
0.410555	0.219633	0.332036
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0.403621	0.215433	0.327114
0.399587	0.212849	0.324132
0.395433	0.210185	0.321020
0.391252	0.207491	0.317863
0.386754	0.202954	0.313712
0.382225	0.198137	0.309252
0.378741	0.193997	0.305539
0.374655	0.189221	0.301308
0.371604	0.185546	0.298064
0.367577	0.181063	0.294082
0.363390	0.176640	0.290018
0.359036	0.172183	0.285853
0.354669	0.167785	0.281717
0.350367	0.163513	0.277689
0.346142	0.159378	0.273791
0.341986	0.155376	0.270021
0.337889	0.151495	0.266370
0.333886	0.147764	0.262866
0.329912	0.144115	0.259445
0.327634	0.142004	0.257600
0.324267	0.138825	0.254905
0.321138	0.136030	0.252452
0.317955	0.133232	0.249977
0.314385	0.130114	0.247163
0.310959	0.127187	0.244463
0.307392	0.124151	0.241639
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0.315856	0.133828	0.253217
0.325399	0.142988	0.264751

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0.322631	0.139123	0.266659
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0.314153	0.129661	0.257578
0.309944	0.125058	0.252879
0.306408	0.121118	0.248826
0.315338	0.131534	0.258904
0.322524	0.138083	0.267132
0.328973	0.143673	0.274627
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0.349587	0.162460	0.298769
0.351971	0.163724	0.302108
0.348932	0.159421	0.299260
0.347935	0.156718	0.297231
0.344012	0.151119	0.292191
0.339929	0.145800	0.286776
0.341056	0.145386	0.286256
0.338822	0.140907	0.282680
0.336707	0.137659	0.279448
0.332655	0.133024	0.274581
0.328683	0.128697	0.269762
0.324211	0.124006	0.264529
0.319678	0.119402	0.259301
0.316591	0.116173	0.255481
0.312452	0.112005	0.250910
0.308250	0.108030	0.246396
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0.290536	0.092497	0.228452
0.286233	0.088931	0.224310
0.281990	0.085494	0.220316
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0.273766	0.079112	0.212854
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0.262132	0.070692	0.202965
0.270514	0.079335	0.212270
0.284669	0.091618	0.227684
0.290429	0.095770	0.235259
0.289882	0.095697	0.236698
0.285983	0.092689	0.234149
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0.378458	0.174514	0.340142
0.382321	0.175056	0.342160
0.382938	0.170180	0.339698
0.380182	0.164028	0.334112
0.374768	0.156455	0.325963
0.360366	0.139031	0.305528
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0.301321	0.078148	0.233268
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0.197433	0.048651	0.175739
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0.532763	0.340810	0.473715
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0.557992	0.357747	0.491459
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0.518102	0.292808	0.424433
0.513010	0.288706	0.419484
0.507668	0.284413	0.414448
0.506430	0.283955	0.413339
0.507989	0.285910	0.415309
0.506301	0.284895	0.414555
0.502507	0.282203	0.411765
0.497348	0.278248	0.407490
0.491868	0.273934	0.402689
0.486531	0.269722	0.397889
0.485241	0.268031	0.396253
0.494166	0.276894	0.405925
0.512158	0.293253	0.424420
0.521766	0.300014	0.434191
0.525896	0.302048	0.438637
0.527901	0.301472	0.440401
0.526071	0.296924	0.437993
0.525960	0.294662	0.436711
0.536809	0.302494	0.445569
0.548658	0.310677	0.455489
0.553626	0.312294	0.459385
0.553375	0.309877	0.458613
0.549028	0.304055	0.453862
0.557349	0.310590	0.460724
0.575538	0.325323	0.476269
0.591350	0.337055	0.489691
0.595942	0.338228	0.493544

0.599064	0.339998	0.497403
0.599329	0.347679	0.508361
0.599566	0.351422	0.515085
0.596699	0.347816	0.513507
0.592656	0.340852	0.507462
0.588440	0.333156	0.499970
0.587747	0.328673	0.495317
0.598954	0.335024	0.501704
0.598703	0.336467	0.504472
0.593264	0.333048	0.501917
0.586727	0.326322	0.495565
0.580615	0.318488	0.487597
0.575350	0.311038	0.479630
0.569417	0.302314	0.470732
0.562495	0.293067	0.461137
0.554906	0.283598	0.451203
0.547008	0.274237	0.441283
0.541300	0.267088	0.433592
0.534180	0.258832	0.425038
0.526836	0.250850	0.416566
0.519138	0.242878	0.408036
0.511345	0.235061	0.399643
0.503619	0.227511	0.391520
0.496003	0.220253	0.383708
0.488495	0.213275	0.376200
0.481088	0.206557	0.368978
0.473776	0.200083	0.362022
0.466563	0.193838	0.355318
0.459452	0.187814	0.348852
0.452446	0.182001	0.342613
0.445549	0.176390	0.336590
0.438762	0.170972	0.330774
0.435206	0.168338	0.327933
0.429623	0.163743	0.323515
0.423811	0.159306	0.318950
0.418722	0.155616	0.315052
0.416747	0.154423	0.313975
0.419740	0.157581	0.318143
0.432101	0.168453	0.332063
0.449803	0.186971	0.353546
0.458078	0.195853	0.365737
0.456398	0.195395	0.367425
0.450402	0.190193	0.363285
0.443281	0.183409	0.356732
0.439628	0.179202	0.352486
0.437521	0.176034	0.349548
0.442028	0.179224	0.353529
0.441656	0.176761	0.352910

0.437757	0.172835	0.349267
0.431974	0.167618	0.343645
0.427999	0.163849	0.339346
0.431208	0.166511	0.342245
0.430491	0.164088	0.341309
0.439952	0.175667	0.352635
0.455687	0.194128	0.371929
0.461280	0.200736	0.380701
0.472315	0.214620	0.395433
0.481579	0.223200	0.406695
0.490959	0.229458	0.416596
0.491429	0.226338	0.416728
0.488996	0.221863	0.413224
0.485617	0.216574	0.408093
0.479605	0.209084	0.400239
0.466689	0.194639	0.383473
0.462496	0.189733	0.377225
0.458158	0.184654	0.371176
0.464964	0.190413	0.376866
0.468172	0.191333	0.379273
0.474369	0.196428	0.385287
0.481950	0.201405	0.392534
0.485569	0.202038	0.395570
0.488117	0.203011	0.397659
0.484532	0.197939	0.393518
0.477563	0.190601	0.385744
0.469048	0.182303	0.376143
0.460227	0.173811	0.366033
0.451596	0.165621	0.356113
0.443221	0.157868	0.346607
0.437120	0.152218	0.339386
0.429840	0.145592	0.331476
0.422570	0.139361	0.323818
0.414782	0.132938	0.315907
0.406873	0.126616	0.308047
0.405062	0.125467	0.305870
0.407098	0.126828	0.307797
0.404567	0.123137	0.305545
0.399123	0.118927	0.301015
0.392999	0.114665	0.295758
0.385473	0.109152	0.289096
0.378334	0.104068	0.282664
0.371040	0.098883	0.276103
0.363856	0.093888	0.269703
0.370747	0.104480	0.278919
0.372236	0.107434	0.282836
0.369373	0.106831	0.282356
0.363083	0.102618	0.277875

0.348709	0.091881	0.265505
0.344080	0.088469	0.261093
0.337852	0.083600	0.255363
0.334106	0.081166	0.251996
0.335775	0.083236	0.254091
0.345754	0.091324	0.264724
0.362539	0.108598	0.284590
0.368335	0.115418	0.294013
0.366117	0.115496	0.294888
0.360289	0.111400	0.290751
0.353355	0.105608	0.284356
0.346856	0.100039	0.277715
0.340776	0.094923	0.271293
0.327691	0.084511	0.257709
0.306758	0.069375	0.237291
0.301320	0.065734	0.232295
0.308560	0.073596	0.240183
0.310781	0.074882	0.243302
0.307263	0.073474	0.242271
0.296326	0.066279	0.233448
0.292084	0.063479	0.229573
0.286876	0.059675	0.224749
0.290071	0.063249	0.228055
0.302757	0.076678	0.242696
0.308554	0.082946	0.250930
0.317933	0.093043	0.262639
0.326123	0.099044	0.272011
0.326299	0.097179	0.272963
0.322688	0.093743	0.269827
0.317233	0.089130	0.264320
0.311492	0.084299	0.258109
0.309085	0.082263	0.254787
0.306937	0.081321	0.252499
0.316736	0.091866	0.263007
0.324470	0.099582	0.271890
0.337857	0.115343	0.288357
0.348333	0.126881	0.301567
0.350883	0.129767	0.306135
0.355561	0.134749	0.311925
0.360149	0.138136	0.316604
0.362798	0.139378	0.318820
0.366725	0.142654	0.322321
0.367020	0.141978	0.321982
0.371167	0.145891	0.325493
0.376319	0.149779	0.329819
0.377171	0.149532	0.329949
0.376425	0.148932	0.328510
0.373698	0.146744	0.325030

0.370611	0.144321	0.320992
0.367603	0.141995	0.316939
0.364704	0.139801	0.313024
0.361759	0.137645	0.309169
0.358798	0.135580	0.305422
0.355835	0.133603	0.301793
0.352900	0.131721	0.298305
0.349927	0.129868	0.294892
0.346957	0.128087	0.291584
0.351953	0.133794	0.296459
0.354066	0.135852	0.298726
0.353889	0.136548	0.298959
0.357426	0.140752	0.302838
0.369229	0.151931	0.315286
0.376615	0.159248	0.323811
0.383748	0.167108	0.332353
0.386496	0.170194	0.336128
0.397019	0.182053	0.348261
0.412833	0.198404	0.365885
0.422935	0.208339	0.377387
0.436053	0.221094	0.391952
0.453404	0.238256	0.411075
0.468124	0.252319	0.427207
0.475339	0.258031	0.434740
0.476292	0.257398	0.434941
0.474473	0.253927	0.431260
0.474724	0.252372	0.428784
0.474141	0.249542	0.425171
0.472673	0.246564	0.420851
0.481709	0.255129	0.428146
0.488675	0.261133	0.433708
0.489955	0.261621	0.433766
0.488247	0.259095	0.430440
0.487821	0.257568	0.427812
0.489320	0.257394	0.426867
0.493240	0.259529	0.428503
0.499223	0.262998	0.431700
0.513841	0.274426	0.443216
0.524281	0.282305	0.451437
0.534262	0.289479	0.459343
0.550539	0.302106	0.472965
0.558204	0.307275	0.479085
0.563771	0.310796	0.483023
0.563403	0.308533	0.481166
0.573548	0.316065	0.488362
0.579327	0.320161	0.491938
0.592542	0.330642	0.502033
0.599129	0.337855	0.509157

0.599086	0.339251	0.510566
0.596069	0.336741	0.507730
0.592490	0.332831	0.502953
0.599019	0.339314	0.508454
0.599531	0.353690	0.522862
0.599721	0.364705	0.534881
0.599516	0.367191	0.538000
0.600004	0.374628	0.546073
0.600144	0.379768	0.553051
0.600102	0.380253	0.554776
0.600160	0.379652	0.554479
0.600159	0.380420	0.554896
0.600031	0.379589	0.553743
0.599895	0.377015	0.550526
0.600014	0.376156	0.548819
0.599613	0.373617	0.545226
0.599231	0.369970	0.540176
0.598537	0.365725	0.534308
0.597374	0.361346	0.528188
0.595802	0.357116	0.522176
0.599372	0.357787	0.521522
0.599128	0.356962	0.519620
0.599442	0.358585	0.520411
0.599506	0.360775	0.522149
0.599607	0.365686	0.527472
0.599518	0.367479	0.529506
0.598709	0.365467	0.527196
0.597864	0.361987	0.522853
0.596535	0.357915	0.517614
0.597171	0.355815	0.514309
0.599369	0.358124	0.516081
0.599468	0.360195	0.517775
0.598171	0.359333	0.516461
0.597225	0.357158	0.513567
0.599458	0.364155	0.521280
0.599586	0.369043	0.527136
0.599865	0.379325	0.540056
0.599833	0.388404	0.551789
0.599991	0.393375	0.558710
0.600348	0.395096	0.561590
0.600152	0.393257	0.559956
0.600328	0.396616	0.564344
0.599813	0.397338	0.565498
0.600297	0.396265	0.564021
0.600124	0.401069	0.570241
0.599863	0.404422	0.575098
0.600275	0.403616	0.574496
0.600406	0.401803	0.571821

0.600324	0.399469	0.568262
0.600131	0.406055	0.576094
0.599913	0.413198	0.586514
0.600026	0.424694	0.604443
0.600159	0.436142	0.622145
0.600668	0.439536	0.627224
0.600500	0.436424	0.622080
0.600362	0.430564	0.612465
0.600626	0.430389	0.609522
0.600609	0.429941	0.606981
0.600333	0.429853	0.604862
0.600088	0.435446	0.611888
0.600159	0.449777	0.630489
0.600830	0.456588	0.630966
0.600493	0.454597	0.622008
0.600598	0.456421	0.621210
0.600348	0.465241	0.630604
0.600365	0.468701	0.630643
0.600911	0.467000	0.625186
0.600963	0.463671	0.619475
0.600495	0.458022	0.611871
0.600595	0.462284	0.617501
0.600309	0.467308	0.624879
0.600511	0.466228	0.624050
0.600371	0.472453	0.630471
0.600044	0.473579	0.630371
0.600586	0.469460	0.624110
0.600941	0.464837	0.617203
0.600829	0.459763	0.610233
0.600491	0.454103	0.602632
0.600193	0.447886	0.594317
0.600092	0.441699	0.585940
0.600440	0.441813	0.584706
0.600081	0.440121	0.582251
0.600410	0.438909	0.580313
0.600491	0.441223	0.583498
0.600331	0.447568	0.592400
0.600353	0.450005	0.596223
0.600268	0.446847	0.592814
0.600163	0.441193	0.585730
0.600032	0.434762	0.577463
0.599387	0.427644	0.568481
0.598448	0.420704	0.559671
0.596969	0.413955	0.551135
0.594974	0.407437	0.542917
0.592573	0.401161	0.535025
0.592391	0.397144	0.529448
0.590508	0.391886	0.523020

0.588307	0.386927	0.516849
0.587006	0.383013	0.511797
0.586017	0.379459	0.507341
0.584152	0.375416	0.502550
0.581077	0.370745	0.497145
0.577341	0.365853	0.491491
0.575305	0.362507	0.487390
0.572045	0.358129	0.482529
0.568703	0.354015	0.477863
0.572034	0.355605	0.479226
0.573821	0.355800	0.479601
0.572563	0.353612	0.477625
0.575675	0.355182	0.479490
0.581262	0.358568	0.483559
0.582401	0.358281	0.483995
0.580169	0.355452	0.481587
0.575881	0.350991	0.477292
0.571058	0.346155	0.472369
0.578712	0.351802	0.478399
0.582893	0.354418	0.481671
0.586806	0.356870	0.484937
0.598901	0.366179	0.496421
0.599501	0.377787	0.510553
0.595737	0.381945	0.516788
0.590916	0.378958	0.515232
0.586760	0.373040	0.509926
0.586805	0.369503	0.506378
0.591290	0.369586	0.506639
0.592843	0.367892	0.505308
0.599311	0.375788	0.514347
0.599594	0.380772	0.520843
0.595849	0.378989	0.520234
0.592767	0.374820	0.516361
0.588752	0.368480	0.509853
0.584393	0.361935	0.502671
0.580000	0.355858	0.495725
0.575153	0.349874	0.488823
0.570203	0.344213	0.482203
0.565756	0.339269	0.476315
0.560866	0.334079	0.470282
0.564317	0.336282	0.471985
0.578952	0.347549	0.483937
0.587268	0.353479	0.490827
0.586983	0.352398	0.490643
0.582000	0.347473	0.486194
0.575505	0.341256	0.479976
0.577552	0.342085	0.480751
0.577203	0.340679	0.479594

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0.575873	0.338246	0.477133
0.574638	0.336332	0.475512
0.570740	0.332537	0.471677
0.565248	0.327575	0.466385
0.559331	0.320742	0.459912
0.554643	0.314649	0.454160
0.550466	0.308688	0.448735
0.545074	0.301739	0.442320
0.539390	0.294895	0.435766
0.536139	0.290395	0.431503
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0.525385	0.277915	0.419816
0.519374	0.271503	0.413571
0.525265	0.276778	0.419580
0.532550	0.282367	0.427251
0.546434	0.294879	0.442122
0.552200	0.298570	0.448592
0.550395	0.295745	0.447675
0.544366	0.288989	0.442200
0.539617	0.283193	0.437154
0.541599	0.283762	0.438613
0.541535	0.281429	0.437989
0.552328	0.290280	0.447985
0.556625	0.292170	0.451988
0.557473	0.291614	0.452877
0.557137	0.289509	0.452143
0.554040	0.284510	0.448485
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0.536006	0.264570	0.428768
0.529531	0.257923	0.421712
0.523214	0.251560	0.414898
0.517021	0.245456	0.408334
0.510909	0.239571	0.401993
0.503604	0.232082	0.394413
0.495928	0.224415	0.386465
0.488048	0.216627	0.378343
0.481352	0.209969	0.371360
0.474022	0.202844	0.364014
0.480315	0.211484	0.371894
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0.479833	0.212083	0.374928
0.475657	0.207933	0.371784
0.468896	0.201081	0.365677
0.463291	0.195366	0.360172
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0.468408	0.197245	0.364765

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0.448421	0.176142	0.346632
0.441827	0.170320	0.340350
0.436644	0.165816	0.335320
0.430329	0.160281	0.329393
0.423921	0.154920	0.323446
0.417333	0.149566	0.317409
0.410731	0.144300	0.311426
0.404219	0.139201	0.305597
0.397836	0.134296	0.299968
0.391556	0.129559	0.294520
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0.390829	0.129752	0.294912
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0.397261	0.138771	0.305177
0.400861	0.143627	0.311581
0.400539	0.144704	0.313653
0.399341	0.143933	0.313843
0.407813	0.154568	0.324926
0.424221	0.172999	0.344946
0.436158	0.184705	0.359726
0.437089	0.184940	0.362869
0.432506	0.179922	0.359228
0.428646	0.175142	0.354831
0.429786	0.174570	0.354706
0.441033	0.184896	0.366057
0.445796	0.188565	0.371379
0.444447	0.187171	0.370535
0.438896	0.181436	0.364815
0.432142	0.174309	0.357136
0.425425	0.167211	0.349057
0.419028	0.160573	0.341205
0.416140	0.157104	0.336663
0.411482	0.152042	0.330928
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0.407815	0.147022	0.325421
0.402870	0.142455	0.320128
0.391011	0.132399	0.307842
0.388726	0.130539	0.304994
0.384382	0.126613	0.300555
0.392682	0.137636	0.310555
0.408862	0.156758	0.330246
0.418215	0.166914	0.342695
0.417778	0.167215	0.344780
0.424854	0.172803	0.352604

0.425421	0.169409	0.352580
0.420677	0.162898	0.347081
0.419581	0.159861	0.344171
0.418316	0.156064	0.340991
0.413804	0.149773	0.334968
0.407208	0.142528	0.327066
0.391565	0.127162	0.309079
0.383235	0.119404	0.299696
0.375049	0.111958	0.290594
0.374038	0.110660	0.288270
0.368886	0.104905	0.282596
0.362735	0.099444	0.276320
0.348116	0.087676	0.261984
0.351499	0.091373	0.265354
0.356037	0.093337	0.269487
0.353445	0.090069	0.267679
0.347927	0.085849	0.263190
0.340580	0.080438	0.256730
0.332818	0.074683	0.249590
0.316112	0.062503	0.233966
0.303817	0.053848	0.222629
0.297071	0.049270	0.216588
0.290488	0.044929	0.210855
0.284007	0.040753	0.205343
0.277661	0.036760	0.200051
0.271405	0.032898	0.194918
0.266418	0.030867	0.191387
0.261952	0.029206	0.188585
0.270652	0.042298	0.200779
0.274615	0.048669	0.208306
0.287408	0.064806	0.225586
0.294732	0.072890	0.236518
0.307684	0.089016	0.254357
0.325563	0.109932	0.277701
0.340868	0.125624	0.297210
0.344759	0.128168	0.303711
0.342599	0.125529	0.302725
0.339613	0.121832	0.299373
0.348322	0.131652	0.308683
0.352916	0.135354	0.313401
0.365794	0.149891	0.327881
0.383798	0.169311	0.348561
0.394420	0.178775	0.360671
0.396455	0.179188	0.363018
0.393693	0.174263	0.359024
0.388764	0.167146	0.351750
0.383567	0.160006	0.343613
0.378456	0.153267	0.335454

0.373530	0.147040	0.327640
0.373308	0.145103	0.324394
0.369840	0.140179	0.318731
0.365857	0.135458	0.312797
0.361029	0.130367	0.306256
0.355868	0.125178	0.299527
0.350707	0.120146	0.292934
0.345635	0.115342	0.286598
0.340640	0.110765	0.280533
0.336826	0.108064	0.276104
0.333384	0.105785	0.272401
0.330232	0.103962	0.269284
0.327149	0.102325	0.266445
0.324117	0.100789	0.263780
0.321070	0.099268	0.261182
0.318278	0.097989	0.258871
0.315363	0.096602	0.256508
0.312477	0.095283	0.254209
0.309602	0.093998	0.251955
0.316570	0.101884	0.259784
0.330537	0.115175	0.275138
0.349377	0.134853	0.297243
0.363235	0.149163	0.314451
0.370758	0.155971	0.324290
0.371810	0.156148	0.326579
0.369410	0.153464	0.324432
0.378567	0.162365	0.333631
0.389443	0.171574	0.344341
0.399272	0.179161	0.353997
0.402785	0.180495	0.357167
0.405534	0.181938	0.359162
0.416140	0.192342	0.369923
0.423995	0.199134	0.377559
0.437080	0.212863	0.391608
0.442763	0.217854	0.397708
0.445278	0.219282	0.399549
0.455149	0.227232	0.408471
0.462848	0.231742	0.414489
0.474220	0.240620	0.424634
0.479519	0.243661	0.428764
0.484962	0.247725	0.432991
0.486041	0.247142	0.432507
0.484512	0.244576	0.429111
0.481790	0.241020	0.424190
0.485333	0.243556	0.425478
0.486778	0.243566	0.424848
0.485822	0.241915	0.422073
0.483259	0.238965	0.417722

0.480101	0.235542	0.412717
0.476899	0.232168	0.407653
0.473787	0.228999	0.402759
0.470740	0.226028	0.398085
0.467708	0.223213	0.393613
0.464667	0.220524	0.389318
0.461616	0.217941	0.385185
0.458562	0.215457	0.381204
0.455514	0.213068	0.377372
0.452534	0.210820	0.373735
0.460802	0.220449	0.382406
0.472299	0.232558	0.394928
0.488197	0.249328	0.413011
0.499456	0.259643	0.425018
0.501991	0.260970	0.427892
0.499789	0.258223	0.425602
0.495947	0.254058	0.421074
0.492093	0.249928	0.416066
0.488590	0.246210	0.411217
0.489258	0.246511	0.410463
0.488353	0.244890	0.408398
0.486269	0.242769	0.405432
0.483530	0.241075	0.402261
0.480566	0.239378	0.399018
0.477649	0.237904	0.395932
0.485431	0.246899	0.404113
0.491418	0.253120	0.409979
0.492739	0.255049	0.411524
0.490742	0.254099	0.409952
0.487692	0.252220	0.407145
0.484488	0.250162	0.403927
0.481574	0.248356	0.400822
0.478790	0.246682	0.397815
0.478103	0.246893	0.396764
0.476892	0.246520	0.395396
0.477339	0.247747	0.395687
0.476745	0.247990	0.395141
0.477180	0.248927	0.395252
0.488497	0.258923	0.405289
0.504283	0.272765	0.419871
0.523459	0.289371	0.438070
0.537316	0.301159	0.451657
0.544495	0.306841	0.458889
0.544558	0.306284	0.459222
0.542172	0.303685	0.456590
0.538542	0.300018	0.452306
0.544067	0.304076	0.455845
0.546949	0.305957	0.457364

0.547197	0.305799	0.456680
0.552279	0.309562	0.460201
0.554762	0.311106	0.461539
0.553753	0.309860	0.459857
0.551095	0.307334	0.456585
0.549843	0.305893	0.454240
0.551063	0.306374	0.453997
0.550682	0.305657	0.452591
0.550061	0.304927	0.451037
0.548695	0.303529	0.448865
0.547265	0.302123	0.446638
0.544964	0.300106	0.443768
0.554654	0.308301	0.451756
0.573280	0.323962	0.468273
0.587072	0.335518	0.480736
0.598901	0.348908	0.495528
0.599351	0.357078	0.505237
0.598041	0.359731	0.509270
0.599445	0.364275	0.515429
0.599576	0.366524	0.518622
0.598431	0.364710	0.517216
0.599461	0.362933	0.515255
0.599161	0.359586	0.511524
0.599357	0.357644	0.508961
0.599476	0.364948	0.516781
0.599634	0.373153	0.525663
0.599911	0.385567	0.541069
0.599953	0.391301	0.549196
0.599933	0.395229	0.555090
0.600168	0.395038	0.555778
0.599821	0.391196	0.551936
0.599749	0.386393	0.546410
0.600024	0.390025	0.550172
0.599899	0.391957	0.552521
0.599678	0.389964	0.550467
0.599339	0.385491	0.545244
0.599964	0.390871	0.550738
0.600039	0.394508	0.555123
0.600091	0.394569	0.555532
0.599712	0.391023	0.551627
0.599934	0.387832	0.547444
0.599097	0.383140	0.541507
0.598055	0.378309	0.535102
0.597221	0.373947	0.529053
0.595558	0.369304	0.522801
0.599338	0.370088	0.522448
0.599534	0.373422	0.525327
0.599543	0.375099	0.526661

0.599285	0.373727	0.524866
0.597914	0.369977	0.520409
0.595825	0.365458	0.514847
0.594224	0.361622	0.509785
0.593746	0.358981	0.505940
0.592148	0.355719	0.501634
0.593546	0.355339	0.500372
0.599051	0.358551	0.503467
0.599150	0.359954	0.504814
0.595967	0.357976	0.502606
0.592881	0.354911	0.498958
0.589455	0.350844	0.494149
0.586080	0.346777	0.489164
0.585719	0.345336	0.486841
0.585923	0.344364	0.485239
0.585778	0.343208	0.483582
0.583802	0.340740	0.480650
0.593466	0.348265	0.488425
0.598226	0.351943	0.492760
0.597503	0.351157	0.492341
0.593702	0.347629	0.488788
0.588609	0.342901	0.483670
0.587451	0.341392	0.481587
0.592870	0.345194	0.485213
0.598920	0.350094	0.490688
0.598553	0.350188	0.491433
0.599006	0.350992	0.492508
0.599061	0.350877	0.492546
0.598089	0.349375	0.491102
0.594708	0.345793	0.487363
0.595376	0.345736	0.486925
0.598765	0.347846	0.489141
0.598738	0.347705	0.489166
0.599005	0.348265	0.489755
0.599039	0.348503	0.490140
0.596814	0.346397	0.488067
0.596416	0.345570	0.486975
0.593889	0.342800	0.483950
0.589899	0.339098	0.479740
0.585264	0.335076	0.475032
0.591407	0.340112	0.479809
0.594119	0.342247	0.482123
0.592434	0.340903	0.480879
0.596213	0.344043	0.484328
0.598944	0.346048	0.486863
0.599058	0.348742	0.490298
0.595513	0.347519	0.489594
0.598913	0.350699	0.493102

0.599192	0.353886	0.496954
0.595821	0.352645	0.496265
0.590438	0.348180	0.491778
0.584266	0.342271	0.485314
0.578771	0.336789	0.478946
0.572814	0.330980	0.472175
0.567276	0.325838	0.465945
0.561578	0.320756	0.459803
0.555663	0.315667	0.453660
0.549672	0.310667	0.447600
0.543879	0.305949	0.441844
0.539046	0.302147	0.437069
0.533577	0.297794	0.431895
0.528009	0.293513	0.426743
0.522514	0.289384	0.421750
0.516887	0.285178	0.416727
0.511316	0.281085	0.411827
0.505808	0.277095	0.407056
0.500587	0.273397	0.402610
0.495523	0.269857	0.398383
0.494888	0.270418	0.398454
0.492361	0.269031	0.397035
0.494170	0.271911	0.399947
0.493457	0.272238	0.400638
0.494647	0.274354	0.403050
0.492997	0.273569	0.402709
0.489271	0.270942	0.400158
0.484556	0.267427	0.396380
0.480159	0.264141	0.392639
0.481228	0.264752	0.393621
0.487609	0.269404	0.399885
0.498376	0.278038	0.411014
0.513885	0.289073	0.425186
0.519857	0.291440	0.430699
0.518172	0.288181	0.429339
0.513057	0.282149	0.424339
0.510315	0.278116	0.420813
0.505768	0.272218	0.415438
0.501447	0.266849	0.410145
0.508907	0.273963	0.417492
0.520135	0.282922	0.428104
0.527687	0.286995	0.434512
0.531931	0.288590	0.438036
0.542648	0.295027	0.446977
0.550644	0.298902	0.453262
0.552484	0.297876	0.454144
0.553270	0.296556	0.453894
0.550584	0.291701	0.450187

0.550620	0.290152	0.448925
0.554811	0.291231	0.451004
0.555771	0.289450	0.450435
0.554710	0.286987	0.448415
0.556364	0.287059	0.448819
0.568493	0.296444	0.458977
0.574110	0.300031	0.463731
0.578090	0.302672	0.467135
0.577119	0.299636	0.465651
0.572050	0.293708	0.460402
0.566970	0.288097	0.454766
0.559682	0.280059	0.446727
0.552841	0.272613	0.438854
0.545782	0.265022	0.430778
0.538298	0.257262	0.422445
0.530712	0.249695	0.414187
0.523083	0.242320	0.406077
0.515508	0.235190	0.398203
0.508029	0.228321	0.390602
0.504716	0.225103	0.386855
0.499056	0.219636	0.381383
0.492819	0.214139	0.375567
0.488412	0.210404	0.371461
0.482097	0.204906	0.365821
0.476809	0.200554	0.361129
0.470640	0.195468	0.355754
0.464135	0.190257	0.350130
0.462254	0.189148	0.348768
0.470387	0.199183	0.359124
0.478805	0.208134	0.369835
0.490382	0.219148	0.383915
0.500859	0.228208	0.396657
0.504475	0.230008	0.401927
0.509919	0.234586	0.408770
0.522031	0.246185	0.422724
0.529618	0.252440	0.431590
0.542572	0.264978	0.445472
0.562104	0.282085	0.464312
0.584305	0.301554	0.485133
0.598955	0.313005	0.499200
0.598591	0.311393	0.501107
0.599220	0.316850	0.509191
0.593904	0.312060	0.507714
0.586169	0.302700	0.499649
0.577091	0.290529	0.487618
0.567709	0.277848	0.474313
0.558406	0.265760	0.461114
0.550798	0.255786	0.449868

0.542164	0.245416	0.438310
0.533308	0.235510	0.427034
0.524943	0.226470	0.416598
0.515974	0.217207	0.406005
0.498020	0.199752	0.385758
0.489583	0.191925	0.376572
0.485942	0.188222	0.371944
0.478898	0.181410	0.364775
0.463323	0.168103	0.349650
0.447001	0.155087	0.334468
0.448550	0.157542	0.336544
0.445330	0.153783	0.334062
0.443388	0.152516	0.332989
0.437184	0.147594	0.328150
0.431263	0.143225	0.323331
0.423941	0.137693	0.317141
0.416301	0.132063	0.310560
0.408594	0.126495	0.303892
0.405631	0.124863	0.301496
0.401918	0.122121	0.298712
0.396257	0.118026	0.294345
0.399839	0.123223	0.299430
0.403812	0.126864	0.304744
0.406690	0.130035	0.309394
0.411982	0.135557	0.316659
0.413782	0.136917	0.320101
0.413415	0.137454	0.321383
0.408878	0.134535	0.318464
0.408828	0.135657	0.319278
0.414339	0.140634	0.325476
0.427937	0.155201	0.341494
0.433677	0.161990	0.350007
0.432634	0.162768	0.351348
0.433885	0.164709	0.353737
0.435805	0.164785	0.355428
0.434935	0.162791	0.354295
0.431863	0.159780	0.351001
0.426759	0.155451	0.345680
0.415247	0.146222	0.333487
0.403333	0.137016	0.320888
0.397740	0.132839	0.315035
0.392593	0.129104	0.309753
0.387250	0.125277	0.304483
0.376654	0.118048	0.294401
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0.389818	0.131155	0.308616
0.404580	0.144357	0.324824
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0.419771	0.155341	0.345243
0.413132	0.149338	0.338605
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0.407316	0.142158	0.330677
0.401921	0.136890	0.324367
0.388124	0.124907	0.309014
0.382385	0.120178	0.302799
0.375862	0.114919	0.295785
0.369359	0.109767	0.288955
0.363636	0.105405	0.282995
0.357716	0.100935	0.277059
0.351637	0.096489	0.271139
0.356862	0.102374	0.276645
0.357364	0.102063	0.277697
0.365447	0.110258	0.286871
0.380009	0.125458	0.304086
0.385088	0.130976	0.311977
0.382736	0.130280	0.311948
0.370510	0.120637	0.301402
0.365878	0.116349	0.296098
0.367336	0.117148	0.296596
0.373605	0.120475	0.301712
0.374054	0.118572	0.301692
0.370389	0.115392	0.298253
0.378353	0.124654	0.307115
0.389122	0.135186	0.319053
0.397140	0.142589	0.328377
0.397775	0.143221	0.330374
0.394895	0.141581	0.328492
0.393244	0.140954	0.326991
0.391866	0.140159	0.325401
0.390962	0.139732	0.324141
0.392038	0.141114	0.324804
0.390643	0.139996	0.323233
0.387826	0.138289	0.320401
0.384135	0.136076	0.316687
0.380152	0.133649	0.312615
0.376213	0.131269	0.308549
0.376506	0.132554	0.308503
0.386614	0.144133	0.319764
0.397487	0.155677	0.332171
0.400671	0.159142	0.336887
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0.434562	0.199065	0.380178
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0.437238	0.199990	0.379335
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0.455106	0.218071	0.398013
0.461223	0.223489	0.404596
0.463425	0.224799	0.406486
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0.459973	0.217899	0.397090
0.458402	0.216282	0.394103
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0.463247	0.221638	0.395745
0.471172	0.229197	0.403402
0.484236	0.242528	0.417371
0.501573	0.260790	0.436725
0.524106	0.279739	0.457711
0.536312	0.288587	0.468736
0.538068	0.288615	0.470062
0.536217	0.285396	0.467047
0.533011	0.280950	0.462021
0.542629	0.288182	0.468426
0.560125	0.301449	0.482013
0.576017	0.313042	0.494277
0.582058	0.316099	0.498271
0.594064	0.325186	0.507581
0.599249	0.334326	0.517241
0.598799	0.336328	0.520048
0.599359	0.336484	0.520405
0.599412	0.334674	0.518727
0.599314	0.331672	0.515555
0.599434	0.336628	0.520413
0.599646	0.348170	0.532874
0.599983	0.364256	0.551343
0.599772	0.382014	0.575199
0.599711	0.388627	0.586335
0.600288	0.386699	0.585703
0.600173	0.381547	0.579182
0.600538	0.386371	0.582202
0.600071	0.393386	0.591028
0.599821	0.395136	0.593757
0.600211	0.403163	0.604395

0.600355	0.416853	0.624851
0.600530	0.433421	0.631479
0.600588	0.443305	0.631586
0.600672	0.446221	0.630193
0.600676	0.447582	0.631093
0.600638	0.455512	0.631231
0.600614	0.461338	0.631241
0.601054	0.460590	0.627703
0.601132	0.456477	0.622054
0.600643	0.460291	0.628469
0.600618	0.465648	0.630925
0.601156	0.466344	0.628036
0.600655	0.469694	0.630779
0.600520	0.473603	0.630939
0.600998	0.474338	0.628190
0.600559	0.482053	0.630910
0.600532	0.487972	0.631091
0.600585	0.498528	0.631323
0.600627	0.505808	0.631422
0.600672	0.514471	0.631543
0.601064	0.515804	0.629714
0.600748	0.522665	0.631404
0.601031	0.521854	0.629573
0.601192	0.515352	0.625133
0.601111	0.512385	0.625849
0.600737	0.516585	0.630961
0.601023	0.516003	0.630813
0.601071	0.510512	0.626070
0.601225	0.504482	0.621195
0.600908	0.496934	0.614797
0.600978	0.489922	0.608497
0.600781	0.494294	0.615292
0.600481	0.496846	0.621078
0.600515	0.499398	0.627095
0.600573	0.504511	0.630875
0.600615	0.510166	0.631063
0.600544	0.514876	0.631111
0.601059	0.512442	0.627743
0.600672	0.510574	0.628269
0.600822	0.504432	0.624799
0.600925	0.496704	0.618572
0.600678	0.487916	0.610305
0.600592	0.479669	0.601885
0.600470	0.472070	0.593830
0.600222	0.464612	0.585843
0.600156	0.457713	0.578339
0.599983	0.450900	0.570924
0.600462	0.455226	0.576313

0.600437	0.468012	0.594144
0.599942	0.474148	0.604537
0.600438	0.471992	0.604289
0.600708	0.466521	0.598924
0.600681	0.460380	0.592163
0.600325	0.453936	0.584933
0.600511	0.449138	0.579347
0.600621	0.454247	0.586862
0.600455	0.459101	0.594517
0.600474	0.460384	0.597496
0.600264	0.465474	0.605824
0.600347	0.477657	0.623905
0.600770	0.483867	0.631024
0.601094	0.482605	0.628855
0.600884	0.478112	0.623278
0.600779	0.471512	0.615485
0.600737	0.465127	0.607660
0.600532	0.458825	0.599829
0.600285	0.447204	0.585146
0.600260	0.442093	0.578589
0.600173	0.437274	0.572460
0.600006	0.432422	0.566420
0.599994	0.427954	0.560828
0.599920	0.423656	0.555517
0.599846	0.419544	0.550479
0.600024	0.417127	0.547308
0.599692	0.413799	0.543430
0.600060	0.418634	0.549263
0.600243	0.425543	0.558456
0.600256	0.437617	0.575346
0.600134	0.448723	0.593839
0.600692	0.452001	0.601239
0.600367	0.459562	0.614176
0.600437	0.464757	0.622363
0.600980	0.464419	0.622252
0.600971	0.460757	0.617210
0.600829	0.461233	0.617761
0.600329	0.460241	0.616684
0.600469	0.461652	0.619099
0.600519	0.468047	0.627940
0.600570	0.480238	0.631175
0.600543	0.496323	0.631584
0.600601	0.508149	0.631790
0.600777	0.511839	0.631708
0.600730	0.519780	0.631760
0.600772	0.527538	0.631792
0.601205	0.525881	0.629281
0.601215	0.519952	0.626884

0.601175	0.513235	0.624738
0.600836	0.517177	0.631014
0.601055	0.517272	0.630916
0.601100	0.512236	0.626026
0.600962	0.503907	0.618621
0.600785	0.494563	0.610404
0.600689	0.485760	0.602429
0.600514	0.477581	0.594695
0.600480	0.470421	0.587641
0.600287	0.463510	0.580704
0.600174	0.456931	0.573995
0.600518	0.453456	0.570413
0.600518	0.451033	0.568450
0.600502	0.448509	0.566647
0.600433	0.445330	0.564017
0.600520	0.446158	0.566329
0.600596	0.448718	0.570996
0.600480	0.456652	0.583721
0.600264	0.462994	0.594383
0.600875	0.463691	0.597311
0.600480	0.459100	0.593184
0.600160	0.451985	0.585478
0.599941	0.444099	0.576572
0.600611	0.447885	0.580879
0.600091	0.448482	0.583035
0.600168	0.456508	0.595821
0.600295	0.463293	0.607480
0.600722	0.465279	0.611982
0.600497	0.473657	0.624434
0.600554	0.486232	0.631212
0.600712	0.488792	0.628820
0.600543	0.483151	0.621123
0.601095	0.478110	0.615881
0.600553	0.483552	0.624406
0.600555	0.490862	0.631004
0.600634	0.497057	0.631234
0.600699	0.494607	0.625080
0.601250	0.491361	0.621050
0.600643	0.493011	0.625532
0.600616	0.498629	0.630951
0.600554	0.503412	0.631162
0.600645	0.499770	0.624923
0.600714	0.491858	0.616515
0.600406	0.481568	0.606706
0.600984	0.480011	0.606497
0.600466	0.486825	0.616729
0.600510	0.495109	0.630805
0.600552	0.494218	0.630520

0.600443	0.486912	0.621941
0.600112	0.474557	0.609211
0.600890	0.475415	0.610854
0.600735	0.480697	0.619764
0.600471	0.482360	0.626348
0.600538	0.489606	0.630961
0.600604	0.493033	0.631080
0.600551	0.500858	0.631247
0.600577	0.507581	0.631376
0.600726	0.508505	0.631295
0.601135	0.501184	0.626954
0.600670	0.489129	0.618218
0.600269	0.475110	0.606596
0.600015	0.461222	0.593985
0.600689	0.453068	0.586005
0.600673	0.447009	0.580652
0.599747	0.438352	0.573100
0.600489	0.436225	0.571479
0.600560	0.434365	0.571786
0.600648	0.436060	0.577445
0.600763	0.438498	0.584133
0.600055	0.434475	0.583103
0.599686	0.426004	0.575667
0.600249	0.417354	0.566907
0.600487	0.413672	0.562995
0.600531	0.415063	0.566285
0.600398	0.419042	0.574387
0.600205	0.427589	0.591396
0.600575	0.432273	0.602481
0.600380	0.432763	0.606638
0.600167	0.425464	0.600531
0.599573	0.414454	0.588939
0.600641	0.410018	0.582893
0.599933	0.401424	0.574556
0.597268	0.390509	0.563388
0.593369	0.378288	0.550529
0.588495	0.365638	0.536989
0.583087	0.353321	0.523610
0.577356	0.341575	0.510743
0.578290	0.337049	0.505065
0.575523	0.327990	0.496566
0.570840	0.318925	0.487166
0.564495	0.309084	0.476759
0.557509	0.299097	0.466140
0.564132	0.305249	0.470957
0.579499	0.320643	0.486534
0.595391	0.333234	0.501643
0.599596	0.338838	0.511067

0.594240	0.332834	0.509049
0.586657	0.323263	0.501298
0.578793	0.312167	0.490815
0.571368	0.301259	0.479834
0.564285	0.291076	0.469248
0.557562	0.281783	0.459447
0.550622	0.272802	0.449965
0.543580	0.264171	0.440813
0.536711	0.256028	0.432157
0.529646	0.247980	0.423632
0.522566	0.240205	0.415365
0.515478	0.232676	0.407349
0.509194	0.226052	0.400296
0.503224	0.219818	0.393787
0.499663	0.215434	0.389510
0.493830	0.209035	0.383467
0.487083	0.202273	0.376706
0.479662	0.195219	0.369414
0.472045	0.188170	0.362012
0.466965	0.183370	0.356962
0.460774	0.177519	0.351155
0.454194	0.171664	0.345146
0.453345	0.170924	0.344512
0.450922	0.167760	0.342559
0.445974	0.163223	0.338595
0.433577	0.153160	0.328313
0.431094	0.151350	0.326377
0.438993	0.161998	0.336935
0.455284	0.181359	0.357582
0.461191	0.188673	0.367693
0.458805	0.187690	0.368549
0.445795	0.175679	0.358147
0.421145	0.151410	0.332302
0.408242	0.139101	0.317947
0.404249	0.135385	0.313253
0.398624	0.130414	0.307724
0.392982	0.125934	0.302531
0.387222	0.121575	0.297405
0.381273	0.117113	0.292169
0.374819	0.111937	0.286327
0.360212	0.100569	0.273093
0.355419	0.096879	0.268765
0.349260	0.092229	0.263270
0.351888	0.095205	0.266351
0.364316	0.108341	0.281132
0.369077	0.113519	0.288788
0.374314	0.119516	0.296416
0.378748	0.122256	0.302133

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0.376652	0.117750	0.301131
0.377278	0.117570	0.301603
0.385439	0.124314	0.309963
0.388934	0.125197	0.313515
0.395231	0.130297	0.320167
0.408122	0.143267	0.335014
0.420345	0.154307	0.348918
0.436071	0.170486	0.367614
0.448099	0.181094	0.381546
0.448610	0.179583	0.382954
0.443513	0.173573	0.377579
0.428063	0.156814	0.358858
0.420860	0.149162	0.349521
0.402939	0.131158	0.326568
0.378268	0.109058	0.297529
0.372382	0.104737	0.291296
0.377864	0.110751	0.296788
0.383056	0.114356	0.302034
0.387782	0.118520	0.307510
0.387605	0.117866	0.308203
0.397162	0.130180	0.320342
0.405718	0.139075	0.330774
0.419199	0.152006	0.346263
0.437395	0.169641	0.367145
0.443701	0.175178	0.375808
0.449552	0.180590	0.382879
0.461222	0.191936	0.396049
0.464771	0.194412	0.400390
0.462231	0.191647	0.397797
0.462455	0.190500	0.396506
0.458486	0.184145	0.390536
0.453387	0.177830	0.383292
0.461552	0.184976	0.389796
0.474824	0.195138	0.401738
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0.465608	0.181360	0.388544
0.459278	0.174801	0.380366
0.452894	0.168397	0.372170
0.456281	0.171065	0.373780
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0.445546	0.158867	0.360036
0.444077	0.157269	0.357280
0.446387	0.158468	0.358452
0.446391	0.157423	0.357853

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0.460221	0.172155	0.373495
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0.475334	0.191710	0.393347
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0.472284	0.191554	0.392507
0.474087	0.193629	0.394167
0.476022	0.194539	0.395357
0.474863	0.193413	0.393814
0.476852	0.195650	0.395304
0.487793	0.206246	0.406425
0.495515	0.213443	0.414538
0.500295	0.218257	0.419806
0.502217	0.219102	0.421418
0.511761	0.229477	0.431732
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0.547373	0.260640	0.464565
0.554465	0.265045	0.470690
0.553765	0.263144	0.469516
0.550711	0.259380	0.465450
0.557424	0.263745	0.469463
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0.573435	0.272953	0.479228
0.573238	0.271727	0.477731
0.570163	0.268246	0.473626
0.571197	0.268234	0.472799
0.578689	0.272714	0.477160
0.588502	0.279085	0.483679
0.599013	0.292236	0.496817
0.599430	0.301597	0.506967
0.595489	0.302777	0.509043
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0.589470	0.296272	0.501609
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0.599686	0.317760	0.521907
0.597853	0.320751	0.526024
0.595642	0.318367	0.523929
0.593469	0.313594	0.518489
0.591095	0.308321	0.511866
0.588675	0.303557	0.505390
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0.590404	0.295646	0.490020

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0.599797	0.343937	0.547742
0.600176	0.346665	0.551103
0.600240	0.347038	0.551882
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0.598805	0.338964	0.541941
0.599880	0.335850	0.537092
0.599053	0.331124	0.530819
0.598323	0.328011	0.525333
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0.599235	0.376963	0.542409
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0.600019	0.387416	0.547854
0.599696	0.384061	0.543606
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0.598327	0.367433	0.520135
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0.599444	0.362146	0.508713
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0.594221	0.361058	0.507956
0.599395	0.368024	0.516036
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0.598393	0.375423	0.526740
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0.600909	0.439612	0.622351
0.600608	0.437797	0.618156
0.600092	0.432642	0.610359
0.600014	0.426320	0.600795
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0.600190	0.439566	0.615311
0.600099	0.441945	0.619073
0.600292	0.438543	0.614328
0.600685	0.434726	0.607552
0.600632	0.431798	0.601512
0.599916	0.426630	0.593460
0.599932	0.421190	0.585155
0.600312	0.419495	0.581089
0.599215	0.415372	0.574945
0.599112	0.410745	0.568134
0.597698	0.404418	0.559660
0.595713	0.397941	0.550913
0.593132	0.391526	0.542237
0.590366	0.385526	0.534046
0.588015	0.380320	0.526777
0.597205	0.385099	0.530531
0.599711	0.392391	0.537864
0.599716	0.395412	0.541357
0.597647	0.392622	0.538768
0.596000	0.388025	0.533641
0.599688	0.393614	0.539577
0.600013	0.402395	0.550719
0.598534	0.404401	0.554560
0.597618	0.401444	0.552095
0.596954	0.396063	0.546240
0.594390	0.388808	0.538002
0.591469	0.382086	0.529869
0.587066	0.374900	0.521202
0.582076	0.367921	0.512633
0.576755	0.361104	0.504220
0.571316	0.354495	0.496047
0.565838	0.348110	0.488151
0.560547	0.342128	0.480724
0.555304	0.336395	0.473650
0.551560	0.332200	0.468209
0.549594	0.329643	0.464688
0.547545	0.327042	0.461448
0.543842	0.323155	0.456990

0.551204	0.329464	0.463206
0.558850	0.335098	0.469359
0.566944	0.340875	0.476164
0.570745	0.342915	0.479244
0.583020	0.352041	0.489484
0.592786	0.358953	0.498167
0.599280	0.368156	0.509745
0.598359	0.369635	0.513194
0.593742	0.365660	0.510165
0.587556	0.358875	0.503502
0.581135	0.351476	0.495632
0.575134	0.344604	0.487934
0.569180	0.338088	0.480456
0.563484	0.332136	0.473476
0.557836	0.326467	0.466800
0.552009	0.320833	0.460182
0.546128	0.315327	0.453690
0.540436	0.310127	0.447524
0.534572	0.303216	0.440648
0.528452	0.295842	0.433399
0.522235	0.288236	0.426004
0.516217	0.280918	0.418884
0.510080	0.273703	0.411847
0.503970	0.266761	0.405038
0.497880	0.260043	0.398443
0.492066	0.253735	0.392272
0.487527	0.248657	0.387406
0.482126	0.242853	0.381982
0.476820	0.237364	0.376768
0.471622	0.232087	0.371762
0.466303	0.226779	0.366747
0.461043	0.221633	0.361870
0.455615	0.216433	0.356924
0.450185	0.211340	0.352045
0.445449	0.206925	0.347848
0.441654	0.203322	0.344583
0.437201	0.199140	0.340847
0.432422	0.194844	0.336872
0.427422	0.190462	0.332717
0.422372	0.186090	0.328521
0.417397	0.181823	0.324400
0.412527	0.177690	0.320397
0.410317	0.175866	0.318807
0.414635	0.180041	0.324039
0.428166	0.193014	0.339511
0.441170	0.205110	0.354959
0.452208	0.214671	0.368444
0.466914	0.228744	0.386251

0.472666	0.233476	0.394542
0.474587	0.234427	0.397726
0.483627	0.243404	0.408314
0.487301	0.245441	0.412694
0.489423	0.245820	0.414543
0.487671	0.241909	0.411973
0.483568	0.235872	0.406596
0.478446	0.229243	0.399904
0.472952	0.222566	0.392737
0.472125	0.220197	0.389881
0.471351	0.217241	0.387260
0.469495	0.213864	0.384016
0.478252	0.223460	0.393157
0.482397	0.227114	0.397857
0.480715	0.225345	0.396694
0.475763	0.220079	0.391633
0.474028	0.217167	0.388728
0.469547	0.211398	0.383175
0.464814	0.205985	0.377341
0.467441	0.207775	0.378900
0.479754	0.217748	0.390777
0.485401	0.221259	0.396699
0.497330	0.232595	0.409773
0.502717	0.236123	0.415900
0.514207	0.247524	0.428647
0.529981	0.259098	0.442830
0.538161	0.262688	0.449488
0.541065	0.262513	0.451273
0.541437	0.259851	0.450014
0.547908	0.262602	0.453877
0.548663	0.259619	0.452395
0.543540	0.252554	0.445653
0.536843	0.244575	0.437198
0.528947	0.235461	0.427390
0.523605	0.228642	0.419731
0.526200	0.229344	0.420233
0.524102	0.224266	0.416422
0.518488	0.217935	0.409835
0.510653	0.210176	0.401194
0.508572	0.207514	0.397765
0.507767	0.204475	0.395339
0.506502	0.201698	0.392949
0.500890	0.195793	0.386971
0.495448	0.190666	0.381128
0.489671	0.185265	0.375007
0.485342	0.181084	0.370215
0.478432	0.174785	0.363310
0.485081	0.181632	0.370202

0.493650	0.188241	0.379087
0.493196	0.186148	0.379528
0.487555	0.181311	0.375052
0.481368	0.176158	0.369407
0.473213	0.169113	0.361586
0.455334	0.154409	0.343968
0.449241	0.149574	0.337988
0.441720	0.143755	0.330716
0.435396	0.139013	0.324716
0.428831	0.134091	0.318726
0.421796	0.128972	0.312476
0.417075	0.125911	0.308381
0.416001	0.125493	0.307701
0.424835	0.137152	0.319215
0.431866	0.144762	0.328594
0.436374	0.149789	0.335365
0.444508	0.156862	0.345274
0.445255	0.155873	0.347312
0.440827	0.152037	0.344106
0.447985	0.159951	0.352426
0.451734	0.162249	0.356760
0.449181	0.159845	0.355109
0.445870	0.156808	0.352019
0.439941	0.151202	0.346076
0.433367	0.145260	0.339204
0.426133	0.139009	0.331613
0.409397	0.125311	0.314246
0.404131	0.121180	0.308890
0.389785	0.110340	0.294720
0.386575	0.108324	0.291440
0.383484	0.106068	0.288598
0.378377	0.102278	0.284197
0.374575	0.099987	0.281025
0.368591	0.095827	0.275984
0.354686	0.086753	0.264137
0.349706	0.083553	0.259869
0.356919	0.094933	0.269707
0.362511	0.101864	0.277717
0.375058	0.118287	0.294649
0.382719	0.126742	0.305587
0.387039	0.131645	0.312455
0.388841	0.132722	0.315554
0.398778	0.144297	0.327987
0.416178	0.162011	0.348020
0.436488	0.183638	0.372240
0.443695	0.191000	0.382639
0.442487	0.189937	0.383061
0.450168	0.198905	0.392164

0.465341	0.212259	0.407738
0.471693	0.215492	0.413784
0.470501	0.212425	0.411785
0.465033	0.205395	0.404663
0.451906	0.189607	0.386554
0.446305	0.182788	0.377979
0.441535	0.176910	0.370404
0.436116	0.170804	0.362679
0.443399	0.177050	0.368230
0.447211	0.178452	0.370709
0.448577	0.178670	0.371171
0.444636	0.174304	0.366630
0.439126	0.168859	0.360238
0.433729	0.163621	0.353678
0.428159	0.158265	0.346928
0.422806	0.153273	0.340477
0.417991	0.148906	0.334694
0.408739	0.140833	0.324080
0.403369	0.136382	0.318389
0.398494	0.132559	0.313262
0.392974	0.128252	0.307687
0.388196	0.125227	0.303121
0.383858	0.122651	0.299185
0.379805	0.120426	0.295721
0.382207	0.124032	0.298743
0.381886	0.123839	0.299182
0.391822	0.136554	0.311636
0.401343	0.147262	0.323632
0.414714	0.160354	0.339473
0.432054	0.178624	0.360415
0.438811	0.186112	0.370409
0.437899	0.186292	0.371620
0.433577	0.182455	0.367908
0.428422	0.177343	0.362240
0.423634	0.172508	0.356346
0.419220	0.168165	0.350689
0.415223	0.164399	0.345526
0.411096	0.160705	0.340435
0.406923	0.157166	0.335466
0.402687	0.153722	0.330581
0.398434	0.150385	0.325804
0.395138	0.147956	0.322011
0.393336	0.146768	0.319736
0.390943	0.145026	0.317151
0.387552	0.142646	0.313799
0.390847	0.146608	0.317156
0.390722	0.146307	0.317300
0.388877	0.145428	0.315962

0.385605	0.143433	0.313165
0.381722	0.140868	0.309615
0.378089	0.138520	0.306167
0.375652	0.137932	0.304150
0.375866	0.139634	0.304812
0.375238	0.140351	0.304948
0.374206	0.141070	0.304865
0.377953	0.146384	0.309675
0.379517	0.149049	0.312395
0.379301	0.150451	0.313370
0.383123	0.155637	0.318276
0.384591	0.157935	0.320736
0.384327	0.158973	0.321379
0.393908	0.169580	0.332180
0.407052	0.183075	0.346937
0.424363	0.201310	0.366963
0.441819	0.219349	0.387433
0.460428	0.238662	0.409419
0.471225	0.249297	0.422525
0.473565	0.250805	0.425786
0.476453	0.252354	0.428082
0.476744	0.250619	0.426773
0.484650	0.256753	0.432973
0.502351	0.270885	0.447708
0.520630	0.284648	0.462688
0.529275	0.289756	0.469133
0.531186	0.289310	0.469227
0.533066	0.288738	0.468555
0.542107	0.293681	0.473722
0.549881	0.297622	0.477790
0.551609	0.296659	0.476803
0.553536	0.296579	0.476028
0.556343	0.296825	0.475790
0.555814	0.294363	0.472751
0.565695	0.302009	0.479465
0.584081	0.316970	0.493744
0.595490	0.326216	0.502765
0.597957	0.327839	0.504392
0.599196	0.332509	0.508850
0.599447	0.344202	0.520450
0.599540	0.351095	0.527840
0.599866	0.361839	0.539452
0.600166	0.375124	0.554652
0.599889	0.389156	0.573891
0.600086	0.402535	0.593523
0.600284	0.417195	0.617572
0.600458	0.432907	0.631447
0.600606	0.443353	0.631676

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0.601141	0.441493	0.619570
0.600920	0.439016	0.616789
0.600883	0.435222	0.612586
0.600697	0.430345	0.606284
0.600686	0.432585	0.608562
0.600388	0.435088	0.611496
0.600396	0.439434	0.618080
0.600437	0.442245	0.622056
0.600793	0.441788	0.620828
0.600814	0.438017	0.614715
0.600763	0.433246	0.606856
0.600849	0.432405	0.604281
0.600546	0.432228	0.602799
0.600543	0.429746	0.598523
0.600515	0.432052	0.600470
0.600231	0.439533	0.611411
0.600852	0.443212	0.616715
0.600644	0.441349	0.613833
0.600277	0.446925	0.621226
0.600245	0.449599	0.624626
0.600353	0.450867	0.625767
0.600602	0.447917	0.620935
0.600364	0.436267	0.602438
0.600086	0.425548	0.585940
0.600250	0.420676	0.578001
0.600263	0.418730	0.573615
0.600330	0.422810	0.577353
0.600274	0.434334	0.592242
0.600091	0.441730	0.603267
0.600510	0.441798	0.604298
0.600403	0.437594	0.598747
0.600204	0.431672	0.590424
0.600308	0.426528	0.582651
0.600515	0.431767	0.587951
0.600365	0.436096	0.593165
0.600457	0.437025	0.594118
0.600771	0.435368	0.591578
0.600239	0.440322	0.598827
0.600278	0.452390	0.618174
0.600660	0.457586	0.627087
0.600742	0.460930	0.630780
0.600479	0.470781	0.631011
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0.601040	0.522500	0.630930
0.601304	0.514570	0.627962
0.601260	0.505866	0.622312
0.601153	0.499342	0.617392
0.601082	0.494623	0.613838
0.600741	0.493045	0.613662
0.600911	0.488754	0.610403
0.600989	0.482965	0.605082
0.600715	0.475763	0.597989
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0.600537	0.462283	0.583958
0.600342	0.455917	0.577240
0.600388	0.450423	0.571352
0.600699	0.455450	0.578497
0.600266	0.466857	0.595223
0.600375	0.479469	0.614856
0.600517	0.494199	0.631210
0.600998	0.498697	0.631252
0.601052	0.494969	0.624357
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0.600897	0.484828	0.614508
0.600851	0.483314	0.614578
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0.600568	0.516672	0.631660
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0.600738	0.543664	0.632116
0.601240	0.542812	0.631415
0.601107	0.532752	0.627404
0.601016	0.520308	0.621214
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0.600959	0.498502	0.606141
0.600529	0.489271	0.598257
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0.600637	0.481708	0.595071
0.600716	0.485214	0.601291
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0.600405	0.470951	0.590940
0.599890	0.441341	0.560699
0.599736	0.434677	0.553416
0.599652	0.428182	0.546276
0.599598	0.422607	0.540189
0.598955	0.412678	0.529569
0.597931	0.407794	0.524459
0.596544	0.402966	0.519427

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0.593254	0.393673	0.509848
0.595658	0.392734	0.509015
0.599494	0.393469	0.510451
0.598815	0.390634	0.508419
0.596790	0.386893	0.505031
0.593100	0.381656	0.500020
0.599312	0.387893	0.507175
0.598830	0.389806	0.510513
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0.597698	0.390531	0.514038
0.594375	0.385412	0.509803
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0.587067	0.373643	0.498452
0.583782	0.368368	0.493144
0.579598	0.362766	0.487457
0.574934	0.357201	0.481698
0.570425	0.352014	0.476276
0.565776	0.346841	0.470908
0.560950	0.341665	0.465534
0.556480	0.336956	0.460610
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0.546904	0.327291	0.450618
0.542693	0.323150	0.446312
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0.529112	0.310324	0.433254
0.524451	0.306104	0.428948
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0.515564	0.298211	0.420932
0.511134	0.294363	0.417037
0.506936	0.290775	0.413408
0.502858	0.287319	0.409946
0.498684	0.283815	0.406454
0.504395	0.289895	0.413084
0.509123	0.292972	0.418319
0.508751	0.290724	0.418426
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0.488169	0.263198	0.396178
0.483656	0.257214	0.390857
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0.477285	0.247934	0.383128
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0.420930	0.187458	0.328898
0.416351	0.183172	0.324961
0.412188	0.179303	0.321422
0.420781	0.188545	0.331461
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0.433397	0.200317	0.347722
0.436888	0.202084	0.352649
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0.448289	0.211328	0.367173
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0.450807	0.206302	0.371732
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0.439006	0.192422	0.357228
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0.444316	0.187107	0.358297
0.445504	0.185728	0.358984
0.447500	0.186013	0.360459
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0.466677	0.200156	0.379298
0.475599	0.205881	0.388160
0.477336	0.204753	0.389806
0.477327	0.203310	0.389367
0.482089	0.206575	0.393555
0.482494	0.204398	0.393053
0.478859	0.200015	0.388795
0.472902	0.193974	0.382089
0.466215	0.187367	0.374436
0.459606	0.180911	0.366747
0.453237	0.174792	0.359333
0.447787	0.169607	0.352904
0.455258	0.179303	0.361180

0.460222	0.183845	0.366755
0.458351	0.182071	0.365727
0.458500	0.181372	0.365590
0.453368	0.175024	0.360091
0.456379	0.176760	0.362200
0.457772	0.175034	0.362323
0.459142	0.174550	0.362742
0.456450	0.170884	0.359609
0.451246	0.165593	0.354072
0.444378	0.159254	0.346863
0.427558	0.144473	0.329148
0.415011	0.133906	0.316112
0.408058	0.128240	0.309039
0.415674	0.136181	0.316924
0.417840	0.137204	0.319832
0.414992	0.135280	0.318332
0.408898	0.130690	0.313414
0.402345	0.125521	0.307536
0.409235	0.135677	0.316483
0.411738	0.139070	0.320859
0.409153	0.137970	0.320071
0.403310	0.133393	0.315383
0.396361	0.127464	0.308928
0.399198	0.130161	0.311627
0.397965	0.127188	0.310214
0.399441	0.128066	0.311493
0.409389	0.137136	0.322137
0.421237	0.146262	0.334561
0.429508	0.150932	0.343077
0.435294	0.154012	0.349135
0.432662	0.149164	0.346551
0.426760	0.143202	0.340433
0.418761	0.135872	0.331876
0.410740	0.128649	0.322976
0.402816	0.121598	0.314127
0.395148	0.114938	0.305637
0.377867	0.100647	0.287186
0.351126	0.080363	0.260628
0.351135	0.081172	0.260582
0.347919	0.077983	0.257739
0.342550	0.074076	0.253304
0.347856	0.080133	0.259496
0.347489	0.078881	0.260091
0.343575	0.076441	0.257629
0.338040	0.072997	0.253360
0.331612	0.068639	0.247932
0.326255	0.065120	0.243250
0.332399	0.071676	0.250037

0.347514	0.087657	0.267792
0.355332	0.095756	0.278563
0.354512	0.096609	0.280630
0.354879	0.097491	0.282241
0.360835	0.102196	0.288793
0.367188	0.104919	0.294600
0.368000	0.104341	0.295589
0.363885	0.100468	0.291778
0.357584	0.095248	0.285478
0.341811	0.082548	0.268861
0.336671	0.078437	0.263283
0.329998	0.073214	0.256098
0.323782	0.068501	0.249529
0.317549	0.063893	0.243161
0.313257	0.061013	0.238732
0.308044	0.057261	0.233719
0.302432	0.053416	0.228479
0.296554	0.049547	0.223083
0.283013	0.040907	0.210905
0.256920	0.025332	0.188600
0.256551	0.025119	0.188297
0.251262	0.022153	0.184007
0.247085	0.020131	0.180806
0.242273	0.017481	0.177138
0.231665	0.012008	0.169198
0.223445	0.007861	0.163110
0.222470	0.008557	0.163069
0.220183	0.007701	0.162050
0.218026	0.007104	0.161205
0.214547	0.005517	0.159150
0.210691	0.003766	0.156629
0.210386	0.004102	0.156656
0.207356	0.004214	0.155641
0.205482	0.004348	0.155142
0.204292	0.005033	0.155312
0.204525	0.007113	0.157121
0.202924	0.007437	0.157342
0.201052	0.007771	0.157201
0.205761	0.013733	0.163402
0.210537	0.017801	0.169282
0.212384	0.020308	0.172854
0.211384	0.020931	0.173637
0.209274	0.020842	0.172993
0.206735	0.020316	0.171589
0.204249	0.019705	0.169985
0.201927	0.019149	0.168412
0.199723	0.018657	0.166907
0.197575	0.018205	0.165452

0.195454	0.017771	0.164025
0.193350	0.017348	0.162616
0.191269	0.016938	0.161226
0.201247	0.027564	0.172208
0.206623	0.032416	0.178802
0.207865	0.034715	0.181590
0.206223	0.034555	0.181212
0.206620	0.035918	0.182178
0.205800	0.035749	0.181828
0.208310	0.038534	0.184426
0.207472	0.038158	0.184055
0.206136	0.037779	0.183072
0.205902	0.038474	0.182981
0.205962	0.040098	0.183618
0.206263	0.041920	0.184650
0.211125	0.047999	0.190406
0.215615	0.052946	0.195810
0.224873	0.062904	0.206563
0.231123	0.069558	0.214289
0.234161	0.073638	0.218721
0.235224	0.075785	0.220743
0.236087	0.077527	0.222044
0.236350	0.078560	0.222456
0.236648	0.079621	0.222686
0.236906	0.080635	0.222779
0.237141	0.081615	0.222805
0.237365	0.082573	0.222796
0.237575	0.083507	0.222760
0.237767	0.084416	0.222700
0.238122	0.085459	0.222789
0.239050	0.086978	0.223423
0.245869	0.094033	0.230226
0.257894	0.105523	0.242716
0.271147	0.118114	0.256958
0.280157	0.126421	0.266925
0.287003	0.132530	0.274414
0.294343	0.138682	0.281873
0.298743	0.141822	0.285913
0.299936	0.142422	0.286505
0.305831	0.147645	0.291517
0.312451	0.152844	0.297076
0.326538	0.166138	0.311131
0.341099	0.179824	0.326080
0.349219	0.186652	0.334282
0.362303	0.199256	0.347908
0.370165	0.206804	0.356083
0.372987	0.209322	0.358559
0.373182	0.209042	0.357626

0.372882	0.208079	0.355544
0.372484	0.206976	0.353038
0.372238	0.206114	0.350589
0.372492	0.205838	0.348668
0.372599	0.205518	0.346762
0.376617	0.209102	0.349016
0.389515	0.221556	0.361164
0.398184	0.230080	0.369653
0.401819	0.233523	0.372943
0.401776	0.233107	0.372080
0.401164	0.231937	0.369992
0.407968	0.237947	0.375358
0.412383	0.241751	0.378639
0.413780	0.242682	0.378876
0.422744	0.251000	0.386985
0.438899	0.266442	0.403128
0.458783	0.285623	0.423897
0.479584	0.305576	0.446196
0.490956	0.314488	0.457220
0.505685	0.324674	0.469346
0.525450	0.338707	0.485418
0.536444	0.345151	0.493402
0.539016	0.344374	0.493402
0.546369	0.347517	0.496913
0.559286	0.355225	0.505107
0.568510	0.359915	0.510122
0.572262	0.360037	0.510247
0.571298	0.356360	0.506147
0.568575	0.351547	0.500328
0.566123	0.347173	0.494571
0.563240	0.342626	0.488530
0.560307	0.338383	0.482674
0.557222	0.334302	0.476972
0.554540	0.330775	0.471854
0.558063	0.332563	0.472475
0.570268	0.341723	0.481397
0.589496	0.356804	0.496771
0.599116	0.369384	0.510161
0.599321	0.373808	0.515740
0.596404	0.371998	0.514855
0.592890	0.367167	0.510322
0.589931	0.361974	0.504753
0.586929	0.356870	0.498867
0.583823	0.352181	0.493159
0.593307	0.358488	0.498796
0.599168	0.366912	0.507051
0.599502	0.379468	0.521016
0.599652	0.387107	0.530270

0.599119	0.387063	0.531364
0.598464	0.383057	0.527773
0.599582	0.379466	0.523998
0.599688	0.384643	0.529890
0.598759	0.387126	0.532707
0.599827	0.393845	0.540996
0.599996	0.398529	0.547741
0.599935	0.408174	0.560973
0.599801	0.417052	0.574142
0.600025	0.418105	0.577503
0.600399	0.416452	0.576048
0.600057	0.411895	0.570689
0.600182	0.408030	0.565517
0.600158	0.407344	0.564089
0.600128	0.406673	0.562978
0.600260	0.413980	0.572077
0.600000	0.417929	0.577678
0.599910	0.426309	0.591326
0.600578	0.430714	0.598845
0.600083	0.439318	0.612315
0.600357	0.441799	0.616459
0.600164	0.449266	0.627396
0.600244	0.461501	0.630944
0.600684	0.467676	0.629448
0.600427	0.472454	0.630896
0.600442	0.472934	0.630082
0.600458	0.476482	0.630697
0.600356	0.484214	0.630854
0.600349	0.491364	0.630967
0.600362	0.501960	0.631202
0.600410	0.515683	0.631515
0.600769	0.518476	0.628748
0.601063	0.513493	0.624390
0.601090	0.505459	0.619087
0.600804	0.505980	0.623577
0.600465	0.515186	0.630795
0.600977	0.518270	0.630916
0.600413	0.525839	0.631092
0.600435	0.538120	0.631392
0.600522	0.552045	0.631758
0.600894	0.551443	0.629116
0.600867	0.540692	0.624027
0.600603	0.525975	0.616424
0.601004	0.514395	0.609954
0.600980	0.510847	0.609646
0.600707	0.511039	0.613439
0.600455	0.506135	0.611481
0.600313	0.497373	0.604541

0.600210	0.487107	0.595221
0.600046	0.476921	0.585410
0.599882	0.467482	0.575994
0.600004	0.459804	0.568135
0.600090	0.453678	0.561857
0.599930	0.448055	0.556193
0.599244	0.441672	0.549795
0.599937	0.439551	0.547830
0.599844	0.436828	0.545490
0.598542	0.431594	0.540654
0.597094	0.425470	0.534661
0.595062	0.418772	0.527960
0.594044	0.413285	0.522315
0.594490	0.409343	0.518218
0.599446	0.409751	0.519253
0.599045	0.407748	0.517974
0.599513	0.406743	0.517544
0.599514	0.404546	0.516045
0.599533	0.402389	0.514562
0.599394	0.399585	0.512357
0.597084	0.394721	0.507970
0.593261	0.388862	0.502274
0.589788	0.383563	0.496922
0.586740	0.378729	0.492056
0.585949	0.375887	0.489201
0.588234	0.375609	0.489285
0.589056	0.374260	0.488470
0.586318	0.370288	0.485015
0.583642	0.366665	0.481632
0.581428	0.363309	0.478548
0.580271	0.360778	0.476312
0.588591	0.366229	0.482649
0.594195	0.369518	0.487397
0.595207	0.369090	0.488329
0.591502	0.364798	0.485043
0.586061	0.359270	0.479944
0.580387	0.353622	0.474372
0.576632	0.349550	0.470207
0.581008	0.352181	0.473240
0.582363	0.352302	0.474134
0.585907	0.354468	0.477012
0.589353	0.356253	0.479684
0.592135	0.357345	0.481926
0.590472	0.354797	0.480464
0.586761	0.350906	0.477123
0.582310	0.346474	0.472914
0.576904	0.341321	0.467798
0.571367	0.336240	0.462542

0.566027	0.331433	0.457475
0.560638	0.326640	0.452415
0.559639	0.325724	0.451296
0.560988	0.324964	0.451587
0.562027	0.322933	0.451350
0.563252	0.321381	0.451412
0.566365	0.321217	0.453136
0.569294	0.320530	0.454629
0.575521	0.323027	0.459284
0.580174	0.323882	0.462492
0.586362	0.326550	0.467153
0.589349	0.325967	0.468983
0.585941	0.320837	0.465669
0.579597	0.313752	0.459657
0.578460	0.311861	0.458445
0.574432	0.306129	0.454268
0.568930	0.299925	0.448748
0.562262	0.292910	0.442074
0.555255	0.285691	0.435010
0.554394	0.284362	0.433845
0.561358	0.289593	0.440838
0.564576	0.290354	0.443905
0.562903	0.287666	0.442646
0.559276	0.283467	0.439422
0.552989	0.276918	0.433578
0.546316	0.270262	0.427124
0.539543	0.263639	0.420463
0.532902	0.257239	0.413922
0.526426	0.251108	0.407612
0.532290	0.256981	0.414006
0.546559	0.271818	0.430493
0.565362	0.287483	0.449155
0.577733	0.296207	0.461351
0.577997	0.293434	0.462276
0.575306	0.289086	0.460038
0.582992	0.295684	0.467383
0.598737	0.310771	0.483555
0.599407	0.321966	0.497944
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0.597747	0.327553	0.508696
0.598730	0.326342	0.509844
0.597927	0.322296	0.507262
0.592915	0.313591	0.499648
0.586119	0.303532	0.489854
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0.525250	0.233475	0.412902
0.520146	0.228210	0.406842
0.515646	0.223400	0.401662
0.509496	0.217386	0.395328
0.502706	0.211253	0.388590
0.495436	0.204924	0.381535
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0.475492	0.188076	0.362652
0.468878	0.182702	0.356673
0.463690	0.178659	0.352073
0.459231	0.175140	0.348276
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0.448556	0.165028	0.339702
0.442630	0.159386	0.334578
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0.428163	0.147401	0.321710
0.420324	0.141134	0.314642
0.412641	0.135077	0.307722
0.405167	0.129285	0.301059
0.398040	0.123884	0.294808
0.391271	0.118863	0.288995
0.387841	0.116643	0.286292
0.382004	0.112154	0.281687
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0.355196	0.095731	0.263454
0.359037	0.098504	0.268332
0.370740	0.111947	0.283344
0.384297	0.125780	0.300236
0.388014	0.128986	0.306878
0.384662	0.126688	0.305938
0.381650	0.124326	0.303923
0.380476	0.122795	0.302793
0.375926	0.118191	0.298382
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0.386308	0.129786	0.313696
0.383040	0.126006	0.310823
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0.374599	0.111327	0.298077
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0.506321	0.237205	0.448199
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0.528168	0.252662	0.468032
0.525457	0.247451	0.463447
0.526462	0.245748	0.461308
0.525113	0.239863	0.455894
0.520234	0.232336	0.447342
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0.508350	0.218665	0.429026
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0.484573	0.195287	0.395961
0.478929	0.190283	0.388735
0.473086	0.185297	0.381616
0.467222	0.180501	0.374732
0.461592	0.176073	0.368293
0.457765	0.173243	0.363686
0.459482	0.175436	0.364877
0.460076	0.175322	0.365017
0.460795	0.176178	0.365601
0.457027	0.173340	0.362257
0.451957	0.169838	0.357547
0.447098	0.166602	0.352851
0.445355	0.165814	0.350880
0.441815	0.163229	0.347487
0.438797	0.161420	0.344638
0.434320	0.158487	0.340586
0.441849	0.169017	0.349851
0.448692	0.176952	0.358268
0.449408	0.178799	0.360713
0.448433	0.178651	0.360750
0.443883	0.174995	0.356899
0.438647	0.170926	0.351896
0.435768	0.168911	0.348746
0.431672	0.165685	0.344573
0.439804	0.176145	0.353940
0.448607	0.186566	0.364550
0.455529	0.194558	0.373442
0.467873	0.208364	0.388497
0.474919	0.216594	0.397934
0.476476	0.219234	0.401152
0.475320	0.218696	0.400635
0.472847	0.216615	0.398036

0.470761	0.214839	0.395290
0.468502	0.212956	0.392238
0.466085	0.211088	0.389046
0.464645	0.210179	0.386783
0.467557	0.213436	0.389124
0.479408	0.225913	0.401588
0.497200	0.244879	0.421303
0.518605	0.263334	0.441582
0.530915	0.273018	0.453352
0.539529	0.278894	0.461184
0.541416	0.278767	0.462268
0.552543	0.287575	0.471345
0.571671	0.302472	0.487103
0.582243	0.309764	0.495303
0.583895	0.309776	0.495827
0.591859	0.314972	0.501398
0.599099	0.321243	0.508090
0.598875	0.321836	0.509133
0.595165	0.318660	0.505735
0.592345	0.314998	0.501361
0.597900	0.317706	0.503251
0.598840	0.317955	0.503048
0.596597	0.315810	0.500148
0.592379	0.311546	0.494906
0.591547	0.310438	0.492244
0.591063	0.309460	0.489720
0.593002	0.310716	0.489462
0.592211	0.310069	0.487392
0.589025	0.307872	0.483627
0.586413	0.306201	0.480304
0.589300	0.308926	0.481811
0.596848	0.315498	0.487374
0.599180	0.328739	0.501015
0.599379	0.338769	0.511970
0.597561	0.340850	0.514632
0.598008	0.340522	0.514078
0.599418	0.340138	0.513238
0.598340	0.337539	0.509857
0.595687	0.333996	0.505069
0.592936	0.330628	0.500228
0.591459	0.328372	0.496467
0.598996	0.335949	0.503563
0.598851	0.340200	0.507628
0.595300	0.339797	0.506780
0.592232	0.337370	0.503538
0.588940	0.333459	0.498600
0.585794	0.329587	0.493404
0.582176	0.325663	0.488012

0.579196	0.322619	0.483446
0.579176	0.322142	0.481690
0.582244	0.324267	0.482904
0.584783	0.326032	0.483920
0.583287	0.324601	0.481856
0.579626	0.321690	0.478072
0.576105	0.318926	0.474275
0.573929	0.317095	0.471440
0.571807	0.315231	0.468680
0.569264	0.313203	0.465725
0.567144	0.311671	0.463229
0.564609	0.309817	0.460492
0.561732	0.307803	0.457577
0.558672	0.305739	0.454588
0.555534	0.303665	0.451595
0.552402	0.301636	0.448662
0.549301	0.299669	0.445817
0.546234	0.297765	0.443060
0.543195	0.295916	0.440386
0.540435	0.294309	0.437987
0.537803	0.292797	0.435738
0.541169	0.296291	0.438883
0.554793	0.308388	0.451613
0.563461	0.316313	0.460465
0.564944	0.318010	0.463024
0.563081	0.316683	0.462113
0.570847	0.323184	0.469149
0.578101	0.329131	0.475498
0.579787	0.330355	0.477201
0.580829	0.331011	0.478230
0.579487	0.329531	0.476954
0.578088	0.327999	0.475263
0.587698	0.335616	0.482880
0.593557	0.340383	0.488087
0.594251	0.340873	0.489028
0.590780	0.337647	0.485947
0.588818	0.335700	0.483780
0.587961	0.334439	0.482094
0.585255	0.331802	0.478981
0.581360	0.328564	0.475008
0.581561	0.328792	0.474585
0.580352	0.327713	0.473066
0.577159	0.325155	0.469965
0.573812	0.322561	0.466665
0.569381	0.319047	0.462436
0.565798	0.316335	0.458871
0.566669	0.317251	0.459217
0.567518	0.318037	0.459667

0.565253	0.316322	0.457693
0.561706	0.313802	0.454666
0.560079	0.312803	0.453112
0.557888	0.311152	0.451037
0.554429	0.308609	0.447981
0.555685	0.310113	0.449061
0.556657	0.311168	0.449943
0.556247	0.310980	0.449661
0.566196	0.319514	0.458766
0.571320	0.324144	0.464103
0.572070	0.325131	0.465511
0.573508	0.326344	0.467121
0.576464	0.328539	0.469663
0.577505	0.329058	0.470448
0.577689	0.328837	0.470374
0.587366	0.336536	0.478384
0.597726	0.345065	0.487676
0.598842	0.347917	0.491695
0.594856	0.345793	0.490401
0.591063	0.342625	0.487397
0.587568	0.338892	0.483439
0.584224	0.335208	0.479207
0.580492	0.331463	0.474723
0.576478	0.327790	0.470204
0.572676	0.324483	0.466019
0.569368	0.321651	0.462351
0.566129	0.318922	0.458853
0.562558	0.316041	0.455219
0.559954	0.314034	0.452447
0.562435	0.316205	0.454276
0.573822	0.325888	0.464464
0.582419	0.333172	0.472374
0.588046	0.337778	0.477795
0.591374	0.340257	0.481100
0.590611	0.339220	0.480702
0.587188	0.336064	0.477739
0.583320	0.332598	0.474043
0.582410	0.331514	0.472627
0.583521	0.332004	0.472945
0.589505	0.336597	0.477498
0.594981	0.340936	0.482056
0.598223	0.343344	0.485000
0.599024	0.346950	0.489511
0.599118	0.351477	0.495073
0.599183	0.353424	0.497753
0.599215	0.353715	0.498525
0.599207	0.352792	0.497788
0.599181	0.351466	0.496423

0.599209	0.353788	0.499003
0.599298	0.358747	0.504544
0.599012	0.360550	0.506778
0.599407	0.363515	0.510318
0.599499	0.367137	0.515054
0.597953	0.366498	0.515099
0.597562	0.364466	0.512947
0.597353	0.361437	0.509530
0.594753	0.356549	0.504041
0.590705	0.351228	0.497732
0.590759	0.349757	0.495239
0.588470	0.346424	0.491195
0.584509	0.342197	0.486070
0.581287	0.338751	0.481623
0.576507	0.333988	0.475994
0.571821	0.329618	0.470592
0.566591	0.324916	0.464862
0.561257	0.320275	0.459162
0.556531	0.316277	0.454123
0.551442	0.312002	0.448920
0.546541	0.308026	0.444010
0.545901	0.308092	0.443364
0.543137	0.306093	0.441061
0.543968	0.307165	0.441810
0.542067	0.305664	0.440287
0.548951	0.311723	0.446645
0.562785	0.323416	0.459539
0.568381	0.328163	0.465700
0.570668	0.330068	0.468606
0.567273	0.326772	0.466123
0.562036	0.322136	0.461552
0.555536	0.315017	0.454847
0.548919	0.307546	0.447518
0.543345	0.300805	0.440858
0.542755	0.298836	0.439060
0.539996	0.294038	0.435345
0.538143	0.290892	0.432670
0.539889	0.291495	0.433951
0.542107	0.291725	0.435612
0.540151	0.288187	0.433458
0.535309	0.282731	0.428603
0.529101	0.276280	0.422295
0.527795	0.274508	0.420517
0.527773	0.272657	0.419700
0.532588	0.276234	0.424413
0.547238	0.286910	0.437443
0.553335	0.290044	0.443240
0.560765	0.295707	0.450826

0.561973	0.294732	0.452228
0.561482	0.292755	0.451632
0.556589	0.286920	0.446760
0.550400	0.280312	0.440351
0.543686	0.273434	0.433242
0.536991	0.266694	0.426068
0.530947	0.260643	0.419511
0.527056	0.256518	0.414988
0.526903	0.255924	0.414374
0.525289	0.253034	0.412408
0.522819	0.250260	0.409941
0.517939	0.245601	0.405363
0.523831	0.251627	0.411833
0.530951	0.257171	0.419374
0.531646	0.255705	0.420493
0.533452	0.256373	0.422599
0.531005	0.251685	0.419959
0.526895	0.246580	0.415575
0.533407	0.254509	0.423204
0.545656	0.264226	0.434492
0.552717	0.267708	0.440701
0.552523	0.265568	0.440578
0.546830	0.258976	0.435104
0.538842	0.250719	0.426961
0.530340	0.242206	0.417912
0.522018	0.233990	0.408861
0.514008	0.226226	0.400152
0.506214	0.218860	0.391820
0.506214	0.218829	0.391226
0.502746	0.214136	0.387491
0.498731	0.210282	0.383582
0.497548	0.209127	0.382400
0.494363	0.205265	0.379270
0.496724	0.207413	0.381872
0.494476	0.204177	0.380038
0.489089	0.199547	0.375463
0.481848	0.193617	0.368975
0.474144	0.187296	0.361820
0.466624	0.181153	0.354718
0.459389	0.175321	0.347894
0.452360	0.169769	0.341362
0.458564	0.179217	0.349610
0.473050	0.194474	0.366597
0.478095	0.199343	0.374364
0.478098	0.199397	0.376329
0.473576	0.194631	0.372896
0.480071	0.203090	0.381318
0.483807	0.206336	0.386156

0.481930	0.204314	0.385179
0.475648	0.197928	0.379250
0.467757	0.190025	0.371094
0.459571	0.181954	0.362257
0.451633	0.174293	0.353541
0.443972	0.167114	0.345185
0.436846	0.160624	0.337510
0.434445	0.158197	0.334280
0.428717	0.152688	0.328507
0.422634	0.147507	0.322562
0.419179	0.144737	0.319054
0.412989	0.139433	0.313303
0.406484	0.134297	0.307302
0.399506	0.128969	0.300918
0.392438	0.123662	0.294489
0.390027	0.122247	0.292284
0.384600	0.117894	0.287686
0.378860	0.113796	0.282883
0.372441	0.109358	0.277505
0.373193	0.111146	0.278961
0.370335	0.107754	0.276827
0.365752	0.104565	0.273470
0.359713	0.100645	0.268759
0.362421	0.104513	0.272497
0.368966	0.109586	0.279775
0.376160	0.114581	0.287826
0.376056	0.113438	0.289117
0.371848	0.110694	0.286564
0.379455	0.120017	0.296026
0.395015	0.137536	0.314869
0.414425	0.160085	0.339267
0.434599	0.183868	0.365460
0.444230	0.194123	0.379255
0.444601	0.194130	0.381807
0.439297	0.187753	0.376676
0.432822	0.180049	0.368858
0.426123	0.172275	0.360139
0.419743	0.165114	0.351586
0.413576	0.158490	0.343398
0.408424	0.153022	0.336381
0.402862	0.147367	0.329294
0.397031	0.141768	0.322194
0.391014	0.136262	0.315119
0.387445	0.132967	0.310427
0.382130	0.128094	0.304466
0.376626	0.123449	0.298494
0.370748	0.118710	0.292328
0.364992	0.114197	0.286387

0.359144	0.109685	0.280491
0.366645	0.120420	0.289666
0.372868	0.127255	0.297370
0.376543	0.131264	0.302443
0.377894	0.132258	0.304691
0.378964	0.132513	0.306039
0.375302	0.128674	0.302727
0.379993	0.133061	0.307376
0.385097	0.135833	0.311966
0.383908	0.133848	0.311034
0.382320	0.132502	0.309507
0.377905	0.128710	0.305184
0.379942	0.130783	0.306861
0.378666	0.128147	0.305083
0.375341	0.125197	0.301666
0.370968	0.121792	0.297225
0.365580	0.117559	0.291760
0.361004	0.114088	0.286951
0.356731	0.110827	0.282475
0.360806	0.115135	0.286412
0.363890	0.116699	0.289262
0.374629	0.126839	0.300840
0.380859	0.131584	0.307888
0.379600	0.130776	0.307923
0.374879	0.127202	0.303996
0.368918	0.122424	0.298219
0.363458	0.117969	0.292471
0.371147	0.128352	0.301337
0.375059	0.132921	0.306423
0.373782	0.132805	0.306341
0.382410	0.144170	0.317153
0.385206	0.147415	0.321512
0.396528	0.160823	0.335152
0.409736	0.173146	0.349909
0.413484	0.174765	0.354478
0.410891	0.171349	0.352065
0.405234	0.165149	0.345668
0.398988	0.158391	0.337972
0.393060	0.152032	0.330278
0.387490	0.146193	0.322953
0.384696	0.143575	0.318651
0.381161	0.140375	0.314173
0.377905	0.137826	0.310277
0.376042	0.136641	0.307863
0.373223	0.134573	0.304799
0.370096	0.132431	0.301547
0.366482	0.130011	0.297918
0.363140	0.127910	0.294573

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0.382397	0.150440	0.316850
0.386274	0.154246	0.322274
0.385150	0.153846	0.322412
0.381413	0.150921	0.319258
0.378270	0.148341	0.315961
0.386730	0.158541	0.325348
0.393689	0.165695	0.333103
0.394342	0.166890	0.334736
0.391715	0.164783	0.332530
0.387683	0.161142	0.328309
0.383525	0.157314	0.323523
0.379842	0.153964	0.319011
0.376205	0.150764	0.314598
0.378546	0.153156	0.316164
0.378113	0.151951	0.315207
0.378930	0.152763	0.315592
0.380920	0.154647	0.317334
0.379964	0.153064	0.316127
0.385674	0.158777	0.321846
0.391786	0.163914	0.327952
0.398341	0.169158	0.334598
0.404287	0.174452	0.340996
0.406022	0.176310	0.343374
0.405355	0.176654	0.343246
0.403438	0.175887	0.341543
0.401333	0.174851	0.339335
0.399351	0.173857	0.337072
0.397709	0.173147	0.335079
0.398893	0.175014	0.335866
0.398642	0.175022	0.335337
0.397606	0.174842	0.334198
0.396531	0.174741	0.332993
0.405578	0.184480	0.342470
0.415121	0.194214	0.352785
0.419454	0.198639	0.357974
0.420141	0.199762	0.359250
0.418636	0.198700	0.357841
0.416495	0.196989	0.355321
0.417642	0.198319	0.355738
0.428352	0.209291	0.366660
0.437514	0.218608	0.376414
0.451191	0.232743	0.391595
0.458721	0.240394	0.400440
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0.487623	0.270143	0.432723
0.497797	0.278270	0.442504
0.500134	0.278612	0.443818

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0.506819	0.280753	0.446355
0.511671	0.282561	0.448464
0.523036	0.290411	0.456567
0.541473	0.304443	0.471480
0.560363	0.319179	0.487358
0.581218	0.335607	0.505031
0.591991	0.343428	0.513707
0.593545	0.343253	0.513992
0.590956	0.339510	0.509982
0.597112	0.343009	0.512922
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0.597990	0.343132	0.511214
0.595183	0.339852	0.506817
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0.595172	0.337642	0.501829
0.597085	0.338226	0.501144
0.596605	0.337008	0.498709
0.597230	0.336813	0.497360
0.596002	0.335153	0.494586
0.597360	0.335799	0.494052
0.598951	0.337982	0.495239
0.598402	0.338089	0.494506
0.596432	0.336439	0.491981
0.593772	0.333860	0.488416
0.590623	0.330833	0.484262
0.586711	0.327366	0.479527
0.582484	0.323899	0.474667
0.581510	0.323221	0.472701
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0.599376	0.361251	0.512501
0.597773	0.368869	0.521993
0.596439	0.368745	0.522929
0.598100	0.367023	0.521428
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0.599547	0.367332	0.522001
0.599516	0.367125	0.521664
0.599226	0.365074	0.519241
0.598533	0.361941	0.515420
0.598817	0.359586	0.512221
0.599292	0.358986	0.510965
0.598121	0.357040	0.508311
0.596528	0.354479	0.504819
0.594022	0.350985	0.500329
0.591681	0.347727	0.495974
0.589094	0.344423	0.491582
0.586416	0.341286	0.487347

0.583372	0.338071	0.483053
0.582626	0.336918	0.480912
0.584006	0.337532	0.480876
0.588048	0.340467	0.483339
0.592358	0.343660	0.486588
0.592828	0.343705	0.486767
0.590681	0.341665	0.484584
0.587348	0.338645	0.481142
0.583548	0.335270	0.477134
0.579762	0.332006	0.473093
0.577056	0.329679	0.469949
0.574822	0.327699	0.467270
0.575733	0.328407	0.467521
0.580600	0.332517	0.471599
0.585544	0.336711	0.475835
0.586449	0.337506	0.476801
0.597647	0.348876	0.489833
0.598707	0.352880	0.494959
0.597744	0.351735	0.494383
0.596779	0.349943	0.492721
0.598765	0.351576	0.494597
0.597462	0.351142	0.494308
0.595266	0.348989	0.492053
0.594963	0.347769	0.490457
0.595781	0.347403	0.489856
0.597966	0.348353	0.490817
0.597211	0.347076	0.489506
0.598076	0.347341	0.489503
0.597484	0.346298	0.488240
0.595476	0.344126	0.485763
0.592034	0.340898	0.482089
0.588048	0.337395	0.477953
0.584247	0.334136	0.473960
0.591789	0.340419	0.480014
0.597171	0.344900	0.484915
0.598924	0.346879	0.487440
0.597627	0.345929	0.486859
0.595609	0.343957	0.484895
0.592133	0.340604	0.481313
0.588268	0.337107	0.477278
0.584195	0.333589	0.473086
0.580111	0.330189	0.468958
0.576427	0.327211	0.465240
0.573634	0.324972	0.462312
0.572471	0.324026	0.460842
0.569988	0.322044	0.458461
0.566703	0.319642	0.455543
0.562866	0.316874	0.452205

0.558889	0.314026	0.448753
0.554387	0.310781	0.444885
0.549769	0.307530	0.440943
0.545120	0.304291	0.436999
0.540535	0.301128	0.433138
0.531635	0.295091	0.425759
0.530706	0.295360	0.425531
0.528351	0.294205	0.424153
0.527043	0.293769	0.423439
0.523871	0.291580	0.421107
0.524709	0.293032	0.422409
0.536039	0.303064	0.433203
0.542052	0.308722	0.439872
0.554971	0.320174	0.452862
0.560532	0.325139	0.459432
0.561999	0.326368	0.461780
0.559243	0.323629	0.459803
0.555596	0.320174	0.456471
0.552219	0.316963	0.452996
0.552042	0.316406	0.452120
0.553868	0.317476	0.453080
0.554302	0.317463	0.453024
0.557909	0.320222	0.455922
0.557890	0.320052	0.455917
0.555879	0.318405	0.454124
0.552834	0.315809	0.451223
0.555723	0.318095	0.453398
0.557911	0.319679	0.455007
0.554966	0.317091	0.452425
0.549504	0.312766	0.447632
0.542902	0.307541	0.441642
0.536445	0.302427	0.435574
0.530342	0.297606	0.429736
0.524334	0.292911	0.424018
0.530775	0.300373	0.431205
0.546140	0.313737	0.445519
0.557563	0.323427	0.456722
0.567154	0.331225	0.466369
0.567660	0.331351	0.468007
0.562908	0.327327	0.464551
0.555954	0.321381	0.458458
0.550304	0.316479	0.452935
0.544172	0.310999	0.446750
0.538459	0.306057	0.440879
0.532551	0.301067	0.434913
0.526607	0.296175	0.429008
0.521086	0.291758	0.423573
0.515360	0.287209	0.418068

0.509665	0.282794	0.412685
0.503982	0.278468	0.407405
0.501382	0.276907	0.404948
0.500874	0.277084	0.404750
0.499872	0.276754	0.404310
0.499065	0.276693	0.404103
0.495591	0.274201	0.401526
0.492120	0.271871	0.398796
0.498732	0.279350	0.406523
0.503580	0.284706	0.412579
0.505083	0.286233	0.414816
0.505290	0.284948	0.414861
0.508204	0.285812	0.417119
0.507385	0.282319	0.415543
0.504650	0.277988	0.412178
0.499468	0.271702	0.406468
0.493905	0.265275	0.400228
0.490336	0.260686	0.395684
0.486504	0.255792	0.391029
0.490519	0.258721	0.394493
0.490591	0.257150	0.394452
0.494539	0.260212	0.398517
0.493290	0.257448	0.397507
0.494009	0.257270	0.398168
0.491353	0.252915	0.395243
0.488821	0.249396	0.392281
0.484025	0.244003	0.387216
0.479160	0.238808	0.381983
0.474604	0.233970	0.377017
0.473981	0.232783	0.375821
0.471468	0.229010	0.372905
0.468949	0.226039	0.370204
0.465247	0.222209	0.366530
0.462779	0.219546	0.363933
0.458333	0.215102	0.359650
0.453916	0.210946	0.355374
0.448829	0.206291	0.350524
0.443633	0.201641	0.345591
0.439525	0.197990	0.341659
0.434981	0.193923	0.337449
0.442539	0.203417	0.346653
0.447106	0.208248	0.352895
0.445659	0.207315	0.353197
0.440934	0.202913	0.349607
0.434973	0.197074	0.344135
0.429011	0.191175	0.338222
0.436024	0.199857	0.346460
0.443567	0.207076	0.355093

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0.461845	0.226146	0.378451
0.460148	0.224402	0.378459
0.455006	0.218770	0.373849
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0.450662	0.211354	0.367511
0.446970	0.206342	0.362856
0.442801	0.201470	0.357835
0.440597	0.198502	0.354634
0.445254	0.202044	0.358684
0.450294	0.204569	0.362965
0.461923	0.216580	0.375999
0.471743	0.225718	0.387145
0.485361	0.239584	0.403122
0.503278	0.257494	0.423463
0.516211	0.266680	0.435838
0.531715	0.279305	0.450702
0.551998	0.295353	0.469312
0.562065	0.300962	0.478055
0.568793	0.303781	0.483156
0.567215	0.297830	0.479738
0.566895	0.294321	0.477028
0.572164	0.294722	0.478410
0.572318	0.290266	0.475227
0.566868	0.281785	0.467182
0.557974	0.270885	0.455939
0.547772	0.259032	0.443281
0.538690	0.248374	0.431536
0.529109	0.237529	0.419561
0.519614	0.227251	0.407979
0.510236	0.217491	0.396873
0.500738	0.207972	0.386031
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0.472660	0.181629	0.355817
0.468119	0.177327	0.350578
0.469424	0.178112	0.351580
0.472274	0.178283	0.353849
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0.412898	0.129756	0.300941
0.406552	0.125241	0.295523
0.399038	0.119692	0.289219
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0.399115	0.124688	0.297359
0.391037	0.118718	0.290852
0.383013	0.112710	0.283954
0.373915	0.104925	0.275480
0.364709	0.097234	0.266703
0.355415	0.089522	0.257779
0.347979	0.083450	0.250579
0.339660	0.076617	0.242804
0.331194	0.069990	0.235051
0.324512	0.065059	0.229034
0.322874	0.064115	0.227763
0.316501	0.058785	0.222640
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0.308401	0.053084	0.216886
0.301074	0.047977	0.211040
0.292996	0.042484	0.204382
0.285023	0.037106	0.197707
0.277325	0.031954	0.191259
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0.241128	0.009070	0.162075
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0.203283	-0.012162	0.134054
0.202372	-0.011284	0.134487
0.197668	-0.014115	0.131749
0.193890	-0.015632	0.129802
0.188522	-0.018407	0.126355
0.188242	-0.016902	0.127455
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0.200482	0.000999	0.146248
0.206510	0.009568	0.156738
0.207438	0.013901	0.161924
0.205168	0.014617	0.162956
0.214922	0.025685	0.175399
0.221110	0.031443	0.183708
0.222861	0.034258	0.187699
0.221367	0.034310	0.188038
0.219560	0.033916	0.187406
0.225036	0.039726	0.193666
0.239619	0.054888	0.210428
0.254869	0.069703	0.228092

0.262982	0.076591	0.238121
0.263341	0.076990	0.240050
0.273750	0.086876	0.251318
0.285946	0.096377	0.263625
0.290216	0.098027	0.267813
0.294060	0.100624	0.271174
0.295635	0.100714	0.271868
0.306577	0.112519	0.283445
0.311940	0.117359	0.289080
0.325019	0.132304	0.303680
0.342963	0.149144	0.322740
0.358123	0.161155	0.338198
0.362235	0.161614	0.341779
0.373414	0.172662	0.353269
0.380362	0.177467	0.359355
0.383138	0.177979	0.360465
0.382790	0.174997	0.357637
0.382344	0.171718	0.354018
0.379731	0.167034	0.348382
0.381036	0.166331	0.346432
0.379560	0.162740	0.342113
0.377269	0.159333	0.337292
0.373929	0.155398	0.331662
0.370207	0.151338	0.325780
0.366409	0.147368	0.319959
0.362862	0.143765	0.314538
0.359631	0.140567	0.309623
0.356520	0.137601	0.305052
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0.354143	0.135260	0.300099
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0.348734	0.135078	0.293318
0.358275	0.146177	0.303690
0.366099	0.154129	0.312395
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0.397300	0.188993	0.349409
0.404755	0.196898	0.359556
0.404492	0.196761	0.360648
0.409197	0.200369	0.365220
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0.429161	0.214298	0.383648

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0.450896	0.234243	0.405601
0.459109	0.241776	0.414199
0.460720	0.242801	0.415660
0.469273	0.250261	0.423577
0.484751	0.263823	0.438527
0.492858	0.270047	0.446100
0.494415	0.270203	0.446671
0.499455	0.273608	0.450176
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0.531017	0.291472	0.469001
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0.527979	0.283489	0.457260
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0.535134	0.285280	0.457951
0.536573	0.284908	0.456854
0.535473	0.282377	0.453638
0.545712	0.290648	0.461063
0.564641	0.306437	0.476911
0.573947	0.313676	0.484662
0.580128	0.318158	0.489505
0.580188	0.316467	0.488477
0.578407	0.313400	0.485341
0.574676	0.308769	0.480190
0.570306	0.303940	0.474366
0.565742	0.299234	0.468396
0.562153	0.295524	0.463345
0.561678	0.295067	0.461336
0.561514	0.294940	0.459876
0.559752	0.293788	0.457413
0.556419	0.291688	0.453872
0.552907	0.289609	0.450248
0.549050	0.287251	0.446375
0.544938	0.284750	0.442345
0.541643	0.282989	0.439064
0.538399	0.281199	0.435893
0.547669	0.289930	0.444071
0.556389	0.298123	0.452234
0.562060	0.303530	0.457938
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0.599816	0.371712	0.532462
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0.586989	0.407736	0.539958
0.583261	0.400159	0.530566
0.584891	0.397589	0.526359
0.585095	0.393815	0.521551
0.597122	0.400520	0.528044
0.599736	0.407846	0.536231
0.596259	0.407733	0.537213
0.591567	0.402633	0.532593
0.588367	0.396387	0.526188
0.584719	0.389058	0.518405
0.581160	0.382265	0.510838
0.577314	0.375842	0.503564
0.573033	0.369558	0.496445
0.568327	0.363284	0.489360
0.571532	0.364121	0.489671
0.573678	0.363722	0.489331
0.571713	0.360117	0.485854
0.567556	0.355055	0.480656
0.561688	0.346879	0.473206
0.555464	0.338109	0.465070
0.549019	0.328957	0.456559
0.542607	0.320004	0.448153
0.536227	0.311392	0.440003
0.530336	0.303532	0.432562
0.524177	0.295675	0.425171
0.517992	0.288068	0.418002
0.511763	0.280643	0.411010

0.505776	0.273620	0.404427
0.499919	0.266870	0.398153
0.494399	0.260576	0.392360
0.489030	0.254547	0.386877
0.483327	0.248367	0.381255
0.477546	0.242293	0.375682
0.471731	0.236319	0.370181
0.465969	0.230502	0.364818
0.460296	0.224867	0.359626
0.454717	0.219414	0.354606
0.449441	0.214318	0.349941
0.444104	0.209237	0.345310
0.439250	0.204672	0.341180
0.434151	0.199932	0.336908
0.430340	0.196402	0.333836
0.425668	0.192071	0.330092
0.420915	0.187831	0.326299
0.416018	0.183547	0.322389
0.411122	0.179308	0.318479
0.406310	0.175181	0.314651
0.401599	0.171181	0.310929
0.397168	0.167576	0.307532
0.392876	0.164137	0.304317
0.388698	0.160856	0.301250
0.384598	0.157688	0.298284
0.388319	0.161818	0.303121
0.399271	0.171577	0.315534
0.405697	0.176718	0.323788
0.417868	0.190538	0.339485
0.434892	0.209657	0.361036
0.454612	0.230796	0.385576
0.466918	0.242318	0.401308
0.480777	0.256027	0.418544
0.491362	0.264658	0.430850
0.505871	0.276207	0.446294
0.526213	0.291825	0.465606
0.536264	0.296389	0.473752
0.536602	0.292991	0.472433
0.531742	0.285222	0.465591
0.525517	0.276409	0.456774
0.520585	0.268911	0.448704
0.515371	0.261349	0.440382
0.510257	0.254288	0.432332
0.504982	0.247447	0.424414
0.499859	0.241040	0.416910
0.498716	0.238322	0.413296
0.507520	0.247200	0.421638
0.523950	0.264588	0.439476

0.538134	0.276082	0.452847
0.542909	0.277245	0.456647
0.540220	0.272370	0.453288
0.534978	0.265587	0.446942
0.528579	0.257620	0.438893
0.521939	0.249638	0.430337
0.515392	0.241966	0.421851
0.508915	0.234613	0.413594
0.502679	0.227731	0.405788
0.506581	0.230647	0.408387
0.509851	0.231245	0.410400
0.507396	0.227752	0.407644
0.502083	0.222300	0.402102
0.495372	0.215754	0.395013
0.489996	0.210372	0.388919
0.494219	0.214012	0.392575
0.507535	0.227469	0.407083
0.514565	0.234088	0.415707
0.522021	0.241318	0.424726
0.524152	0.241216	0.427334
0.524327	0.239645	0.427271
0.533762	0.248671	0.436668
0.537027	0.250341	0.439655
0.535039	0.247787	0.437535
0.532764	0.244442	0.434484
0.541199	0.250576	0.441723
0.560372	0.265634	0.458340
0.580886	0.281157	0.475797
0.586775	0.283488	0.480866
0.585666	0.280946	0.479947
0.584238	0.277563	0.477789
0.583405	0.273504	0.475040
0.593802	0.281570	0.482806
0.598487	0.283971	0.485992
0.599218	0.292559	0.496158
0.599460	0.306697	0.512859
0.599833	0.323999	0.534768
0.600183	0.335659	0.552629
0.596209	0.331369	0.553592
0.592048	0.321478	0.545337
0.585987	0.307962	0.531449
0.580185	0.295240	0.517166
0.573113	0.282654	0.502577
0.565513	0.270916	0.488564
0.558497	0.260601	0.475979
0.550814	0.250305	0.463552
0.548308	0.244868	0.456317
0.548303	0.241502	0.452151

0.543904	0.234377	0.444620
0.540277	0.229045	0.438170
0.532999	0.220909	0.428823
0.525579	0.213199	0.419497
0.530141	0.216987	0.422499
0.534270	0.218049	0.424986
0.535375	0.217413	0.425182
0.543955	0.227765	0.435151
0.544419	0.228549	0.436909
0.540071	0.225062	0.433291
0.537486	0.221887	0.430051
0.532053	0.215311	0.423678
0.537390	0.219348	0.428012
0.536419	0.216154	0.426328
0.530626	0.210499	0.420378
0.521784	0.202571	0.411329
0.512118	0.193974	0.401190
0.503931	0.187160	0.392457
0.496064	0.180707	0.384228
0.488569	0.174866	0.376622
0.473831	0.163974	0.362345
0.467014	0.159197	0.355994
0.459920	0.154241	0.349559
0.452872	0.149450	0.343279
0.446322	0.145151	0.337546
0.439543	0.140684	0.331726
0.437416	0.140077	0.330148
0.435863	0.139437	0.329375
0.441583	0.145716	0.336364
0.448346	0.151504	0.344328
0.449684	0.152244	0.347144
0.447615	0.151238	0.346689
0.447102	0.151634	0.347200
0.455775	0.162832	0.358399
0.467288	0.174991	0.372250
0.473248	0.180142	0.379946
0.484040	0.193193	0.394006
0.491361	0.200459	0.403308
0.490012	0.199413	0.403468
0.484618	0.194390	0.398459
0.477609	0.187730	0.390952
0.470466	0.180958	0.382802
0.463648	0.174623	0.374827
0.457100	0.168733	0.367207
0.450679	0.163169	0.359905
0.444303	0.157836	0.352854
0.437951	0.152691	0.346015
0.440138	0.155994	0.348049

0.440065	0.155959	0.348192
0.437522	0.154859	0.346457
0.433260	0.152571	0.343093
0.428363	0.149724	0.338959
0.423713	0.147042	0.334901
0.419101	0.144365	0.330847
0.414628	0.141861	0.326954
0.410217	0.139466	0.323183
0.406081	0.137346	0.319726
0.402067	0.135339	0.316449
0.397934	0.133260	0.313124
0.393799	0.131235	0.309836
0.390117	0.129611	0.306987
0.386618	0.128101	0.304355
0.384162	0.127453	0.302710
0.380725	0.125907	0.300268
0.377337	0.124545	0.297867
0.375354	0.124358	0.296729
0.372754	0.123469	0.295100
0.369995	0.122531	0.293330
0.376527	0.130374	0.301096
0.388153	0.141929	0.314330
0.398424	0.151808	0.326512
0.409397	0.162194	0.339582
0.415475	0.167595	0.347316
0.426912	0.180666	0.361469
0.431456	0.186102	0.368153
0.431704	0.187255	0.369585
0.432265	0.187731	0.370135
0.431557	0.186774	0.369033
0.430790	0.186228	0.367715
0.429864	0.185884	0.366244
0.428443	0.185273	0.364343
0.426870	0.184632	0.362300
0.425201	0.183941	0.360168
0.424346	0.183953	0.358779
0.433734	0.194717	0.368709
0.440675	0.202581	0.376490
0.442521	0.205465	0.379200
0.441475	0.205253	0.378510
0.439621	0.203972	0.376413
0.437823	0.202595	0.373964
0.437349	0.202359	0.372564
0.446946	0.212746	0.382314
0.453153	0.219542	0.389103
0.454722	0.221860	0.391212
0.453651	0.221246	0.390165
0.451768	0.219539	0.387736

0.449976	0.217803	0.385013
0.448197	0.216125	0.382188
0.446473	0.214616	0.379445
0.444727	0.213196	0.376775
0.443166	0.212019	0.374367
0.441441	0.210747	0.371908
0.439892	0.209698	0.369681
0.444997	0.215120	0.374435
0.447740	0.217947	0.377162
0.447865	0.218608	0.377397
0.446280	0.217619	0.375764
0.444365	0.216204	0.373524
0.442368	0.215305	0.371339
0.440771	0.214902	0.369579
0.439324	0.214768	0.368084
0.438191	0.214975	0.366974
0.436625	0.214802	0.365553
0.434932	0.214557	0.364033
0.439566	0.220410	0.369063
0.443500	0.225441	0.373625
0.449195	0.232075	0.380212
0.452778	0.236519	0.384639
0.454506	0.238928	0.386918
0.460289	0.245187	0.393260
0.463496	0.248983	0.397016
0.463889	0.249916	0.397613
0.462381	0.248936	0.395993
0.460513	0.247551	0.393685
0.470726	0.256580	0.402429
0.490418	0.273337	0.419956
0.514091	0.293387	0.441812
0.530412	0.306968	0.457479
0.537860	0.312483	0.464735
0.539356	0.312521	0.465741
0.537729	0.309796	0.463113
0.535713	0.306847	0.459522
0.532903	0.303418	0.455064
0.530554	0.300655	0.450995
0.530307	0.299714	0.448778
0.529815	0.298581	0.446528
0.536677	0.303809	0.451115
0.542807	0.308520	0.455459
0.553220	0.316776	0.463938
0.563598	0.324981	0.472669
0.568443	0.328433	0.476557
0.573772	0.332105	0.480642
0.587420	0.342659	0.491513
0.594774	0.348048	0.497315

0.599105	0.356607	0.506480
0.599360	0.364791	0.515424
0.599474	0.370044	0.521661
0.598919	0.369847	0.522258
0.598873	0.367205	0.519785
0.597955	0.363001	0.515265
0.596257	0.358547	0.510047
0.593977	0.354267	0.504732
0.591837	0.350611	0.499916
0.589207	0.346885	0.495031
0.586367	0.343307	0.490247
0.584086	0.340383	0.486117
0.581246	0.337123	0.481745
0.578952	0.334520	0.478011
0.577016	0.332275	0.474741
0.575015	0.330071	0.471605
0.575678	0.330223	0.471007
0.586992	0.339433	0.480143
0.593856	0.345041	0.485879
0.594420	0.345397	0.486502
0.598867	0.350716	0.492403
0.599014	0.353450	0.495885
0.597369	0.353044	0.495986
0.594683	0.350268	0.493336
0.594679	0.349111	0.491904
0.593006	0.346512	0.488949
0.592415	0.345106	0.487013
0.598875	0.352764	0.495016
0.598905	0.357289	0.500262
0.598442	0.358966	0.502437
0.597557	0.357639	0.501364
0.599224	0.361563	0.505963
0.598952	0.362639	0.507486
0.599433	0.371237	0.517287
0.599747	0.385583	0.535767
0.599908	0.393014	0.546303
0.599744	0.392581	0.547477
0.600143	0.398723	0.555468
0.599747	0.411331	0.573518
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0.600512	0.420164	0.589132
0.600046	0.428764	0.603182
0.600139	0.442258	0.624905
0.600306	0.457866	0.631306
0.600453	0.469161	0.631421
0.600864	0.470426	0.626789
0.600729	0.465248	0.619545
0.600563	0.457632	0.611045

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0.600210	0.442565	0.593130
0.600135	0.436210	0.584693
0.600006	0.430370	0.576699
0.600259	0.429593	0.574178
0.599861	0.427138	0.570326
0.600326	0.433667	0.577361
0.600456	0.437670	0.583014
0.599978	0.435323	0.581340
0.600415	0.433152	0.578489
0.600474	0.434880	0.580182
0.600248	0.437085	0.583291
0.600007	0.434626	0.581049
0.600041	0.429874	0.575415
0.599782	0.423467	0.567560
0.599646	0.417049	0.559396
0.599398	0.411068	0.551647
0.598988	0.405654	0.544557
0.598059	0.400446	0.537803
0.596319	0.395127	0.531033
0.594057	0.389855	0.524361
0.591432	0.384654	0.517827
0.588588	0.379591	0.511504
0.585988	0.375006	0.505739
0.583427	0.370670	0.500351
0.581048	0.366706	0.495440
0.578475	0.362778	0.490681
0.575577	0.358802	0.485948
0.572287	0.354711	0.481151
0.568992	0.350796	0.476564
0.569657	0.350243	0.475525
0.572531	0.351417	0.476652
0.572558	0.350315	0.475708
0.570271	0.347569	0.472969
0.566869	0.343998	0.469258
0.567613	0.343844	0.469021
0.565409	0.341175	0.466482
0.561399	0.337360	0.462521
0.557010	0.333375	0.458243
0.555922	0.332041	0.456680
0.552622	0.328660	0.453337
0.548563	0.324975	0.449435
0.544179	0.321131	0.445291
0.545593	0.322285	0.446381
0.555833	0.330446	0.455386
0.574367	0.345516	0.472319
0.585680	0.354405	0.483040
0.586054	0.353987	0.484414

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0.582658	0.349171	0.481701
0.592075	0.356021	0.489637
0.599099	0.361392	0.496435
0.598866	0.361376	0.497744
0.597874	0.360143	0.497223
0.594521	0.356092	0.493620
0.599109	0.361808	0.499990
0.599561	0.375374	0.515449
0.599550	0.383330	0.526137
0.599980	0.392682	0.539367
0.599701	0.395196	0.544578
0.600134	0.395831	0.546659
0.600306	0.403334	0.557010
0.599854	0.410292	0.567489
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0.599989	0.418863	0.585353
0.599914	0.412668	0.577896
0.598769	0.403326	0.567491
0.596562	0.393398	0.556362
0.593272	0.383267	0.545078
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0.596393	0.362664	0.521585
0.595067	0.356908	0.515557
0.590788	0.349288	0.507470
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0.585402	0.338594	0.495357
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0.588009	0.330583	0.488564
0.591383	0.330747	0.489173
0.591687	0.327676	0.487221
0.587668	0.321893	0.481872
0.581664	0.314890	0.474771
0.579159	0.311237	0.470816
0.574765	0.305238	0.465164
0.569694	0.299260	0.459070
0.564175	0.293164	0.452693
0.562530	0.290792	0.450065
0.565040	0.291689	0.451763
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0.552160	0.276149	0.438060
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0.583939	0.301485	0.468239
0.581939	0.297737	0.466698
0.574518	0.289498	0.459811
0.565533	0.279976	0.450802
0.556654	0.270607	0.441385
0.548292	0.261834	0.432270
0.540313	0.253618	0.423592
0.532521	0.245812	0.415289
0.527832	0.240840	0.409949
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0.514260	0.227584	0.396380
0.506833	0.220866	0.389235
0.499290	0.214191	0.382074
0.492115	0.207949	0.375336
0.497667	0.213846	0.381613
0.500193	0.215287	0.385116
0.498491	0.213816	0.384885
0.492670	0.208802	0.380531
0.485481	0.202629	0.374409
0.478337	0.196484	0.367958
0.471540	0.190647	0.361679
0.464826	0.184976	0.355504
0.458487	0.179770	0.349757
0.465568	0.187757	0.358015
0.480954	0.204565	0.376432
0.499864	0.226250	0.400332
0.519301	0.248970	0.425865
0.524970	0.255594	0.436260
0.535434	0.267858	0.450555
0.538306	0.268566	0.454272
0.536117	0.264196	0.451605
0.529713	0.255574	0.443955
0.535857	0.261936	0.449861
0.545824	0.268460	0.457869
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0.544179	0.260149	0.453014
0.551215	0.267177	0.459568
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0.555832	0.262260	0.458356
0.547570	0.252994	0.448792
0.546755	0.250815	0.446130
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0.502762	0.202953	0.393415
0.495516	0.196266	0.385672
0.488926	0.190439	0.378715
0.483141	0.185399	0.372689
0.476261	0.179517	0.365914
0.469162	0.173749	0.359081
0.461861	0.167982	0.352185
0.454576	0.162344	0.345408
0.454024	0.162635	0.345083
0.450891	0.158982	0.342318
0.445798	0.155039	0.338171
0.440571	0.151450	0.333909
0.433968	0.146668	0.328377
0.426302	0.140532	0.321523
0.420142	0.135712	0.315840
0.416036	0.132324	0.311988
0.411984	0.128791	0.308352
0.409075	0.126359	0.305896
0.408610	0.125932	0.305793
0.418043	0.136110	0.317030
0.423688	0.140763	0.324325
0.435358	0.155596	0.339983
0.437466	0.158878	0.345463
0.447804	0.171549	0.359263
0.449424	0.172652	0.363082
0.445010	0.168527	0.359988
0.437393	0.161192	0.352624
0.428990	0.152988	0.343690
0.421764	0.145869	0.335472
0.415436	0.139623	0.328109
0.417012	0.140468	0.328558
0.414788	0.135941	0.325391
0.410593	0.131741	0.320961
0.403798	0.125989	0.314245
0.396219	0.119833	0.306694
0.388549	0.113699	0.298993
0.373683	0.102127	0.284222
0.366516	0.096734	0.277261
0.359492	0.091593	0.270600
0.361085	0.093883	0.272340
0.358500	0.090293	0.270063
0.353823	0.086919	0.266355
0.354137	0.088265	0.267318
0.351809	0.086631	0.266045
0.354943	0.090667	0.270369
0.367165	0.102015	0.284198
0.372476	0.106990	0.291718

0.381414	0.116893	0.303206
0.394472	0.129048	0.318569
0.411869	0.147383	0.339700
0.419043	0.155329	0.350242
0.426133	0.163052	0.359656
0.425748	0.161349	0.360106
0.434993	0.172199	0.370942
0.441055	0.177728	0.377611
0.448338	0.184145	0.385100
0.457342	0.190081	0.393442
0.458605	0.188365	0.393798
0.466713	0.194850	0.401002
0.480467	0.205476	0.413839
0.486227	0.208192	0.418740
0.488339	0.208568	0.419670
0.489438	0.207725	0.419034
0.488837	0.204556	0.416102
0.485243	0.199499	0.410291
0.485853	0.198743	0.408370
0.483967	0.194684	0.404019
0.479350	0.189441	0.397486
0.473308	0.183603	0.389716
0.466611	0.177442	0.381386
0.459869	0.171391	0.373102
0.453268	0.165607	0.365112
0.447262	0.160478	0.357877
0.446619	0.160014	0.355885
0.451624	0.164653	0.360342
0.463096	0.175384	0.372239
0.467734	0.180082	0.378117
0.476745	0.190143	0.388858
0.491081	0.206064	0.405926
0.506101	0.221818	0.423644
0.523230	0.238520	0.443283
0.529978	0.244020	0.451432
0.532910	0.245429	0.453927
0.529618	0.240817	0.449617
0.528121	0.238161	0.446232
0.533804	0.242270	0.449976
0.536532	0.242622	0.450487
0.534713	0.240129	0.447140
0.529975	0.235560	0.441145
0.524218	0.230266	0.434075
0.518697	0.225265	0.427105
0.513251	0.220427	0.420245
0.507947	0.215890	0.413664
0.502915	0.211757	0.407531
0.497732	0.207638	0.401486

0.496434	0.207021	0.399212
0.498489	0.208954	0.400558
0.497974	0.208118	0.399672
0.494863	0.206020	0.396654
0.490475	0.203067	0.392374
0.485705	0.199770	0.387612
0.481304	0.196772	0.383122
0.482634	0.199066	0.384351
0.488756	0.204965	0.390622
0.493264	0.209625	0.395783
0.495287	0.212574	0.398819
0.495677	0.213902	0.400022
0.504443	0.224595	0.410516
0.522125	0.242585	0.429008
0.532699	0.252602	0.440018
0.535256	0.255401	0.443474
0.533022	0.253771	0.441985
0.529134	0.250542	0.438203
0.525652	0.247665	0.434232
0.522826	0.245358	0.430628
0.519955	0.243084	0.426996
0.517315	0.241156	0.423653
0.515777	0.240231	0.421391
0.516576	0.241222	0.421325
0.515494	0.240225	0.419655
0.513297	0.238888	0.417193
0.510065	0.236819	0.413842
0.506565	0.234569	0.410213
0.515181	0.243855	0.418515
0.520765	0.249440	0.423937
0.521275	0.250715	0.424924
0.522687	0.252635	0.426568
0.522629	0.252322	0.426279
0.529273	0.257908	0.431878
0.543421	0.269415	0.444243
0.550751	0.275234	0.451041
0.559897	0.282938	0.459568
0.566055	0.287517	0.465089
0.577248	0.295987	0.474455
0.582907	0.299774	0.479014
0.595428	0.310269	0.489689
0.599251	0.323384	0.503181
0.599460	0.332942	0.514075
0.598519	0.335591	0.517654
0.598776	0.334874	0.516993
0.599526	0.334057	0.515610
0.599143	0.332013	0.512586
0.599535	0.339720	0.520005

0.599814	0.354652	0.536462
0.599629	0.372660	0.558916
0.599606	0.380905	0.571062
0.600073	0.380443	0.572050
0.600353	0.377423	0.568366
0.599869	0.372479	0.561721
0.600106	0.371260	0.558490
0.600111	0.372672	0.558104
0.600132	0.375087	0.559684
0.599835	0.374418	0.558160
0.599677	0.371348	0.553721
0.599637	0.367406	0.547954
0.599848	0.366001	0.544751
0.599865	0.367899	0.545209
0.600042	0.378066	0.556910
0.600034	0.390985	0.573081
0.599806	0.396795	0.581846
0.600258	0.395917	0.581630
0.600292	0.401640	0.588551
0.600061	0.414172	0.607339
0.600161	0.425090	0.623776
0.600292	0.437639	0.631060
0.600790	0.442036	0.629060
0.600752	0.443478	0.627062
0.600412	0.445190	0.628914
0.600409	0.446818	0.630571
0.600427	0.448544	0.630563
0.601000	0.447309	0.626595
0.600983	0.443993	0.620274
0.600654	0.443719	0.618443
0.600615	0.442885	0.615904
0.600865	0.440887	0.611837
0.600807	0.437905	0.606442
0.600472	0.435855	0.602340
0.600165	0.442563	0.611189
0.600384	0.446206	0.616036
0.600619	0.444676	0.613404
0.600777	0.442105	0.608673
0.600493	0.437813	0.601678
0.600587	0.434009	0.595095
0.600476	0.430141	0.588679
0.600327	0.426216	0.582357
0.600119	0.421947	0.575816
0.600015	0.417637	0.569306
0.600036	0.413767	0.563345
0.599843	0.409716	0.557371
0.599747	0.405773	0.551588
0.599663	0.401894	0.545979

0.599758	0.398722	0.541206
0.599591	0.395430	0.536511
0.599460	0.392057	0.531811
0.599404	0.388053	0.526248
0.599165	0.385575	0.522901
0.599202	0.382809	0.519040
0.598946	0.379989	0.515272
0.597786	0.376704	0.511070
0.599301	0.376303	0.510043
0.599380	0.376452	0.509873
0.598270	0.374996	0.508144
0.596943	0.372526	0.505259
0.595137	0.369233	0.501452
0.593828	0.366331	0.497941
0.591950	0.363072	0.494130
0.590913	0.360736	0.491217
0.595801	0.363417	0.494081
0.598281	0.364322	0.495286
0.599181	0.364054	0.495158
0.599227	0.365442	0.497048
0.599273	0.367357	0.499550
0.599474	0.376929	0.510640
0.599823	0.392366	0.531075
0.600124	0.402036	0.544505
0.600050	0.403486	0.548050
0.600113	0.408501	0.555430
0.599965	0.419983	0.572468
0.600110	0.434566	0.596991
0.600269	0.444166	0.613370
0.600409	0.455361	0.630905
0.600889	0.458976	0.630945
0.600863	0.459651	0.627453
0.600534	0.459554	0.625782
0.600867	0.456518	0.621448
0.600701	0.451438	0.614421
0.600545	0.445558	0.606051
0.600400	0.439634	0.597435
0.600728	0.444397	0.602286
0.600124	0.446236	0.604203
0.600201	0.448954	0.607332
0.600286	0.455243	0.617398
0.600357	0.460952	0.626462
0.600932	0.461515	0.627296
0.600758	0.461454	0.626345
0.600426	0.469590	0.630607
0.600946	0.473245	0.630698
0.601097	0.472161	0.627462
0.600812	0.470500	0.625053

0.600732	0.466275	0.619661
0.600633	0.460703	0.612125
0.600504	0.454578	0.603653
0.600324	0.448347	0.595042
0.600377	0.443022	0.587435
0.600194	0.437822	0.580214
0.600318	0.433727	0.574245
0.599891	0.428704	0.567605
0.599767	0.423600	0.560878
0.599757	0.418713	0.554435
0.599946	0.414969	0.549273
0.599624	0.410762	0.543893
0.599147	0.406337	0.538309
0.598807	0.402111	0.532950
0.597904	0.397637	0.527442
0.596656	0.393244	0.522048
0.593919	0.387988	0.515873
0.589736	0.381988	0.508928
0.599180	0.387978	0.514971
0.599447	0.391943	0.519540
0.595095	0.390258	0.518490
0.589907	0.385071	0.513502
0.587375	0.380422	0.508602
0.589467	0.378960	0.506974
0.599331	0.386259	0.515268
0.599244	0.389677	0.519869
0.594765	0.387381	0.518469
0.589501	0.381680	0.513138
0.584516	0.374804	0.506142
0.579803	0.367955	0.498828
0.575147	0.361509	0.491738
0.570415	0.355451	0.484981
0.566017	0.350065	0.478903
0.561485	0.344795	0.473026
0.556935	0.339718	0.467372
0.552553	0.334955	0.462067
0.547799	0.329985	0.456616
0.542947	0.325091	0.451232
0.543691	0.325593	0.451451
0.552317	0.332027	0.458566
0.560166	0.337579	0.465222
0.562937	0.338789	0.467665
0.562310	0.337218	0.467016
0.562723	0.336453	0.466870
0.559657	0.332716	0.463685
0.555185	0.328276	0.459265
0.549862	0.323276	0.454037
0.544190	0.316556	0.447796

0.538791	0.309804	0.441506
0.533786	0.303195	0.435437
0.528524	0.296425	0.429207
0.523203	0.289849	0.423065
0.518036	0.283630	0.417222
0.515180	0.279590	0.413592
0.511165	0.274477	0.409183
0.506558	0.269126	0.404389
0.507640	0.269411	0.405261
0.508619	0.268413	0.405956
0.505932	0.264738	0.403612
0.502021	0.260365	0.400039
0.497117	0.255155	0.395414
0.494311	0.251790	0.392518
0.499849	0.256457	0.398335
0.502608	0.257590	0.401598
0.501002	0.255429	0.400891
0.496613	0.250841	0.397242
0.491702	0.245708	0.392661
0.486491	0.240251	0.387539
0.481479	0.235056	0.382498
0.476808	0.230268	0.377794
0.472070	0.225521	0.373127
0.467575	0.221111	0.368770
0.462940	0.216662	0.364383
0.467399	0.220975	0.369243
0.468820	0.221310	0.371323
0.466841	0.219330	0.370351
0.462680	0.215488	0.367066
0.456705	0.209354	0.361491
0.450421	0.202934	0.355246
0.444137	0.196490	0.348812
0.438773	0.190922	0.343196
0.433531	0.185538	0.337828
0.427941	0.180037	0.332307
0.422220	0.174640	0.326789
0.421843	0.174034	0.326297
0.418280	0.169681	0.323024
0.413801	0.165472	0.319108
0.408329	0.160726	0.314312
0.402548	0.155795	0.309184
0.406777	0.160145	0.313981
0.420243	0.174143	0.329683
0.432298	0.185811	0.344252
0.436461	0.188548	0.350484
0.442248	0.193359	0.357876
0.443906	0.192550	0.360068
0.443026	0.190358	0.359367

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0.433820	0.180205	0.349717
0.428206	0.174461	0.343578
0.422577	0.168880	0.337363
0.417228	0.163681	0.331441
0.424932	0.173428	0.340181
0.431165	0.179368	0.347309
0.431194	0.179414	0.348474
0.427150	0.175418	0.345079
0.421678	0.169940	0.339611
0.415740	0.164011	0.333264
0.410020	0.158399	0.326953
0.404252	0.152754	0.320572
0.398530	0.147336	0.314339
0.392815	0.142075	0.308247
0.387131	0.136986	0.302322
0.382864	0.133216	0.297805
0.378893	0.129661	0.293752
0.387026	0.137539	0.302238
0.397261	0.145537	0.312939
0.399244	0.145595	0.315897
0.409364	0.157946	0.328822
0.413980	0.162928	0.335635
0.411997	0.161658	0.335362
0.407081	0.157124	0.331095
0.400987	0.151137	0.324851
0.406089	0.155438	0.329365
0.407133	0.154256	0.329856
0.405112	0.151813	0.327720
0.400167	0.147138	0.322713
0.394300	0.141748	0.316555
0.389924	0.137645	0.311544
0.384674	0.132726	0.305797
0.379451	0.128101	0.300155
0.374060	0.123526	0.294486
0.368617	0.119046	0.288892
0.363385	0.114856	0.283602
0.358440	0.110989	0.278695
0.353481	0.107186	0.273908
0.348746	0.103677	0.269439
0.343756	0.100029	0.264856
0.338753	0.096483	0.260344
0.332957	0.091848	0.254941
0.331376	0.090794	0.253283
0.327184	0.087049	0.249467
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0.319745	0.081177	0.242833
0.322266	0.083720	0.245592

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0.320571	0.080249	0.244693
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0.316174	0.077147	0.241692
0.323414	0.084490	0.249651
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0.322404	0.082859	0.250563
0.331125	0.094245	0.261657
0.333443	0.096966	0.265955
0.345073	0.112028	0.281043
0.362183	0.132141	0.302649
0.368801	0.139282	0.312684
0.373894	0.143874	0.319387
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0.372693	0.137677	0.317111
0.367856	0.131415	0.310955
0.367496	0.129441	0.308501
0.374453	0.134075	0.313879
0.375878	0.132122	0.313878
0.381389	0.135768	0.318238
0.384289	0.135021	0.319525
0.382456	0.131580	0.316706
0.387990	0.135675	0.321125
0.391408	0.135720	0.322959
0.388924	0.132123	0.319694
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0.394399	0.134108	0.323270
0.390177	0.129700	0.318389
0.383747	0.123798	0.311167
0.376506	0.117230	0.302931
0.376105	0.116488	0.300936
0.372519	0.111819	0.296166
0.367704	0.107279	0.290607
0.361454	0.102075	0.283883
0.355083	0.096967	0.277074
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0.349977	0.092845	0.270694
0.345331	0.088776	0.266076
0.339875	0.084684	0.260795
0.333963	0.080462	0.255113
0.327521	0.075816	0.248955
0.321169	0.071330	0.242895
0.314930	0.067011	0.237011
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0.303017	0.059065	0.226074
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0.294032	0.053498	0.218360
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0.271528	0.041905	0.201250
0.268024	0.039370	0.198946
0.263961	0.037130	0.196137
0.259038	0.034436	0.192461
0.256364	0.034564	0.191212
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0.271091	0.055399	0.212383
0.273093	0.060060	0.217592
0.271375	0.060650	0.218516
0.269024	0.060234	0.217990
0.266292	0.059264	0.216564
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0.255334	0.056720	0.209910
0.253171	0.056235	0.208549
0.257400	0.061394	0.213476
0.264524	0.067645	0.221220
0.267014	0.069506	0.224665
0.266542	0.070174	0.225399
0.264320	0.069579	0.224154
0.261886	0.068696	0.222328
0.259850	0.068015	0.220640
0.257718	0.067170	0.218794
0.255648	0.066418	0.216996
0.253545	0.065669	0.215188
0.251428	0.064925	0.213384
0.249320	0.064202	0.211607
0.247622	0.063838	0.210225
0.245658	0.063211	0.208643
0.243692	0.062627	0.207078
0.241882	0.062196	0.205672
0.239925	0.061622	0.204155
0.239373	0.063010	0.204314
0.239188	0.064635	0.205039
0.240016	0.067205	0.206876
0.242188	0.070869	0.210077
0.249023	0.078823	0.218320
0.262289	0.092562	0.233510
0.281241	0.112050	0.255358
0.291821	0.123393	0.268954
0.306159	0.139382	0.286659
0.313683	0.147616	0.296632

0.316902	0.151102	0.301026
0.317471	0.151336	0.301599
0.318891	0.151938	0.302035
0.319297	0.151463	0.301164
0.320103	0.151544	0.300476
0.320428	0.151313	0.299341
0.320592	0.151064	0.298064
0.320433	0.150614	0.296515
0.320340	0.150303	0.295051
0.329685	0.159225	0.303565
0.346879	0.176299	0.321320
0.358658	0.187775	0.333960
0.364501	0.193132	0.340304
0.367706	0.195180	0.343095
0.368208	0.194059	0.342365
0.369330	0.193830	0.341658
0.369160	0.192479	0.339587
0.369041	0.191392	0.337486
0.368977	0.190479	0.335485
0.371527	0.192115	0.336170
0.375027	0.194208	0.337880
0.387138	0.205566	0.349402
0.400618	0.219105	0.363356
0.417712	0.236477	0.381875
0.429879	0.248832	0.395474
0.434641	0.253388	0.400937
0.443370	0.261345	0.409672
0.452757	0.269654	0.418611
0.457286	0.273015	0.422250
0.458895	0.273324	0.422296
0.459087	0.272067	0.420367
0.461060	0.272482	0.419880
0.472298	0.282175	0.429310
0.491914	0.298826	0.446567
0.516595	0.318147	0.467424
0.541226	0.337189	0.488710
0.553828	0.345627	0.499089
0.556053	0.344970	0.499537
0.554709	0.341170	0.495716
0.553264	0.337156	0.490916
0.553085	0.334251	0.486816
0.564311	0.341211	0.493157
0.580431	0.352570	0.504400
0.598291	0.365491	0.517421
0.599571	0.375938	0.528483
0.596281	0.379028	0.532296
0.596626	0.379086	0.532735
0.599718	0.386202	0.539967

0.600070	0.399675	0.554349
0.599800	0.415947	0.573071
0.599997	0.424720	0.586600
0.600738	0.428336	0.593281
0.600283	0.436404	0.605531
0.600327	0.447376	0.624156
0.600445	0.457800	0.631164
0.600551	0.469824	0.631406
0.600496	0.479281	0.631434
0.600636	0.484022	0.631343
0.600682	0.484283	0.631101
0.601018	0.480800	0.628234
0.600970	0.475578	0.623059
0.600897	0.472046	0.619456
0.600535	0.471152	0.618820
0.600484	0.471904	0.620647
0.600812	0.470718	0.619285
0.600839	0.466464	0.613563
0.600725	0.466802	0.613829
0.600399	0.476570	0.627342
0.600438	0.483765	0.630803
0.600488	0.485609	0.629130
0.600922	0.481556	0.623096
0.600490	0.480323	0.621924
0.600401	0.477466	0.619206
0.600422	0.477219	0.619900
0.600417	0.476677	0.619882
0.601029	0.473699	0.616489
0.600881	0.468655	0.610235
0.600634	0.462532	0.602419
0.600616	0.456755	0.594779
0.600488	0.460916	0.600568
0.600252	0.472263	0.616329
0.600679	0.473778	0.619181
0.600379	0.472750	0.618306
0.600547	0.472548	0.618515
0.600986	0.469490	0.614848
0.600902	0.464640	0.608590
0.600695	0.460952	0.603724
0.600530	0.459932	0.602434
0.600665	0.458096	0.599959
0.600625	0.454633	0.595243
0.600445	0.452975	0.592998
0.600451	0.452668	0.592626
0.600461	0.452102	0.591932
0.600707	0.449740	0.588852
0.600444	0.449947	0.589255
0.600150	0.458674	0.602394

0.600215	0.466246	0.613388
0.600332	0.477852	0.630111
0.600759	0.482321	0.630966
0.600840	0.479042	0.623368
0.600753	0.472400	0.613872
0.600621	0.465085	0.604831
0.600754	0.460581	0.599438
0.600553	0.466440	0.607637
0.600109	0.469876	0.612879
0.600323	0.471546	0.615856
0.600725	0.468635	0.612835
0.600661	0.463266	0.606195
0.600589	0.462636	0.605699
0.600301	0.472000	0.618676
0.600360	0.478714	0.628483
0.600783	0.477787	0.628402
0.600905	0.472964	0.622639
0.600908	0.467889	0.616190
0.600622	0.467937	0.616063
0.600299	0.469419	0.617378
0.600327	0.471086	0.619851
0.600691	0.470335	0.619309
0.600724	0.466173	0.614156
0.600859	0.461893	0.608371
0.600785	0.457785	0.602730
0.600609	0.453412	0.596720
0.600628	0.450122	0.592002
0.600590	0.447706	0.588525
0.600452	0.444553	0.584269
0.600385	0.440790	0.579273
0.600125	0.436071	0.573259
0.600301	0.432433	0.568252
0.600423	0.438337	0.575636
0.599978	0.441391	0.580167
0.600043	0.450111	0.593347
0.600187	0.453458	0.599595
0.600705	0.452214	0.598687
0.600224	0.457962	0.607485
0.600268	0.469560	0.623905
0.600367	0.478097	0.630955
0.600457	0.483251	0.631018
0.600423	0.490012	0.631036
0.600451	0.493738	0.631029
0.600470	0.502652	0.631218
0.600486	0.516729	0.631572
0.600519	0.518706	0.627745
0.600540	0.511248	0.621102
0.600300	0.499063	0.612011

0.600165	0.486515	0.601923
0.600323	0.476274	0.592763
0.599497	0.466106	0.582833
0.598445	0.456627	0.572964
0.596817	0.447450	0.563166
0.594642	0.438589	0.553609
0.592017	0.430084	0.544388
0.591292	0.423802	0.537323
0.593058	0.419935	0.532892
0.591973	0.414021	0.526798
0.593220	0.410791	0.523142
0.591348	0.405053	0.517395
0.588043	0.398742	0.510896
0.583774	0.392027	0.503919
0.579395	0.385506	0.497101
0.583031	0.385903	0.497458
0.587189	0.386573	0.498577
0.586426	0.383234	0.495989
0.583905	0.378925	0.492090
0.580065	0.373614	0.487081
0.577528	0.369469	0.483070
0.582075	0.371232	0.485348
0.582922	0.369937	0.484935
0.581112	0.366876	0.482502
0.578605	0.363246	0.479367
0.588546	0.370030	0.487097
0.599259	0.384426	0.504384
0.599496	0.392069	0.514834
0.599748	0.393331	0.519320
0.599818	0.391192	0.520550
0.599041	0.384955	0.517582
0.595934	0.376335	0.511105
0.591114	0.366587	0.502699
0.585365	0.356633	0.493601
0.582305	0.349629	0.487192
0.577242	0.341056	0.479466
0.571999	0.332909	0.471880
0.566026	0.324476	0.463921
0.559787	0.316116	0.455951
0.553485	0.307974	0.448149
0.547209	0.300112	0.440605
0.540976	0.292536	0.433341
0.534783	0.285227	0.426349
0.529076	0.278554	0.420010
0.523342	0.272009	0.413868
0.517452	0.265520	0.407781
0.511507	0.259171	0.401806
0.505551	0.252965	0.395960

0.499645	0.246937	0.390282
0.493814	0.241100	0.384789
0.488065	0.235450	0.379479
0.482394	0.229978	0.374341
0.480685	0.227989	0.372815
0.478181	0.225007	0.370836
0.474138	0.220926	0.367619
0.469256	0.216423	0.363657
0.471021	0.218243	0.366194
0.474142	0.219781	0.369814
0.485263	0.231494	0.383276
0.501714	0.247418	0.402507
0.509416	0.253473	0.412688
0.507670	0.250924	0.413026
0.501731	0.244256	0.407994
0.494645	0.236333	0.400796
0.492632	0.232784	0.397605
0.493471	0.231380	0.397166
0.490778	0.226538	0.393666
0.486475	0.221456	0.388920
0.480832	0.215562	0.382961
0.474852	0.209493	0.376627
0.468710	0.203385	0.370136
0.462918	0.197718	0.364017
0.457012	0.192077	0.357926
0.458380	0.193217	0.359004
0.457956	0.191087	0.358349
0.454472	0.187499	0.355312
0.449239	0.182899	0.350637
0.443233	0.177733	0.345105
0.437719	0.173001	0.339897
0.432054	0.168130	0.334562
0.426519	0.163491	0.329404
0.421012	0.158985	0.324362
0.415549	0.154608	0.319449
0.415534	0.155008	0.319686
0.412793	0.151896	0.317472
0.408867	0.148753	0.314401
0.415609	0.155975	0.322232
0.419338	0.158691	0.327049
0.418288	0.158058	0.327531
0.420561	0.160094	0.330646
0.417723	0.155598	0.328186
0.412850	0.150809	0.323711
0.406644	0.145296	0.317756
0.411261	0.149790	0.322411
0.423362	0.159309	0.334692
0.432719	0.165487	0.344388

0.434334	0.165827	0.347045
0.436757	0.167379	0.349985
0.442198	0.170443	0.355305
0.441719	0.167466	0.354583
0.437426	0.163058	0.350286
0.435544	0.160977	0.347734
0.430172	0.155515	0.341953
0.424369	0.150140	0.335641
0.417996	0.144540	0.328797
0.411444	0.138928	0.321827
0.406000	0.134349	0.315934
0.403922	0.132522	0.313230
0.399071	0.128174	0.308375
0.393703	0.123929	0.303164
0.387628	0.119335	0.297381
0.381350	0.114659	0.291438
0.375159	0.110120	0.285618
0.369118	0.105775	0.280013
0.363207	0.101618	0.274631
0.357397	0.097626	0.269451
0.353165	0.095000	0.265794
0.348288	0.091727	0.261725
0.343127	0.088382	0.257487
0.336366	0.082976	0.251419
0.329546	0.077660	0.245098
0.322223	0.071842	0.238200
0.314942	0.066133	0.231317
0.307760	0.060629	0.224596
0.301312	0.055849	0.218651
0.294556	0.050858	0.212584
0.287875	0.046094	0.206701
0.281213	0.041460	0.200936
0.274629	0.036972	0.195326
0.282750	0.045557	0.204489
0.300008	0.061258	0.223859
0.306770	0.066686	0.233447
0.307976	0.068793	0.237424
0.306388	0.067824	0.237663
0.301129	0.063151	0.233581
0.298407	0.060788	0.231092
0.292837	0.055863	0.225840
0.281250	0.046653	0.214566
0.275535	0.042370	0.208962
0.282049	0.048783	0.215577
0.283013	0.047748	0.216782
0.280152	0.045606	0.214863
0.274446	0.041623	0.210091
0.270585	0.039118	0.206610

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0.283561	0.050959	0.221412
0.281917	0.050147	0.221136
0.291505	0.059675	0.231897
0.294909	0.060815	0.235964
0.294926	0.061755	0.237325
0.293970	0.062044	0.237459
0.292201	0.061456	0.236582
0.296419	0.066070	0.241421
0.296890	0.065785	0.242335
0.302857	0.071813	0.248921
0.304212	0.072361	0.250793
0.302411	0.071557	0.249755
0.311874	0.083670	0.261108
0.329519	0.101342	0.280810
0.338096	0.109123	0.291328
0.343699	0.114513	0.298224
0.354887	0.126799	0.311621
0.364219	0.135240	0.321968
0.365068	0.135544	0.323417
0.362653	0.132820	0.320559
0.358905	0.128638	0.315549
0.354691	0.123983	0.309628
0.355052	0.123335	0.307765
0.352304	0.119672	0.303331
0.351689	0.118458	0.300961
0.361414	0.129780	0.311024
0.370229	0.137944	0.319893
0.371301	0.138875	0.321331
0.381468	0.150880	0.332865
0.398200	0.169353	0.351980
0.405631	0.176680	0.361073
0.405253	0.176066	0.361256
0.405672	0.174835	0.360402
0.402593	0.169495	0.355402
0.398719	0.163921	0.349178
0.395788	0.160432	0.344088
0.393056	0.157385	0.339490
0.390618	0.154921	0.335489
0.388048	0.152557	0.331623
0.385384	0.150262	0.327840
0.394510	0.161055	0.337273
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0.408873	0.176038	0.352777
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0.411135	0.176573	0.354339
0.408571	0.173982	0.351097

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0.412358	0.176923	0.352738
0.418149	0.180986	0.357459
0.422794	0.184086	0.361271
0.422756	0.183026	0.360639
0.420629	0.180890	0.357871
0.417277	0.177851	0.353699
0.414175	0.175059	0.349558
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0.490210	0.251917	0.429858
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0.520370	0.277680	0.460029
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0.600272	0.379378	0.559686
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0.599884	0.370028	0.539109
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0.599610	0.369758	0.523868
0.599135	0.367460	0.520939
0.598516	0.364378	0.516975
0.597576	0.361045	0.512599
0.599379	0.361783	0.512678
0.599504	0.364838	0.515517
0.599537	0.366770	0.517473
0.598969	0.365675	0.516264
0.598486	0.363210	0.513318
0.599459	0.364107	0.513944
0.599673	0.373788	0.525683
0.599832	0.380310	0.533962
0.599933	0.382148	0.536771
0.599713	0.380109	0.534910
0.599851	0.377452	0.531809
0.599752	0.374575	0.528254
0.599164	0.371045	0.523858
0.599759	0.377882	0.531328
0.599921	0.383815	0.538589
0.599684	0.384403	0.539958
0.600134	0.392136	0.549447
0.600076	0.401808	0.562013
0.599955	0.415382	0.583995
0.600308	0.420977	0.594652
0.600185	0.430111	0.607914
0.600292	0.441214	0.625399
0.600420	0.452880	0.631197
0.600511	0.458717	0.631092
0.600563	0.463093	0.631046
0.600496	0.472216	0.631206
0.600936	0.474924	0.627951
0.600883	0.471751	0.622128
0.600747	0.465529	0.614652
0.600735	0.459051	0.606953
0.600843	0.456510	0.603375
0.600469	0.452931	0.598889
0.600373	0.448229	0.592826
0.600264	0.442699	0.585622
0.600147	0.436978	0.578104
0.600028	0.431402	0.570741
0.599782	0.425595	0.563225
0.600172	0.425025	0.561384
0.600056	0.423765	0.559169

0.600158	0.421987	0.556630
0.599935	0.418653	0.552663
0.599676	0.414125	0.547407
0.599238	0.408975	0.541360
0.598480	0.403721	0.535092
0.599775	0.404361	0.535235
0.599609	0.403856	0.534527
0.598663	0.400904	0.531335
0.597446	0.396537	0.526532
0.595933	0.391610	0.521024
0.594168	0.386707	0.515455
0.592176	0.382027	0.510083
0.589988	0.377573	0.504959
0.587638	0.373302	0.500060
0.585175	0.369188	0.495369
0.583292	0.365737	0.491388
0.582827	0.363509	0.488745
0.584441	0.363011	0.488135
0.597014	0.371846	0.498146
0.599466	0.378460	0.506178
0.599528	0.382131	0.511364
0.598722	0.381557	0.511988
0.597118	0.378083	0.509179
0.599492	0.380942	0.512910
0.599777	0.390196	0.524969
0.600000	0.400407	0.538834
0.600192	0.406023	0.547320
0.599859	0.405008	0.547992
0.599024	0.399842	0.543370
0.600050	0.398656	0.542195
0.600094	0.399085	0.542810
0.600001	0.398283	0.542468
0.600069	0.398273	0.543047
0.599978	0.406517	0.553954
0.599923	0.421099	0.574969
0.600128	0.435679	0.599171
0.600621	0.442935	0.612002
0.600715	0.442175	0.612148
0.600675	0.443046	0.612827
0.600667	0.442771	0.611604
0.600346	0.444170	0.613150
0.600344	0.445309	0.614492
0.600288	0.441561	0.609568
0.600134	0.435288	0.600740
0.599946	0.427835	0.590186
0.599813	0.420521	0.579712
0.600327	0.420619	0.577331
0.600359	0.421430	0.576312

0.600402	0.422968	0.577679
0.600235	0.421770	0.576182
0.600421	0.422178	0.576030
0.599725	0.418748	0.571744
0.599254	0.413291	0.564876
0.600234	0.415311	0.566369
0.600224	0.416103	0.567189
0.599801	0.413177	0.563969
0.599008	0.407692	0.557574
0.597319	0.399718	0.548997
0.595208	0.391529	0.540070
0.592417	0.383196	0.531050
0.589131	0.375071	0.522216
0.586390	0.368037	0.514454
0.582854	0.360709	0.506536
0.579032	0.353582	0.498808
0.574919	0.346555	0.491223
0.570641	0.339690	0.483860
0.568462	0.334959	0.478709
0.564843	0.329026	0.472698
0.560877	0.323174	0.466672
0.556466	0.317184	0.460504
0.551876	0.311229	0.454393
0.547274	0.305436	0.448472
0.542706	0.299837	0.442780
0.538186	0.294439	0.437328
0.533855	0.289352	0.432228
0.529447	0.284320	0.427236
0.525025	0.279414	0.422388
0.528192	0.281972	0.425343
0.529108	0.281530	0.426323
0.538864	0.291875	0.437590
0.556833	0.308775	0.456334
0.580084	0.328720	0.478826
0.591119	0.336755	0.490460
0.594491	0.337641	0.494459
0.591182	0.332177	0.491514
0.591999	0.330256	0.491058
0.590064	0.325116	0.487618
0.586173	0.318942	0.482401
0.593036	0.322455	0.486604
0.595938	0.321292	0.487542
0.599250	0.326036	0.494246
0.597187	0.324001	0.494812
0.599397	0.332879	0.504780
0.599433	0.336034	0.510096
0.599770	0.339895	0.516027
0.596916	0.335951	0.514745

0.593171	0.329386	0.509420
0.588565	0.321250	0.501702
0.583614	0.312949	0.493290
0.578514	0.305038	0.484968
0.574102	0.298240	0.477658
0.571396	0.293243	0.472285
0.576929	0.296551	0.475864
0.589496	0.304045	0.484739
0.595875	0.305767	0.489068
0.599368	0.311869	0.497200
0.599572	0.313325	0.501207
0.599578	0.315309	0.505036
0.599705	0.318907	0.512028
0.599866	0.324065	0.520908
0.600050	0.330618	0.531569
0.600269	0.332297	0.536484
0.599138	0.328420	0.534013
0.600016	0.324197	0.529947
0.597652	0.316703	0.522173
0.595942	0.310585	0.515163
0.592668	0.303738	0.507344
0.599413	0.310938	0.513083
0.598876	0.311473	0.514205
0.593762	0.306388	0.509287
0.587127	0.297857	0.500520
0.579920	0.287884	0.489875
0.574206	0.279259	0.480231
0.569836	0.272107	0.472109
0.564132	0.264273	0.463366
0.557829	0.256586	0.454560
0.560588	0.257891	0.455174
0.560122	0.254627	0.452911
0.555717	0.249249	0.447473
0.542181	0.235435	0.432204
0.534271	0.227784	0.423445
0.526491	0.220396	0.414847
0.519015	0.213448	0.406688
0.511753	0.206886	0.398956
0.506848	0.202456	0.393563
0.500524	0.196787	0.387226
0.493983	0.191297	0.380877
0.487099	0.185722	0.374358
0.492003	0.191235	0.379803
0.506353	0.204096	0.395286
0.512992	0.209302	0.403695
0.524372	0.223156	0.418759
0.527002	0.226632	0.424408
0.523136	0.223831	0.422590

0.516181	0.217427	0.416384
0.508554	0.209999	0.408552
0.501239	0.202850	0.400571
0.493979	0.195759	0.392509
0.495430	0.196775	0.393006
0.492927	0.192466	0.389807
0.487972	0.187675	0.384750
0.481116	0.181727	0.377933
0.473664	0.175379	0.370446
0.466297	0.169181	0.362982
0.459888	0.163868	0.356432
0.453181	0.158365	0.349784
0.446514	0.153104	0.343331
0.439798	0.147958	0.336981
0.433111	0.142955	0.330780
0.428353	0.139616	0.326415
0.422455	0.135220	0.321223
0.421126	0.134778	0.320211
0.425173	0.138923	0.325029
0.430021	0.142001	0.330328
0.428941	0.140932	0.330599
0.424303	0.137759	0.327422
0.418912	0.134154	0.323118
0.426005	0.144809	0.332660
0.441714	0.163899	0.352300
0.457851	0.180916	0.372141
0.461821	0.184193	0.379011
0.458422	0.181051	0.377434
0.443683	0.166807	0.362880
0.430777	0.154245	0.347905
0.437456	0.163157	0.354845
0.439669	0.165508	0.357456
0.437187	0.163899	0.355675
0.431914	0.159405	0.350731
0.425723	0.153845	0.344380
0.419610	0.148347	0.337776
0.416382	0.145346	0.333705
0.423208	0.151626	0.340165
0.425597	0.152414	0.342520
0.423382	0.150597	0.340857
0.418205	0.146466	0.336123
0.412096	0.141464	0.330100
0.406082	0.136511	0.323896
0.400378	0.131869	0.317919
0.394898	0.127521	0.312229
0.389532	0.123393	0.306785
0.384223	0.119431	0.301533
0.378988	0.115632	0.296473

0.373787	0.111943	0.291549
0.381965	0.122628	0.301298
0.388005	0.128918	0.308835
0.387456	0.129470	0.310154
0.379694	0.124136	0.304619
0.374008	0.119528	0.299264
0.368444	0.115012	0.293699
0.363285	0.110933	0.288440
0.358408	0.107224	0.283533
0.353663	0.103753	0.278890
0.348974	0.100431	0.274427
0.344322	0.097220	0.270102
0.339716	0.094109	0.265898
0.335165	0.091101	0.261815
0.331633	0.089591	0.259023
0.328444	0.088374	0.256773
0.325515	0.087488	0.254947
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0.319892	0.086025	0.251755
0.317132	0.085321	0.250226
0.316831	0.086633	0.250920
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0.315950	0.088614	0.252247
0.314378	0.088432	0.251977
0.315579	0.091313	0.254355
0.314025	0.091153	0.254119
0.312080	0.090916	0.253340
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0.307160	0.089401	0.250261
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0.297822	0.086181	0.243675
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0.291282	0.083983	0.239030
0.289160	0.083275	0.237525
0.287070	0.082580	0.236054
0.285014	0.081901	0.234618
0.282996	0.081236	0.233211
0.281013	0.080586	0.231826
0.279062	0.079950	0.230461
0.277140	0.079329	0.229121
0.275252	0.078721	0.227805
0.273392	0.078126	0.226518
0.271563	0.077545	0.225263
0.269764	0.076976	0.224038
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0.264558	0.075345	0.220508
0.262882	0.074826	0.219376
0.261235	0.074318	0.218265
0.259615	0.073821	0.217175
0.258025	0.073335	0.216102
0.256461	0.072860	0.215049
0.254925	0.072395	0.214013
0.253416	0.071940	0.212991
0.251930	0.071495	0.211988
0.250471	0.071060	0.211001
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0.247624	0.070216	0.209081
0.246236	0.069807	0.208148
0.244871	0.069407	0.207232
0.243531	0.069015	0.206331
0.242214	0.068632	0.205445
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0.239643	0.067888	0.203712
0.238391	0.067528	0.202867
0.237157	0.067175	0.202038
0.235946	0.066829	0.201222
0.234753	0.066490	0.200421
0.233580	0.066157	0.199635
0.232426	0.065831	0.198864
0.231293	0.065512	0.198105
0.230178	0.065198	0.197355
0.229082	0.064891	0.196614
0.228003	0.064589	0.195883
0.226940	0.064293	0.195163
0.225895	0.064003	0.194453
0.224866	0.063717	0.193755
0.223852	0.063436	0.193068
0.222855	0.063161	0.192391
0.221873	0.062890	0.191726
0.220906	0.062623	0.191071
0.219953	0.062361	0.190429
0.219016	0.062103	0.189798
0.218093	0.061850	0.189176
0.217185	0.061601	0.188563
0.216290	0.061355	0.187958
0.215409	0.061114	0.187361
0.214541	0.060876	0.186773
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0.212844	0.060413	0.185622
0.212014	0.060186	0.185060
0.211196	0.059964	0.184506
0.210390	0.059745	0.183960

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0.207286	0.058907	0.181861
0.206539	0.058707	0.181357
0.205802	0.058511	0.180860
0.205077	0.058318	0.180372
0.204362	0.058129	0.179891
0.203658	0.057943	0.179417
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0.202280	0.057581	0.178493
0.201607	0.057405	0.178041
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0.200289	0.057063	0.177159
0.199645	0.056896	0.176728
0.199010	0.056733	0.176304
0.198384	0.056572	0.175886
0.197767	0.056414	0.175475
0.197160	0.056259	0.175070
0.196561	0.056107	0.174671
0.195970	0.055958	0.174278
0.195388	0.055811	0.173891
0.194814	0.055666	0.173510
0.194248	0.055524	0.173134
0.193691	0.055385	0.172764
0.193141	0.055248	0.172399
0.192598	0.055113	0.172040
0.192064	0.054980	0.171685
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0.191016	0.054721	0.170991
0.190504	0.054594	0.170652
0.189998	0.054470	0.170317
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0.188521	0.054108	0.169340
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0.180397	0.052138	0.163959
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0.179280	0.051867	0.163216
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0.178556	0.051691	0.162734
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0.177848	0.051519	0.162262
0.177499	0.051434	0.162029
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0.176476	0.051184	0.161344
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0.175812	0.051021	0.160899
0.175486	0.050940	0.160679
0.175162	0.050860	0.160462
0.174842	0.050781	0.160247
0.174526	0.050703	0.160034
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0.173291	0.050397	0.159202
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0.171816	0.050027	0.158205
0.171529	0.049955	0.158011
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0.170137	0.049602	0.157067
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0.168293	0.049129	0.155813
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0.165155	0.048307	0.153667
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0.164701	0.048187	0.153356
0.164477	0.048127	0.153202
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0.161318	0.047269	0.151025
0.161119	0.047214	0.150888
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0.160533	0.047052	0.150483
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0.159769	0.046839	0.149954
0.159582	0.046787	0.149824
0.159395	0.046734	0.149695
0.159210	0.046682	0.149567
0.159027	0.046631	0.149439
0.158844	0.046579	0.149313
0.158663	0.046528	0.149187
0.158483	0.046477	0.149062
0.158304	0.046426	0.148938
0.158126	0.046376	0.148814
0.157949	0.046326	0.148691
0.157774	0.046276	0.148570
0.157599	0.046226	0.148448

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0.157254	0.046127	0.148208
0.157082	0.046078	0.148089
0.156912	0.046029	0.147971
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0.156574	0.045932	0.147736
0.156406	0.045884	0.147619
0.156240	0.045836	0.147504
0.156075	0.045788	0.147388
0.155910	0.045740	0.147274
0.155747	0.045693	0.147160
0.155584	0.045646	0.147047
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0.155261	0.045552	0.146823
0.155102	0.045505	0.146711
0.154943	0.045459	0.146601
0.154785	0.045413	0.146491
0.154627	0.045367	0.146381
0.154471	0.045321	0.146273
0.154316	0.045275	0.146164
0.154161	0.045230	0.146057
0.154007	0.045185	0.145950
0.153855	0.045140	0.145843
0.153703	0.045095	0.145737
0.153551	0.045050	0.145632
0.153401	0.045006	0.145527
0.153251	0.044962	0.145423
0.153103	0.044918	0.145320
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0.152227	0.044657	0.144709
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0.151941	0.044572	0.144510
0.151799	0.044530	0.144411
0.151658	0.044488	0.144313
0.151517	0.044446	0.144215
0.151378	0.044404	0.144117
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0.151100	0.044321	0.143924
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0.150690	0.044197	0.143638
0.150554	0.044156	0.143543
0.150419	0.044116	0.143449
0.150285	0.044075	0.143356

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0.150019	0.043995	0.143170
0.149887	0.043955	0.143078
0.149755	0.043915	0.142986
0.149624	0.043876	0.142895
0.149494	0.043836	0.142804
0.149364	0.043797	0.142714
0.149235	0.043758	0.142624
0.149107	0.043719	0.142534
0.148979	0.043680	0.142445
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0.148725	0.043603	0.142268
0.148599	0.043564	0.142180
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0.148349	0.043488	0.142005
0.148224	0.043450	0.141919
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0.147855	0.043337	0.141661
0.147733	0.043300	0.141576
0.147611	0.043263	0.141491
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0.147250	0.043153	0.141240
0.147131	0.043116	0.141156
0.147012	0.043080	0.141074
0.146894	0.043043	0.140991
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0.145740	0.042688	0.140186
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0.145403	0.042585	0.139951
0.145292	0.042550	0.139874
0.145181	0.042516	0.139797
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0.141188	0.041275	0.137012
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0.139982	0.040899	0.136172
0.139892	0.040870	0.136109
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0.139533	0.040758	0.135859
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0.139356	0.040702	0.135736
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0.138831	0.040538	0.135370
0.138744	0.040511	0.135310
0.138658	0.040484	0.135250
0.138572	0.040457	0.135190
0.138487	0.040430	0.135131
0.138402	0.040404	0.135071
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0.138232	0.040350	0.134953
0.138147	0.040324	0.134895
0.138063	0.040298	0.134836
0.137979	0.040271	0.134778
0.137896	0.040245	0.134720
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0.121087	0.034977	0.123111
0.121050	0.034966	0.123085
0.121013	0.034954	0.123060
0.120976	0.034943	0.123035
0.120940	0.034931	0.123009
0.120903	0.034920	0.122984
0.120866	0.034908	0.122959
0.120830	0.034897	0.122934
0.120793	0.034885	0.122909
0.120757	0.034874	0.122884
0.120669	0.034847	0.122824
0.120648	0.034840	0.122810
0.120612	0.034829	0.122785
0.120576	0.034818	0.122760
0.120540	0.034806	0.122736
0.120504	0.034795	0.122711
0.120468	0.034784	0.122686
0.120433	0.034773	0.122662
0.120397	0.034762	0.122638
0.120312	0.034735	0.122579
0.120150	0.034685	0.122468
0.120115	0.034674	0.122444
0.120081	0.034663	0.122421
0.120046	0.034652	0.122397
0.119962	0.034626	0.122339
0.119907	0.034609	0.122302
0.119873	0.034598	0.122278
0.119839	0.034587	0.122255
0.119804	0.034576	0.122231
0.119770	0.034566	0.122208
0.119736	0.034555	0.122185
0.119702	0.034544	0.122161
0.119668	0.034534	0.122138
0.119634	0.034523	0.122115

0.119600	0.034513	0.122092
0.119567	0.034502	0.122068
0.119533	0.034492	0.122045
0.119499	0.034481	0.122022
0.119466	0.034471	0.121999
0.119432	0.034460	0.121977
0.119399	0.034450	0.121954
0.119319	0.034425	0.121899
0.119147	0.034371	0.121781
0.119069	0.034347	0.121728
0.119037	0.034337	0.121706
0.119004	0.034326	0.121683
0.118926	0.034302	0.121630
0.118759	0.034250	0.121515
0.118402	0.034138	0.121271
0.118183	0.034070	0.121121