

**WITHYHEDGE LANDFILL
PHASE 2 SURFACE WATER
MANAGEMENT SYSTEM**

**Design and Construction
Validation Report**

Report Number 2548r1v1d0425

Commissioned by:

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TECHNOLOGY

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1 INTRODUCTION

Resources Management Limited (RML) operates the Withyhedg Landfill site at Rudbaxton near Haverfordwest. The site has been operating for many years under several owners and comprises:

- a capped and restored unlined area referred to as Phase 1
- a capped and restored area with a basal liner comprising the majority of Phase 2
- a temporary capped area within Phase 2
- the current operational area in Phase 2
- the yet to be developed Phase 3

The Environmental Permit for the site requires surface water to be managed such that only consented flows of water leave the site through one of three discharge points, labelled D1, D2 and D3. Discharge D1 releases water from the Phase 1 surface water management system into Rudbaxton Water after a series of 4 linked ponds have provided attenuation of flows and settlement.

Discharge point D2 will release surface water from Phase 2 into Rudbaxton Water, though the single rectangular pond that the current operator inherited from the previous owner is inadequate to control surface water from Phase 2. Accordingly, surface water has been collected from Phase 2 and pumped into the upper receiving pond of the Phase 1 system. Accordingly, currently surface water from both Phases 1 and 2 is currently being attenuated and settled before discharge via D1.

RML has commissioned Geotechnology to design a suitable surface water management system for Phase 2 so that discharge can be made through D2, as the Permit consents. To carry out this design, Geotechnology has followed guidance published by the Landfill Guidance Group as Industry Code of Practice No. LGG 116 titled "Sizing of surface water management systems at landfill sites". The management system comprises a series of grips, V ditches, pipes, sedimentation ponds and combined attenuation and settlement lagoons. The system will collect all surface water runoff from Phase 2 and will discharge the runoff through consented discharge D2 at a rate of no more than 140l/s, the maximum rate permitted by the Permit.

Phase 2 comprises the central area of the landfill, and includes Cells 1-10 and the Valley Cell. Phase 1 lies immediately to the east and has surface water managed through an existing series of ponds to achieve settlement and attenuation. Phase 3 is proposed for future years and will be provided with a further settlement/attenuation pond system. Currently, Phase 2 is active, with infilling works in Cell 9, construction works in Cell 10 and temporary capping over Cell 8 and the flanks of Cells 5N, 4/5S, 6 and 7. The remainder of Phase 2 is permanently capped.

Geotechnology has provided the design of the pond and collection system to RML and over the last 9 months or so sporadic work has been undertaken to install these to the design requirements. Using digital terrain models of the finished works, GPS controlled excavators and dozers have been deployed to very accurately cut and fill the ground to the required profiles. Geotechnology has monitored the works and has confirmed the accuracy of the works with dGPS survey equipment working from the site base station.

This report provides the design details for the Phase 2 surface water system and validates that the installation follows the design requirements.

2 SURFACE WATER FLOWS

2.1 General

Withyhedge Landfill is situated in western Wales, an area that receives high annual rainfall and intense storm rainfall. Rain falling on the landfill will result in surface water flowing over the surface where the total rainfall exceeds the proportion that is able to evaporate from the surface, transpire through vegetation or percolate into the soil. Rainfall that has percolated into the soil may recharge groundwater, may be held in storage within the soil or may be rejected due to excessive moisture within the soil. The fate of rain falling on the site is therefore complex, with only a proportion flowing overland as rainfall runoff.

2.2 Catchment and Sub-catchment Areas

In order to calculate the flow of surface water around Phase 2 of the site, a plan of Phase 2 (the catchment) has been divided into sub-catchments where noticeably different rainfall runoff conditions can be identified. The three sub-catchments are:

- Area 1 The part of Phase 2 that has been fully restored with a cap, soil cover and vegetation. Area 1 is divided into two sub-catchments, Area 1a discharges to Combined Ponds 1-8, whilst Area 1b discharges to Ponds 9-11.
- Area 2 The part of Phase 2 that is currently covered with temporary capping
- Area 3 The part of Phase 2 that is currently operational, with ongoing construction works, roads, bunds, and other "bare ground" uses

These areas have been identified on a topographic model of the site and the area for each sub-catchment has been measured. Figure 2-1 shows the plan of the site with the sub-catchments indicated. The full drawing is included in this report as 2548Drawing1.

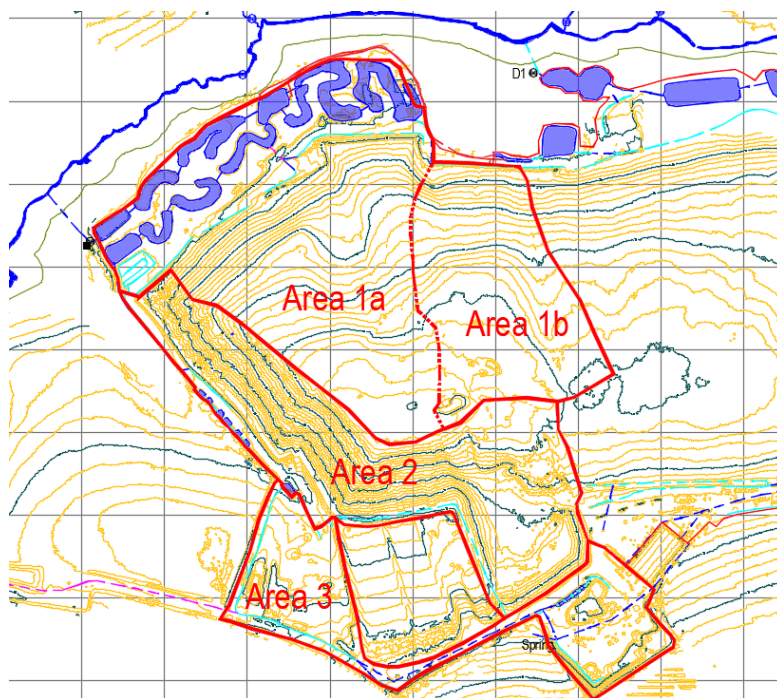


Figure 2-1 Sub-catchments within Phase 2

The areas of each sub-catchment are:

Area 1a	10.97Ha
Area 1b	5.38Ha
Area 2	7.48Ha
Area 3	4.72Ha

Whilst the entire catchment amounts to 28.55Ha.

2.3 Design Rainfall

In order to estimate the surface water flows arising from runoff within the three sub-catchments a design rainfall event has to be specified. This has been achieved using the Flood Estimation Handbook methodology. The FEH22 rainfall storm event data has been obtained from the UK Centre for Ecology and Hydrology, Flood Estimation Handbook Web Service for a point at the centre of Phase 2. The dataset provides rainfall in mm from 15minute duration to 96hours duration (in 15minute increments) with return periods of 2yrs, 5yrs, 10yrs, 20yrs, 30yrs, 50yrs, 75yrs, 100yrs and 150yrs. The dataset is shown in Appendix 1, with an example extract shown on Figure 2-2 below.

The design rainfall can be easily converted in to a volume of rainfall for each time increment for each return period by simply multiplying the rainfall by the surface area. This has been done in Appendix 2 for an area of 1Ha.

VERSION	"FEH Web Service (2.4.9201.12280) "	Version	1.0.0	exported at	14:27:31 GMT	Wed	12-Mar-25			
Parameters										
Rainfall model=	FEH22									
Calculation type=	Design rainfall									
Calculation mode=	For a point									
Calculation location=	Point	GB	196681	221612	SM 96681 21612					
Fixed duration=	no									
Annual maximum=	yes									
Duration hours	Duration days	2 year rain	5 year rain	10 year rain	20 year rain	30 year rain	50 year rain	75 year rain	100 year rain	
0.25		0.0104	7.38	10.5	12.68	14.67	15.83	17.25	18.44	19.32
0.5		0.0208	10.06	14.48	17.48	20.38	22.11	24.3	26.08	27.37
0.75		0.0313	11.87	17.11	20.69	24.3	26.4	29.06	31.26	32.87
1		0.0417	13.32	19.18	23.27	27.33	29.72	32.8	35.3	37.13
1.25		0.0521	14.78	20.97	25.27	29.52	32.02	35.24	37.87	39.8
1.5		0.0625	16.13	22.54	26.96	31.32	33.88	37.19	39.9	41.89
1.75		0.0729	17.39	23.94	28.44	32.88	35.49	38.85	41.63	43.67
2		0.0833	18.55	25.22	29.77	34.27	36.91	40.31	43.15	45.23
2.25		0.0938	19.56	26.39	31.02	35.61	38.31	41.79	44.68	46.82
2.5		0.1042	20.5	27.47	32.18	36.85	39.61	43.16	46.11	48.3
2.75		0.1146	21.37	28.48	33.26	38.01	40.82	44.44	47.45	49.68

Figure 2-2 Extract of FEH22 Rainfall Intensity Dataset for Withyhedge Landfill

2.4 Allowance for Climate Change

It is best practice to make provision for climate change as the existing datasets upon which the FEH22 dataset is derived are based on past records in a changing climate. To make provision for climate change the rainfall data have each been uplifted by 40% before the data is used in runoff calculations.

When the rainfall is increased by a climate change allowance, the volume of rainfall is also increased, as the table in Appendix 3 shows for a 1Ha area.

2.5 Runoff Coefficients

In order to estimate the proportion of the rainfall that reports to runoff, a runoff coefficient for each of the three sub-catchments has been determined. Those parts of the site covered by temporary plastic capping for example will have a very high runoff coefficient, whilst the part that has been permanently capped has a much lower runoff coefficient. The active construction area has an intermediate runoff coefficient. When Phase 2 is finally complete and returned to restored grassland, the runoff coefficients will all be at a minimum and runoff will be reduced. Accordingly, the current configuration is the worst case, when the storage requirement will be at its maximum.

Phase 2 is divided into Sub-catchment 1, the restored completed area, Sub-catchment 2, the temporary capped area with exposed flexible membrane liner and Sub-catchment 3, the area under construction (in addition to site roads). The runoff coefficients (Wallingford Procedure runoff model) adopted for these Sub-catchments are 0.47, 0.9 and 0.6 respectively. The runoff coefficient for the restored grassland is based on a HOST/SOIL class of 20, which represents a soil of low storage capacity overlying an impermeable layer.

3 FLOW ATTENUATION

3.1 Principles

The design principles of attenuation ponds for landfill are described in the document "Sizing of surface water management systems at landfill sites" issued by the Landfill Guidance Group as Industry Code of Practice no. LGG 116. It describes a conventional approach to design, in which rainfall intensities for various return periods uplifted by an allowance for climate change are used to calculate runoff at regular intervals during a storm event. The runoff volume in storm events, being greater than the authorised discharge rate, has to be retained on site to avoid exacerbating flooding in the receiving watercourse, Rudbaxton Water in this case. The calculation allows the storage volume to be calculated for storms of different return periods.

3.2 Runoff Calculation

For each of the three sub-catchments, the runoff has been calculated as the product of the rainfall, the runoff coefficient and the surface area. This allows the cumulative runoff for the 15minute increment durations for every return period to be calculated for each area. These results are presented in Appendix 4 for Area 1 (a+b), Appendix 5 for Area 2 and Appendix 6 for Area 3. (note that the title reference in the datasets to Area 1, 2 and 3 means Sub-catchment 1, 2 and 3 respectively).

3.3 Discharge Rate

It is common practice to estimate greenfield discharge rates when determining the acceptable rate of discharge for the surface water system under design. Using the Environment Agency guidance "Rainfall runoff management for developments", SC030219 (2013) , the SuDS Manual C753 (Ciria, 2015) and the non-statutory standards for SuDS (Defra, 2015) an IH124 approach has been used to estimate the greenfield runoff rate. Using the conservative default values in the Greenfield Runoff Tool published by HR Wallingford (online calculator) the greenfield runoff would be expected to be no less than 215l/s for a 100yr return period. This is in excess of the Permit limit of 140l/s; accordingly, the discharge rate from the ponds has been limited to 140l/s.

3.4 Storage Capacity for Attenuated Flows

To calculate the storage requirement in the attenuation ponds, a balancing calculation has been made. The inputs to the ponds for any elapsed time at any Return period will be the sum of the cumulative runoff from each sub-catchment up to that moment in the storm event, ie the sum of the corresponding values in Appendices 4 to 6. The cumulative discharge volume up to each time increment is obtained by multiplying the consented discharge rate of 140l/s for D2 by the elapsed time, and this has been subtracted from the cumulative runoff volume to reveal the storage volume required at each time increment for a storm of return periods of up to 150yrs. This data is provided in Appendix 7. A correction to the pond inputs has been made to allow for the springwater flow which is piped into the surface water collection system. Site observations indicate that the flow in wintertime is less than 3l/s so a conservative flow rate of 4.5l/s has been added to the runoff volumes.

A scan through the data in Appendix 7 reveals that for each return period, the storage volume increases from the start of the event, reaches a maximum and then drops to the end of the 96hr simulation. Each return period has a storage maximum at a different time increment, and with increasing return period the storage volume requirement increases. This is summarised on Table 3-1 which shows the peak storage volume for each return period as well as the elapsed time of the peak storage requirement.

Return Period (yrs)	Peak of Duration (hrs)	Peak Storage (m3)
2	5.25	4204.19
5	6	6064.41
10	6.75	7426.94
20	7.75	9226.48
30	8.5	10232.64
50	9.75	11562.93
75	11.25	12803.36
100	12.75	13801.91
150	14.5	15389.06

Table 3-1 Peak Storage Requirements for Different Return Periods

The surface water ponds at Withyhedge have been designed with the 1:100yr storm event (with an allowance of +40% rainfall to account for climate change). Table 3-1 reveals that the storage required for the 100yr return period storm is 13,802m³, hence the pond system requires no less than this volume. The table also shows that a system with a 13,802m³ capacity would not store sufficient runoff in the 150return period storm, causing the system to surcharge (flood).

4 SETTLEMENT OF SUSPENDED SOLIDS

4.1 Principles

The design principles of settlement ponds for landfill are also described in the document "Sizing of surface water management systems at landfill sites" issued by the Landfill Guidance Group as Industry Code of Practice no. LGG 116. It describes a conventional approach to settlement pond design, in which the area of the ponded water is calculated for a given flowrate and a given settlement velocity. This approach allows the surface area of ponded water to be calculated.

4.2 Settling Pond Areas

The guidance advocates a settling velocity of 10^{-5} m/s to remove fine silt and sand, leaving all but colloidal clays suspended in the water. The ponds have to be effective at settling sediment when the system is operating at its maximum permitted discharge rate of 140l/s. With a flow rate of $0.14\text{m}^3/\text{s}$ and a settling rate of 10^{-5} m/s the surface area required of the ponds is calculated to be $14,000\text{m}^2$.

4.3 Staged Construction

Due to availability of plant and weather conditions, RML is constructing the pond system in two parts. The first larger part will accept flows from Area 1a, 2 and 3 whilst the second smaller part, to be added during the summer of 2025, will accept flows of runoff from the restored ground in Area 1b. Accordingly, the discharge flows will be reduced until the full scheme is completed. Flows limited to less than 106l/s will be implemented. At this rate of discharge through D2, the area of ponds required for settlement is $10,600\text{m}^2$.

4.4 Effectiveness of System

The use of the settlement system for Phase 1, with a surface area of 9060m^2 , to control Phase 1 surface water and the temporary pumped water from Phase 2 reveals that effective settlement can be achieved within the $10,600\text{m}^2$ provided in the first stage of construction in Phase 2. However, it should be noted that the Phase 1 system is mature and the ponds are filled with reeds. The Phase 2 system has been recently dug and has no reeds at present, and therefore its effectiveness is currently at a minimum, though this will improve as the system settles and reeds begin to grow. Transplantation is recommended to accelerate this process.

5 COMBINED ATTENUATION/SETTLEMENT POND DESIGN

The surface water pond design has to achieve two size objectives: a retained storage volume in excess of 13,802m³ for attenuation and a surface water area of 14,000m² for settlement when the pond system is filled to capacity and discharging at a rate of 140l/s. This significant pond area requires a significant land take at the lowest part of the site. Accordingly, an area at the northern end of the site that had previously been cleared and used as a clay borrow pit was selected. A single pond had previously been positioned within this area, but its surface area of 2790m² and its volume of 3780m³ were wholly inadequate to accommodate the surface water from Phase 2.

A revised pond layout has been designed. It comprises 10 combined attenuation and settlement ponds and a further 6 small settlement ponds designed to drop sand and coarse silt from the surface water before it enters the combined system. A summary of the system is provided on Table 5-1 and as a drawing on 2548Drawing2.

Pond	Route	Shoulder	Base	Freeboard	Area	Volume	Inlet Invert	Outlet Invert
Phase 2 Settling Pond 1	Collection/SP2	38.3	37.3		101	101	38.3	38.3
Phase 2 Settling Pond 2	SP1/SP3	37.8	36.8	0.5	43	43	37.8	37.8
Phase 2 Settling Pond 3	SP2/SP4	37.8	36.8	0.5	43	43	37.8	37.8
Phase 2 Settling Pond 4	SP3/SP5	37.8	36.8	0.5	59	59	37.8	37.8
Phase 2 Settling Pond 5	SP4/SP6	37.8	36.8	0.5	53	53	37.8	37.8
Phase 2 Settling Pond 6	SP5/SP7	37.8	36.8	0.5	28	28	37.8	37.8
Phase 2 Settling Pond 7	SP6/CP1	37.8	36.8	0.5	48	48	37.8	37.8
Phase 2 Combined Pond 1	SP7/CP2	37.1	35.5	0.2	851	958.7	36.4	35.9
Phase 2 Combined Pond 2	CP1/CP3	37.2	35.4	0.3	738	902.3	35.9	35.85
Phase 2 Combined Pond 3	CP2/CP4	37.2	35.3	0.3	1068	1357.6	35.85	35.8
Phase 2 Combined Pond 4	CP3/CP5	37.4	35.4	0.5	1036	1215.8	35.8	35.75
Phase 2 Combined Pond 5	CP4&CP11/CP6	37.4	35.4	0.5	942	1092.7	35.75	35.7
Phase 2 Combined Pond 6	CP5/CP7	37.2	35.3	0.3	1751	2339.0	35.7	35.6
Phase 2 Combined Pond 7	CP6/CP8	37.2	35.2	0.3	1003	1378.3	35.6	35.55
Phase 2 Combined Pond 8	CP7/D2	37.2	35.1	0.3	719	926.3	35.55	35.5
Phase 2 Combined Pond 9	Collection/CP10	37.6	35.7	0.8	2800	2912.1	39.4	35.9
Phase 2 Combined Pond 10	CP9/CP11	37.3	35.5	0.5	2059	2461.5	35.9	35.85
Phase 2 Combined Pond 11	CP10/CP5	37.3	35.5	0.5	736	793.2	35.85	35.8

Table 5-1 Surface Water Management Ponds

The pond system as-built has a surface area of 14,078m², aligning with the design sizing objectives for settlement. The pond system has a storage volume of 15,293m³, exceeding the design sizing objectives of the 100yr return period and achieving the storage of the 150yr return period.

5.1 Surface Water Collection

Surface water is collected from the drained area in a series of grips or V ditches which pass around the edges of the Phase and at key changes of slope within the Phase. The location of ditches and grips are shown on 2548/Drawing2, an as-built survey of the drainage infrastructure made on 6 March 2025. The surface water collection system from the southern and western parts of the site drains water initially to a series of 7 small sedimentation ponds designed to drop out larger particles entrained within the water. The ponds are labelled SP1 to SP7 respectively and discharge via a 300mm diameter pipe into the first of the combined attenuation/sedimentation ponds, labelled CP1 to CP11.

6 CONSTRUCTION VALIDATION

6.1 Two Stage Construction

The combined pond system is being installed in two stages. The first stage has been completed and comprises CP1 to 8 with all of the collection grips, ditches and pipes. This is a fully functional system though its capacity is insufficient for storm events greater than a 25 year return period and its capacity to settle sediment is restricted to a flow rate of 106 l/s. The final 3 ponds will be constructed in spring/summer 2025 to complete the scheme to the 100yr return period flowrates. Until this is complete a pump will remain on standby to cover the unlikely even of a storm flow exceeding the 75yr return.

6.2 Stage 1 Construction

On 2 July 2024 the digital terrain model of the surface water ponds was loaded onto an excavator and a dozer. Preparatory works comprising levelling, the removal of tree debris and the central linear topsoil stockpile removal was undertaken through July for commencement of the pond excavation in August. Pond excavation works took place on 1,2,5,6,7,8 and 9 August, with a revision to the levels and shape of CP1 being made on 9 August. Further trimming works were carried out on 28, 29 and 30 August. A survey of the ponds was made on 24 October 2024 and a full inspection carried out on 18 and 19 November. Ground levels were checked against pond levels on the design.

On 6 March 2025 the surface water system was inspected and using the dGPS rover unit a survey was made of the shoulder elevations for comparison with pipe invert levels. On 31 March pipe invert levels were loaded onto the rover unit and these were set out on 31 March. On 3 April pipe levels were set out and measured with a survey of the alignment and depth of inverts made on 8 April. The pipes were inspected and photographed on 14 April 2025.

A series of Photographs of the pond construction is provided in Appendix 10.

The final inspection of the first stage of installation revealed that the surface water collection system, including grips, ditches and pipework is effective at channelling surface water into the surface water management system. The inspection revealed that S1 to S7 have been installed and are functioning as expected. Combined Ponds 1 to 8 are fully functional and are connected with pipework set at the levels required to ensure a fall in level from pond to pond and will also allow backing up during flood events. The system is connected to the only outfall, D2.

D2 has a gate valve that allows flow to be adjusted and an electronic flowmeter that will allow continuous monitoring of flows into Rudbaxton Water. It is noted that the maximum flow capable from the system with the current size of pipework at D2 is 106l/s or 381.74m³/hr.

6.3 Verification Statement

Geotechnology is satisfied that the first stage of the surface water system has been constructed in accordance with the design.

7 FURTHER REFINEMENTS

7.1 Landscaping

Landscaping comprises the spreading of available topsoil and tree shred mulch over the finished ground surface and the application of hydraseed. Once established, in the next planting season a scheme of tree planting between the ponds will be undertaken. Farm access tracks that cross the area will be maintained and surfaced to provide all weather surface.

7.2 pH buffering

The long straight ditch passing to the west of the west facing temporary slopes receives water from runoff and also from springwater. The springwater is high in iron and metals and caused a characteristic red staining as iron precipitates onto surfaces in the watercourse. The pH of the groundwater is naturally low due to pyrite oxidation. There is an opportunity to fill the base of the ditch with coarse (100mm) limestone rockfill to buffer the pH and drop out iron earlier in the pond system. At times of high flow, surface water will dominate the flow and the mineralised groundwater will have little influence, but at times of low flow the acidic groundwater will flow through the rockfill, allowing it to buffer.

7.3 Reed planting

Reed planting will stabilise the beds of the ponds and make settlement more effective as throughflow speed reduces. This is to be achieved by transplanting scoops of reed from Phase 1 system.

7.4 Flocculant

The system will work without flocculant in the medium to longer term, but when the ponds are new, with clay covered bases without the benefit of vegetation suspended solids may not be removed as effectively. The short term use of flocculant blocks beneath the input pipe to CP1 will assist management during this period.

7.5 Short term pumping

As the system is constructed in two stages, water that will flow into CP9, 10 and 11 will temporarily be captured into CP5. Pumps may be required to manage this in the short term during summer storms until the last 3 ponds are on line.

8 REFERENCES

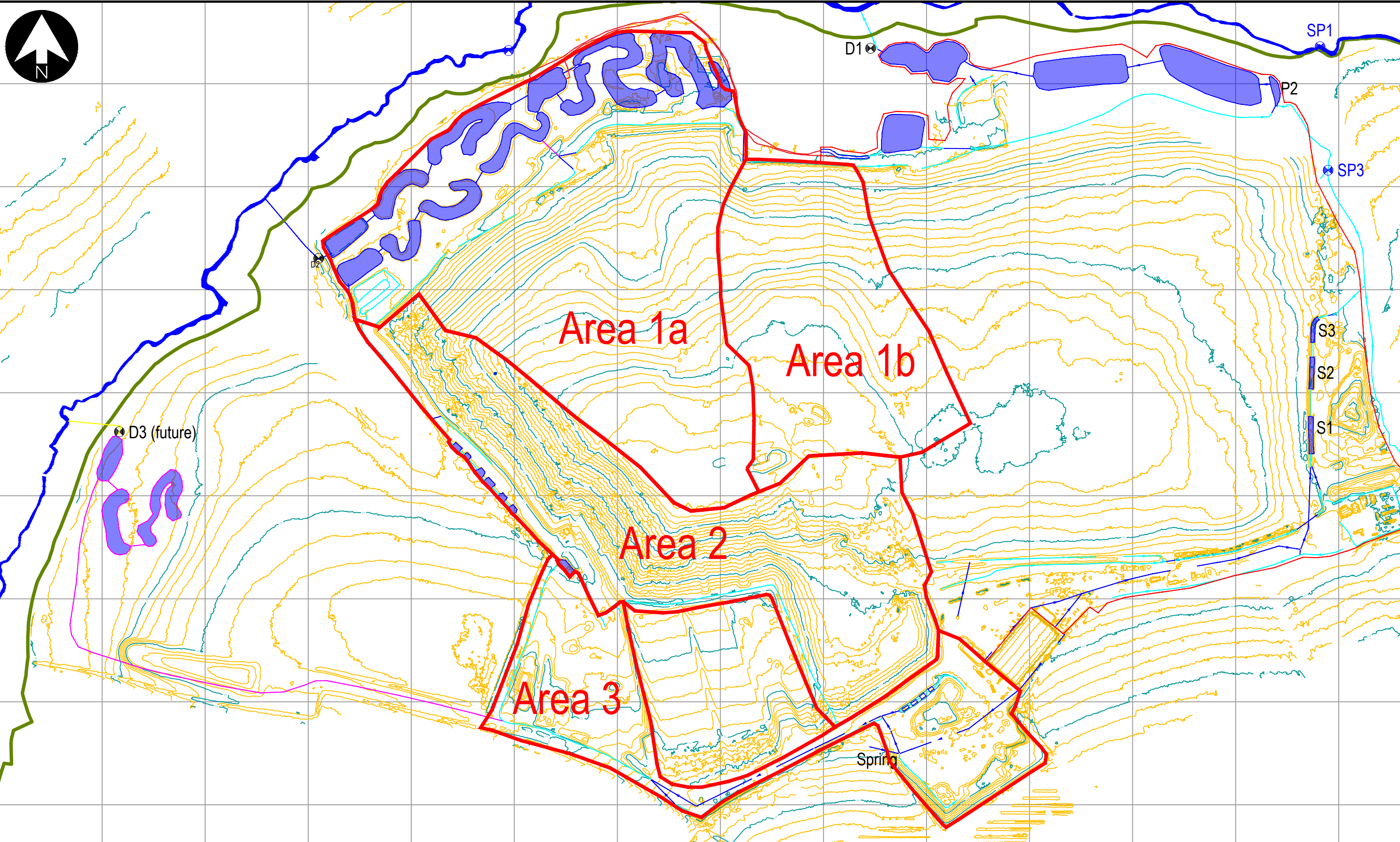
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DOE, 1981, Volume 4 Modified Rational Method, The Wallingford Procedure. HR Wallingford
HR Wallingford, 2002, Kellagher, R, Report SR574, Drainage of development sites – a guide
Rainfall modelling FEH22.

UK Centre for Ecology and Hydrology, Flood Estimation Handbook Web Service, SM96681
21612 Point Data 25/05/2024

Hydrology of Soil Types, A Hydrologically -based classification of soil types in England and
Wales,

Sizing of surface water management systems at landfill sites LANDFILL GUIDANCE GROUP
Industry Code of Practice no. LGG 116



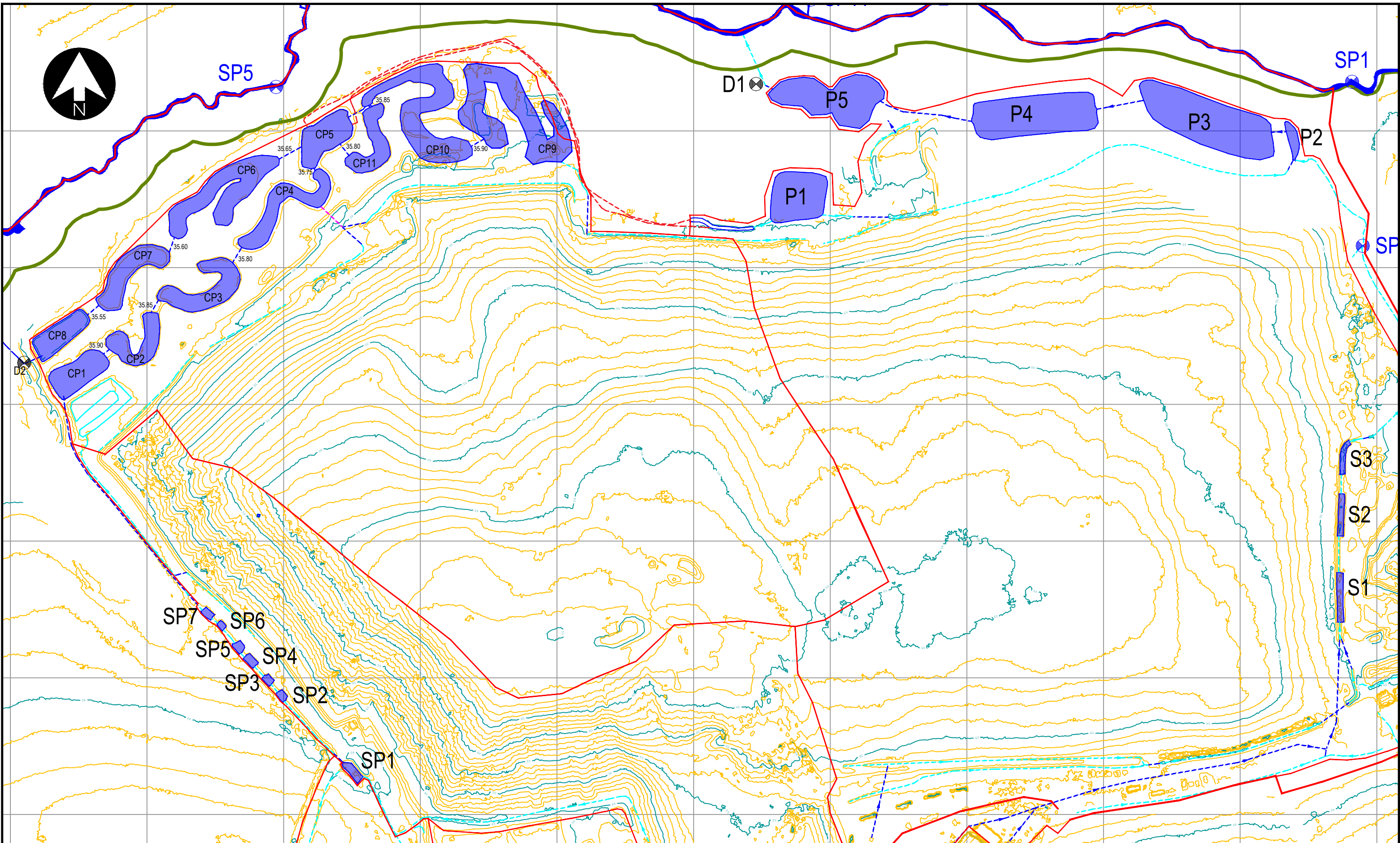
LEGEND	
	Prominent Contour (5.0m)
	Normal Contour (1.0m)

NOTES
 Digital survey model generated using Pix4D image processing software.
 Imagery acquired by DJI Mavic 3E photogrammetry survey on 22 January 2025.
 Permanent site survey control installed using Topcon Hiper SR dGPS Rover.
 OS Grid spacing at 100m

PROJECT	Withy hedge Landfill Phase 2 Surface Water System
TITLE	Surface Water Catchments

DRAWING NUMBER	2548/01	
SCALE AT A3	DATE	DRAWN
1:2500	04.25	KJT
NOTE		





LEGEND	
	Prominent Contour (5.0m)
	Normal Contour (1.0m)

NOTES
 Digital survey model generated using Pix4D image processing software.
 Imagery acquired by DJI Mavic 3E photogrammetry survey on 22 January 2025.
 Permanent site survey control installed using Topcon Hiper SR dGPS Rover.
 OS Grid spacing at 100m

PROJECT	Withy hedge Landfill Phase 2 Surface Water System	
TITLE	Surface Water Management System	

DRAWING NUMBER	2548/02	
SCALE AT A3	DATE	DRAWN
1:2500	04.25	KJT
NOTE		



**WITHYHEDGE LANDFILL
PHASE 2 SURFACE WATER
MANAGEMENT SYSTEM**

**Design and Construction
Validation Report**

**Appendix 1
FEH22 Design Rainfall
Dataset**

Report Number 2548r1v1d0425

Duration hours	Duration days	Table 1 Rainfall in mm for return period over time increment								
		2 Year	5 Year	10 Year	20 Year	30 Year	50 Year	75 Year	100 Year	150 Year
0.25	0.01042	7.38	10.5	12.68	14.67	15.83	17.25	18.44	19.32	20.55
0.5	0.02083	10.06	14.48	17.48	20.38	22.11	24.3	26.08	27.37	29.23
0.75	0.03125	11.87	17.11	20.69	24.3	26.4	29.06	31.26	32.87	35.19
1	0.04167	13.32	19.18	23.27	27.33	29.72	32.8	35.3	37.13	39.81
1.25	0.05208	14.78	20.97	25.27	29.52	32.02	35.24	37.87	39.8	42.61
1.5	0.06250	16.13	22.54	26.96	31.32	33.88	37.19	39.9	41.89	44.8
1.75	0.07292	17.39	23.94	28.44	32.88	35.49	38.85	41.63	43.67	46.65
2	0.08333	18.55	25.22	29.77	34.27	36.91	40.31	43.15	45.23	48.27
2.25	0.09375	19.56	26.39	31.02	35.61	38.31	41.79	44.68	46.82	49.95
2.5	0.10417	20.5	27.47	32.18	36.85	39.61	43.16	46.11	48.3	51.51
2.75	0.11458	21.37	28.48	33.26	38.01	40.82	44.44	47.45	49.68	52.97
3	0.12500	22.19	29.41	34.27	39.09	41.96	45.64	48.71	50.99	54.36
3.25	0.13542	22.96	30.29	35.22	40.11	43.03	46.78	49.9	52.22	55.68
3.5	0.14583	23.68	31.12	36.11	41.07	44.04	47.86	51.04	53.4	56.94
3.75	0.15625	24.37	31.91	36.96	41.98	45	48.89	52.12	54.53	58.15
4	0.16667	25.02	32.65	37.77	42.85	45.92	49.87	53.16	55.61	59.31
4.25	0.17708	25.65	33.36	38.53	43.68	46.78	50.8	54.15	56.65	60.42
4.5	0.18750	26.24	34.02	39.25	44.47	47.61	51.69	55.1	57.65	61.5
4.75	0.19792	26.8	34.66	39.95	45.22	48.41	52.55	56.02	58.62	62.54
5	0.20833	27.34	35.27	40.61	45.95	49.17	53.38	56.9	59.55	63.55
5.25	0.21875	27.86	35.86	41.25	46.65	49.91	54.17	57.76	60.45	64.52
5.5	0.22917	28.36	36.42	41.86	47.32	50.62	54.95	58.59	61.33	65.47
5.75	0.23958	28.84	36.96	42.46	47.97	51.3	55.69	59.4	62.18	66.4
6	0.25000	29.3	37.48	43.03	48.6	51.97	56.42	60.18	63.01	67.3
6.25	0.26042	29.74	37.98	43.58	49.21	52.61	57.12	60.94	63.82	68.19
6.5	0.27083	30.17	38.47	44.11	49.8	53.24	57.81	61.69	64.62	69.06
6.75	0.28125	30.58	38.94	44.63	50.37	53.85	58.47	62.41	65.39	69.91
7	0.29167	30.97	39.39	45.13	50.92	54.44	59.12	63.12	66.14	70.74
7.25	0.30208	31.36	39.84	45.61	51.46	55.01	59.75	63.8	66.88	71.55
7.5	0.31250	31.73	40.26	46.09	51.98	55.58	60.37	64.48	67.6	72.35
7.75	0.32292	32.09	40.68	46.55	52.49	56.12	60.97	65.14	68.3	73.13
8	0.33333	32.44	41.09	46.99	52.99	56.66	61.56	65.78	68.99	73.89
8.25	0.34375	32.78	41.48	47.43	53.47	57.18	62.14	66.41	69.67	74.64
8.5	0.35417	33.11	41.87	47.86	53.95	57.69	62.7	67.03	70.33	75.37

8.75	0.36458	33.44	42.24	48.27	54.41	58.19	63.25	67.63	70.98	76.09
9	0.37500	33.75	42.61	48.68	54.87	58.68	63.8	68.23	71.62	76.8
9.25	0.38542	34.06	42.96	49.07	55.31	59.15	64.33	68.81	72.24	77.49
9.5	0.39583	34.36	43.31	49.46	55.74	59.62	64.85	69.39	72.86	78.17
9.75	0.40625	34.65	43.65	49.84	56.17	60.08	65.36	69.95	73.46	78.84
10	0.41667	34.94	43.99	50.21	56.59	60.54	65.86	70.5	74.06	79.5
10.25	0.42708	35.22	44.31	50.58	56.99	60.98	66.36	71.05	74.64	80.14
10.5	0.43750	35.49	44.64	50.93	57.4	61.41	66.84	71.58	75.22	80.78
10.75	0.44792	35.76	44.95	51.28	57.79	61.84	67.32	72.11	75.79	81.41
11	0.45833	36.02	45.26	51.63	58.18	62.26	67.79	72.63	76.34	82.02
11.25	0.46875	36.28	45.56	51.96	58.56	62.67	68.25	73.14	76.89	82.63
11.5	0.47917	36.53	45.85	52.3	58.93	63.08	68.71	73.64	77.43	83.23
11.75	0.48958	36.78	46.14	52.62	59.3	63.48	69.16	74.14	77.97	83.82
12	0.50000	37.02	46.43	52.94	59.66	63.87	69.6	74.63	78.49	84.4
12.25	0.51042	37.26	46.71	53.25	60.02	64.26	70.04	75.11	79.02	84.97
12.5	0.52083	37.49	46.98	53.56	60.37	64.64	70.47	75.59	79.53	85.54
12.75	0.53125	37.72	47.25	53.87	60.72	65.02	70.9	76.07	80.04	86.09
13	0.54167	37.94	47.52	54.16	61.06	65.39	71.32	76.53	80.54	86.64
13.25	0.55208	38.16	47.78	54.46	61.39	65.76	71.73	77	81.04	87.18
13.5	0.56250	38.38	48.03	54.75	61.73	66.12	72.14	77.45	81.52	87.71
13.75	0.57292	38.59	48.29	55.03	62.05	66.47	72.55	77.9	82	88.24
14	0.58333	38.8	48.53	55.31	62.37	66.82	72.95	78.34	82.48	88.76
14.25	0.59375	39.01	48.78	55.59	62.69	67.17	73.34	78.78	82.95	89.26
14.5	0.60417	39.22	49.02	55.86	63	67.51	73.73	79.21	83.41	89.77
14.75	0.61458	39.42	49.26	56.13	63.31	67.85	74.11	79.63	83.86	90.26
15	0.62500	39.61	49.49	56.4	63.62	68.18	74.49	80.05	84.31	90.75
15.25	0.63542	39.81	49.73	56.66	63.92	68.51	74.86	80.46	84.76	91.24
15.5	0.64583	40	49.96	56.92	64.22	68.83	75.23	80.87	85.19	91.71
15.75	0.65625	40.19	50.18	57.18	64.51	69.15	75.59	81.28	85.63	92.18
16	0.66667	40.38	50.4	57.43	64.8	69.47	75.95	81.67	86.05	92.65
16.25	0.67708	40.57	50.62	57.68	65.08	69.78	76.31	82.07	86.47	93.1
16.5	0.68750	40.75	50.84	57.92	65.37	70.09	76.66	82.46	86.89	93.55
16.75	0.69792	40.93	51.06	58.17	65.65	70.4	77.01	82.84	87.3	94
17	0.70833	41.11	51.27	58.41	65.92	70.7	77.35	83.22	87.71	94.44
17.25	0.71875	41.28	51.48	58.64	66.19	71	77.69	83.6	88.11	94.88
17.5	0.72917	41.46	51.68	58.88	66.46	71.29	78.03	83.97	88.5	95.31

17.75	0.73958	41.63	51.89	59.11	66.73	71.58	78.36	84.33	88.89	95.73
18	0.75000	41.8	52.09	59.34	66.99	71.87	78.68	84.7	89.28	96.15
18.25	0.76042	41.96	52.29	59.56	67.25	72.15	79	85.05	89.66	96.56
18.5	0.77083	42.13	52.49	59.79	67.5	72.43	79.32	85.39	90.03	96.96
18.75	0.78125	42.29	52.68	60	67.75	72.71	79.63	85.74	90.39	97.36
19	0.79167	42.45	52.87	60.22	68	72.98	79.94	86.08	90.75	97.75
19.25	0.80208	42.61	53.07	60.44	68.25	73.25	80.24	86.41	91.11	98.14
19.5	0.81250	42.76	53.25	60.65	68.49	73.52	80.55	86.74	91.46	98.52
19.75	0.82292	42.92	53.44	60.86	68.73	73.78	80.84	87.07	91.81	98.9
20	0.83333	43.08	53.63	61.07	68.97	74.05	81.14	87.4	92.16	99.27
20.25	0.84375	43.23	53.81	61.28	69.21	74.31	81.43	87.72	92.5	99.64
20.5	0.85417	43.38	54	61.49	69.45	74.56	81.72	88.03	92.84	100.01
20.75	0.86458	43.53	54.18	61.69	69.68	74.82	82.01	88.35	93.17	100.37
21	0.87500	43.68	54.36	61.89	69.91	75.07	82.3	88.66	93.5	100.72
21.25	0.88542	43.83	54.54	62.1	70.14	75.32	82.58	88.97	93.83	101.08
21.5	0.89583	43.98	54.71	62.3	70.37	75.57	82.86	89.27	94.15	101.42
21.75	0.90625	44.12	54.89	62.49	70.59	75.82	83.13	89.57	94.47	101.77
22	0.91667	44.27	55.07	62.69	70.82	76.07	83.41	89.87	94.79	102.11
22.25	0.92708	44.41	55.24	62.89	71.04	76.31	83.68	90.17	95.1	102.45
22.5	0.93750	44.56	55.41	63.08	71.26	76.55	83.95	90.46	95.41	102.78
22.75	0.94792	44.7	55.58	63.27	71.48	76.79	84.22	90.75	95.72	103.11
23	0.95833	44.84	55.75	63.46	71.7	77.03	84.48	91.04	96.02	103.44
23.25	0.96875	44.98	55.92	63.65	71.91	77.26	84.75	91.33	96.32	103.76
23.5	0.97917	45.12	56.09	63.84	72.13	77.5	85.01	91.61	96.62	104.08
23.75	0.98958	45.26	56.26	64.03	72.34	77.73	85.27	91.89	96.91	104.39
24	1.00000	45.4	56.42	64.22	72.55	77.96	85.52	92.17	97.21	104.71
24.25	1.01042	45.54	56.59	64.41	72.77	78.19	85.78	92.44	97.5	105.02
24.5	1.02083	45.67	56.76	64.6	72.98	78.42	86.03	92.72	97.78	105.32
24.75	1.03125	45.81	56.92	64.78	73.19	78.65	86.28	92.99	98.07	105.62
25	1.04167	45.95	57.09	64.97	73.4	78.88	86.53	93.26	98.35	105.92
25.25	1.05208	46.08	57.25	65.15	73.61	79.1	86.78	93.52	98.63	106.22
25.5	1.06250	46.22	57.41	65.34	73.82	79.33	87.03	93.79	98.91	106.51
25.75	1.07292	46.35	57.58	65.52	74.02	79.55	87.27	94.05	99.18	106.8
26	1.08333	46.49	57.74	65.7	74.23	79.77	87.52	94.31	99.45	107.09
26.25	1.09375	46.62	57.9	65.89	74.43	79.99	87.76	94.57	99.72	107.38
26.5	1.10417	46.76	58.06	66.07	74.64	80.21	88	94.83	99.99	107.66

26.75	1.11458	46.89	58.22	66.25	74.84	80.43	88.24	95.08	100.26	107.94
27	1.12500	47.02	58.37	66.43	75.04	80.64	88.47	95.33	100.52	108.22
27.25	1.13542	47.15	58.53	66.6	75.24	80.86	88.71	95.58	100.78	108.49
27.5	1.14583	47.28	58.69	66.78	75.44	81.07	88.94	95.83	101.04	108.76
27.75	1.15625	47.41	58.85	66.96	75.64	81.29	89.17	96.08	101.29	109.03
28	1.16667	47.54	59	67.13	75.83	81.5	89.4	96.32	101.55	109.3
28.25	1.17708	47.67	59.16	67.31	76.03	81.71	89.63	96.56	101.8	109.56
28.5	1.18750	47.8	59.31	67.48	76.22	81.91	89.86	96.81	102.05	109.83
28.75	1.19792	47.93	59.46	67.65	76.42	82.12	90.08	97.04	102.3	110.09
29	1.20833	48.06	59.62	67.83	76.61	82.33	90.31	97.28	102.55	110.34
29.25	1.21875	48.18	59.77	68	76.8	82.53	90.53	97.52	102.79	110.6
29.5	1.22917	48.31	59.92	68.17	76.99	82.74	90.75	97.75	103.03	110.85
29.75	1.23958	48.43	60.07	68.34	77.18	82.94	90.97	97.98	103.27	111.1
30	1.25000	48.56	60.22	68.51	77.37	83.14	91.19	98.22	103.51	111.35
30.25	1.26042	48.68	60.37	68.68	77.56	83.34	91.41	98.44	103.75	111.6
30.5	1.27083	48.81	60.52	68.85	77.75	83.54	91.62	98.67	103.99	111.85
30.75	1.28125	48.93	60.67	69.01	77.94	83.74	91.84	98.9	104.22	112.09
31	1.29167	49.06	60.82	69.18	78.12	83.94	92.05	99.12	104.45	112.33
31.25	1.30208	49.18	60.97	69.35	78.31	84.14	92.26	99.35	104.68	112.57
31.5	1.31250	49.3	61.11	69.51	78.49	84.33	92.47	99.57	104.91	112.81
31.75	1.32292	49.43	61.26	69.68	78.67	84.53	92.68	99.79	105.14	113.04
32	1.33333	49.55	61.41	69.84	78.86	84.72	92.89	100.01	105.36	113.27
32.25	1.34375	49.67	61.55	70.01	79.04	84.91	93.1	100.22	105.59	113.51
32.5	1.35417	49.79	61.7	70.17	79.22	85.11	93.3	100.44	105.81	113.73
32.75	1.36458	49.91	61.84	70.33	79.4	85.3	93.51	100.65	106.03	113.96
33	1.37500	50.03	61.98	70.49	79.58	85.49	93.71	100.87	106.25	114.19
33.25	1.38542	50.15	62.13	70.65	79.76	85.68	93.91	101.08	106.46	114.41
33.5	1.39583	50.27	62.27	70.81	79.93	85.86	94.11	101.29	106.68	114.64
33.75	1.40625	50.39	62.41	70.97	80.11	86.05	94.31	101.5	106.9	114.86
34	1.41667	50.51	62.56	71.13	80.29	86.24	94.51	101.7	107.11	115.08
34.25	1.42708	50.63	62.7	71.29	80.46	86.42	94.71	101.91	107.32	115.29
34.5	1.43750	50.74	62.84	71.45	80.64	86.61	94.91	102.12	107.53	115.51
34.75	1.44792	50.86	62.98	71.61	80.81	86.79	95.1	102.32	107.74	115.72
35	1.45833	50.98	63.12	71.76	80.98	86.98	95.3	102.52	107.95	115.94
35.25	1.46875	51.09	63.26	71.92	81.16	87.16	95.49	102.72	108.15	116.15
35.5	1.47917	51.21	63.4	72.08	81.33	87.34	95.68	102.92	108.36	116.36

35.75	1.48958	51.33	63.54	72.23	81.5	87.52	95.88	103.12	108.56	116.57
36	1.50000	51.44	63.67	72.39	81.67	87.7	96.07	103.32	108.76	116.77
36.25	1.51042	51.56	63.81	72.54	81.84	87.88	96.26	103.52	108.96	116.98
36.5	1.52083	51.67	63.95	72.7	82.01	88.06	96.44	103.71	109.16	117.18
36.75	1.53125	51.79	64.09	72.85	82.18	88.23	96.63	103.91	109.36	117.39
37	1.54167	51.9	64.22	73	82.35	88.41	96.82	104.1	109.56	117.59
37.25	1.55208	52.02	64.36	73.15	82.51	88.59	97	104.29	109.76	117.79
37.5	1.56250	52.13	64.49	73.31	82.68	88.76	97.19	104.49	109.95	117.99
37.75	1.57292	52.24	64.63	73.46	82.85	88.94	97.37	104.68	110.14	118.18
38	1.58333	52.36	64.76	73.61	83.01	89.11	97.56	104.86	110.34	118.38
38.25	1.59375	52.47	64.9	73.76	83.18	89.28	97.74	105.05	110.53	118.57
38.5	1.60417	52.58	65.03	73.91	83.34	89.46	97.92	105.24	110.72	118.77
38.75	1.61458	52.69	65.17	74.06	83.5	89.63	98.1	105.43	110.91	118.96
39	1.62500	52.81	65.3	74.21	83.67	89.8	98.28	105.61	111.1	119.15
39.25	1.63542	52.92	65.43	74.36	83.83	89.97	98.46	105.79	111.28	119.34
39.5	1.64583	53.03	65.57	74.5	83.99	90.14	98.64	105.98	111.47	119.53
39.75	1.65625	53.14	65.7	74.65	84.15	90.31	98.81	106.16	111.65	119.71
40	1.66667	53.25	65.83	74.8	84.31	90.48	98.99	106.34	111.84	119.9
40.25	1.67708	53.36	65.96	74.95	84.48	90.64	99.17	106.52	112.02	120.09
40.5	1.68750	53.47	66.09	75.09	84.63	90.81	99.34	106.7	112.2	120.27
40.75	1.69792	53.58	66.22	75.24	84.79	90.98	99.51	106.88	112.38	120.45
41	1.70833	53.69	66.35	75.38	84.95	91.14	99.69	107.06	112.56	120.63
41.25	1.71875	53.8	66.48	75.53	85.11	91.31	99.86	107.23	112.74	120.81
41.5	1.72917	53.91	66.61	75.67	85.27	91.47	100.03	107.41	112.92	120.99
41.75	1.73958	54.02	66.74	75.82	85.43	91.63	100.2	107.58	113.09	121.17
42	1.75000	54.13	66.87	75.96	85.58	91.8	100.37	107.76	113.27	121.35
42.25	1.76042	54.23	67	76.1	85.74	91.96	100.54	107.93	113.44	121.52
42.5	1.77083	54.34	67.13	76.25	85.89	92.12	100.71	108.1	113.62	121.7
42.75	1.78125	54.45	67.26	76.39	86.05	92.28	100.88	108.27	113.79	121.87
43	1.79167	54.56	67.39	76.53	86.2	92.44	101.04	108.44	113.96	122.04
43.25	1.80208	54.67	67.51	76.67	86.36	92.6	101.21	108.61	114.13	122.22
43.5	1.81250	54.77	67.64	76.81	86.51	92.76	101.38	108.78	114.3	122.39
43.75	1.82292	54.88	67.77	76.96	86.66	92.92	101.54	108.95	114.47	122.56
44	1.83333	54.99	67.9	77.1	86.82	93.08	101.71	109.12	114.64	122.73
44.25	1.84375	55.09	68.02	77.24	86.97	93.24	101.87	109.28	114.81	122.89
44.5	1.85417	55.2	68.15	77.38	87.12	93.4	102.03	109.45	114.97	123.06

44.75	1.86458	55.3	68.27	77.52	87.27	93.55	102.19	109.61	115.14	123.23
45	1.87500	55.41	68.4	77.66	87.42	93.71	102.36	109.78	115.31	123.39
45.25	1.88542	55.52	68.52	77.79	87.57	93.86	102.52	109.94	115.47	123.55
45.5	1.89583	55.62	68.65	77.93	87.72	94.02	102.68	110.1	115.63	123.72
45.75	1.90625	55.73	68.77	78.07	87.87	94.17	102.84	110.26	115.79	123.88
46	1.91667	55.83	68.9	78.21	88.02	94.33	102.99	110.43	115.96	124.04
46.25	1.92708	55.94	69.02	78.35	88.17	94.48	103.15	110.59	116.12	124.2
46.5	1.93750	56.04	69.15	78.48	88.32	94.64	103.31	110.74	116.28	124.36
46.75	1.94792	56.14	69.27	78.62	88.46	94.79	103.47	110.9	116.44	124.52
47	1.95833	56.25	69.39	78.76	88.61	94.94	103.62	111.06	116.59	124.68
47.25	1.96875	56.35	69.52	78.89	88.76	95.09	103.78	111.22	116.75	124.83
47.5	1.97917	56.45	69.64	79.03	88.9	95.24	103.93	111.38	116.91	124.99
47.75	1.98958	56.56	69.76	79.16	89.05	95.39	104.09	111.53	117.07	125.15
48	2.00000	56.66	69.88	79.3	89.2	95.54	104.24	111.69	117.22	125.3
48.25	2.01042	56.76	70	79.43	89.33	95.68	104.38	111.83	117.36	125.43
48.5	2.02083	56.87	70.13	79.56	89.47	95.82	104.53	111.97	117.5	125.57
48.75	2.03125	56.97	70.25	79.69	89.61	95.97	104.67	112.11	117.63	125.7
49	2.04167	57.07	70.37	79.82	89.75	96.11	104.81	112.24	117.77	125.83
49.25	2.05208	57.17	70.49	79.95	89.88	96.24	104.95	112.38	117.9	125.96
49.5	2.06250	57.28	70.6	80.08	90.02	96.38	105.09	112.52	118.04	126.1
49.75	2.07292	57.38	70.72	80.21	90.16	96.52	105.22	112.66	118.17	126.23
50	2.08333	57.48	70.84	80.34	90.29	96.66	105.36	112.79	118.31	126.36
50.25	2.09375	57.58	70.96	80.47	90.43	96.8	105.5	112.93	118.44	126.49
50.5	2.10417	57.68	71.08	80.6	90.57	96.94	105.64	113.06	118.57	126.62
50.75	2.11458	57.78	71.2	80.72	90.7	97.07	105.77	113.2	118.71	126.74
51	2.12500	57.88	71.32	80.85	90.84	97.21	105.91	113.33	118.84	126.87
51.25	2.13542	57.98	71.43	80.98	90.97	97.35	106.05	113.47	118.97	127
51.5	2.14583	58.08	71.55	81.11	91.1	97.48	106.18	113.6	119.1	127.13
51.75	2.15625	58.18	71.67	81.23	91.24	97.62	106.32	113.73	119.23	127.25
52	2.16667	58.28	71.79	81.36	91.37	97.75	106.45	113.86	119.36	127.38
52.25	2.17708	58.38	71.9	81.49	91.5	97.89	106.59	114	119.49	127.5
52.5	2.18750	58.48	72.02	81.61	91.64	98.02	106.72	114.13	119.62	127.63
52.75	2.19792	58.58	72.14	81.74	91.77	98.16	106.85	114.26	119.75	127.75
53	2.20833	58.68	72.25	81.87	91.9	98.29	106.99	114.39	119.88	127.88
53.25	2.21875	58.78	72.37	81.99	92.03	98.42	107.12	114.52	120.01	128
53.5	2.22917	58.88	72.49	82.12	92.17	98.56	107.25	114.65	120.13	128.13

53.75	2.23958	58.98	72.6	82.24	92.3	98.69	107.39	114.78	120.26	128.25
54	2.25000	59.08	72.72	82.37	92.43	98.82	107.52	114.91	120.39	128.37
54.25	2.26042	59.18	72.83	82.49	92.56	98.96	107.65	115.04	120.51	128.49
54.5	2.27083	59.28	72.95	82.62	92.69	99.09	107.78	115.17	120.64	128.62
54.75	2.28125	59.37	73.06	82.74	92.82	99.22	107.91	115.3	120.77	128.74
55	2.29167	59.47	73.18	82.86	92.95	99.35	108.04	115.42	120.89	128.86
55.25	2.30208	59.57	73.29	82.99	93.08	99.48	108.17	115.55	121.02	128.98
55.5	2.31250	59.67	73.41	83.11	93.21	99.61	108.3	115.68	121.14	129.1
55.75	2.32292	59.77	73.52	83.23	93.34	99.74	108.43	115.81	121.26	129.22
56	2.33333	59.86	73.64	83.36	93.47	99.87	108.56	115.93	121.39	129.34
56.25	2.34375	59.96	73.75	83.48	93.6	100	108.69	116.06	121.51	129.46
56.5	2.35417	60.06	73.87	83.6	93.72	100.13	108.82	116.18	121.63	129.57
56.75	2.36458	60.16	73.98	83.72	93.85	100.26	108.95	116.31	121.76	129.69
57	2.37500	60.25	74.09	83.85	93.98	100.39	109.07	116.43	121.88	129.81
57.25	2.38542	60.35	74.21	83.97	94.11	100.52	109.2	116.56	122	129.93
57.5	2.39583	60.45	74.32	84.09	94.24	100.65	109.33	116.68	122.12	130.04
57.75	2.40625	60.54	74.43	84.21	94.36	100.78	109.45	116.81	122.24	130.16
58	2.41667	60.64	74.54	84.33	94.49	100.91	109.58	116.93	122.36	130.28
58.25	2.42708	60.74	74.66	84.45	94.62	101.03	109.71	117.05	122.49	130.39
58.5	2.43750	60.83	74.77	84.58	94.74	101.16	109.83	117.18	122.61	130.51
58.75	2.44792	60.93	74.88	84.7	94.87	101.29	109.96	117.3	122.73	130.63
59	2.45833	61.03	74.99	84.82	94.99	101.41	110.08	117.42	122.84	130.74
59.25	2.46875	61.12	75.11	84.94	95.12	101.54	110.21	117.54	122.96	130.85
59.5	2.47917	61.22	75.22	85.06	95.25	101.67	110.33	117.66	123.08	130.97
59.75	2.48958	61.31	75.33	85.18	95.37	101.79	110.46	117.79	123.2	131.08
60	2.50000	61.41	75.44	85.3	95.5	101.92	110.58	117.91	123.32	131.2
60.25	2.51042	61.5	75.55	85.42	95.62	102.05	110.71	118.03	123.44	131.31
60.5	2.52083	61.6	75.66	85.54	95.75	102.17	110.83	118.15	123.56	131.42
60.75	2.53125	61.69	75.78	85.66	95.87	102.3	110.95	118.27	123.67	131.54
61	2.54167	61.79	75.89	85.77	95.99	102.42	111.08	118.39	123.79	131.65
61.25	2.55208	61.88	76	85.89	96.12	102.55	111.2	118.51	123.91	131.76
61.5	2.56250	61.98	76.11	86.01	96.24	102.67	111.32	118.63	124.02	131.87
61.75	2.57292	62.07	76.22	86.13	96.37	102.79	111.45	118.75	124.14	131.99
62	2.58333	62.17	76.33	86.25	96.49	102.92	111.57	118.87	124.26	132.1
62.25	2.59375	62.26	76.44	86.37	96.61	103.04	111.69	118.99	124.37	132.21
62.5	2.60417	62.36	76.55	86.49	96.73	103.17	111.81	119.1	124.49	132.32

62.75	2.61458	62.45	76.66	86.6	96.86	103.29	111.93	119.22	124.6	132.43
63	2.62500	62.55	76.77	86.72	96.98	103.41	112.05	119.34	124.72	132.54
63.25	2.63542	62.64	76.88	86.84	97.1	103.54	112.17	119.46	124.83	132.65
63.5	2.64583	62.73	76.99	86.96	97.22	103.66	112.3	119.58	124.95	132.76
63.75	2.65625	62.83	77.1	87.07	97.35	103.78	112.42	119.69	125.06	132.87
64	2.66667	62.92	77.21	87.19	97.47	103.9	112.54	119.81	125.17	132.98
64.25	2.67708	63.02	77.32	87.31	97.59	104.02	112.66	119.93	125.29	133.09
64.5	2.68750	63.11	77.43	87.42	97.71	104.15	112.78	120.04	125.4	133.2
64.75	2.69792	63.2	77.53	87.54	97.83	104.27	112.9	120.16	125.52	133.3
65	2.70833	63.3	77.64	87.66	97.95	104.39	113.01	120.27	125.63	133.41
65.25	2.71875	63.39	77.75	87.77	98.07	104.51	113.13	120.39	125.74	133.52
65.5	2.72917	63.48	77.86	87.89	98.2	104.63	113.25	120.51	125.85	133.63
65.75	2.73958	63.58	77.97	88.01	98.32	104.75	113.37	120.62	125.97	133.74
66	2.75000	63.67	78.08	88.12	98.44	104.87	113.49	120.74	126.08	133.84
66.25	2.76042	63.76	78.19	88.24	98.56	104.99	113.61	120.85	126.19	133.95
66.5	2.77083	63.85	78.29	88.35	98.68	105.11	113.73	120.97	126.3	134.06
66.75	2.78125	63.95	78.4	88.47	98.8	105.23	113.84	121.08	126.41	134.16
67	2.79167	64.04	78.51	88.58	98.92	105.35	113.96	121.19	126.52	134.27
67.25	2.80208	64.13	78.62	88.7	99.04	105.47	114.08	121.31	126.63	134.38
67.5	2.81250	64.22	78.73	88.81	99.15	105.59	114.2	121.42	126.74	134.48
67.75	2.82292	64.32	78.83	88.93	99.27	105.71	114.31	121.54	126.86	134.59
68	2.83333	64.41	78.94	89.04	99.39	105.83	114.43	121.65	126.97	134.69
68.25	2.84375	64.5	79.05	89.16	99.51	105.95	114.55	121.76	127.08	134.8
68.5	2.85417	64.59	79.15	89.27	99.63	106.07	114.66	121.88	127.19	134.9
68.75	2.86458	64.69	79.26	89.39	99.75	106.19	114.78	121.99	127.3	135.01
69	2.87500	64.78	79.37	89.5	99.87	106.31	114.9	122.1	127.4	135.11
69.25	2.88542	64.87	79.48	89.61	99.99	106.43	115.01	122.21	127.51	135.22
69.5	2.89583	64.96	79.58	89.73	100.1	106.54	115.13	122.32	127.62	135.32
69.75	2.90625	65.05	79.69	89.84	100.22	106.66	115.24	122.44	127.73	135.43
70	2.91667	65.14	79.79	89.96	100.34	106.78	115.36	122.55	127.84	135.53
70.25	2.92708	65.24	79.9	90.07	100.46	106.9	115.47	122.66	127.95	135.63
70.5	2.93750	65.33	80.01	90.18	100.57	107.02	115.59	122.77	128.06	135.74
70.75	2.94792	65.42	80.11	90.3	100.69	107.13	115.7	122.88	128.17	135.84
71	2.95833	65.51	80.22	90.41	100.81	107.25	115.82	122.99	128.27	135.94
71.25	2.96875	65.6	80.33	90.52	100.93	107.37	115.93	123.11	128.38	136.05
71.5	2.97917	65.69	80.43	90.64	101.04	107.48	116.05	123.22	128.49	136.15

71.75	2.98958	65.78	80.54	90.75	101.16	107.6	116.16	123.33	128.6	136.25
72	3.00000	65.87	80.64	90.86	101.28	107.72	116.28	123.44	128.7	136.35
72.25	3.01042	65.96	80.75	90.97	101.39	107.83	116.39	123.55	128.81	136.46
72.5	3.02083	66.06	80.85	91.09	101.51	107.95	116.5	123.66	128.92	136.56
72.75	3.03125	66.15	80.96	91.2	101.63	108.07	116.62	123.77	129.02	136.66
73	3.04167	66.24	81.07	91.31	101.74	108.18	116.73	123.88	129.13	136.76
73.25	3.05208	66.33	81.17	91.42	101.86	108.3	116.84	123.99	129.24	136.86
73.5	3.06250	66.42	81.28	91.53	101.97	108.41	116.96	124.1	129.34	136.97
73.75	3.07292	66.51	81.38	91.65	102.09	108.53	117.07	124.2	129.45	137.07
74	3.08333	66.6	81.49	91.76	102.2	108.65	117.18	124.31	129.56	137.17
74.25	3.09375	66.69	81.59	91.87	102.32	108.76	117.3	124.42	129.66	137.27
74.5	3.10417	66.78	81.69	91.98	102.43	108.88	117.41	124.53	129.77	137.37
74.75	3.11458	66.87	81.8	92.09	102.55	108.99	117.52	124.64	129.87	137.47
75	3.12500	66.96	81.9	92.2	102.67	109.11	117.63	124.75	129.98	137.57
75.25	3.13542	67.05	82.01	92.32	102.78	109.22	117.74	124.86	130.08	137.67
75.5	3.14583	67.14	82.11	92.43	102.89	109.34	117.86	124.97	130.19	137.77
75.75	3.15625	67.23	82.22	92.54	103.01	109.45	117.97	125.07	130.29	137.87
76	3.16667	67.32	82.32	92.65	103.12	109.56	118.08	125.18	130.4	137.97
76.25	3.17708	67.41	82.43	92.76	103.24	109.68	118.19	125.29	130.5	138.07
76.5	3.18750	67.5	82.53	92.87	103.35	109.79	118.3	125.4	130.61	138.17
76.75	3.19792	67.59	82.63	92.98	103.47	109.91	118.41	125.5	130.71	138.27
77	3.20833	67.68	82.74	93.09	103.58	110.02	118.52	125.61	130.81	138.37
77.25	3.21875	67.77	82.84	93.2	103.7	110.14	118.64	125.72	130.92	138.47
77.5	3.22917	67.86	82.95	93.31	103.81	110.25	118.75	125.83	131.02	138.57
77.75	3.23958	67.95	83.05	93.42	103.92	110.36	118.86	125.93	131.13	138.67
78	3.25000	68.03	83.15	93.53	104.04	110.48	118.97	126.04	131.23	138.76
78.25	3.26042	68.12	83.26	93.64	104.15	110.59	119.08	126.15	131.33	138.86
78.5	3.27083	68.21	83.36	93.75	104.26	110.7	119.19	126.25	131.44	138.96
78.75	3.28125	68.3	83.46	93.86	104.38	110.82	119.3	126.36	131.54	139.06
79	3.29167	68.39	83.57	93.97	104.49	110.93	119.41	126.47	131.64	139.16
79.25	3.30208	68.48	83.67	94.08	104.6	111.04	119.52	126.57	131.75	139.26
79.5	3.31250	68.57	83.77	94.19	104.72	111.15	119.63	126.68	131.85	139.35
79.75	3.32292	68.66	83.88	94.3	104.83	111.27	119.74	126.78	131.95	139.45
80	3.33333	68.75	83.98	94.41	104.94	111.38	119.85	126.89	132.05	139.55
80.25	3.34375	68.84	84.08	94.52	105.05	111.49	119.96	126.99	132.16	139.65
80.5	3.35417	68.92	84.18	94.63	105.17	111.6	120.07	127.1	132.26	139.74

80.75	3.36458	69.01	84.29	94.74	105.28	111.72	120.18	127.21	132.36	139.84
81	3.37500	69.1	84.39	94.85	105.39	111.83	120.29	127.31	132.46	139.94
81.25	3.38542	69.19	84.49	94.96	105.5	111.94	120.39	127.42	132.56	140.04
81.5	3.39583	69.28	84.59	95.06	105.62	112.05	120.5	127.52	132.67	140.13
81.75	3.40625	69.37	84.7	95.17	105.73	112.16	120.61	127.63	132.77	140.23
82	3.41667	69.45	84.8	95.28	105.84	112.28	120.72	127.73	132.87	140.33
82.25	3.42708	69.54	84.9	95.39	105.95	112.39	120.83	127.84	132.97	140.42
82.5	3.43750	69.63	85	95.5	106.06	112.5	120.94	127.94	133.07	140.52
82.75	3.44792	69.72	85.11	95.61	106.18	112.61	121.05	128.05	133.17	140.62
83	3.45833	69.81	85.21	95.72	106.29	112.72	121.15	128.15	133.28	140.71
83.25	3.46875	69.9	85.31	95.82	106.4	112.83	121.26	128.25	133.38	140.81
83.5	3.47917	69.98	85.41	95.93	106.51	112.94	121.37	128.36	133.48	140.91
83.75	3.48958	70.07	85.51	96.04	106.62	113.05	121.48	128.46	133.58	141
84	3.50000	70.16	85.62	96.15	106.73	113.17	121.59	128.57	133.68	141.1
84.25	3.51042	70.25	85.72	96.26	106.85	113.28	121.69	128.67	133.78	141.19
84.5	3.52083	70.33	85.82	96.37	106.96	113.39	121.8	128.77	133.88	141.29
84.75	3.53125	70.42	85.92	96.47	107.07	113.5	121.91	128.88	133.98	141.39
85	3.54167	70.51	86.02	96.58	107.18	113.61	122.02	128.98	134.08	141.48
85.25	3.55208	70.6	86.12	96.69	107.29	113.72	122.13	129.09	134.18	141.58
85.5	3.56250	70.69	86.23	96.8	107.4	113.83	122.23	129.19	134.28	141.67
85.75	3.57292	70.77	86.33	96.9	107.51	113.94	122.34	129.29	134.38	141.77
86	3.58333	70.86	86.43	97.01	107.62	114.05	122.45	129.4	134.48	141.86
86.25	3.59375	70.95	86.53	97.12	107.73	114.16	122.55	129.5	134.58	141.96
86.5	3.60417	71.04	86.63	97.23	107.84	114.27	122.66	129.6	134.68	142.05
86.75	3.61458	71.12	86.73	97.33	107.95	114.38	122.77	129.71	134.78	142.15
87	3.62500	71.21	86.83	97.44	108.06	114.49	122.87	129.81	134.88	142.24
87.25	3.63542	71.3	86.93	97.55	108.17	114.6	122.98	129.91	134.98	142.34
87.5	3.64583	71.38	87.04	97.66	108.28	114.71	123.09	130.01	135.08	142.43
87.75	3.65625	71.47	87.14	97.76	108.39	114.82	123.19	130.12	135.18	142.53
88	3.66667	71.56	87.24	97.87	108.5	114.93	123.3	130.22	135.28	142.62
88.25	3.67708	71.65	87.34	97.98	108.61	115.04	123.41	130.32	135.38	142.72
88.5	3.68750	71.73	87.44	98.08	108.72	115.15	123.51	130.42	135.48	142.81
88.75	3.69792	71.82	87.54	98.19	108.83	115.26	123.62	130.53	135.58	142.9
89	3.70833	71.91	87.64	98.3	108.94	115.37	123.73	130.63	135.68	143
89.25	3.71875	71.99	87.74	98.4	109.05	115.48	123.83	130.73	135.78	143.09
89.5	3.72917	72.08	87.84	98.51	109.16	115.58	123.94	130.83	135.88	143.19

89.75	3.73958	72.17	87.94	98.62	109.27	115.69	124.04	130.94	135.97	143.28
90	3.75000	72.25	88.04	98.72	109.38	115.8	124.15	131.04	136.07	143.37
90.25	3.76042	72.34	88.14	98.83	109.49	115.91	124.26	131.14	136.17	143.47
90.5	3.77083	72.43	88.24	98.94	109.6	116.02	124.36	131.24	136.27	143.56
90.75	3.78125	72.51	88.34	99.04	109.71	116.13	124.47	131.34	136.37	143.66
91	3.79167	72.6	88.44	99.15	109.82	116.24	124.57	131.45	136.47	143.75
91.25	3.80208	72.69	88.54	99.26	109.93	116.35	124.68	131.55	136.57	143.84
91.5	3.81250	72.77	88.64	99.36	110.04	116.45	124.78	131.65	136.66	143.94
91.75	3.82292	72.86	88.75	99.47	110.15	116.56	124.89	131.75	136.76	144.03
92	3.83333	72.95	88.85	99.57	110.26	116.67	125	131.85	136.86	144.12
92.25	3.84375	73.03	88.95	99.68	110.36	116.78	125.1	131.95	136.96	144.22
92.5	3.85417	73.12	89.05	99.79	110.47	116.89	125.21	132.05	137.06	144.31
92.75	3.86458	73.21	89.15	99.89	110.58	117	125.31	132.16	137.16	144.4
93	3.87500	73.29	89.25	100	110.69	117.11	125.42	132.26	137.25	144.5
93.25	3.88542	73.38	89.35	100.1	110.8	117.21	125.52	132.36	137.35	144.59
93.5	3.89583	73.47	89.44	100.21	110.91	117.32	125.63	132.46	137.45	144.68
93.75	3.90625	73.55	89.54	100.31	111.02	117.43	125.73	132.56	137.55	144.78
94	3.91667	73.64	89.64	100.42	111.12	117.54	125.84	132.66	137.65	144.87
94.25	3.92708	73.72	89.74	100.53	111.23	117.65	125.94	132.76	137.74	144.96
94.5	3.93750	73.81	89.84	100.63	111.34	117.75	126.05	132.86	137.84	145.06
94.75	3.94792	73.9	89.94	100.74	111.45	117.86	126.15	132.96	137.94	145.15
95	3.95833	73.98	90.04	100.84	111.56	117.97	126.25	133.06	138.04	145.24
95.25	3.96875	74.07	90.14	100.95	111.67	118.08	126.36	133.17	138.13	145.33
95.5	3.97917	74.15	90.24	101.05	111.77	118.18	126.46	133.27	138.23	145.43
95.75	3.98958	74.24	90.34	101.16	111.88	118.29	126.57	133.37	138.33	145.52
96	4.00000	74.33	90.44	101.26	111.99	118.4	126.67	133.47	138.43	145.61

**WITHYHEDGE LANDFILL
PHASE 2 SURFACE WATER
MANAGEMENT SYSTEM**

**Design and Construction
Validation Report**

**Appendix 2
Calculated Rainfall
Volume per Hectare**

Report Number 2548r1v1d0425

Duration	Table 2 Cumulative Volume of Rain per Ha in m3 for Return Period								
	2 Year	5 Year	10 Year	20 Year	30 Year	50 Year	75 Year	100 Year	150 Year
0.25	73.8	105	126.8	146.7	158.3	172.5	184.4	193.2	205.5
0.5	100.6	144.8	174.8	203.8	221.1	243	260.8	273.7	292.3
0.75	118.7	171.1	206.9	243	264	290.6	312.6	328.7	351.9
1	133.2	191.8	232.7	273.3	297.2	328	353	371.3	398.1
1.25	147.8	209.7	252.7	295.2	320.2	352.4	378.7	398	426.1
1.5	161.3	225.4	269.6	313.2	338.8	371.9	399	418.9	448
1.75	173.9	239.4	284.4	328.8	354.9	388.5	416.3	436.7	466.5
2	185.5	252.2	297.7	342.7	369.1	403.1	431.5	452.3	482.7
2.25	195.6	263.9	310.2	356.1	383.1	417.9	446.8	468.2	499.5
2.5	205	274.7	321.8	368.5	396.1	431.6	461.1	483	515.1
2.75	213.7	284.8	332.6	380.1	408.2	444.4	474.5	496.8	529.7
3	221.9	294.1	342.7	390.9	419.6	456.4	487.1	509.9	543.6
3.25	229.6	302.9	352.2	401.1	430.3	467.8	499	522.2	556.8
3.5	236.8	311.2	361.1	410.7	440.4	478.6	510.4	534	569.4
3.75	243.7	319.1	369.6	419.8	450	488.9	521.2	545.3	581.5
4	250.2	326.5	377.7	428.5	459.2	498.7	531.6	556.1	593.1
4.25	256.5	333.6	385.3	436.8	467.8	508	541.5	566.5	604.2
4.5	262.4	340.2	392.5	444.7	476.1	516.9	551	576.5	615
4.75	268	346.6	399.5	452.2	484.1	525.5	560.2	586.2	625.4
5	273.4	352.7	406.1	459.5	491.7	533.8	569	595.5	635.5
5.25	278.6	358.6	412.5	466.5	499.1	541.7	577.6	604.5	645.2
5.5	283.6	364.2	418.6	473.2	506.2	549.5	585.9	613.3	654.7
5.75	288.4	369.6	424.6	479.7	513	556.9	594	621.8	664
6	293	374.8	430.3	486	519.7	564.2	601.8	630.1	673
6.25	297.4	379.8	435.8	492.1	526.1	571.2	609.4	638.2	681.9
6.5	301.7	384.7	441.1	498	532.4	578.1	616.9	646.2	690.6
6.75	305.8	389.4	446.3	503.7	538.5	584.7	624.1	653.9	699.1
7	309.7	393.9	451.3	509.2	544.4	591.2	631.2	661.4	707.4
7.25	313.6	398.4	456.1	514.6	550.1	597.5	638	668.8	715.5
7.5	317.3	402.6	460.9	519.8	555.8	603.7	644.8	676	723.5
7.75	320.9	406.8	465.5	524.9	561.2	609.7	651.4	683	731.3
8	324.4	410.9	469.9	529.9	566.6	615.6	657.8	689.9	738.9
8.25	327.8	414.8	474.3	534.7	571.8	621.4	664.1	696.7	746.4
8.5	331.1	418.7	478.6	539.5	576.9	627	670.3	703.3	753.7
8.75	334.4	422.4	482.7	544.1	581.9	632.5	676.3	709.8	760.9
9	337.5	426.1	486.8	548.7	586.8	638	682.3	716.2	768
9.25	340.6	429.6	490.7	553.1	591.5	643.3	688.1	722.4	774.9
9.5	343.6	433.1	494.6	557.4	596.2	648.5	693.9	728.6	781.7
9.75	346.5	436.5	498.4	561.7	600.8	653.6	699.5	734.6	788.4
10	349.4	439.9	502.1	565.9	605.4	658.6	705	740.6	795
10.25	352.2	443.1	505.8	569.9	609.8	663.6	710.5	746.4	801.4
10.5	354.9	446.4	509.3	574	614.1	668.4	715.8	752.2	807.8

10.75	357.6	449.5	512.8	577.9	618.4	673.2	721.1	757.9	814.1
11	360.2	452.6	516.3	581.8	622.6	677.9	726.3	763.4	820.2
11.25	362.8	455.6	519.6	585.6	626.7	682.5	731.4	768.9	826.3
11.5	365.3	458.5	523	589.3	630.8	687.1	736.4	774.3	832.3
11.75	367.8	461.4	526.2	593	634.8	691.6	741.4	779.7	838.2
12	370.2	464.3	529.4	596.6	638.7	696	746.3	784.9	844
12.25	372.6	467.1	532.5	600.2	642.6	700.4	751.1	790.2	849.7
12.5	374.9	469.8	535.6	603.7	646.4	704.7	755.9	795.3	855.4
12.75	377.2	472.5	538.7	607.2	650.2	709	760.7	800.4	860.9
13	379.4	475.2	541.6	610.6	653.9	713.2	765.3	805.4	866.4
13.25	381.6	477.8	544.6	613.9	657.6	717.3	770	810.4	871.8
13.5	383.8	480.3	547.5	617.3	661.2	721.4	774.5	815.2	877.1
13.75	385.9	482.9	550.3	620.5	664.7	725.5	779	820	882.4
14	388	485.3	553.1	623.7	668.2	729.5	783.4	824.8	887.6
14.25	390.1	487.8	555.9	626.9	671.7	733.4	787.8	829.5	892.6
14.5	392.2	490.2	558.6	630	675.1	737.3	792.1	834.1	897.7
14.75	394.2	492.6	561.3	633.1	678.5	741.1	796.3	838.6	902.6
15	396.1	494.9	564	636.2	681.8	744.9	800.5	843.1	907.5
15.25	398.1	497.3	566.6	639.2	685.1	748.6	804.6	847.6	912.4
15.5	400	499.6	569.2	642.2	688.3	752.3	808.7	851.9	917.1
15.75	401.9	501.8	571.8	645.1	691.5	755.9	812.8	856.3	921.8
16	403.8	504	574.3	648	694.7	759.5	816.7	860.5	926.5
16.25	405.7	506.2	576.8	650.8	697.8	763.1	820.7	864.7	931
16.5	407.5	508.4	579.2	653.7	700.9	766.6	824.6	868.9	935.5
16.75	409.3	510.6	581.7	656.5	704	770.1	828.4	873	940
17	411.1	512.7	584.1	659.2	707	773.5	832.2	877.1	944.4
17.25	412.8	514.8	586.4	661.9	710	776.9	836	881.1	948.8
17.5	414.6	516.8	588.8	664.6	712.9	780.3	839.7	885	953.1
17.75	416.3	518.9	591.1	667.3	715.8	783.6	843.3	888.9	957.3
18	418	520.9	593.4	669.9	718.7	786.8	847	892.8	961.5
18.25	419.6	522.9	595.6	672.5	721.5	790	850.5	896.6	965.6
18.5	421.3	524.9	597.9	675	724.3	793.2	853.9	900.3	969.6
18.75	422.9	526.8	600	677.5	727.1	796.3	857.4	903.9	973.6
19	424.5	528.7	602.2	680	729.8	799.4	860.8	907.5	977.5
19.25	426.1	530.7	604.4	682.5	732.5	802.4	864.1	911.1	981.4
19.5	427.6	532.5	606.5	684.9	735.2	805.5	867.4	914.6	985.2
19.75	429.2	534.4	608.6	687.3	737.8	808.4	870.7	918.1	989
20	430.8	536.3	610.7	689.7	740.5	811.4	874	921.6	992.7
20.25	432.3	538.1	612.8	692.1	743.1	814.3	877.2	925	996.4
20.5	433.8	540	614.9	694.5	745.6	817.2	880.3	928.4	1000.1
20.75	435.3	541.8	616.9	696.8	748.2	820.1	883.5	931.7	1003.7
21	436.8	543.6	618.9	699.1	750.7	823	886.6	935	1007.2
21.25	438.3	545.4	621	701.4	753.2	825.8	889.7	938.3	1010.8
21.5	439.8	547.1	623	703.7	755.7	828.6	892.7	941.5	1014.2

21.75	441.2	548.9	624.9	705.9	758.2	831.3	895.7	944.7	1017.7
22	442.7	550.7	626.9	708.2	760.7	834.1	898.7	947.9	1021.1
22.25	444.1	552.4	628.9	710.4	763.1	836.8	901.7	951	1024.5
22.5	445.6	554.1	630.8	712.6	765.5	839.5	904.6	954.1	1027.8
22.75	447	555.8	632.7	714.8	767.9	842.2	907.5	957.2	1031.1
23	448.4	557.5	634.6	717	770.3	844.8	910.4	960.2	1034.4
23.25	449.8	559.2	636.5	719.1	772.6	847.5	913.3	963.2	1037.6
23.5	451.2	560.9	638.4	721.3	775	850.1	916.1	966.2	1040.8
23.75	452.6	562.6	640.3	723.4	777.3	852.7	918.9	969.1	1043.9
24	454	564.2	642.2	725.5	779.6	855.2	921.7	972.1	1047.1
24.25	455.4	565.9	644.1	727.7	781.9	857.8	924.4	975	1050.2
24.5	456.7	567.6	646	729.8	784.2	860.3	927.2	977.8	1053.2
24.75	458.1	569.2	647.8	731.9	786.5	862.8	929.9	980.7	1056.2
25	459.5	570.9	649.7	734	788.8	865.3	932.6	983.5	1059.2
25.25	460.8	572.5	651.5	736.1	791	867.8	935.2	986.3	1062.2
25.5	462.2	574.1	653.4	738.2	793.3	870.3	937.9	989.1	1065.1
25.75	463.5	575.8	655.2	740.2	795.5	872.7	940.5	991.8	1068
26	464.9	577.4	657	742.3	797.7	875.2	943.1	994.5	1070.9
26.25	466.2	579	658.9	744.3	799.9	877.6	945.7	997.2	1073.8
26.5	467.6	580.6	660.7	746.4	802.1	880	948.3	999.9	1076.6
26.75	468.9	582.2	662.5	748.4	804.3	882.4	950.8	1002.6	1079.4
27	470.2	583.7	664.3	750.4	806.4	884.7	953.3	1005.2	1082.2
27.25	471.5	585.3	666	752.4	808.6	887.1	955.8	1007.8	1084.9
27.5	472.8	586.9	667.8	754.4	810.7	889.4	958.3	1010.4	1087.6
27.75	474.1	588.5	669.6	756.4	812.9	891.7	960.8	1012.9	1090.3
28	475.4	590	671.3	758.3	815	894	963.2	1015.5	1093
28.25	476.7	591.6	673.1	760.3	817.1	896.3	965.6	1018	1095.6
28.5	478	593.1	674.8	762.2	819.1	898.6	968.1	1020.5	1098.3
28.75	479.3	594.6	676.5	764.2	821.2	900.8	970.4	1023	1100.9
29	480.6	596.2	678.3	766.1	823.3	903.1	972.8	1025.5	1103.4
29.25	481.8	597.7	680	768	825.3	905.3	975.2	1027.9	1106
29.5	483.1	599.2	681.7	769.9	827.4	907.5	977.5	1030.3	1108.5
29.75	484.3	600.7	683.4	771.8	829.4	909.7	979.8	1032.7	1111
30	485.6	602.2	685.1	773.7	831.4	911.9	982.2	1035.1	1113.5
30.25	486.8	603.7	686.8	775.6	833.4	914.1	984.4	1037.5	1116
30.5	488.1	605.2	688.5	777.5	835.4	916.2	986.7	1039.9	1118.5
30.75	489.3	606.7	690.1	779.4	837.4	918.4	989	1042.2	1120.9
31	490.6	608.2	691.8	781.2	839.4	920.5	991.2	1044.5	1123.3
31.25	491.8	609.7	693.5	783.1	841.4	922.6	993.5	1046.8	1125.7
31.5	493	611.1	695.1	784.9	843.3	924.7	995.7	1049.1	1128.1
31.75	494.3	612.6	696.8	786.7	845.3	926.8	997.9	1051.4	1130.4
32	495.5	614.1	698.4	788.6	847.2	928.9	1000.1	1053.6	1132.7
32.25	496.7	615.5	700.1	790.4	849.1	931	1002.2	1055.9	1135.1
32.5	497.9	617	701.7	792.2	851.1	933	1004.4	1058.1	1137.3

32.75	499.1	618.4	703.3	794	853	935.1	1006.5	1060.3	1139.6
33	500.3	619.8	704.9	795.8	854.9	937.1	1008.7	1062.5	1141.9
33.25	501.5	621.3	706.5	797.6	856.8	939.1	1010.8	1064.6	1144.1
33.5	502.7	622.7	708.1	799.3	858.6	941.1	1012.9	1066.8	1146.4
33.75	503.9	624.1	709.7	801.1	860.5	943.1	1015	1069	1148.6
34	505.1	625.6	711.3	802.9	862.4	945.1	1017	1071.1	1150.8
34.25	506.3	627	712.9	804.6	864.2	947.1	1019.1	1073.2	1152.9
34.5	507.4	628.4	714.5	806.4	866.1	949.1	1021.2	1075.3	1155.1
34.75	508.6	629.8	716.1	808.1	867.9	951	1023.2	1077.4	1157.2
35	509.8	631.2	717.6	809.8	869.8	953	1025.2	1079.5	1159.4
35.25	510.9	632.6	719.2	811.6	871.6	954.9	1027.2	1081.5	1161.5
35.5	512.1	634	720.8	813.3	873.4	956.8	1029.2	1083.6	1163.6
35.75	513.3	635.4	722.3	815	875.2	958.8	1031.2	1085.6	1165.7
36	514.4	636.7	723.9	816.7	877	960.7	1033.2	1087.6	1167.7
36.25	515.6	638.1	725.4	818.4	878.8	962.6	1035.2	1089.6	1169.8
36.5	516.7	639.5	727	820.1	880.6	964.4	1037.1	1091.6	1171.8
36.75	517.9	640.9	728.5	821.8	882.3	966.3	1039.1	1093.6	1173.9
37	519	642.2	730	823.5	884.1	968.2	1041	1095.6	1175.9
37.25	520.2	643.6	731.5	825.1	885.9	970	1042.9	1097.6	1177.9
37.5	521.3	644.9	733.1	826.8	887.6	971.9	1044.9	1099.5	1179.9
37.75	522.4	646.3	734.6	828.5	889.4	973.7	1046.8	1101.4	1181.8
38	523.6	647.6	736.1	830.1	891.1	975.6	1048.6	1103.4	1183.8
38.25	524.7	649	737.6	831.8	892.8	977.4	1050.5	1105.3	1185.7
38.5	525.8	650.3	739.1	833.4	894.6	979.2	1052.4	1107.2	1187.7
38.75	526.9	651.7	740.6	835	896.3	981	1054.3	1109.1	1189.6
39	528.1	653	742.1	836.7	898	982.8	1056.1	1111	1191.5
39.25	529.2	654.3	743.6	838.3	899.7	984.6	1057.9	1112.8	1193.4
39.5	530.3	655.7	745	839.9	901.4	986.4	1059.8	1114.7	1195.3
39.75	531.4	657	746.5	841.5	903.1	988.1	1061.6	1116.5	1197.1
40	532.5	658.3	748	843.1	904.8	989.9	1063.4	1118.4	1199
40.25	533.6	659.6	749.5	844.8	906.4	991.7	1065.2	1120.2	1200.9
40.5	534.7	660.9	750.9	846.3	908.1	993.4	1067	1122	1202.7
40.75	535.8	662.2	752.4	847.9	909.8	995.1	1068.8	1123.8	1204.5
41	536.9	663.5	753.8	849.5	911.4	996.9	1070.6	1125.6	1206.3
41.25	538	664.8	755.3	851.1	913.1	998.6	1072.3	1127.4	1208.1
41.5	539.1	666.1	756.7	852.7	914.7	1000.3	1074.1	1129.2	1209.9
41.75	540.2	667.4	758.2	854.3	916.3	1002	1075.8	1130.9	1211.7
42	541.3	668.7	759.6	855.8	918	1003.7	1077.6	1132.7	1213.5
42.25	542.3	670	761	857.4	919.6	1005.4	1079.3	1134.4	1215.2
42.5	543.4	671.3	762.5	858.9	921.2	1007.1	1081	1136.2	1217
42.75	544.5	672.6	763.9	860.5	922.8	1008.8	1082.7	1137.9	1218.7
43	545.6	673.9	765.3	862	924.4	1010.4	1084.4	1139.6	1220.4
43.25	546.7	675.1	766.7	863.6	926	1012.1	1086.1	1141.3	1222.2
43.5	547.7	676.4	768.1	865.1	927.6	1013.8	1087.8	1143	1223.9

43.75	548.8	677.7	769.6	866.6	929.2	1015.4	1089.5	1144.7	1225.6
44	549.9	679	771	868.2	930.8	1017.1	1091.2	1146.4	1227.3
44.25	550.9	680.2	772.4	869.7	932.4	1018.7	1092.8	1148.1	1228.9
44.5	552	681.5	773.8	871.2	934	1020.3	1094.5	1149.7	1230.6
44.75	553	682.7	775.2	872.7	935.5	1021.9	1096.1	1151.4	1232.3
45	554.1	684	776.6	874.2	937.1	1023.6	1097.8	1153.1	1233.9
45.25	555.2	685.2	777.9	875.7	938.6	1025.2	1099.4	1154.7	1235.5
45.5	556.2	686.5	779.3	877.2	940.2	1026.8	1101	1156.3	1237.2
45.75	557.3	687.7	780.7	878.7	941.7	1028.4	1102.6	1157.9	1238.8
46	558.3	689	782.1	880.2	943.3	1029.9	1104.3	1159.6	1240.4
46.25	559.4	690.2	783.5	881.7	944.8	1031.5	1105.9	1161.2	1242
46.5	560.4	691.5	784.8	883.2	946.4	1033.1	1107.4	1162.8	1243.6
46.75	561.4	692.7	786.2	884.6	947.9	1034.7	1109	1164.4	1245.2
47	562.5	693.9	787.6	886.1	949.4	1036.2	1110.6	1165.9	1246.8
47.25	563.5	695.2	788.9	887.6	950.9	1037.8	1112.2	1167.5	1248.3
47.5	564.5	696.4	790.3	889	952.4	1039.3	1113.8	1169.1	1249.9
47.75	565.6	697.6	791.6	890.5	953.9	1040.9	1115.3	1170.7	1251.5
48	566.6	698.8	793	892	955.4	1042.4	1116.9	1172.2	1253
48.25	567.6	700	794.3	893.3	956.8	1043.8	1118.3	1173.6	1254.3
48.5	568.7	701.3	795.6	894.7	958.2	1045.3	1119.7	1175	1255.7
48.75	569.7	702.5	796.9	896.1	959.7	1046.7	1121.1	1176.3	1257
49	570.7	703.7	798.2	897.5	961.1	1048.1	1122.4	1177.7	1258.3
49.25	571.7	704.9	799.5	898.8	962.4	1049.5	1123.8	1179	1259.6
49.5	572.8	706	800.8	900.2	963.8	1050.9	1125.2	1180.4	1261
49.75	573.8	707.2	802.1	901.6	965.2	1052.2	1126.6	1181.7	1262.3
50	574.8	708.4	803.4	902.9	966.6	1053.6	1127.9	1183.1	1263.6
50.25	575.8	709.6	804.7	904.3	968	1055	1129.3	1184.4	1264.9
50.5	576.8	710.8	806	905.7	969.4	1056.4	1130.6	1185.7	1266.2
50.75	577.8	712	807.2	907	970.7	1057.7	1132	1187.1	1267.4
51	578.8	713.2	808.5	908.4	972.1	1059.1	1133.3	1188.4	1268.7
51.25	579.8	714.3	809.8	909.7	973.5	1060.5	1134.7	1189.7	1270
51.5	580.8	715.5	811.1	911	974.8	1061.8	1136	1191	1271.3
51.75	581.8	716.7	812.3	912.4	976.2	1063.2	1137.3	1192.3	1272.5
52	582.8	717.9	813.6	913.7	977.5	1064.5	1138.6	1193.6	1273.8
52.25	583.8	719	814.9	915	978.9	1065.9	1140	1194.9	1275
52.5	584.8	720.2	816.1	916.4	980.2	1067.2	1141.3	1196.2	1276.3
52.75	585.8	721.4	817.4	917.7	981.6	1068.5	1142.6	1197.5	1277.5
53	586.8	722.5	818.7	919	982.9	1069.9	1143.9	1198.8	1278.8
53.25	587.8	723.7	819.9	920.3	984.2	1071.2	1145.2	1200.1	1280
53.5	588.8	724.9	821.2	921.7	985.6	1072.5	1146.5	1201.3	1281.3
53.75	589.8	726	822.4	923	986.9	1073.9	1147.8	1202.6	1282.5
54	590.8	727.2	823.7	924.3	988.2	1075.2	1149.1	1203.9	1283.7
54.25	591.8	728.3	824.9	925.6	989.6	1076.5	1150.4	1205.1	1284.9
54.5	592.8	729.5	826.2	926.9	990.9	1077.8	1151.7	1206.4	1286.2

54.75	593.7	730.6	827.4	928.2	992.2	1079.1	1153	1207.7	1287.4
55	594.7	731.8	828.6	929.5	993.5	1080.4	1154.2	1208.9	1288.6
55.25	595.7	732.9	829.9	930.8	994.8	1081.7	1155.5	1210.2	1289.8
55.5	596.7	734.1	831.1	932.1	996.1	1083	1156.8	1211.4	1291
55.75	597.7	735.2	832.3	933.4	997.4	1084.3	1158.1	1212.6	1292.2
56	598.6	736.4	833.6	934.7	998.7	1085.6	1159.3	1213.9	1293.4
56.25	599.6	737.5	834.8	936	1000	1086.9	1160.6	1215.1	1294.6
56.5	600.6	738.7	836	937.2	1001.3	1088.2	1161.8	1216.3	1295.7
56.75	601.6	739.8	837.2	938.5	1002.6	1089.5	1163.1	1217.6	1296.9
57	602.5	740.9	838.5	939.8	1003.9	1090.7	1164.3	1218.8	1298.1
57.25	603.5	742.1	839.7	941.1	1005.2	1092	1165.6	1220	1299.3
57.5	604.5	743.2	840.9	942.4	1006.5	1093.3	1166.8	1221.2	1300.4
57.75	605.4	744.3	842.1	943.6	1007.8	1094.5	1168.1	1222.4	1301.6
58	606.4	745.4	843.3	944.9	1009.1	1095.8	1169.3	1223.6	1302.8
58.25	607.4	746.6	844.5	946.2	1010.3	1097.1	1170.5	1224.9	1303.9
58.5	608.3	747.7	845.8	947.4	1011.6	1098.3	1171.8	1226.1	1305.1
58.75	609.3	748.8	847	948.7	1012.9	1099.6	1173	1227.3	1306.3
59	610.3	749.9	848.2	949.9	1014.1	1100.8	1174.2	1228.4	1307.4
59.25	611.2	751.1	849.4	951.2	1015.4	1102.1	1175.4	1229.6	1308.5
59.5	612.2	752.2	850.6	952.5	1016.7	1103.3	1176.6	1230.8	1309.7
59.75	613.1	753.3	851.8	953.7	1017.9	1104.6	1177.9	1232	1310.8
60	614.1	754.4	853	955	1019.2	1105.8	1179.1	1233.2	1312
60.25	615	755.5	854.2	956.2	1020.5	1107.1	1180.3	1234.4	1313.1
60.5	616	756.6	855.4	957.5	1021.7	1108.3	1181.5	1235.6	1314.2
60.75	616.9	757.8	856.6	958.7	1023	1109.5	1182.7	1236.7	1315.4
61	617.9	758.9	857.7	959.9	1024.2	1110.8	1183.9	1237.9	1316.5
61.25	618.8	760	858.9	961.2	1025.5	1112	1185.1	1239.1	1317.6
61.5	619.8	761.1	860.1	962.4	1026.7	1113.2	1186.3	1240.2	1318.7
61.75	620.7	762.2	861.3	963.7	1027.9	1114.5	1187.5	1241.4	1319.9
62	621.7	763.3	862.5	964.9	1029.2	1115.7	1188.7	1242.6	1321
62.25	622.6	764.4	863.7	966.1	1030.4	1116.9	1189.9	1243.7	1322.1
62.5	623.6	765.5	864.9	967.3	1031.7	1118.1	1191	1244.9	1323.2
62.75	624.5	766.6	866	968.6	1032.9	1119.3	1192.2	1246	1324.3
63	625.5	767.7	867.2	969.8	1034.1	1120.5	1193.4	1247.2	1325.4
63.25	626.4	768.8	868.4	971	1035.4	1121.7	1194.6	1248.3	1326.5
63.5	627.3	769.9	869.6	972.2	1036.6	1123	1195.8	1249.5	1327.6
63.75	628.3	771	870.7	973.5	1037.8	1124.2	1196.9	1250.6	1328.7
64	629.2	772.1	871.9	974.7	1039	1125.4	1198.1	1251.7	1329.8
64.25	630.2	773.2	873.1	975.9	1040.2	1126.6	1199.3	1252.9	1330.9
64.5	631.1	774.3	874.2	977.1	1041.5	1127.8	1200.4	1254	1332
64.75	632	775.3	875.4	978.3	1042.7	1129	1201.6	1255.2	1333
65	633	776.4	876.6	979.5	1043.9	1130.1	1202.7	1256.3	1334.1
65.25	633.9	777.5	877.7	980.7	1045.1	1131.3	1203.9	1257.4	1335.2
65.5	634.8	778.6	878.9	982	1046.3	1132.5	1205.1	1258.5	1336.3

65.75	635.8	779.7	880.1	983.2	1047.5	1133.7	1206.2	1259.7	1337.4
66	636.7	780.8	881.2	984.4	1048.7	1134.9	1207.4	1260.8	1338.4
66.25	637.6	781.9	882.4	985.6	1049.9	1136.1	1208.5	1261.9	1339.5
66.5	638.5	782.9	883.5	986.8	1051.1	1137.3	1209.7	1263	1340.6
66.75	639.5	784	884.7	988	1052.3	1138.4	1210.8	1264.1	1341.6
67	640.4	785.1	885.8	989.2	1053.5	1139.6	1211.9	1265.2	1342.7
67.25	641.3	786.2	887	990.4	1054.7	1140.8	1213.1	1266.3	1343.8
67.5	642.2	787.3	888.1	991.5	1055.9	1142	1214.2	1267.4	1344.8
67.75	643.2	788.3	889.3	992.7	1057.1	1143.1	1215.4	1268.6	1345.9
68	644.1	789.4	890.4	993.9	1058.3	1144.3	1216.5	1269.7	1346.9
68.25	645	790.5	891.6	995.1	1059.5	1145.5	1217.6	1270.8	1348
68.5	645.9	791.5	892.7	996.3	1060.7	1146.6	1218.8	1271.9	1349
68.75	646.9	792.6	893.9	997.5	1061.9	1147.8	1219.9	1273	1350.1
69	647.8	793.7	895	998.7	1063.1	1149	1221	1274	1351.1
69.25	648.7	794.8	896.1	999.9	1064.3	1150.1	1222.1	1275.1	1352.2
69.5	649.6	795.8	897.3	1001	1065.4	1151.3	1223.2	1276.2	1353.2
69.75	650.5	796.9	898.4	1002.2	1066.6	1152.4	1224.4	1277.3	1354.3
70	651.4	797.9	899.6	1003.4	1067.8	1153.6	1225.5	1278.4	1355.3
70.25	652.4	799	900.7	1004.6	1069	1154.7	1226.6	1279.5	1356.3
70.5	653.3	800.1	901.8	1005.7	1070.2	1155.9	1227.7	1280.6	1357.4
70.75	654.2	801.1	903	1006.9	1071.3	1157	1228.8	1281.7	1358.4
71	655.1	802.2	904.1	1008.1	1072.5	1158.2	1229.9	1282.7	1359.4
71.25	656	803.3	905.2	1009.3	1073.7	1159.3	1231.1	1283.8	1360.5
71.5	656.9	804.3	906.4	1010.4	1074.8	1160.5	1232.2	1284.9	1361.5
71.75	657.8	805.4	907.5	1011.6	1076	1161.6	1233.3	1286	1362.5
72	658.7	806.4	908.6	1012.8	1077.2	1162.8	1234.4	1287	1363.5
72.25	659.6	807.5	909.7	1013.9	1078.3	1163.9	1235.5	1288.1	1364.6
72.5	660.6	808.5	910.9	1015.1	1079.5	1165	1236.6	1289.2	1365.6
72.75	661.5	809.6	912	1016.3	1080.7	1166.2	1237.7	1290.2	1366.6
73	662.4	810.7	913.1	1017.4	1081.8	1167.3	1238.8	1291.3	1367.6
73.25	663.3	811.7	914.2	1018.6	1083	1168.4	1239.9	1292.4	1368.6
73.5	664.2	812.8	915.3	1019.7	1084.1	1169.6	1241	1293.4	1369.7
73.75	665.1	813.8	916.5	1020.9	1085.3	1170.7	1242	1294.5	1370.7
74	666	814.9	917.6	1022	1086.5	1171.8	1243.1	1295.6	1371.7
74.25	666.9	815.9	918.7	1023.2	1087.6	1173	1244.2	1296.6	1372.7
74.5	667.8	816.9	919.8	1024.3	1088.8	1174.1	1245.3	1297.7	1373.7
74.75	668.7	818	920.9	1025.5	1089.9	1175.2	1246.4	1298.7	1374.7
75	669.6	819	922	1026.7	1091.1	1176.3	1247.5	1299.8	1375.7
75.25	670.5	820.1	923.2	1027.8	1092.2	1177.4	1248.6	1300.8	1376.7
75.5	671.4	821.1	924.3	1028.9	1093.4	1178.6	1249.7	1301.9	1377.7
75.75	672.3	822.2	925.4	1030.1	1094.5	1179.7	1250.7	1302.9	1378.7
76	673.2	823.2	926.5	1031.2	1095.6	1180.8	1251.8	1304	1379.7
76.25	674.1	824.3	927.6	1032.4	1096.8	1181.9	1252.9	1305	1380.7
76.5	675	825.3	928.7	1033.5	1097.9	1183	1254	1306.1	1381.7

76.75	675.9	826.3	929.8	1034.7	1099.1	1184.1	1255	1307.1	1382.7
77	676.8	827.4	930.9	1035.8	1100.2	1185.2	1256.1	1308.1	1383.7
77.25	677.7	828.4	932	1037	1101.4	1186.4	1257.2	1309.2	1384.7
77.5	678.6	829.5	933.1	1038.1	1102.5	1187.5	1258.3	1310.2	1385.7
77.75	679.5	830.5	934.2	1039.2	1103.6	1188.6	1259.3	1311.3	1386.7
78	680.3	831.5	935.3	1040.4	1104.8	1189.7	1260.4	1312.3	1387.6
78.25	681.2	832.6	936.4	1041.5	1105.9	1190.8	1261.5	1313.3	1388.6
78.5	682.1	833.6	937.5	1042.6	1107	1191.9	1262.5	1314.4	1389.6
78.75	683	834.6	938.6	1043.8	1108.2	1193	1263.6	1315.4	1390.6
79	683.9	835.7	939.7	1044.9	1109.3	1194.1	1264.7	1316.4	1391.6
79.25	684.8	836.7	940.8	1046	1110.4	1195.2	1265.7	1317.5	1392.6
79.5	685.7	837.7	941.9	1047.2	1111.5	1196.3	1266.8	1318.5	1393.5
79.75	686.6	838.8	943	1048.3	1112.7	1197.4	1267.8	1319.5	1394.5
80	687.5	839.8	944.1	1049.4	1113.8	1198.5	1268.9	1320.5	1395.5
80.25	688.4	840.8	945.2	1050.5	1114.9	1199.6	1269.9	1321.6	1396.5
80.5	689.2	841.8	946.3	1051.7	1116	1200.7	1271	1322.6	1397.4
80.75	690.1	842.9	947.4	1052.8	1117.2	1201.8	1272.1	1323.6	1398.4
81	691	843.9	948.5	1053.9	1118.3	1202.9	1273.1	1324.6	1399.4
81.25	691.9	844.9	949.6	1055	1119.4	1203.9	1274.2	1325.6	1400.4
81.5	692.8	845.9	950.6	1056.2	1120.5	1205	1275.2	1326.7	1401.3
81.75	693.7	847	951.7	1057.3	1121.6	1206.1	1276.3	1327.7	1402.3
82	694.5	848	952.8	1058.4	1122.8	1207.2	1277.3	1328.7	1403.3
82.25	695.4	849	953.9	1059.5	1123.9	1208.3	1278.4	1329.7	1404.2
82.5	696.3	850	955	1060.6	1125	1209.4	1279.4	1330.7	1405.2
82.75	697.2	851.1	956.1	1061.8	1126.1	1210.5	1280.5	1331.7	1406.2
83	698.1	852.1	957.2	1062.9	1127.2	1211.5	1281.5	1332.8	1407.1
83.25	699	853.1	958.2	1064	1128.3	1212.6	1282.5	1333.8	1408.1
83.5	699.8	854.1	959.3	1065.1	1129.4	1213.7	1283.6	1334.8	1409.1
83.75	700.7	855.1	960.4	1066.2	1130.5	1214.8	1284.6	1335.8	1410
84	701.6	856.2	961.5	1067.3	1131.7	1215.9	1285.7	1336.8	1411
84.25	702.5	857.2	962.6	1068.5	1132.8	1216.9	1286.7	1337.8	1411.9
84.5	703.3	858.2	963.7	1069.6	1133.9	1218	1287.7	1338.8	1412.9
84.75	704.2	859.2	964.7	1070.7	1135	1219.1	1288.8	1339.8	1413.9
85	705.1	860.2	965.8	1071.8	1136.1	1220.2	1289.8	1340.8	1414.8
85.25	706	861.2	966.9	1072.9	1137.2	1221.3	1290.9	1341.8	1415.8
85.5	706.9	862.3	968	1074	1138.3	1222.3	1291.9	1342.8	1416.7
85.75	707.7	863.3	969	1075.1	1139.4	1223.4	1292.9	1343.8	1417.7
86	708.6	864.3	970.1	1076.2	1140.5	1224.5	1294	1344.8	1418.6
86.25	709.5	865.3	971.2	1077.3	1141.6	1225.5	1295	1345.8	1419.6
86.5	710.4	866.3	972.3	1078.4	1142.7	1226.6	1296	1346.8	1420.5
86.75	711.2	867.3	973.3	1079.5	1143.8	1227.7	1297.1	1347.8	1421.5
87	712.1	868.3	974.4	1080.6	1144.9	1228.7	1298.1	1348.8	1422.4
87.25	713	869.3	975.5	1081.7	1146	1229.8	1299.1	1349.8	1423.4
87.5	713.8	870.4	976.6	1082.8	1147.1	1230.9	1300.1	1350.8	1424.3

87.75	714.7	871.4	977.6	1083.9	1148.2	1231.9	1301.2	1351.8	1425.3
88	715.6	872.4	978.7	1085	1149.3	1233	1302.2	1352.8	1426.2
88.25	716.5	873.4	979.8	1086.1	1150.4	1234.1	1303.2	1353.8	1427.2
88.5	717.3	874.4	980.8	1087.2	1151.5	1235.1	1304.2	1354.8	1428.1
88.75	718.2	875.4	981.9	1088.3	1152.6	1236.2	1305.3	1355.8	1429
89	719.1	876.4	983	1089.4	1153.7	1237.3	1306.3	1356.8	1430
89.25	719.9	877.4	984	1090.5	1154.8	1238.3	1307.3	1357.8	1430.9
89.5	720.8	878.4	985.1	1091.6	1155.8	1239.4	1308.3	1358.8	1431.9
89.75	721.7	879.4	986.2	1092.7	1156.9	1240.4	1309.4	1359.7	1432.8
90	722.5	880.4	987.2	1093.8	1158	1241.5	1310.4	1360.7	1433.7
90.25	723.4	881.4	988.3	1094.9	1159.1	1242.6	1311.4	1361.7	1434.7
90.5	724.3	882.4	989.4	1096	1160.2	1243.6	1312.4	1362.7	1435.6
90.75	725.1	883.4	990.4	1097.1	1161.3	1244.7	1313.4	1363.7	1436.6
91	726	884.4	991.5	1098.2	1162.4	1245.7	1314.5	1364.7	1437.5
91.25	726.9	885.4	992.6	1099.3	1163.5	1246.8	1315.5	1365.7	1438.4
91.5	727.7	886.4	993.6	1100.4	1164.5	1247.8	1316.5	1366.6	1439.4
91.75	728.6	887.5	994.7	1101.5	1165.6	1248.9	1317.5	1367.6	1440.3
92	729.5	888.5	995.7	1102.6	1166.7	1250	1318.5	1368.6	1441.2
92.25	730.3	889.5	996.8	1103.6	1167.8	1251	1319.5	1369.6	1442.2
92.5	731.2	890.5	997.9	1104.7	1168.9	1252.1	1320.5	1370.6	1443.1
92.75	732.1	891.5	998.9	1105.8	1170	1253.1	1321.6	1371.6	1444
93	732.9	892.5	1000	1106.9	1171.1	1254.2	1322.6	1372.5	1445
93.25	733.8	893.5	1001	1108	1172.1	1255.2	1323.6	1373.5	1445.9
93.5	734.7	894.4	1002.1	1109.1	1173.2	1256.3	1324.6	1374.5	1446.8
93.75	735.5	895.4	1003.1	1110.2	1174.3	1257.3	1325.6	1375.5	1447.8
94	736.4	896.4	1004.2	1111.2	1175.4	1258.4	1326.6	1376.5	1448.7
94.25	737.2	897.4	1005.3	1112.3	1176.5	1259.4	1327.6	1377.4	1449.6
94.5	738.1	898.4	1006.3	1113.4	1177.5	1260.5	1328.6	1378.4	1450.6
94.75	739	899.4	1007.4	1114.5	1178.6	1261.5	1329.6	1379.4	1451.5
95	739.8	900.4	1008.4	1115.6	1179.7	1262.5	1330.6	1380.4	1452.4
95.25	740.7	901.4	1009.5	1116.7	1180.8	1263.6	1331.7	1381.3	1453.3
95.5	741.5	902.4	1010.5	1117.7	1181.8	1264.6	1332.7	1382.3	1454.3
95.75	742.4	903.4	1011.6	1118.8	1182.9	1265.7	1333.7	1383.3	1455.2
96	743.3	904.4	1012.6	1119.9	1184	1266.7	1334.7	1384.3	1456.1

**WITHYHEDGE LANDFILL
PHASE 2 SURFACE WATER
MANAGEMENT SYSTEM**

**Design and Construction
Validation Report**

**Appendix 3
Calculated Rainfall
Volume per Hectare with
40% Uplift for Climate
Change**

Report Number 2548r1v1d0425

Table 3	Cumilative Volume of Rain (+40% Climate Change increase) per Ha in m3 for Return Period								
Duration	2 Year	5 Year	10 Year	20 Year	30 Year	50 Year	75 Year	100 Year	150 Year
0.25	103.32	147	177.52	205.38	221.62	241.5	258.16	270.48	287.7
0.5	140.84	202.72	244.72	285.32	309.54	340.2	365.12	383.18	409.22
0.75	166.18	239.54	289.66	340.2	369.6	406.84	437.64	460.18	492.66
1	186.48	268.52	325.78	382.62	416.08	459.2	494.2	519.82	557.34
1.25	206.92	293.58	353.78	413.28	448.28	493.36	530.18	557.2	596.54
1.5	225.82	315.56	377.44	438.48	474.32	520.66	558.6	586.46	627.2
1.75	243.46	335.16	398.16	460.32	496.86	543.9	582.82	611.38	653.1
2	259.7	353.08	416.78	479.78	516.74	564.34	604.1	633.22	675.78
2.25	273.84	369.46	434.28	498.54	536.34	585.06	625.52	655.48	699.3
2.5	287	384.58	450.52	515.9	554.54	604.24	645.54	676.2	721.14
2.75	299.18	398.72	465.64	532.14	571.48	622.16	664.3	695.52	741.58
3	310.66	411.74	479.78	547.26	587.44	638.96	681.94	713.86	761.04
3.25	321.44	424.06	493.08	561.54	602.42	654.92	698.6	731.08	779.52
3.5	331.52	435.68	505.54	574.98	616.56	670.04	714.56	747.6	797.16
3.75	341.18	446.74	517.44	587.72	630	684.46	729.68	763.42	814.1
4	350.28	457.1	528.78	599.9	642.88	698.18	744.24	778.54	830.34
4.25	359.1	467.04	539.42	611.52	654.92	711.2	758.1	793.1	845.88
4.5	367.36	476.28	549.5	622.58	666.54	723.66	771.4	807.1	861
4.75	375.2	485.24	559.3	633.08	677.74	735.7	784.28	820.68	875.56
5	382.76	493.78	568.54	643.3	688.38	747.32	796.6	833.7	889.7
5.25	390.04	502.04	577.5	653.1	698.74	758.38	808.64	846.3	903.28
5.5	397.04	509.88	586.04	662.48	708.68	769.3	820.26	858.62	916.58
5.75	403.76	517.44	594.44	671.58	718.2	779.66	831.6	870.52	929.6
6	410.2	524.72	602.42	680.4	727.58	789.88	842.52	882.14	942.2
6.25	416.36	531.72	610.12	688.94	736.54	799.68	853.16	893.48	954.66
6.5	422.38	538.58	617.54	697.2	745.36	809.34	863.66	904.68	966.84
6.75	428.12	545.16	624.82	705.18	753.9	818.58	873.74	915.46	978.74
7	433.58	551.46	631.82	712.88	762.16	827.68	883.68	925.96	990.36
7.25	439.04	557.76	638.54	720.44	770.14	836.5	893.2	936.32	1001.7
7.5	444.22	563.64	645.26	727.72	778.12	845.18	902.72	946.4	1012.9
7.75	449.26	569.52	651.7	734.86	785.68	853.58	911.96	956.2	1023.82
8	454.16	575.26	657.86	741.86	793.24	861.84	920.92	965.86	1034.46
8.25	458.92	580.72	664.02	748.58	800.52	869.96	929.74	975.38	1044.96
8.5	463.54	586.18	670.04	755.3	807.66	877.8	938.42	984.62	1055.18
8.75	468.16	591.36	675.78	761.74	814.66	885.5	946.82	993.72	1065.26
9	472.5	596.54	681.52	768.18	821.52	893.2	955.22	1002.68	1075.2
9.25	476.84	601.44	686.98	774.34	828.1	900.62	963.34	1011.36	1084.86
9.5	481.04	606.34	692.44	780.36	834.68	907.9	971.46	1020.04	1094.38
9.75	485.1	611.1	697.76	786.38	841.12	915.04	979.3	1028.44	1103.76
10	489.16	615.86	702.94	792.26	847.56	922.04	987	1036.84	1113
10.25	493.08	620.34	708.12	797.86	853.72	929.04	994.7	1044.96	1121.96
10.5	496.86	624.96	713.02	803.6	859.74	935.76	1002.12	1053.08	1130.92

10.75	500.64	629.3	717.92	809.06	865.76	942.48	1009.54	1061.06	1139.74
11	504.28	633.64	722.82	814.52	871.64	949.06	1016.82	1068.76	1148.28
11.25	507.92	637.84	727.44	819.84	877.38	955.5	1023.96	1076.46	1156.82
11.5	511.42	641.9	732.2	825.02	883.12	961.94	1030.96	1084.02	1165.22
11.75	514.92	645.96	736.68	830.2	888.72	968.24	1037.96	1091.58	1173.48
12	518.28	650.02	741.16	835.24	894.18	974.4	1044.82	1098.86	1181.6
12.25	521.64	653.94	745.5	840.28	899.64	980.56	1051.54	1106.28	1189.58
12.5	524.86	657.72	749.84	845.18	904.96	986.58	1058.26	1113.42	1197.56
12.75	528.08	661.5	754.18	850.08	910.28	992.6	1064.98	1120.56	1205.26
13	531.16	665.28	758.24	854.84	915.46	998.48	1071.42	1127.56	1212.96
13.25	534.24	668.92	762.44	859.46	920.64	1004.22	1078	1134.56	1220.52
13.5	537.32	672.42	766.5	864.22	925.68	1009.96	1084.3	1141.28	1227.94
13.75	540.26	676.06	770.42	868.7	930.58	1015.7	1090.6	1148	1235.36
14	543.2	679.42	774.34	873.18	935.48	1021.3	1096.76	1154.72	1242.64
14.25	546.14	682.92	778.26	877.66	940.38	1026.76	1102.92	1161.3	1249.64
14.5	549.08	686.28	782.04	882	945.14	1032.22	1108.94	1167.74	1256.78
14.75	551.88	689.64	785.82	886.34	949.9	1037.54	1114.82	1174.04	1263.64
15	554.54	692.86	789.6	890.68	954.52	1042.86	1120.7	1180.34	1270.5
15.25	557.34	696.22	793.24	894.88	959.14	1048.04	1126.44	1186.64	1277.36
15.5	560	699.44	796.88	899.08	963.62	1053.22	1132.18	1192.66	1283.94
15.75	562.66	702.52	800.52	903.14	968.1	1058.26	1137.92	1198.82	1290.52
16	565.32	705.6	804.02	907.2	972.58	1063.3	1143.38	1204.7	1297.1
16.25	567.98	708.68	807.52	911.12	976.92	1068.34	1148.98	1210.58	1303.4
16.5	570.5	711.76	810.88	915.18	981.26	1073.24	1154.44	1216.46	1309.7
16.75	573.02	714.84	814.38	919.1	985.6	1078.14	1159.76	1222.2	1316
17	575.54	717.78	817.74	922.88	989.8	1082.9	1165.08	1227.94	1322.16
17.25	577.92	720.72	820.96	926.66	994	1087.66	1170.4	1233.54	1328.32
17.5	580.44	723.52	824.32	930.44	998.06	1092.42	1175.58	1239	1334.34
17.75	582.82	726.46	827.54	934.22	1002.12	1097.04	1180.62	1244.46	1340.22
18	585.2	729.26	830.76	937.86	1006.18	1101.52	1185.8	1249.92	1346.1
18.25	587.44	732.06	833.84	941.5	1010.1	1106	1190.7	1255.24	1351.84
18.5	589.82	734.86	837.06	945	1014.02	1110.48	1195.46	1260.42	1357.44
18.75	592.06	737.52	840	948.5	1017.94	1114.82	1200.36	1265.46	1363.04
19	594.3	740.18	843.08	952	1021.72	1119.16	1205.12	1270.5	1368.5
19.25	596.54	742.98	846.16	955.5	1025.5	1123.36	1209.74	1275.54	1373.96
19.5	598.64	745.5	849.1	958.86	1029.28	1127.7	1214.36	1280.44	1379.28
19.75	600.88	748.16	852.04	962.22	1032.92	1131.76	1218.98	1285.34	1384.6
20	603.12	750.82	854.98	965.58	1036.7	1135.96	1223.6	1290.24	1389.78
20.25	605.22	753.34	857.92	968.94	1040.34	1140.02	1228.08	1295	1394.96
20.5	607.32	756	860.86	972.3	1043.84	1144.08	1232.42	1299.76	1400.14
20.75	609.42	758.52	863.66	975.52	1047.48	1148.14	1236.9	1304.38	1405.18
21	611.52	761.04	866.46	978.74	1050.98	1152.2	1241.24	1309	1410.08
21.25	613.62	763.56	869.4	981.96	1054.48	1156.12	1245.58	1313.62	1415.12
21.5	615.72	765.94	872.2	985.18	1057.98	1160.04	1249.78	1318.1	1419.88

21.75	617.68	768.46	874.86	988.26	1061.48	1163.82	1253.98	1322.58	1424.78
22	619.78	770.98	877.66	991.48	1064.98	1167.74	1258.18	1327.06	1429.54
22.25	621.74	773.36	880.46	994.56	1068.34	1171.52	1262.38	1331.4	1434.3
22.5	623.84	775.74	883.12	997.64	1071.7	1175.3	1266.44	1335.74	1438.92
22.75	625.8	778.12	885.78	1000.72	1075.06	1179.08	1270.5	1340.08	1443.54
23	627.76	780.5	888.44	1003.8	1078.42	1182.72	1274.56	1344.28	1448.16
23.25	629.72	782.88	891.1	1006.74	1081.64	1186.5	1278.62	1348.48	1452.64
23.5	631.68	785.26	893.76	1009.82	1085	1190.14	1282.54	1352.68	1457.12
23.75	633.64	787.64	896.42	1012.76	1088.22	1193.78	1286.46	1356.74	1461.46
24	635.6	789.88	899.08	1015.7	1091.44	1197.28	1290.38	1360.94	1465.94
24.25	637.56	792.26	901.74	1018.78	1094.66	1200.92	1294.16	1365	1470.28
24.5	639.38	794.64	904.4	1021.72	1097.88	1204.42	1298.08	1368.92	1474.48
24.75	641.34	796.88	906.92	1024.66	1101.1	1207.92	1301.86	1372.98	1478.68
25	643.3	799.26	909.58	1027.6	1104.32	1211.42	1305.64	1376.9	1482.88
25.25	645.12	801.5	912.1	1030.54	1107.4	1214.92	1309.28	1380.82	1487.08
25.5	647.08	803.74	914.76	1033.48	1110.62	1218.42	1313.06	1384.74	1491.14
25.75	648.9	806.12	917.28	1036.28	1113.7	1221.78	1316.7	1388.52	1495.2
26	650.86	808.36	919.8	1039.22	1116.78	1225.28	1320.34	1392.3	1499.26
26.25	652.68	810.6	922.46	1042.02	1119.86	1228.64	1323.98	1396.08	1503.32
26.5	654.64	812.84	924.98	1044.96	1122.94	1232	1327.62	1399.86	1507.24
26.75	656.46	815.08	927.5	1047.76	1126.02	1235.36	1331.12	1403.64	1511.16
27	658.28	817.18	930.02	1050.56	1128.96	1238.58	1334.62	1407.28	1515.08
27.25	660.1	819.42	932.4	1053.36	1132.04	1241.94	1338.12	1410.92	1518.86
27.5	661.92	821.66	934.92	1056.16	1134.98	1245.16	1341.62	1414.56	1522.64
27.75	663.74	823.9	937.44	1058.96	1138.06	1248.38	1345.12	1418.06	1526.42
28	665.56	826	939.82	1061.62	1141	1251.6	1348.48	1421.7	1530.2
28.25	667.38	828.24	942.34	1064.42	1143.94	1254.82	1351.84	1425.2	1533.84
28.5	669.2	830.34	944.72	1067.08	1146.74	1258.04	1355.34	1428.7	1537.62
28.75	671.02	832.44	947.1	1069.88	1149.68	1261.12	1358.56	1432.2	1541.26
29	672.84	834.68	949.62	1072.54	1152.62	1264.34	1361.92	1435.7	1544.76
29.25	674.52	836.78	952	1075.2	1155.42	1267.42	1365.28	1439.06	1548.4
29.5	676.34	838.88	954.38	1077.86	1158.36	1270.5	1368.5	1442.42	1551.9
29.75	678.02	840.98	956.76	1080.52	1161.16	1273.58	1371.72	1445.78	1555.4
30	679.84	843.08	959.14	1083.18	1163.96	1276.66	1375.08	1449.14	1558.9
30.25	681.52	845.18	961.52	1085.84	1166.76	1279.74	1378.16	1452.5	1562.4
30.5	683.34	847.28	963.9	1088.5	1169.56	1282.68	1381.38	1455.86	1565.9
30.75	685.02	849.38	966.14	1091.16	1172.36	1285.76	1384.6	1459.08	1569.26
31	686.84	851.48	968.52	1093.68	1175.16	1288.7	1387.68	1462.3	1572.62
31.25	688.52	853.58	970.9	1096.34	1177.96	1291.64	1390.9	1465.52	1575.98
31.5	690.2	855.54	973.14	1098.86	1180.62	1294.58	1393.98	1468.74	1579.34
31.75	692.02	857.64	975.52	1101.38	1183.42	1297.52	1397.06	1471.96	1582.56
32	693.7	859.74	977.76	1104.04	1186.08	1300.46	1400.14	1475.04	1585.78
32.25	695.38	861.7	980.14	1106.56	1188.74	1303.4	1403.08	1478.26	1589.14
32.5	697.06	863.8	982.38	1109.08	1191.54	1306.2	1406.16	1481.34	1592.22

32.75	698.74	865.76	984.62	1111.6	1194.2	1309.14	1409.1	1484.42	1595.44
33	700.42	867.72	986.86	1114.12	1196.86	1311.94	1412.18	1487.5	1598.66
33.25	702.1	869.82	989.1	1116.64	1199.52	1314.74	1415.12	1490.44	1601.74
33.5	703.78	871.78	991.34	1119.02	1202.04	1317.54	1418.06	1493.52	1604.96
33.75	705.46	873.74	993.58	1121.54	1204.7	1320.34	1421	1496.6	1608.04
34	707.14	875.84	995.82	1124.06	1207.36	1323.14	1423.8	1499.54	1611.12
34.25	708.82	877.8	998.06	1126.44	1209.88	1325.94	1426.74	1502.48	1614.06
34.5	710.36	879.76	1000.3	1128.96	1212.54	1328.74	1429.68	1505.42	1617.14
34.75	712.04	881.72	1002.54	1131.34	1215.06	1331.4	1432.48	1508.36	1620.08
35	713.72	883.68	1004.64	1133.72	1217.72	1334.2	1435.28	1511.3	1623.16
35.25	715.26	885.64	1006.88	1136.24	1220.24	1336.86	1438.08	1514.1	1626.1
35.5	716.94	887.6	1009.12	1138.62	1222.76	1339.52	1440.88	1517.04	1629.04
35.75	718.62	889.56	1011.22	1141	1225.28	1342.32	1443.68	1519.84	1631.98
36	720.16	891.38	1013.46	1143.38	1227.8	1344.98	1446.48	1522.64	1634.78
36.25	721.84	893.34	1015.56	1145.76	1230.32	1347.64	1449.28	1525.44	1637.72
36.5	723.38	895.3	1017.8	1148.14	1232.84	1350.16	1451.94	1528.24	1640.52
36.75	725.06	897.26	1019.9	1150.52	1235.22	1352.82	1454.74	1531.04	1643.46
37	726.6	899.08	1022	1152.9	1237.74	1355.48	1457.4	1533.84	1646.26
37.25	728.28	901.04	1024.1	1155.14	1240.26	1358	1460.06	1536.64	1649.06
37.5	729.82	902.86	1026.34	1157.52	1242.64	1360.66	1462.86	1539.3	1651.86
37.75	731.36	904.82	1028.44	1159.9	1245.16	1363.18	1465.52	1541.96	1654.52
38	733.04	906.64	1030.54	1162.14	1247.54	1365.84	1468.04	1544.76	1657.32
38.25	734.58	908.6	1032.64	1164.52	1249.92	1368.36	1470.7	1547.42	1659.98
38.5	736.12	910.42	1034.74	1166.76	1252.44	1370.88	1473.36	1550.08	1662.78
38.75	737.66	912.38	1036.84	1169	1254.82	1373.4	1476.02	1552.74	1665.44
39	739.34	914.2	1038.94	1171.38	1257.2	1375.92	1478.54	1555.4	1668.1
39.25	740.88	916.02	1041.04	1173.62	1259.58	1378.44	1481.06	1557.92	1670.76
39.5	742.42	917.98	1043	1175.86	1261.96	1380.96	1483.72	1560.58	1673.42
39.75	743.96	919.8	1045.1	1178.1	1264.34	1383.34	1486.24	1563.1	1675.94
40	745.5	921.62	1047.2	1180.34	1266.72	1385.86	1488.76	1565.76	1678.6
40.25	747.04	923.44	1049.3	1182.72	1268.96	1388.38	1491.28	1568.28	1681.26
40.5	748.58	925.26	1051.26	1184.82	1271.34	1390.76	1493.8	1570.8	1683.78
40.75	750.12	927.08	1053.36	1187.06	1273.72	1393.14	1496.32	1573.32	1686.3
41	751.66	928.9	1055.32	1189.3	1275.96	1395.66	1498.84	1575.84	1688.82
41.25	753.2	930.72	1057.42	1191.54	1278.34	1398.04	1501.22	1578.36	1691.34
41.5	754.74	932.54	1059.38	1193.78	1280.58	1400.42	1503.74	1580.88	1693.86
41.75	756.28	934.36	1061.48	1196.02	1282.82	1402.8	1506.12	1583.26	1696.38
42	757.82	936.18	1063.44	1198.12	1285.2	1405.18	1508.64	1585.78	1698.9
42.25	759.22	938	1065.4	1200.36	1287.44	1407.56	1511.02	1588.16	1701.28
42.5	760.76	939.82	1067.5	1202.46	1289.68	1409.94	1513.4	1590.68	1703.8
42.75	762.3	941.64	1069.46	1204.7	1291.92	1412.32	1515.78	1593.06	1706.18
43	763.84	943.46	1071.42	1206.8	1294.16	1414.56	1518.16	1595.44	1708.56
43.25	765.38	945.14	1073.38	1209.04	1296.4	1416.94	1520.54	1597.82	1711.08
43.5	766.78	946.96	1075.34	1211.14	1298.64	1419.32	1522.92	1600.2	1713.46

43.75	768.32	948.78	1077.44	1213.24	1300.88	1421.56	1525.3	1602.58	1715.84
44	769.86	950.6	1079.4	1215.48	1303.12	1423.94	1527.68	1604.96	1718.22
44.25	771.26	952.28	1081.36	1217.58	1305.36	1426.18	1529.92	1607.34	1720.46
44.5	772.8	954.1	1083.32	1219.68	1307.6	1428.42	1532.3	1609.58	1722.84
44.75	774.2	955.78	1085.28	1221.78	1309.7	1430.66	1534.54	1611.96	1725.22
45	775.74	957.6	1087.24	1223.88	1311.94	1433.04	1536.92	1614.34	1727.46
45.25	777.28	959.28	1089.06	1225.98	1314.04	1435.28	1539.16	1616.58	1729.7
45.5	778.68	961.1	1091.02	1228.08	1316.28	1437.52	1541.4	1618.82	1732.08
45.75	780.22	962.78	1092.98	1230.18	1318.38	1439.76	1543.64	1621.06	1734.32
46	781.62	964.6	1094.94	1232.28	1320.62	1441.86	1546.02	1623.44	1736.56
46.25	783.16	966.28	1096.9	1234.38	1322.72	1444.1	1548.26	1625.68	1738.8
46.5	784.56	968.1	1098.72	1236.48	1324.96	1446.34	1550.36	1627.92	1741.04
46.75	785.96	969.78	1100.68	1238.44	1327.06	1448.58	1552.6	1630.16	1743.28
47	787.5	971.46	1102.64	1240.54	1329.16	1450.68	1554.84	1632.26	1745.52
47.25	788.9	973.28	1104.46	1242.64	1331.26	1452.92	1557.08	1634.5	1747.62
47.5	790.3	974.96	1106.42	1244.6	1333.36	1455.02	1559.32	1636.74	1749.86
47.75	791.84	976.64	1108.24	1246.7	1335.46	1457.26	1561.42	1638.98	1752.1
48	793.24	978.32	1110.2	1248.8	1337.56	1459.36	1563.66	1641.08	1754.2
48.25	794.64	980	1112.02	1250.62	1339.52	1461.32	1565.62	1643.04	1756.02
48.5	796.18	981.82	1113.84	1252.58	1341.48	1463.42	1567.58	1645	1757.98
48.75	797.58	983.5	1115.66	1254.54	1343.58	1465.38	1569.54	1646.82	1759.8
49	798.98	985.18	1117.48	1256.5	1345.54	1467.34	1571.36	1648.78	1761.62
49.25	800.38	986.86	1119.3	1258.32	1347.36	1469.3	1573.32	1650.6	1763.44
49.5	801.92	988.4	1121.12	1260.28	1349.32	1471.26	1575.28	1652.56	1765.4
49.75	803.32	990.08	1122.94	1262.24	1351.28	1473.08	1577.24	1654.38	1767.22
50	804.72	991.76	1124.76	1264.06	1353.24	1475.04	1579.06	1656.34	1769.04
50.25	806.12	993.44	1126.58	1266.02	1355.2	1477	1581.02	1658.16	1770.86
50.5	807.52	995.12	1128.4	1267.98	1357.16	1478.96	1582.84	1659.98	1772.68
50.75	808.92	996.8	1130.08	1269.8	1358.98	1480.78	1584.8	1661.94	1774.36
51	810.32	998.48	1131.9	1271.76	1360.94	1482.74	1586.62	1663.76	1776.18
51.25	811.72	1000.02	1133.72	1273.58	1362.9	1484.7	1588.58	1665.58	1778
51.5	813.12	1001.7	1135.54	1275.4	1364.72	1486.52	1590.4	1667.4	1779.82
51.75	814.52	1003.38	1137.22	1277.36	1366.68	1488.48	1592.22	1669.22	1781.5
52	815.92	1005.06	1139.04	1279.18	1368.5	1490.3	1594.04	1671.04	1783.32
52.25	817.32	1006.6	1140.86	1281	1370.46	1492.26	1596	1672.86	1785
52.5	818.72	1008.28	1142.54	1282.96	1372.28	1494.08	1597.82	1674.68	1786.82
52.75	820.12	1009.96	1144.36	1284.78	1374.24	1495.9	1599.64	1676.5	1788.5
53	821.52	1011.5	1146.18	1286.6	1376.06	1497.86	1601.46	1678.32	1790.32
53.25	822.92	1013.18	1147.86	1288.42	1377.88	1499.68	1603.28	1680.14	1792
53.5	824.32	1014.86	1149.68	1290.38	1379.84	1501.5	1605.1	1681.82	1793.82
53.75	825.72	1016.4	1151.36	1292.2	1381.66	1503.46	1606.92	1683.64	1795.5
54	827.12	1018.08	1153.18	1294.02	1383.48	1505.28	1608.74	1685.46	1797.18
54.25	828.52	1019.62	1154.86	1295.84	1385.44	1507.1	1610.56	1687.14	1798.86
54.5	829.92	1021.3	1156.68	1297.66	1387.26	1508.92	1612.38	1688.96	1800.68

54.75	831.18	1022.84	1158.36	1299.48	1389.08	1510.74	1614.2	1690.78	1802.36
55	832.58	1024.52	1160.04	1301.3	1390.9	1512.56	1615.88	1692.46	1804.04
55.25	833.98	1026.06	1161.86	1303.12	1392.72	1514.38	1617.7	1694.28	1805.72
55.5	835.38	1027.74	1163.54	1304.94	1394.54	1516.2	1619.52	1695.96	1807.4
55.75	836.78	1029.28	1165.22	1306.76	1396.36	1518.02	1621.34	1697.64	1809.08
56	838.04	1030.96	1167.04	1308.58	1398.18	1519.84	1623.02	1699.46	1810.76
56.25	839.44	1032.5	1168.72	1310.4	1400	1521.66	1624.84	1701.14	1812.44
56.5	840.84	1034.18	1170.4	1312.08	1401.82	1523.48	1626.52	1702.82	1813.98
56.75	842.24	1035.72	1172.08	1313.9	1403.64	1525.3	1628.34	1704.64	1815.66
57	843.5	1037.26	1173.9	1315.72	1405.46	1526.98	1630.02	1706.32	1817.34
57.25	844.9	1038.94	1175.58	1317.54	1407.28	1528.8	1631.84	1708	1819.02
57.5	846.3	1040.48	1177.26	1319.36	1409.1	1530.62	1633.52	1709.68	1820.56
57.75	847.56	1042.02	1178.94	1321.04	1410.92	1532.3	1635.34	1711.36	1822.24
58	848.96	1043.56	1180.62	1322.86	1412.74	1534.12	1637.02	1713.04	1823.92
58.25	850.36	1045.24	1182.3	1324.68	1414.42	1535.94	1638.7	1714.86	1825.46
58.5	851.62	1046.78	1184.12	1326.36	1416.24	1537.62	1640.52	1716.54	1827.14
58.75	853.02	1048.32	1185.8	1328.18	1418.06	1539.44	1642.2	1718.22	1828.82
59	854.42	1049.86	1187.48	1329.86	1419.74	1541.12	1643.88	1719.76	1830.36
59.25	855.68	1051.54	1189.16	1331.68	1421.56	1542.94	1645.56	1721.44	1831.9
59.5	857.08	1053.08	1190.84	1333.5	1423.38	1544.62	1647.24	1723.12	1833.58
59.75	858.34	1054.62	1192.52	1335.18	1425.06	1546.44	1649.06	1724.8	1835.12
60	859.74	1056.16	1194.2	1337	1426.88	1548.12	1650.74	1726.48	1836.8
60.25	861	1057.7	1195.88	1338.68	1428.7	1549.94	1652.42	1728.16	1838.34
60.5	862.4	1059.24	1197.56	1340.5	1430.38	1551.62	1654.1	1729.84	1839.88
60.75	863.66	1060.92	1199.24	1342.18	1432.2	1553.3	1655.78	1731.38	1841.56
61	865.06	1062.46	1200.78	1343.86	1433.88	1555.12	1657.46	1733.06	1843.1
61.25	866.32	1064	1202.46	1345.68	1435.7	1556.8	1659.14	1734.74	1844.64
61.5	867.72	1065.54	1204.14	1347.36	1437.38	1558.48	1660.82	1736.28	1846.18
61.75	868.98	1067.08	1205.82	1349.18	1439.06	1560.3	1662.5	1737.96	1847.86
62	870.38	1068.62	1207.5	1350.86	1440.88	1561.98	1664.18	1739.64	1849.4
62.25	871.64	1070.16	1209.18	1352.54	1442.56	1563.66	1665.86	1741.18	1850.94
62.5	873.04	1071.7	1210.86	1354.22	1444.38	1565.34	1667.4	1742.86	1852.48
62.75	874.3	1073.24	1212.4	1356.04	1446.06	1567.02	1669.08	1744.4	1854.02
63	875.7	1074.78	1214.08	1357.72	1447.74	1568.7	1670.76	1746.08	1855.56
63.25	876.96	1076.32	1215.76	1359.4	1449.56	1570.38	1672.44	1747.62	1857.1
63.5	878.22	1077.86	1217.44	1361.08	1451.24	1572.2	1674.12	1749.3	1858.64
63.75	879.62	1079.4	1218.98	1362.9	1452.92	1573.88	1675.66	1750.84	1860.18
64	880.88	1080.94	1220.66	1364.58	1454.6	1575.56	1677.34	1752.38	1861.72
64.25	882.28	1082.48	1222.34	1366.26	1456.28	1577.24	1679.02	1754.06	1863.26
64.5	883.54	1084.02	1223.88	1367.94	1458.1	1578.92	1680.56	1755.6	1864.8
64.75	884.8	1085.42	1225.56	1369.62	1459.78	1580.6	1682.24	1757.28	1866.2
65	886.2	1086.96	1227.24	1371.3	1461.46	1582.14	1683.78	1758.82	1867.74
65.25	887.46	1088.5	1228.78	1372.98	1463.14	1583.82	1685.46	1760.36	1869.28
65.5	888.72	1090.04	1230.46	1374.8	1464.82	1585.5	1687.14	1761.9	1870.82

65.75	890.12	1091.58	1232.14	1376.48	1466.5	1587.18	1688.68	1763.58	1872.36
66	891.38	1093.12	1233.68	1378.16	1468.18	1588.86	1690.36	1765.12	1873.76
66.25	892.64	1094.66	1235.36	1379.84	1469.86	1590.54	1691.9	1766.66	1875.3
66.5	893.9	1096.06	1236.9	1381.52	1471.54	1592.22	1693.58	1768.2	1876.84
66.75	895.3	1097.6	1238.58	1383.2	1473.22	1593.76	1695.12	1769.74	1878.24
67	896.56	1099.14	1240.12	1384.88	1474.9	1595.44	1696.66	1771.28	1879.78
67.25	897.82	1100.68	1241.8	1386.56	1476.58	1597.12	1698.34	1772.82	1881.32
67.5	899.08	1102.22	1243.34	1388.1	1478.26	1598.8	1699.88	1774.36	1882.72
67.75	900.48	1103.62	1245.02	1389.78	1479.94	1600.34	1701.56	1776.04	1884.26
68	901.74	1105.16	1246.56	1391.46	1481.62	1602.02	1703.1	1777.58	1885.66
68.25	903	1106.7	1248.24	1393.14	1483.3	1603.7	1704.64	1779.12	1887.2
68.5	904.26	1108.1	1249.78	1394.82	1484.98	1605.24	1706.32	1780.66	1888.6
68.75	905.66	1109.64	1251.46	1396.5	1486.66	1606.92	1707.86	1782.2	1890.14
69	906.92	1111.18	1253	1398.18	1488.34	1608.6	1709.4	1783.6	1891.54
69.25	908.18	1112.72	1254.54	1399.86	1490.02	1610.14	1710.94	1785.14	1893.08
69.5	909.44	1114.12	1256.22	1401.4	1491.56	1611.82	1712.48	1786.68	1894.48
69.75	910.7	1115.66	1257.76	1403.08	1493.24	1613.36	1714.16	1788.22	1896.02
70	911.96	1117.06	1259.44	1404.76	1494.92	1615.04	1715.7	1789.76	1897.42
70.25	913.36	1118.6	1260.98	1406.44	1496.6	1616.58	1717.24	1791.3	1898.82
70.5	914.62	1120.14	1262.52	1407.98	1498.28	1618.26	1718.78	1792.84	1900.36
70.75	915.88	1121.54	1264.2	1409.66	1499.82	1619.8	1720.32	1794.38	1901.76
71	917.14	1123.08	1265.74	1411.34	1501.5	1621.48	1721.86	1795.78	1903.16
71.25	918.4	1124.62	1267.28	1413.02	1503.18	1623.02	1723.54	1797.32	1904.7
71.5	919.66	1126.02	1268.96	1414.56	1504.72	1624.7	1725.08	1798.86	1906.1
71.75	920.92	1127.56	1270.5	1416.24	1506.4	1626.24	1726.62	1800.4	1907.5
72	922.18	1128.96	1272.04	1417.92	1508.08	1627.92	1728.16	1801.8	1908.9
72.25	923.44	1130.5	1273.58	1419.46	1509.62	1629.46	1729.7	1803.34	1910.44
72.5	924.84	1131.9	1275.26	1421.14	1511.3	1631	1731.24	1804.88	1911.84
72.75	926.1	1133.44	1276.8	1422.82	1512.98	1632.68	1732.78	1806.28	1913.24
73	927.36	1134.98	1278.34	1424.36	1514.52	1634.22	1734.32	1807.82	1914.64
73.25	928.62	1136.38	1279.88	1426.04	1516.2	1635.76	1735.86	1809.36	1916.04
73.5	929.88	1137.92	1281.42	1427.58	1517.74	1637.44	1737.4	1810.76	1917.58
73.75	931.14	1139.32	1283.1	1429.26	1519.42	1638.98	1738.8	1812.3	1918.98
74	932.4	1140.86	1284.64	1430.8	1521.1	1640.52	1740.34	1813.84	1920.38
74.25	933.66	1142.26	1286.18	1432.48	1522.64	1642.2	1741.88	1815.24	1921.78
74.5	934.92	1143.66	1287.72	1434.02	1524.32	1643.74	1743.42	1816.78	1923.18
74.75	936.18	1145.2	1289.26	1435.7	1525.86	1645.28	1744.96	1818.18	1924.58
75	937.44	1146.6	1290.8	1437.38	1527.54	1646.82	1746.5	1819.72	1925.98
75.25	938.7	1148.14	1292.48	1438.92	1529.08	1648.36	1748.04	1821.12	1927.38
75.5	939.96	1149.54	1294.02	1440.46	1530.76	1650.04	1749.58	1822.66	1928.78
75.75	941.22	1151.08	1295.56	1442.14	1532.3	1651.58	1750.98	1824.06	1930.18
76	942.48	1152.48	1297.1	1443.68	1533.84	1653.12	1752.52	1825.6	1931.58
76.25	943.74	1154.02	1298.64	1445.36	1535.52	1654.66	1754.06	1827	1932.98
76.5	945	1155.42	1300.18	1446.9	1537.06	1656.2	1755.6	1828.54	1934.38

76.75	946.26	1156.82	1301.72	1448.58	1538.74	1657.74	1757	1829.94	1935.78
77	947.52	1158.36	1303.26	1450.12	1540.28	1659.28	1758.54	1831.34	1937.18
77.25	948.78	1159.76	1304.8	1451.8	1541.96	1660.96	1760.08	1832.88	1938.58
77.5	950.04	1161.3	1306.34	1453.34	1543.5	1662.5	1761.62	1834.28	1939.98
77.75	951.3	1162.7	1307.88	1454.88	1545.04	1664.04	1763.02	1835.82	1941.38
78	952.42	1164.1	1309.42	1456.56	1546.72	1665.58	1764.56	1837.22	1942.64
78.25	953.68	1165.64	1310.96	1458.1	1548.26	1667.12	1766.1	1838.62	1944.04
78.5	954.94	1167.04	1312.5	1459.64	1549.8	1668.66	1767.5	1840.16	1945.44
78.75	956.2	1168.44	1314.04	1461.32	1551.48	1670.2	1769.04	1841.56	1946.84
79	957.46	1169.98	1315.58	1462.86	1553.02	1671.74	1770.58	1842.96	1948.24
79.25	958.72	1171.38	1317.12	1464.4	1554.56	1673.28	1771.98	1844.5	1949.64
79.5	959.98	1172.78	1318.66	1466.08	1556.1	1674.82	1773.52	1845.9	1950.9
79.75	961.24	1174.32	1320.2	1467.62	1557.78	1676.36	1774.92	1847.3	1952.3
80	962.5	1175.72	1321.74	1469.16	1559.32	1677.9	1776.46	1848.7	1953.7
80.25	963.76	1177.12	1323.28	1470.7	1560.86	1679.44	1777.86	1850.24	1955.1
80.5	964.88	1178.52	1324.82	1472.38	1562.4	1680.98	1779.4	1851.64	1956.36
80.75	966.14	1180.06	1326.36	1473.92	1564.08	1682.52	1780.94	1853.04	1957.76
81	967.4	1181.46	1327.9	1475.46	1565.62	1684.06	1782.34	1854.44	1959.16
81.25	968.66	1182.86	1329.44	1477	1567.16	1685.46	1783.88	1855.84	1960.56
81.5	969.92	1184.26	1330.84	1478.68	1568.7	1687	1785.28	1857.38	1961.82
81.75	971.18	1185.8	1332.38	1480.22	1570.24	1688.54	1786.82	1858.78	1963.22
82	972.3	1187.2	1333.92	1481.76	1571.92	1690.08	1788.22	1860.18	1964.62
82.25	973.56	1188.6	1335.46	1483.3	1573.46	1691.62	1789.76	1861.58	1965.88
82.5	974.82	1190	1337	1484.84	1575	1693.16	1791.16	1862.98	1967.28
82.75	976.08	1191.54	1338.54	1486.52	1576.54	1694.7	1792.7	1864.38	1968.68
83	977.34	1192.94	1340.08	1488.06	1578.08	1696.1	1794.1	1865.92	1969.94
83.25	978.6	1194.34	1341.48	1489.6	1579.62	1697.64	1795.5	1867.32	1971.34
83.5	979.72	1195.74	1343.02	1491.14	1581.16	1699.18	1797.04	1868.72	1972.74
83.75	980.98	1197.14	1344.56	1492.68	1582.7	1700.72	1798.44	1870.12	1974
84	982.24	1198.68	1346.1	1494.22	1584.38	1702.26	1799.98	1871.52	1975.4
84.25	983.5	1200.08	1347.64	1495.9	1585.92	1703.66	1801.38	1872.92	1976.66
84.5	984.62	1201.48	1349.18	1497.44	1587.46	1705.2	1802.78	1874.32	1978.06
84.75	985.88	1202.88	1350.58	1498.98	1589	1706.74	1804.32	1875.72	1979.46
85	987.14	1204.28	1352.12	1500.52	1590.54	1708.28	1805.72	1877.12	1980.72
85.25	988.4	1205.68	1353.66	1502.06	1592.08	1709.82	1807.26	1878.52	1982.12
85.5	989.66	1207.22	1355.2	1503.6	1593.62	1711.22	1808.66	1879.92	1983.38
85.75	990.78	1208.62	1356.6	1505.14	1595.16	1712.76	1810.06	1881.32	1984.78
86	992.04	1210.02	1358.14	1506.68	1596.7	1714.3	1811.6	1882.72	1986.04
86.25	993.3	1211.42	1359.68	1508.22	1598.24	1715.7	1813	1884.12	1987.44
86.5	994.56	1212.82	1361.22	1509.76	1599.78	1717.24	1814.4	1885.52	1988.7
86.75	995.68	1214.22	1362.62	1511.3	1601.32	1718.78	1815.94	1886.92	1990.1
87	996.94	1215.62	1364.16	1512.84	1602.86	1720.18	1817.34	1888.32	1991.36
87.25	998.2	1217.02	1365.7	1514.38	1604.4	1721.72	1818.74	1889.72	1992.76
87.5	999.32	1218.56	1367.24	1515.92	1605.94	1723.26	1820.14	1891.12	1994.02

87.75	1000.58	1219.96	1368.64	1517.46	1607.48	1724.66	1821.68	1892.52	1995.42
88	1001.84	1221.36	1370.18	1519	1609.02	1726.2	1823.08	1893.92	1996.68
88.25	1003.1	1222.76	1371.72	1520.54	1610.56	1727.74	1824.48	1895.32	1998.08
88.5	1004.22	1224.16	1373.12	1522.08	1612.1	1729.14	1825.88	1896.72	1999.34
88.75	1005.48	1225.56	1374.66	1523.62	1613.64	1730.68	1827.42	1898.12	2000.6
89	1006.74	1226.96	1376.2	1525.16	1615.18	1732.22	1828.82	1899.52	2002
89.25	1007.86	1228.36	1377.6	1526.7	1616.72	1733.62	1830.22	1900.92	2003.26
89.5	1009.12	1229.76	1379.14	1528.24	1618.12	1735.16	1831.62	1902.32	2004.66
89.75	1010.38	1231.16	1380.68	1529.78	1619.66	1736.56	1833.16	1903.58	2005.92
90	1011.5	1232.56	1382.08	1531.32	1621.2	1738.1	1834.56	1904.98	2007.18
90.25	1012.76	1233.96	1383.62	1532.86	1622.74	1739.64	1835.96	1906.38	2008.58
90.5	1014.02	1235.36	1385.16	1534.4	1624.28	1741.04	1837.36	1907.78	2009.84
90.75	1015.14	1236.76	1386.56	1535.94	1625.82	1742.58	1838.76	1909.18	2011.24
91	1016.4	1238.16	1388.1	1537.48	1627.36	1743.98	1840.3	1910.58	2012.5
91.25	1017.66	1239.56	1389.64	1539.02	1628.9	1745.52	1841.7	1911.98	2013.76
91.5	1018.78	1240.96	1391.04	1540.56	1630.3	1746.92	1843.1	1913.24	2015.16
91.75	1020.04	1242.5	1392.58	1542.1	1631.84	1748.46	1844.5	1914.64	2016.42
92	1021.3	1243.9	1393.98	1543.64	1633.38	1750	1845.9	1916.04	2017.68
92.25	1022.42	1245.3	1395.52	1545.04	1634.92	1751.4	1847.3	1917.44	2019.08
92.5	1023.68	1246.7	1397.06	1546.58	1636.46	1752.94	1848.7	1918.84	2020.34
92.75	1024.94	1248.1	1398.46	1548.12	1638	1754.34	1850.24	1920.24	2021.6
93	1026.06	1249.5	1400	1549.66	1639.54	1755.88	1851.64	1921.5	2023
93.25	1027.32	1250.9	1401.4	1551.2	1640.94	1757.28	1853.04	1922.9	2024.26
93.5	1028.58	1252.16	1402.94	1552.74	1642.48	1758.82	1854.44	1924.3	2025.52
93.75	1029.7	1253.56	1404.34	1554.28	1644.02	1760.22	1855.84	1925.7	2026.92
94	1030.96	1254.96	1405.88	1555.68	1645.56	1761.76	1857.24	1927.1	2028.18
94.25	1032.08	1256.36	1407.42	1557.22	1647.1	1763.16	1858.64	1928.36	2029.44
94.5	1033.34	1257.76	1408.82	1558.76	1648.5	1764.7	1860.04	1929.76	2030.84
94.75	1034.6	1259.16	1410.36	1560.3	1650.04	1766.1	1861.44	1931.16	2032.1
95	1035.72	1260.56	1411.76	1561.84	1651.58	1767.5	1862.84	1932.56	2033.36
95.25	1036.98	1261.96	1413.3	1563.38	1653.12	1769.04	1864.38	1933.82	2034.62
95.5	1038.1	1263.36	1414.7	1564.78	1654.52	1770.44	1865.78	1935.22	2036.02
95.75	1039.36	1264.76	1416.24	1566.32	1656.06	1771.98	1867.18	1936.62	2037.28
96	1040.62	1266.16	1417.64	1567.86	1657.6	1773.38	1868.58	1938.02	2038.54

**WITHYHEDGE LANDFILL
PHASE 2 SURFACE WATER
MANAGEMENT SYSTEM**

**Design and Construction
Validation Report**

**Appendix 4
Cumulative Volume of
Runoff from Restored
Area (Area 1)**

Report Number 2548r1v1d0425

Table 4	Area 1	Cumulative Volume of Runoff			Climate Change Factor		40%		
		Site Area Ha	16.35		Runoff Coefficient		0.47		

Duration	Cumulative Volume of Runoff from Restored Area in m3 for Return Period								
	Hrs	2 Year	5 Year	10 Year	20 Year	30 Year	50 Year	75 Year	100 Year
0.25	793.96	1129.62	1364.15	1578.24	1703.04	1855.81	1983.83	2078.50	2210.83
0.5	1082.28	1557.80	1880.55	2192.54	2378.66	2614.27	2805.76	2944.55	3144.65
0.75	1277.01	1840.75	2225.89	2614.27	2840.19	3126.36	3363.04	3536.25	3785.85
1	1433.01	2063.44	2503.46	2940.24	3197.37	3528.72	3797.68	3994.56	4282.88
1.25	1590.08	2256.02	2718.62	3175.85	3444.81	3791.22	4074.17	4281.80	4584.11
1.5	1735.31	2424.92	2900.44	3369.50	3644.91	4001.01	4292.56	4506.65	4819.72
1.75	1870.87	2575.54	3059.66	3537.33	3818.12	4179.60	4478.68	4698.15	5018.75
2	1995.66	2713.24	3202.75	3686.87	3970.89	4336.67	4642.21	4865.98	5193.03
2.25	2104.32	2839.12	3337.22	3831.03	4121.50	4495.89	4806.81	5037.04	5373.77
2.5	2205.45	2955.31	3462.02	3964.43	4261.36	4643.28	4960.65	5196.26	5541.60
2.75	2299.05	3063.96	3578.21	4089.23	4391.54	4780.99	5104.81	5344.72	5698.67
3	2387.27	3164.02	3686.87	4205.42	4514.18	4910.09	5240.37	5485.66	5848.21
3.25	2470.11	3258.69	3789.07	4315.15	4629.30	5032.73	5368.39	5617.98	5990.22
3.5	2547.57	3347.98	3884.82	4418.43	4737.96	5148.92	5491.04	5744.93	6125.78
3.75	2621.80	3432.97	3976.27	4516.33	4841.24	5259.73	5607.23	5866.50	6255.95
4	2691.73	3512.58	4063.41	4609.93	4940.21	5365.16	5719.11	5982.69	6380.75
4.25	2759.50	3588.97	4145.17	4699.23	5032.73	5465.22	5825.62	6094.58	6500.16
4.5	2822.98	3659.97	4222.63	4784.22	5122.03	5560.97	5927.82	6202.16	6616.35
4.75	2883.22	3728.83	4297.94	4864.90	5208.09	5653.49	6026.80	6306.52	6728.24
5	2941.32	3794.45	4368.95	4943.44	5289.86	5742.78	6121.47	6406.57	6836.90
5.25	2997.26	3857.93	4437.80	5018.75	5369.47	5827.77	6213.99	6503.39	6941.26
5.5	3051.05	3918.17	4503.42	5090.83	5445.85	5911.69	6303.29	6598.07	7043.46
5.75	3102.69	3976.27	4567.97	5160.76	5519.01	5991.30	6390.43	6689.51	7143.51
6	3152.18	4032.21	4629.30	5228.53	5591.09	6069.83	6474.34	6778.80	7240.34
6.25	3199.52	4086.00	4688.47	5294.16	5659.94	6145.14	6556.11	6865.95	7336.08
6.5	3245.78	4138.72	4745.49	5357.63	5727.72	6219.37	6636.80	6952.01	7429.68
6.75	3289.89	4189.28	4801.43	5418.96	5793.34	6290.38	6714.26	7034.85	7521.13
7	3331.85	4237.69	4855.22	5478.13	5856.82	6360.31	6790.64	7115.54	7610.42
7.25	3373.80	4286.11	4906.86	5536.22	5918.14	6428.08	6863.80	7195.15	7697.56
7.5	3413.61	4331.29	4958.50	5592.16	5979.46	6494.79	6936.95	7272.61	7783.63
7.75	3452.34	4376.48	5007.99	5647.03	6037.56	6559.34	7007.96	7347.92	7867.54
8	3489.99	4420.59	5055.33	5700.82	6095.65	6622.81	7076.81	7422.15	7949.31
8.25	3526.57	4462.54	5102.66	5752.46	6151.60	6685.21	7144.59	7495.31	8030.00
8.5	3562.07	4504.50	5148.92	5804.10	6206.46	6745.45	7211.29	7566.31	8108.53
8.75	3597.58	4544.31	5193.03	5853.59	6260.25	6804.62	7275.84	7636.24	8185.99
9	3630.93	4584.11	5237.14	5903.08	6312.97	6863.80	7340.39	7705.09	8262.37
9.25	3664.28	4621.77	5279.10	5950.42	6363.53	6920.81	7402.79	7771.80	8336.61
9.5	3696.55	4659.42	5321.06	5996.68	6414.10	6976.76	7465.18	7838.50	8409.76
9.75	3727.75	4696.00	5361.94	6042.94	6463.59	7031.62	7525.43	7903.05	8481.84
10	3758.95	4732.58	5401.74	6088.12	6513.07	7085.42	7584.60	7967.60	8552.85
10.25	3789.07	4767.00	5441.55	6131.16	6560.41	7139.21	7643.77	8030.00	8621.70
10.5	3818.12	4802.51	5479.20	6175.26	6606.67	7190.85	7700.79	8092.39	8690.55
10.75	3847.17	4835.86	5516.86	6217.22	6652.93	7242.49	7757.81	8153.72	8758.33
11	3875.14	4869.21	5554.51	6259.18	6698.12	7293.05	7813.75	8212.89	8823.96
11.25	3903.11	4901.48	5590.01	6300.06	6742.23	7342.54	7868.62	8272.06	8889.58
11.5	3930.01	4932.68	5626.59	6339.87	6786.34	7392.03	7922.41	8330.15	8954.13

11.75	3956.90	4963.88	5661.02	6379.67	6829.37	7440.44	7976.20	8388.25	9017.61
12	3982.72	4995.08	5695.44	6418.40	6871.33	7487.78	8028.92	8444.19	9080.01
12.25	4008.54	5025.20	5728.79	6457.13	6913.28	7535.11	8080.56	8501.21	9141.33
12.5	4033.29	5054.25	5762.15	6494.79	6954.17	7581.37	8132.20	8556.08	9202.65
12.75	4058.03	5083.30	5795.50	6532.44	6995.05	7627.63	8183.84	8610.94	9261.82
13	4081.70	5112.34	5826.70	6569.02	7034.85	7672.82	8233.33	8664.73	9320.99
13.25	4105.37	5140.32	5858.97	6604.52	7074.66	7716.93	8283.89	8718.53	9379.09
13.5	4129.04	5167.21	5890.17	6641.10	7113.39	7761.04	8332.30	8770.17	9436.10
13.75	4151.63	5195.18	5920.29	6675.53	7151.04	7805.15	8380.72	8821.81	9493.12
14	4174.22	5221.00	5950.42	6709.95	7188.70	7848.18	8428.05	8873.45	9549.07
14.25	4196.81	5247.90	5980.54	6744.38	7226.35	7890.14	8475.39	8924.01	9602.86
14.5	4219.41	5273.72	6009.59	6777.73	7262.93	7932.09	8521.65	8973.50	9657.73
14.75	4240.92	5299.54	6038.63	6811.08	7299.51	7972.98	8566.83	9021.91	9710.44
15	4261.36	5324.28	6067.68	6844.43	7335.01	8013.86	8612.02	9070.32	9763.16
15.25	4282.88	5350.10	6095.65	6876.71	7370.51	8053.66	8656.13	9118.74	9815.87
15.5	4303.32	5374.85	6123.62	6908.98	7404.94	8093.47	8700.24	9165.00	9866.44
15.75	4323.76	5398.51	6151.60	6940.18	7439.36	8132.20	8744.35	9212.33	9917.00
16	4344.20	5422.18	6178.49	6971.38	7473.79	8170.93	8786.30	9257.52	9967.56
16.25	4364.64	5445.85	6205.39	7001.50	7507.14	8209.66	8829.34	9302.70	10015.98
16.5	4384.01	5469.52	6231.21	7032.70	7540.49	8247.31	8871.29	9347.89	10064.39
16.75	4403.37	5493.19	6258.10	7062.82	7573.84	8284.97	8912.18	9392.00	10112.80
17	4422.74	5515.78	6283.92	7091.87	7606.12	8321.55	8953.06	9436.10	10160.14
17.25	4441.03	5538.37	6308.67	7120.92	7638.39	8358.12	8993.94	9479.14	10207.48
17.5	4460.39	5559.89	6334.49	7149.97	7669.59	8394.70	9033.74	9521.10	10253.74
17.75	4478.68	5582.48	6359.23	7179.01	7700.79	8430.20	9072.47	9563.05	10298.92
18	4496.97	5604.00	6383.98	7206.99	7731.99	8464.63	9112.28	9605.01	10344.11
18.25	4514.18	5625.52	6407.64	7234.96	7762.11	8499.06	9149.93	9645.89	10388.21
18.5	4532.47	5647.03	6432.39	7261.85	7792.24	8533.48	9186.51	9685.70	10431.25
18.75	4549.69	5667.47	6454.98	7288.75	7822.36	8566.83	9224.17	9724.43	10474.28
19	4566.90	5687.91	6478.65	7315.64	7851.41	8600.19	9260.74	9763.16	10516.24
19.25	4584.11	5709.43	6502.32	7342.54	7880.45	8632.46	9296.25	9801.89	10558.20
19.5	4600.25	5728.79	6524.91	7368.36	7909.50	8665.81	9331.75	9839.54	10599.08
19.75	4617.46	5749.24	6547.50	7394.18	7937.47	8697.01	9367.25	9877.20	10639.96
20	4634.68	5769.68	6570.09	7420.00	7966.52	8729.28	9402.75	9914.85	10679.76
20.25	4650.81	5789.04	6592.69	7445.82	7994.49	8760.48	9437.18	9951.43	10719.57
20.5	4666.95	5809.48	6615.28	7471.64	8021.39	8791.68	9470.53	9988.01	10759.38
20.75	4683.09	5828.85	6636.80	7496.38	8049.36	8822.88	9504.96	10023.51	10798.11
21	4699.23	5848.21	6658.31	7521.13	8076.26	8854.08	9538.31	10059.01	10835.76
21.25	4715.36	5867.58	6680.90	7545.87	8103.15	8884.20	9571.66	10094.51	10874.49
21.5	4731.50	5885.87	6702.42	7570.62	8130.05	8914.33	9603.93	10128.94	10911.07
21.75	4746.56	5905.23	6722.86	7594.28	8156.94	8943.37	9636.21	10163.37	10948.72
22	4762.70	5924.60	6744.38	7619.03	8183.84	8973.50	9668.48	10197.79	10985.30
22.25	4777.76	5942.88	6765.89	7642.70	8209.66	9002.55	9700.76	10231.14	11021.88
22.5	4793.90	5961.17	6786.34	7666.36	8235.48	9031.59	9731.96	10264.49	11057.38
22.75	4808.96	5979.46	6806.78	7690.03	8261.30	9060.64	9763.16	10297.84	11092.88
23	4824.02	5997.75	6827.22	7713.70	8287.12	9088.61	9794.36	10330.12	11128.39
23.25	4839.08	6016.04	6847.66	7736.29	8311.86	9117.66	9825.56	10362.39	11162.81
23.5	4854.14	6034.33	6868.10	7759.96	8337.68	9145.63	9855.68	10394.67	11197.24
23.75	4869.21	6052.62	6888.54	7782.55	8362.43	9173.60	9885.80	10425.87	11230.59
24	4884.27	6069.83	6908.98	7805.15	8387.17	9200.50	9915.93	10458.14	11265.02
24.25	4899.33	6088.12	6929.42	7828.81	8411.91	9228.47	9944.97	10489.34	11298.37

24.5	4913.32	6106.41	6949.86	7851.41	8436.66	9255.37	9975.10	10519.47	11330.64
24.75	4928.38	6123.62	6969.23	7874.00	8461.40	9282.26	10004.14	10550.66	11362.92
25	4943.44	6141.91	6989.67	7896.59	8486.15	9309.16	10033.19	10580.79	11395.19
25.25	4957.42	6159.13	7009.03	7919.18	8509.82	9336.05	10061.16	10610.91	11427.47
25.5	4972.49	6176.34	7029.47	7941.78	8534.56	9362.95	10090.21	10641.03	11458.67
25.75	4986.47	6194.63	7048.84	7963.29	8558.23	9388.77	10118.18	10670.08	11489.86
26	5001.53	6211.84	7068.20	7985.89	8581.90	9415.66	10146.15	10699.13	11521.06
26.25	5015.52	6229.06	7088.64	8007.40	8605.56	9441.48	10174.12	10728.18	11552.26
26.5	5030.58	6246.27	7108.01	8030.00	8629.23	9467.30	10202.10	10757.22	11582.39
26.75	5044.57	6263.48	7127.37	8051.51	8652.90	9493.12	10228.99	10786.27	11612.51
27	5058.55	6279.62	7146.74	8073.03	8675.49	9517.87	10255.89	10814.24	11642.63
27.25	5072.54	6296.83	7165.03	8094.54	8699.16	9543.69	10282.78	10842.21	11671.68
27.5	5086.52	6314.05	7184.39	8116.06	8721.75	9568.43	10309.68	10870.19	11700.73
27.75	5100.51	6331.26	7203.76	8137.58	8745.42	9593.18	10336.57	10897.08	11729.77
28	5114.50	6347.40	7222.05	8158.02	8768.01	9617.92	10362.39	10925.05	11758.82
28.25	5128.48	6364.61	7241.41	8179.54	8790.61	9642.66	10388.21	10951.95	11786.79
28.5	5142.47	6380.75	7259.70	8199.98	8812.12	9667.41	10415.11	10978.85	11815.84
28.75	5156.45	6396.89	7277.99	8221.49	8834.72	9691.08	10439.85	11005.74	11843.81
29	5170.44	6414.10	7297.35	8241.93	8857.31	9715.82	10465.67	11032.64	11870.71
29.25	5183.35	6430.24	7315.64	8262.37	8878.82	9739.49	10491.49	11058.46	11898.68
29.5	5197.33	6446.37	7333.93	8282.82	8901.42	9763.16	10516.24	11084.28	11925.58
29.75	5210.24	6462.51	7352.22	8303.26	8922.93	9786.83	10540.98	11110.10	11952.47
30	5224.23	6478.65	7370.51	8323.70	8944.45	9810.49	10566.80	11135.92	11979.37
30.25	5237.14	6494.79	7388.80	8344.14	8965.97	9834.16	10590.47	11161.74	12006.26
30.5	5251.13	6510.92	7407.09	8364.58	8987.48	9856.75	10615.21	11187.56	12033.16
30.75	5264.04	6527.06	7424.30	8385.02	9009.00	9880.42	10639.96	11212.30	12058.98
31	5278.02	6543.20	7442.59	8404.38	9030.52	9903.02	10663.63	11237.04	12084.80
31.25	5290.93	6559.34	7460.88	8424.82	9052.03	9925.61	10688.37	11261.79	12110.62
31.5	5303.84	6574.40	7478.09	8444.19	9072.47	9948.20	10712.04	11286.53	12136.44
31.75	5317.83	6590.53	7496.38	8463.55	9093.99	9970.79	10735.71	11311.28	12161.18
32	5330.74	6606.67	7513.60	8484.00	9114.43	9993.38	10759.38	11334.94	12185.93
32.25	5343.65	6621.73	7531.89	8503.36	9134.87	10015.98	10781.97	11359.69	12211.75
32.5	5356.56	6637.87	7549.10	8522.73	9156.39	10037.49	10805.64	11383.36	12235.41
32.75	5369.47	6652.93	7566.31	8542.09	9176.83	10060.09	10828.23	11407.03	12260.16
33	5382.38	6667.99	7583.53	8561.46	9197.27	10081.60	10851.90	11430.69	12284.90
33.25	5395.29	6684.13	7600.74	8580.82	9217.71	10103.12	10874.49	11453.29	12308.57
33.5	5408.20	6699.19	7617.95	8599.11	9237.08	10124.64	10897.08	11476.95	12333.32
33.75	5421.11	6714.26	7635.17	8618.47	9257.52	10146.15	10919.67	11500.62	12356.98
34	5434.02	6730.39	7652.38	8637.84	9277.96	10167.67	10941.19	11523.22	12380.65
34.25	5446.93	6745.45	7669.59	8656.13	9297.32	10189.19	10963.78	11545.81	12403.24
34.5	5458.76	6760.52	7686.81	8675.49	9317.76	10210.70	10986.38	11568.40	12426.91
34.75	5471.67	6775.58	7704.02	8693.78	9337.13	10231.14	11007.89	11590.99	12449.50
35	5484.58	6790.64	7720.16	8712.07	9357.57	10252.66	11029.41	11613.58	12473.17
35.25	5496.42	6805.70	7737.37	8731.44	9376.93	10273.10	11050.93	11635.10	12495.77
35.5	5509.33	6820.76	7754.58	8749.73	9396.30	10293.54	11072.44	11657.69	12518.36
35.75	5522.24	6835.82	7770.72	8768.01	9415.66	10315.06	11093.96	11679.21	12540.95
36	5534.07	6849.81	7787.93	8786.30	9435.03	10335.50	11115.48	11700.73	12562.47
36.25	5546.98	6864.87	7804.07	8804.59	9454.39	10355.94	11136.99	11722.24	12585.06
36.5	5558.81	6879.93	7821.28	8822.88	9473.76	10375.30	11157.43	11743.76	12606.58
36.75	5571.72	6894.99	7837.42	8841.17	9492.05	10395.75	11178.95	11765.28	12629.17
37	5583.56	6908.98	7853.56	8859.46	9511.41	10416.19	11199.39	11786.79	12650.68

37.25	5596.47	6924.04	7869.70	8876.67	9530.78	10435.55	11219.83	11808.31	12672.20
37.5	5608.30	6938.03	7886.91	8894.96	9549.07	10455.99	11241.35	11828.75	12693.72
37.75	5620.14	6953.09	7903.05	8913.25	9568.43	10475.36	11261.79	11849.19	12714.16
38	5633.05	6967.08	7919.18	8930.46	9586.72	10495.80	11281.15	11870.71	12735.68
38.25	5644.88	6982.14	7935.32	8948.75	9605.01	10515.16	11301.59	11891.15	12756.12
38.5	5656.71	6996.12	7951.46	8965.97	9624.38	10534.53	11322.03	11911.59	12777.63
38.75	5668.55	7011.18	7967.60	8983.18	9642.66	10553.89	11342.48	11932.03	12798.07
39	5681.46	7025.17	7983.73	9001.47	9660.95	10573.26	11361.84	11952.47	12818.51
39.25	5693.29	7039.16	7999.87	9018.68	9679.24	10592.62	11381.21	11971.84	12838.96
39.5	5705.13	7054.22	8014.93	9035.90	9697.53	10611.99	11401.65	11992.28	12859.40
39.75	5716.96	7068.20	8031.07	9053.11	9715.82	10630.28	11421.01	12011.64	12878.76
40	5728.79	7082.19	8047.21	9070.32	9734.11	10649.64	11440.38	12032.08	12899.20
40.25	5740.63	7096.17	8063.35	9088.61	9751.32	10669.01	11459.74	12051.45	12919.64
40.5	5752.46	7110.16	8078.41	9104.75	9769.61	10687.30	11479.11	12070.81	12939.01
40.75	5764.30	7124.15	8094.54	9121.96	9787.90	10705.58	11498.47	12090.18	12958.37
41	5776.13	7138.13	8109.61	9139.18	9805.11	10724.95	11517.84	12109.54	12977.74
41.25	5787.97	7152.12	8125.74	9156.39	9823.40	10743.24	11536.13	12128.91	12997.10
41.5	5799.80	7166.10	8140.81	9173.60	9840.62	10761.53	11555.49	12148.27	13016.47
41.75	5811.63	7180.09	8156.94	9190.82	9857.83	10779.82	11573.78	12166.56	13035.83
42	5823.47	7194.08	8172.00	9206.95	9876.12	10798.11	11593.14	12185.93	13055.20
42.25	5834.23	7208.06	8187.07	9224.17	9893.33	10816.39	11611.43	12204.22	13073.49
42.5	5846.06	7222.05	8203.20	9240.30	9910.55	10834.68	11629.72	12223.58	13092.85
42.75	5857.89	7236.03	8218.27	9257.52	9927.76	10852.97	11648.01	12241.87	13111.14
43	5869.73	7250.02	8233.33	9273.65	9944.97	10870.19	11666.30	12260.16	13129.43
43.25	5881.56	7262.93	8248.39	9290.87	9962.19	10888.48	11684.59	12278.45	13148.79
43.5	5892.32	7276.91	8263.45	9307.01	9979.40	10906.76	11702.88	12296.74	13167.08
43.75	5904.16	7290.90	8279.59	9323.14	9996.61	10923.98	11721.17	12315.03	13185.37
44	5915.99	7304.89	8294.65	9340.36	10013.83	10942.27	11739.46	12333.32	13203.66
44.25	5926.75	7317.80	8309.71	9356.49	10031.04	10959.48	11756.67	12351.60	13220.87
44.5	5938.58	7331.78	8324.77	9372.63	10048.25	10976.69	11774.96	12368.82	13239.16
44.75	5949.34	7344.69	8339.83	9388.77	10064.39	10993.91	11792.17	12387.11	13257.45
45	5961.17	7358.68	8354.90	9404.91	10081.60	11012.20	11810.46	12405.40	13274.67
45.25	5973.01	7371.59	8368.88	9421.04	10097.74	11029.41	11827.68	12422.61	13291.88
45.5	5983.77	7385.57	8383.94	9437.18	10114.95	11046.62	11844.89	12439.82	13310.17
45.75	5995.60	7398.48	8399.00	9453.32	10131.09	11063.84	11862.10	12457.04	13327.38
46	6006.36	7412.47	8414.07	9469.46	10148.30	11079.97	11880.39	12475.32	13344.60
46.25	6018.19	7425.38	8429.13	9485.59	10164.44	11097.19	11897.60	12492.54	13361.81
46.5	6028.95	7439.36	8443.11	9501.73	10181.66	11114.40	11913.74	12509.75	13379.02
46.75	6039.71	7452.27	8458.18	9516.79	10197.79	11131.61	11930.95	12526.96	13396.24
47	6051.54	7465.18	8473.24	9532.93	10213.93	11147.75	11948.17	12543.10	13413.45
47.25	6062.30	7479.17	8487.22	9549.07	10230.07	11164.96	11965.38	12560.32	13429.59
47.5	6073.06	7492.08	8502.28	9564.13	10246.20	11181.10	11982.59	12577.53	13446.80
47.75	6084.89	7504.99	8516.27	9580.27	10262.34	11198.31	11998.73	12594.74	13464.01
48	6095.65	7517.90	8531.33	9596.40	10278.48	11214.45	12015.95	12610.88	13480.15
48.25	6106.41	7530.81	8545.32	9610.39	10293.54	11229.51	12031.01	12625.94	13494.14
48.5	6118.25	7544.80	8559.30	9625.45	10308.60	11245.65	12046.07	12641.00	13509.20
48.75	6129.00	7557.71	8573.29	9640.51	10324.74	11260.71	12061.13	12654.99	13523.18
49	6139.76	7570.62	8587.28	9655.57	10339.80	11275.77	12075.12	12670.05	13537.17
49.25	6150.52	7583.53	8601.26	9669.56	10353.79	11290.84	12090.18	12684.04	13551.15
49.5	6162.35	7595.36	8615.25	9684.62	10368.85	11305.90	12105.24	12699.10	13566.22
49.75	6173.11	7608.27	8629.23	9699.68	10383.91	11319.88	12120.30	12713.08	13580.20

50	6183.87	7621.18	8643.22	9713.67	10398.97	11334.94	12134.29	12728.14	13594.19
50.25	6194.63	7634.09	8657.20	9728.73	10414.03	11350.01	12149.35	12742.13	13608.17
50.5	6205.39	7647.00	8671.19	9743.79	10429.10	11365.07	12163.33	12756.12	13622.16
50.75	6216.15	7659.91	8684.10	9757.78	10443.08	11379.05	12178.40	12771.18	13635.07
51	6226.90	7672.82	8698.09	9772.84	10458.14	11394.12	12192.38	12785.16	13649.06
51.25	6237.66	7684.65	8712.07	9786.83	10473.21	11409.18	12207.44	12799.15	13663.04
51.5	6248.42	7697.56	8726.06	9800.81	10487.19	11423.16	12221.43	12813.14	13677.03
51.75	6259.18	7710.47	8738.97	9815.87	10502.25	11438.22	12235.41	12827.12	13689.94
52	6269.94	7723.38	8752.95	9829.86	10516.24	11452.21	12249.40	12841.11	13703.92
52.25	6280.70	7735.22	8766.94	9843.84	10531.30	11467.27	12264.46	12855.09	13716.83
52.5	6291.45	7748.13	8779.85	9858.91	10545.29	11481.26	12278.45	12869.08	13730.82
52.75	6302.21	7761.04	8793.83	9872.89	10560.35	11495.24	12292.43	12883.06	13743.73
53	6312.97	7772.87	8807.82	9886.88	10574.33	11510.31	12306.42	12897.05	13757.71
53.25	6323.73	7785.78	8820.73	9900.86	10588.32	11524.29	12320.41	12911.04	13770.62
53.5	6334.49	7798.69	8834.72	9915.93	10603.38	11538.28	12334.39	12923.95	13784.61
53.75	6345.25	7810.53	8847.63	9929.91	10617.37	11553.34	12348.38	12937.93	13797.52
54	6356.00	7823.44	8861.61	9943.90	10631.35	11567.32	12362.36	12951.92	13810.43
54.25	6366.76	7835.27	8874.52	9957.88	10646.41	11581.31	12376.35	12964.83	13823.34
54.5	6377.52	7848.18	8888.51	9971.87	10660.40	11595.30	12390.33	12978.81	13837.33
54.75	6387.20	7860.01	8901.42	9985.85	10674.39	11609.28	12404.32	12992.80	13850.24
55	6397.96	7872.92	8914.33	9999.84	10688.37	11623.27	12417.23	13005.71	13863.15
55.25	6408.72	7884.76	8928.31	10013.83	10702.36	11637.25	12431.22	13019.69	13876.06
55.5	6419.48	7897.67	8941.22	10027.81	10716.34	11651.24	12445.20	13032.60	13888.97
55.75	6430.24	7909.50	8954.13	10041.80	10730.33	11665.22	12459.19	13045.51	13901.88
56	6439.92	7922.41	8968.12	10055.78	10744.31	11679.21	12472.10	13059.50	13914.79
56.25	6450.68	7934.25	8981.03	10069.77	10758.30	11693.20	12486.08	13072.41	13927.70
56.5	6461.43	7947.16	8993.94	10082.68	10772.29	11707.18	12498.99	13085.32	13939.53
56.75	6472.19	7958.99	9006.85	10096.66	10786.27	11721.17	12512.98	13099.31	13952.44
57	6481.88	7970.82	9020.83	10110.65	10800.26	11734.08	12525.89	13112.22	13965.35
57.25	6492.63	7983.73	9033.74	10124.64	10814.24	11748.06	12539.87	13125.13	13978.26
57.5	6503.39	7995.57	9046.65	10138.62	10828.23	11762.05	12552.78	13138.04	13990.09
57.75	6513.07	8007.40	9059.56	10151.53	10842.21	11774.96	12566.77	13150.95	14003.00
58	6523.83	8019.24	9072.47	10165.52	10856.20	11788.95	12579.68	13163.86	14015.91
58.25	6534.59	8032.15	9085.38	10179.50	10869.11	11802.93	12592.59	13177.84	14027.75
58.5	6544.27	8043.98	9099.37	10192.41	10883.10	11815.84	12606.58	13190.75	14040.66
58.75	6555.03	8055.82	9112.28	10206.40	10897.08	11829.83	12619.49	13203.66	14053.57
59	6565.79	8067.65	9125.19	10219.31	10909.99	11842.74	12632.40	13215.50	14065.40
59.25	6575.47	8080.56	9138.10	10233.29	10923.98	11856.72	12645.31	13228.41	14077.24
59.5	6586.23	8092.39	9151.01	10247.28	10937.96	11869.63	12658.22	13241.32	14090.15
59.75	6595.91	8104.23	9163.92	10260.19	10950.87	11883.62	12672.20	13254.23	14101.98
60	6606.67	8116.06	9176.83	10274.18	10964.86	11896.53	12685.11	13267.14	14114.89
60.25	6616.35	8127.90	9189.74	10287.09	10978.85	11910.51	12698.02	13280.05	14126.72
60.5	6627.11	8139.73	9202.65	10301.07	10991.76	11923.42	12710.93	13292.96	14138.56
60.75	6636.80	8152.64	9215.56	10313.98	11005.74	11936.33	12723.84	13304.79	14151.47
61	6647.55	8164.47	9227.39	10326.89	11018.65	11950.32	12736.75	13317.70	14163.30
61.25	6657.24	8176.31	9240.30	10340.88	11032.64	11963.23	12749.66	13330.61	14175.14
61.5	6667.99	8188.14	9253.21	10353.79	11045.55	11976.14	12762.57	13342.44	14186.97
61.75	6677.68	8199.98	9266.12	10367.77	11058.46	11990.13	12775.48	13355.35	14199.88
62	6688.44	8211.81	9279.03	10380.68	11072.44	12003.04	12788.39	13368.26	14211.71
62.25	6698.12	8223.64	9291.94	10393.59	11085.35	12015.95	12801.30	13380.10	14223.55
62.5	6708.88	8235.48	9304.85	10406.50	11099.34	12028.86	12813.14	13393.01	14235.38

62.75	6718.56	8247.31	9316.69	10420.49	11112.25	12041.77	12826.05	13404.84	14247.22
63	6729.32	8259.15	9329.60	10433.40	11125.16	12054.68	12838.96	13417.75	14259.05
63.25	6739.00	8270.98	9342.51	10446.31	11139.14	12067.59	12851.87	13429.59	14270.88
63.5	6748.68	8282.82	9355.42	10459.22	11152.05	12081.57	12864.78	13442.50	14282.72
63.75	6759.44	8294.65	9367.25	10473.21	11164.96	12094.48	12876.61	13454.33	14294.55
64	6769.12	8306.48	9380.16	10486.12	11177.87	12107.39	12889.52	13466.16	14306.39
64.25	6779.88	8318.32	9393.07	10499.02	11190.78	12120.30	12902.43	13479.07	14318.22
64.5	6789.56	8330.15	9404.91	10511.93	11204.77	12133.21	12914.26	13490.91	14330.06
64.75	6799.25	8340.91	9417.82	10524.84	11217.68	12146.12	12927.17	13503.82	14340.81
65	6810.00	8352.74	9430.73	10537.75	11230.59	12157.95	12939.01	13515.65	14352.65
65.25	6819.69	8364.58	9442.56	10550.66	11243.50	12170.86	12951.92	13527.49	14364.48
65.5	6829.37	8376.41	9455.47	10564.65	11256.41	12183.77	12964.83	13539.32	14376.32
65.75	6840.13	8388.25	9468.38	10577.56	11269.32	12196.68	12976.66	13552.23	14388.15
66	6849.81	8400.08	9480.21	10590.47	11282.23	12209.59	12989.57	13564.06	14398.91
66.25	6859.49	8411.91	9493.12	10603.38	11295.14	12222.50	13001.41	13575.90	14410.74
66.5	6869.17	8422.67	9504.96	10616.29	11308.05	12235.41	13014.32	13587.73	14422.58
66.75	6879.93	8434.51	9517.87	10629.20	11320.96	12247.25	13026.15	13599.57	14433.34
67	6889.62	8446.34	9529.70	10642.11	11333.87	12260.16	13037.98	13611.40	14445.17
67.25	6899.30	8458.18	9542.61	10655.02	11346.78	12273.07	13050.89	13623.24	14457.00
67.5	6908.98	8470.01	9554.45	10666.85	11359.69	12285.98	13062.73	13635.07	14467.76
67.75	6919.74	8480.77	9567.36	10679.76	11372.60	12297.81	13075.64	13647.98	14479.60
68	6929.42	8492.60	9579.19	10692.67	11385.51	12310.72	13087.47	13659.81	14490.35
68.25	6939.10	8504.44	9592.10	10705.58	11398.42	12323.63	13099.31	13671.65	14502.19
68.5	6948.79	8515.19	9603.93	10718.49	11411.33	12335.47	13112.22	13683.48	14512.95
68.75	6959.54	8527.03	9616.84	10731.40	11424.24	12348.38	13124.05	13695.32	14524.78
69	6969.23	8538.86	9628.68	10744.31	11437.15	12361.29	13135.88	13706.07	14535.54
69.25	6978.91	8550.70	9640.51	10757.22	11450.06	12373.12	13147.72	13717.91	14547.37
69.5	6988.59	8561.46	9653.42	10769.06	11461.89	12386.03	13159.55	13729.74	14558.13
69.75	6998.27	8573.29	9665.26	10781.97	11474.80	12397.86	13172.46	13741.58	14569.97
70	7007.96	8584.05	9678.17	10794.88	11487.71	12410.77	13184.30	13753.41	14580.72
70.25	7018.71	8595.88	9690.00	10807.79	11500.62	12422.61	13196.13	13765.24	14591.48
70.5	7028.40	8607.72	9701.83	10819.62	11513.53	12435.52	13207.96	13777.08	14603.32
70.75	7038.08	8618.47	9714.74	10832.53	11525.37	12447.35	13219.80	13788.91	14614.07
71	7047.76	8630.31	9726.58	10845.44	11538.28	12460.26	13231.63	13799.67	14624.83
71.25	7057.44	8642.14	9738.41	10858.35	11551.19	12472.10	13244.54	13811.51	14636.67
71.5	7067.13	8652.90	9751.32	10870.19	11563.02	12485.01	13256.38	13823.34	14647.43
71.75	7076.81	8664.73	9763.16	10883.10	11575.93	12496.84	13268.21	13835.17	14658.18
72	7086.49	8675.49	9774.99	10896.01	11588.84	12509.75	13280.05	13845.93	14668.94
72.25	7096.17	8687.33	9786.83	10907.84	11600.67	12521.59	13291.88	13857.77	14680.78
72.5	7106.93	8698.09	9799.74	10920.75	11613.58	12533.42	13303.71	13869.60	14691.53
72.75	7116.62	8709.92	9811.57	10933.66	11626.49	12546.33	13315.55	13880.36	14702.29
73	7126.30	8721.75	9823.40	10945.49	11638.33	12558.16	13327.38	13892.19	14713.05
73.25	7135.98	8732.51	9835.24	10958.40	11651.24	12570.00	13339.22	13904.03	14723.81
73.5	7145.66	8744.35	9847.07	10970.24	11663.07	12582.91	13351.05	13914.79	14735.64
73.75	7155.35	8755.10	9859.98	10983.15	11675.98	12594.74	13361.81	13926.62	14746.40
74	7165.03	8766.94	9871.82	10994.98	11688.89	12606.58	13373.64	13938.45	14757.16
74.25	7174.71	8777.70	9883.65	11007.89	11700.73	12619.49	13385.48	13949.21	14767.92
74.5	7184.39	8788.46	9895.48	11019.73	11713.64	12631.32	13397.31	13961.05	14778.68
74.75	7194.08	8800.29	9907.32	11032.64	11725.47	12643.15	13409.15	13971.80	14789.44
75	7203.76	8811.05	9919.15	11045.55	11738.38	12654.99	13420.98	13983.64	14800.19
75.25	7213.44	8822.88	9932.06	11057.38	11750.22	12666.82	13432.81	13994.40	14810.95

75.5	7223.12	8833.64	9943.90	11069.21	11763.13	12679.73	13444.65	14006.23	14821.71
75.75	7232.81	8845.47	9955.73	11082.12	11774.96	12691.57	13455.41	14016.99	14832.47
76	7242.49	8856.23	9967.56	11093.96	11786.79	12703.40	13467.24	14028.82	14843.23
76.25	7252.17	8868.07	9979.40	11106.87	11799.70	12715.23	13479.07	14039.58	14853.98
76.5	7261.85	8878.82	9991.23	11118.70	11811.54	12727.07	13490.91	14051.42	14864.74
76.75	7271.53	8889.58	10003.07	11131.61	11824.45	12738.90	13501.67	14062.17	14875.50
77	7281.22	8901.42	10014.90	11143.45	11836.28	12750.74	13513.50	14072.93	14886.26
77.25	7290.90	8912.18	10026.74	11156.36	11849.19	12763.65	13525.33	14084.77	14897.02
77.5	7300.58	8924.01	10038.57	11168.19	11861.03	12775.48	13537.17	14095.52	14907.78
77.75	7310.26	8934.77	10050.40	11180.03	11872.86	12787.32	13547.93	14107.36	14918.53
78	7318.87	8945.53	10062.24	11192.94	11885.77	12799.15	13559.76	14118.12	14928.22
78.25	7328.55	8957.36	10074.07	11204.77	11897.60	12810.98	13571.60	14128.88	14938.98
78.5	7338.24	8968.12	10085.91	11216.60	11909.44	12822.82	13582.35	14140.71	14949.73
78.75	7347.92	8978.88	10097.74	11229.51	11922.35	12834.65	13594.19	14151.47	14960.49
79	7357.60	8990.71	10109.57	11241.35	11934.18	12846.49	13606.02	14162.23	14971.25
79.25	7367.28	9001.47	10121.41	11253.18	11946.02	12858.32	13616.78	14174.06	14982.01
79.5	7376.97	9012.23	10133.24	11266.09	11957.85	12870.15	13628.61	14184.82	14991.69
79.75	7386.65	9024.06	10145.08	11277.93	11970.76	12881.99	13639.37	14195.58	15002.45
80	7396.33	9034.82	10156.91	11289.76	11982.59	12893.82	13651.21	14206.34	15013.21
80.25	7406.01	9045.58	10168.75	11301.59	11994.43	12905.66	13661.97	14218.17	15023.97
80.5	7414.62	9056.34	10180.58	11314.50	12006.26	12917.49	13673.80	14228.93	15033.65
80.75	7424.30	9068.17	10192.41	11326.34	12019.17	12929.32	13685.63	14239.69	15044.41
81	7433.99	9078.93	10204.25	11338.17	12031.01	12941.16	13696.39	14250.44	15055.17
81.25	7443.67	9089.69	10216.08	11350.01	12042.84	12951.92	13708.23	14261.20	15065.92
81.5	7453.35	9100.45	10226.84	11362.92	12054.68	12963.75	13718.98	14273.04	15075.61
81.75	7463.03	9112.28	10238.67	11374.75	12066.51	12975.59	13730.82	14283.79	15086.36
82	7471.64	9123.04	10250.51	11386.58	12079.42	12987.42	13741.58	14294.55	15097.12
82.25	7481.32	9133.80	10262.34	11398.42	12091.25	12999.25	13753.41	14305.31	15106.80
82.5	7491.00	9144.56	10274.18	11410.25	12103.09	13011.09	13764.17	14316.07	15117.56
82.75	7500.69	9156.39	10286.01	11423.16	12114.92	13022.92	13776.00	14326.83	15128.32
83	7510.37	9167.15	10297.84	11435.00	12126.76	13033.68	13786.76	14338.66	15138.00
83.25	7520.05	9177.91	10308.60	11446.83	12138.59	13045.51	13797.52	14349.42	15148.76
83.5	7528.66	9188.66	10320.44	11458.67	12150.42	13057.35	13809.35	14360.18	15159.52
83.75	7538.34	9199.42	10332.27	11470.50	12162.26	13069.18	13820.11	14370.94	15169.20
84	7548.02	9211.26	10344.11	11482.33	12175.17	13081.02	13831.95	14381.70	15179.96
84.25	7557.71	9222.01	10355.94	11495.24	12187.00	13091.78	13842.70	14392.45	15189.64
84.5	7566.31	9232.77	10367.77	11507.08	12198.84	13103.61	13853.46	14403.21	15200.40
84.75	7575.99	9243.53	10378.53	11518.91	12210.67	13115.44	13865.30	14413.97	15211.16
85	7585.68	9254.29	10390.37	11530.75	12222.50	13127.28	13876.06	14424.73	15220.84
85.25	7595.36	9265.05	10402.20	11542.58	12234.34	13139.11	13887.89	14435.49	15231.60
85.5	7605.04	9276.88	10414.03	11554.41	12246.17	13149.87	13898.65	14446.25	15241.28
85.75	7613.65	9287.64	10424.79	11566.25	12258.01	13161.70	13909.41	14457.00	15252.04
86	7623.33	9298.40	10436.63	11578.08	12269.84	13173.54	13921.24	14467.76	15261.72
86.25	7633.01	9309.16	10448.46	11589.92	12281.68	13184.30	13932.00	14478.52	15272.48
86.5	7642.70	9319.92	10460.30	11601.75	12293.51	13196.13	13942.76	14489.28	15282.17
86.75	7651.30	9330.67	10471.05	11613.58	12305.34	13207.96	13954.59	14500.04	15292.92
87	7660.99	9341.43	10482.89	11625.42	12317.18	13218.72	13965.35	14510.80	15302.61
87.25	7670.67	9352.19	10494.72	11637.25	12329.01	13230.56	13976.11	14521.55	15313.36
87.5	7679.27	9364.02	10506.56	11649.09	12340.85	13242.39	13986.87	14532.31	15323.05
87.75	7688.96	9374.78	10517.31	11660.92	12352.68	13253.15	13998.70	14543.07	15333.80
88	7698.64	9385.54	10529.15	11672.76	12364.51	13264.98	14009.46	14553.83	15343.49

88.25	7708.32	9396.30	10540.98	11684.59	12376.35	13276.82	14020.22	14564.59	15354.25
88.5	7716.93	9407.06	10551.74	11696.42	12388.18	13287.58	14030.97	14575.34	15363.93
88.75	7726.61	9417.82	10563.57	11708.26	12400.02	13299.41	14042.81	14586.10	15373.61
89	7736.29	9428.57	10575.41	11720.09	12411.85	13311.24	14053.57	14596.86	15384.37
89.25	7744.90	9439.33	10586.17	11731.93	12423.68	13322.00	14064.33	14607.62	15394.05
89.5	7754.58	9450.09	10598.00	11743.76	12434.44	13333.84	14075.08	14618.38	15404.81
89.75	7764.27	9460.85	10609.84	11755.59	12446.28	13344.60	14086.92	14628.06	15414.49
90	7772.87	9471.61	10620.59	11767.43	12458.11	13356.43	14097.68	14638.82	15424.17
90.25	7782.55	9482.37	10632.43	11779.26	12469.95	13368.26	14108.43	14649.58	15434.93
90.5	7792.24	9493.12	10644.26	11791.10	12481.78	13379.02	14119.19	14660.34	15444.62
90.75	7800.84	9503.88	10655.02	11802.93	12493.61	13390.86	14129.95	14671.09	15455.37
91	7810.53	9514.64	10666.85	11814.77	12505.45	13401.61	14141.79	14681.85	15465.06
91.25	7820.21	9525.40	10678.69	11826.60	12517.28	13413.45	14152.54	14692.61	15474.74
91.5	7828.81	9536.16	10689.45	11838.43	12528.04	13424.21	14163.30	14702.29	15485.50
91.75	7838.50	9547.99	10701.28	11850.27	12539.87	13436.04	14174.06	14713.05	15495.18
92	7848.18	9558.75	10712.04	11862.10	12551.71	13447.88	14184.82	14723.81	15504.86
92.25	7856.79	9569.51	10723.87	11872.86	12563.54	13458.63	14195.58	14734.57	15515.62
92.5	7866.47	9580.27	10735.71	11884.69	12575.38	13470.47	14206.34	14745.33	15525.30
92.75	7876.15	9591.02	10746.47	11896.53	12587.21	13481.23	14218.17	14756.08	15534.99
93	7884.76	9601.78	10758.30	11908.36	12599.05	13493.06	14228.93	14765.77	15545.74
93.25	7894.44	9612.54	10769.06	11920.20	12609.80	13503.82	14239.69	14776.53	15555.43
93.5	7904.12	9622.22	10780.89	11932.03	12621.64	13515.65	14250.44	14787.28	15565.11
93.75	7912.73	9632.98	10791.65	11943.86	12633.47	13526.41	14261.20	14798.04	15575.87
94	7922.41	9643.74	10803.48	11954.62	12645.31	13538.24	14271.96	14808.80	15585.55
94.25	7931.02	9654.50	10815.32	11966.46	12657.14	13549.00	14282.72	14818.48	15595.23
94.5	7940.70	9665.26	10826.08	11978.29	12667.90	13560.84	14293.48	14829.24	15605.99
94.75	7950.38	9676.02	10837.91	11990.13	12679.73	13571.60	14304.24	14840.00	15615.67
95	7958.99	9686.77	10848.67	12001.96	12691.57	13582.35	14314.99	14850.76	15625.35
95.25	7968.67	9697.53	10860.50	12013.79	12703.40	13594.19	14326.83	14860.44	15635.04
95.5	7977.28	9708.29	10871.26	12024.55	12714.16	13604.95	14337.59	14871.20	15645.80
95.75	7986.96	9719.05	10883.10	12036.39	12725.99	13616.78	14348.34	14881.96	15655.48
96	7996.64	9729.81	10893.85	12048.22	12737.83	13627.54	14359.10	14892.71	15665.16

**WITHYHEDGE LANDFILL
PHASE 2 SURFACE WATER
MANAGEMENT SYSTEM**

**Design and Construction
Validation Report**

**Appendix 5
Cumulative Volume of
Runoff from Temporary
Cap (Area 2)**

Report Number 2548r1v1d0425

Table 5	Area 2	Cumilative Volume of Runoff	Climate Change Factor	40%
	Site Area Ha	7.86	Runoff Coefficient	0.9

Duration	Cumilative Volume of Runoff from Temporary Cap in m3 for Return Period								
	Hrs	2 Year	5 Year	10 Year	20 Year	30 Year	50 Year	75 Year	100 Year
0.25	730.89	1039.88	1255.78	1452.86	1567.74	1708.37	1826.22	1913.38	2035.19
0.5	996.30	1434.04	1731.15	2018.35	2189.69	2406.57	2582.86	2710.62	2894.82
0.75	1175.56	1694.51	2049.05	2406.57	2614.55	2877.99	3095.87	3255.31	3485.08
1	1319.16	1899.51	2304.57	2706.65	2943.35	3248.38	3495.97	3677.21	3942.62
1.25	1463.75	2076.78	2502.64	2923.54	3171.13	3490.03	3750.49	3941.63	4219.92
1.5	1597.45	2232.27	2670.01	3101.81	3355.34	3683.15	3951.54	4148.62	4436.81
1.75	1722.24	2370.92	2816.58	3256.30	3514.79	3847.55	4122.87	4324.90	4620.03
2	1837.12	2497.69	2948.30	3393.96	3655.42	3992.14	4273.40	4479.40	4780.47
2.25	1937.14	2613.56	3072.10	3526.67	3794.07	4138.71	4424.93	4636.87	4946.85
2.5	2030.24	2720.52	3186.98	3649.48	3922.82	4274.39	4566.55	4783.44	5101.34
2.75	2116.40	2820.55	3293.94	3764.36	4042.65	4401.16	4699.26	4920.11	5245.94
3	2197.61	2912.65	3393.96	3871.32	4155.55	4520.00	4824.04	5049.85	5383.60
3.25	2273.87	2999.80	3488.05	3972.33	4261.52	4632.90	4941.90	5171.66	5514.32
3.5	2345.17	3082.00	3576.19	4067.41	4361.55	4739.86	5054.80	5288.52	5639.11
3.75	2413.51	3160.24	3660.37	4157.53	4456.62	4841.87	5161.76	5400.43	5758.94
4	2477.88	3233.53	3740.59	4243.69	4547.73	4938.93	5264.75	5507.39	5873.83
4.25	2540.27	3303.84	3815.86	4325.89	4632.90	5031.03	5362.80	5610.39	5983.76
4.5	2598.70	3369.20	3887.16	4404.13	4715.10	5119.17	5456.88	5709.43	6090.71
4.75	2654.16	3432.59	3956.49	4478.41	4794.33	5204.34	5548.00	5805.49	6193.71
5	2707.64	3493.00	4021.85	4550.70	4869.60	5286.54	5635.15	5897.59	6293.74
5.25	2759.14	3551.43	4085.24	4620.03	4942.89	5364.78	5720.32	5986.73	6389.80
5.5	2808.66	3606.89	4145.65	4686.38	5013.20	5442.03	5802.52	6073.88	6483.89
5.75	2856.20	3660.37	4205.07	4750.76	5080.55	5515.31	5882.74	6158.06	6575.99
6	2901.75	3711.87	4261.52	4813.15	5146.90	5587.61	5959.99	6240.26	6665.12
6.25	2945.33	3761.39	4315.99	4873.56	5210.28	5656.94	6035.25	6320.48	6753.26
6.5	2987.92	3809.91	4368.48	4931.99	5272.68	5725.27	6109.53	6399.71	6839.43
6.75	3028.52	3856.46	4419.98	4988.44	5333.09	5790.63	6180.84	6475.96	6923.61
7	3067.14	3901.03	4469.49	5042.91	5391.52	5855.01	6251.15	6550.24	7005.81
7.25	3105.77	3945.59	4517.03	5096.39	5447.97	5917.40	6318.50	6623.53	7086.03
7.5	3142.41	3987.19	4564.57	5147.89	5504.42	5978.80	6385.84	6694.83	7165.25
7.75	3178.07	4028.78	4610.13	5198.40	5557.90	6038.22	6451.21	6764.16	7242.50
8	3212.73	4069.39	4653.70	5247.92	5611.38	6096.66	6514.59	6832.49	7317.77
8.25	3246.40	4108.01	4697.28	5295.45	5662.88	6154.10	6576.98	6899.84	7392.05
8.5	3279.08	4146.64	4739.86	5342.99	5713.39	6209.56	6638.38	6965.20	7464.34
8.75	3311.76	4183.28	4780.47	5388.55	5762.90	6264.03	6697.80	7029.58	7535.65
9	3342.47	4219.92	4821.07	5434.11	5811.43	6318.50	6757.23	7092.96	7605.96
9.25	3373.17	4254.59	4859.70	5477.68	5857.98	6370.99	6814.67	7154.36	7674.30
9.5	3402.88	4289.25	4898.32	5520.27	5904.53	6422.48	6872.11	7215.76	7741.64
9.75	3431.60	4322.92	4935.95	5562.85	5950.08	6472.99	6927.57	7275.18	7808.00
10	3460.32	4356.59	4972.60	5604.45	5995.64	6522.51	6982.04	7334.61	7873.36
10.25	3488.05	4388.29	5009.24	5644.06	6039.22	6572.03	7036.51	7392.05	7936.75
10.5	3514.79	4420.97	5043.90	5684.67	6081.80	6619.57	7089.00	7449.49	8000.13
10.75	3541.53	4451.67	5078.57	5723.29	6124.39	6667.10	7141.49	7505.94	8062.52
11	3567.28	4482.37	5113.23	5761.91	6165.98	6713.65	7192.98	7560.41	8122.93
11.25	3593.03	4512.08	5145.91	5799.55	6206.59	6759.21	7243.49	7614.88	8183.34
11.5	3617.79	4540.80	5179.58	5836.19	6247.19	6804.76	7293.01	7668.36	8242.77

11.75	3642.54	4569.52	5211.27	5872.83	6286.81	6849.33	7342.53	7721.84	8301.20
12	3666.31	4598.24	5242.97	5908.49	6325.43	6892.91	7391.06	7773.34	8358.64
12.25	3690.08	4625.97	5273.67	5944.14	6364.05	6936.48	7438.59	7825.82	8415.09
12.5	3712.86	4652.71	5304.37	5978.80	6401.69	6979.07	7486.13	7876.33	8471.54
12.75	3735.64	4679.45	5335.07	6013.47	6439.32	7021.65	7533.67	7926.84	8526.01
13	3757.43	4706.19	5363.79	6047.14	6475.96	7063.25	7579.23	7976.36	8580.48
13.25	3779.21	4731.94	5393.50	6079.82	6512.61	7103.85	7625.77	8025.88	8633.96
13.5	3801.00	4756.70	5422.22	6113.49	6548.26	7144.46	7670.34	8073.41	8686.45
13.75	3821.80	4782.45	5449.95	6145.18	6582.92	7185.06	7714.90	8120.95	8738.94
14	3842.60	4806.22	5477.68	6176.88	6617.59	7224.68	7758.48	8168.49	8790.44
14.25	3863.39	4830.98	5505.41	6208.57	6652.25	7263.30	7802.06	8215.04	8839.95
14.5	3884.19	4854.74	5532.15	6239.27	6685.92	7301.92	7844.64	8260.59	8890.46
14.75	3904.00	4878.51	5558.89	6269.97	6719.59	7339.56	7886.24	8305.16	8938.99
15	3922.82	4901.29	5585.63	6300.67	6752.27	7377.19	7927.83	8349.73	8987.52
15.25	3942.62	4925.06	5611.38	6330.38	6784.96	7413.83	7968.44	8394.29	9036.04
15.5	3961.44	4947.84	5637.13	6360.09	6816.65	7450.48	8009.04	8436.88	9082.59
15.75	3980.26	4969.63	5662.88	6388.81	6848.34	7486.13	8049.65	8480.45	9129.14
16	3999.07	4991.41	5687.64	6417.53	6880.03	7521.78	8088.27	8522.05	9175.69
16.25	4017.89	5013.20	5712.40	6445.26	6910.73	7557.44	8127.88	8563.64	9220.25
16.5	4035.72	5034.99	5736.17	6473.98	6941.43	7592.10	8166.51	8605.24	9264.82
16.75	4053.54	5056.78	5760.92	6501.71	6972.13	7626.76	8204.14	8645.84	9309.38
17	4071.37	5077.58	5784.69	6528.45	7001.85	7660.43	8241.78	8686.45	9352.96
17.25	4088.21	5098.37	5807.47	6555.19	7031.56	7694.11	8279.41	8726.06	9396.54
17.5	4106.03	5118.18	5831.24	6581.93	7060.28	7727.78	8316.05	8764.69	9439.12
17.75	4122.87	5138.98	5854.02	6608.67	7089.00	7760.46	8351.71	8803.31	9480.72
18	4139.70	5158.79	5876.80	6634.42	7117.72	7792.15	8388.35	8841.93	9522.31
18.25	4155.55	5178.59	5898.58	6660.17	7145.45	7823.84	8423.01	8879.57	9562.92
18.5	4172.39	5198.40	5921.36	6684.93	7173.18	7855.54	8456.68	8916.21	9602.53
18.75	4188.23	5217.22	5942.16	6709.69	7200.91	7886.24	8491.35	8951.86	9642.14
19	4204.08	5236.03	5963.95	6734.45	7227.65	7916.94	8525.02	8987.52	9680.77
19.25	4219.92	5255.84	5985.74	6759.21	7254.39	7946.65	8557.70	9023.17	9719.39
19.5	4234.78	5273.67	6006.53	6782.98	7281.13	7977.35	8590.38	9057.83	9757.03
19.75	4250.63	5292.48	6027.33	6806.74	7306.88	8006.07	8623.06	9092.50	9794.66
20	4266.47	5311.30	6048.13	6830.51	7333.62	8035.78	8655.75	9127.16	9831.30
20.25	4281.33	5329.13	6068.93	6854.28	7359.37	8064.50	8687.44	9160.83	9867.95
20.5	4296.18	5347.94	6089.72	6878.05	7384.12	8093.22	8718.14	9194.50	9904.59
20.75	4311.04	5365.77	6109.53	6900.83	7409.87	8121.94	8749.83	9227.18	9940.24
21	4325.89	5383.60	6129.34	6923.61	7434.63	8150.66	8780.53	9259.87	9974.91
21.25	4340.75	5401.42	6150.14	6946.39	7459.39	8178.39	8811.23	9292.55	10010.56
21.5	4355.60	5418.26	6169.94	6969.16	7484.15	8206.12	8840.94	9324.24	10044.23
21.75	4369.47	5436.09	6188.76	6990.95	7508.91	8232.86	8870.65	9355.93	10078.89
22	4384.32	5453.91	6208.57	7013.73	7533.67	8260.59	8900.37	9387.62	10112.57
22.25	4398.19	5470.75	6228.37	7035.52	7557.44	8287.33	8930.08	9418.32	10146.24
22.5	4413.04	5487.58	6247.19	7057.31	7581.21	8314.07	8958.80	9449.02	10178.92
22.75	4426.91	5504.42	6266.01	7079.09	7604.97	8340.81	8987.52	9479.73	10211.60
23	4440.77	5521.26	6284.82	7100.88	7628.74	8366.56	9016.24	9509.44	10244.28
23.25	4454.64	5538.09	6303.64	7121.68	7651.52	8393.30	9044.96	9539.15	10275.98
23.5	4468.50	5554.93	6322.46	7143.47	7675.29	8419.05	9072.69	9568.86	10307.67
23.75	4482.37	5571.77	6341.28	7164.26	7698.07	8444.80	9100.42	9597.58	10338.37
24	4496.23	5587.61	6360.09	7185.06	7720.85	8469.56	9128.15	9627.29	10370.06
24.25	4510.10	5604.45	6378.91	7206.85	7743.62	8495.31	9154.89	9656.01	10400.76

24.5	4522.97	5621.28	6397.73	7227.65	7766.40	8520.07	9182.62	9683.74	10430.47
24.75	4536.84	5637.13	6415.55	7248.44	7789.18	8544.83	9209.36	9712.46	10460.18
25	4550.70	5653.97	6434.37	7269.24	7811.96	8569.59	9236.10	9740.19	10489.89
25.25	4563.58	5669.81	6452.20	7290.04	7833.75	8594.34	9261.85	9767.92	10519.60
25.5	4577.44	5685.66	6471.01	7310.84	7856.53	8619.10	9288.59	9795.65	10548.32
25.75	4590.32	5702.49	6488.84	7330.64	7878.31	8642.87	9314.34	9822.39	10577.04
26	4604.18	5718.34	6506.67	7351.44	7900.10	8667.63	9340.09	9849.13	10605.77
26.25	4617.06	5734.18	6525.48	7371.25	7921.89	8691.40	9365.83	9875.87	10634.49
26.5	4630.92	5750.03	6543.31	7392.05	7943.68	8715.17	9391.58	9902.61	10662.22
26.75	4643.80	5765.88	6561.14	7411.85	7965.47	8738.94	9416.34	9929.35	10689.95
27	4656.67	5780.73	6578.96	7431.66	7986.26	8761.71	9441.10	9955.10	10717.68
27.25	4669.55	5796.58	6595.80	7451.47	8008.05	8785.48	9465.86	9980.85	10744.42
27.5	4682.42	5812.42	6613.62	7471.28	8028.85	8808.26	9490.62	10006.60	10771.16
27.75	4695.30	5828.27	6631.45	7491.08	8050.64	8831.04	9515.38	10031.36	10797.90
28	4708.17	5843.12	6648.29	7509.90	8071.43	8853.82	9539.15	10057.11	10824.63
28.25	4721.05	5858.97	6666.11	7529.71	8092.23	8876.60	9562.92	10081.86	10850.38
28.5	4733.92	5873.83	6682.95	7548.52	8112.04	8899.37	9587.68	10106.62	10877.12
28.75	4746.80	5888.68	6699.79	7568.33	8132.84	8921.16	9610.45	10131.38	10902.87
29	4759.67	5904.53	6717.61	7587.15	8153.63	8943.94	9634.22	10156.14	10927.63
29.25	4771.55	5919.38	6734.45	7605.96	8173.44	8965.73	9657.99	10179.91	10953.38
29.5	4784.43	5934.24	6751.28	7624.78	8194.24	8987.52	9680.77	10203.68	10978.14
29.75	4796.31	5949.09	6768.12	7643.60	8214.05	9009.30	9703.55	10227.45	11002.90
30	4809.19	5963.95	6784.96	7662.42	8233.85	9031.09	9727.32	10251.22	11027.66
30.25	4821.07	5978.80	6801.79	7681.23	8253.66	9052.88	9749.10	10274.99	11052.42
30.5	4833.95	5993.66	6818.63	7700.05	8273.47	9073.68	9771.88	10298.75	11077.18
30.75	4845.83	6008.51	6834.47	7718.87	8293.27	9095.47	9794.66	10321.53	11100.95
31	4858.71	6023.37	6851.31	7736.69	8313.08	9116.26	9816.45	10344.31	11124.71
31.25	4870.59	6038.22	6868.15	7755.51	8332.89	9137.06	9839.23	10367.09	11148.48
31.5	4882.47	6052.09	6883.99	7773.34	8351.71	9157.86	9861.01	10389.87	11172.25
31.75	4895.35	6066.95	6900.83	7791.16	8371.51	9178.66	9882.80	10412.65	11195.03
32	4907.23	6081.80	6916.67	7809.98	8390.33	9199.45	9904.59	10434.43	11217.81
32.25	4919.12	6095.67	6933.51	7827.81	8409.15	9220.25	9925.39	10457.21	11241.58
32.5	4931.00	6110.52	6949.36	7845.63	8428.95	9240.06	9947.18	10479.00	11263.36
32.75	4942.89	6124.39	6965.20	7863.46	8447.77	9260.86	9967.97	10500.79	11286.14
33	4954.77	6138.25	6981.05	7881.28	8466.59	9280.66	9989.76	10522.58	11308.92
33.25	4966.66	6153.11	6996.89	7899.11	8485.40	9300.47	10010.56	10543.37	11330.71
33.5	4978.54	6166.97	7012.74	7915.95	8503.23	9320.28	10031.36	10565.16	11353.49
33.75	4990.42	6180.84	7028.58	7933.77	8522.05	9340.09	10052.15	10586.95	11375.27
34	5002.31	6195.69	7044.43	7951.60	8540.86	9359.89	10071.96	10607.75	11397.06
34.25	5014.19	6209.56	7060.28	7968.44	8558.69	9379.70	10092.76	10628.54	11417.86
34.5	5025.09	6223.42	7076.12	7986.26	8577.51	9399.51	10113.56	10649.34	11439.65
34.75	5036.97	6237.29	7091.97	8003.10	8595.33	9418.32	10133.36	10670.14	11460.45
35	5048.86	6251.15	7106.82	8019.94	8614.15	9438.13	10153.17	10690.94	11482.23
35.25	5059.75	6265.02	7122.67	8037.76	8631.98	9456.95	10172.98	10710.74	11503.03
35.5	5071.63	6278.88	7138.51	8054.60	8649.80	9475.76	10192.79	10731.54	11523.83
35.75	5083.52	6292.75	7153.37	8071.43	8667.63	9495.57	10212.59	10751.35	11544.63
36	5094.41	6305.62	7169.22	8088.27	8685.46	9514.39	10232.40	10771.16	11564.43
36.25	5106.30	6319.49	7184.07	8105.11	8703.28	9533.21	10252.21	10790.96	11585.23
36.5	5117.19	6333.35	7199.92	8121.94	8721.11	9551.03	10271.02	10810.77	11605.04
36.75	5129.07	6347.22	7214.77	8138.78	8737.95	9569.85	10290.83	10830.58	11625.84
37	5139.97	6360.09	7229.63	8155.61	8755.77	9588.67	10309.65	10850.38	11645.64

37.25	5151.85	6373.96	7244.48	8171.46	8773.60	9606.49	10328.46	10870.19	11665.45
37.5	5162.75	6386.83	7260.33	8188.30	8790.44	9625.31	10348.27	10889.01	11685.26
37.75	5173.64	6400.70	7275.18	8205.13	8808.26	9643.14	10367.09	10907.83	11704.07
38	5185.52	6413.57	7290.04	8220.98	8825.10	9661.95	10384.91	10927.63	11723.88
38.25	5196.42	6427.44	7304.90	8237.81	8841.93	9679.78	10403.73	10946.45	11742.70
38.5	5207.31	6440.31	7319.75	8253.66	8859.76	9697.61	10422.55	10965.27	11762.51
38.75	5218.21	6454.18	7334.61	8269.51	8876.60	9715.43	10441.37	10984.08	11781.32
39	5230.09	6467.05	7349.46	8286.34	8893.43	9733.26	10459.19	11002.90	11800.14
39.25	5240.99	6479.93	7364.32	8302.19	8910.27	9751.08	10477.02	11020.73	11818.96
39.5	5251.88	6493.79	7378.18	8318.03	8927.11	9768.91	10495.84	11039.54	11837.77
39.75	5262.77	6506.67	7393.04	8333.88	8943.94	9785.75	10513.66	11057.37	11855.60
40	5273.67	6519.54	7407.89	8349.73	8960.78	9803.57	10531.49	11076.19	11874.42
40.25	5284.56	6532.41	7422.75	8366.56	8976.62	9821.40	10549.31	11094.01	11893.23
40.5	5295.45	6545.29	7436.61	8381.42	8993.46	9838.24	10567.14	11111.84	11911.06
40.75	5306.35	6558.16	7451.47	8397.26	9010.30	9855.07	10584.97	11129.67	11928.89
41	5317.24	6571.04	7465.33	8413.11	9026.14	9872.90	10602.79	11147.49	11946.71
41.25	5328.14	6583.91	7480.19	8428.95	9042.98	9889.73	10619.63	11165.32	11964.54
41.5	5339.03	6596.79	7494.05	8444.80	9058.82	9906.57	10637.46	11183.15	11982.37
41.75	5349.92	6609.66	7508.91	8460.65	9074.67	9923.41	10654.29	11199.98	12000.19
42	5360.82	6622.54	7522.77	8475.50	9091.50	9940.24	10672.12	11217.81	12018.02
42.25	5370.72	6635.41	7536.64	8491.35	9107.35	9957.08	10688.96	11234.64	12034.85
42.5	5381.62	6648.29	7551.50	8506.20	9123.20	9973.92	10705.79	11252.47	12052.68
42.75	5392.51	6661.16	7565.36	8522.05	9139.04	9990.75	10722.63	11269.31	12069.52
43	5403.40	6674.04	7579.23	8536.90	9154.89	10006.60	10739.46	11286.14	12086.35
43.25	5414.30	6685.92	7593.09	8552.75	9170.73	10023.43	10756.30	11302.98	12104.18
43.5	5424.20	6698.80	7606.96	8567.60	9186.58	10040.27	10773.14	11319.81	12121.02
43.75	5435.10	6711.67	7621.81	8582.46	9202.43	10056.12	10789.97	11336.65	12137.85
44	5445.99	6724.54	7635.68	8598.31	9218.27	10072.95	10806.81	11353.49	12154.69
44.25	5455.89	6736.43	7649.54	8613.16	9234.12	10088.80	10822.65	11370.32	12170.53
44.5	5466.79	6749.30	7663.41	8628.02	9249.96	10104.64	10839.49	11386.17	12187.37
44.75	5476.69	6761.19	7677.27	8642.87	9264.82	10120.49	10855.34	11403.01	12204.21
45	5487.58	6774.06	7691.14	8657.73	9280.66	10137.32	10872.17	11419.84	12220.05
45.25	5498.48	6785.95	7704.01	8672.58	9295.52	10153.17	10888.02	11435.69	12235.90
45.5	5508.38	6798.82	7717.88	8687.44	9311.36	10169.02	10903.86	11451.53	12252.73
45.75	5519.28	6810.71	7731.74	8702.29	9326.22	10184.86	10919.71	11467.38	12268.58
46	5529.18	6823.58	7745.61	8717.15	9342.07	10199.72	10936.55	11484.21	12284.43
46.25	5540.07	6835.46	7759.47	8732.00	9356.92	10215.56	10952.39	11500.06	12300.27
46.5	5549.98	6848.34	7772.35	8746.86	9372.77	10231.41	10967.25	11515.91	12316.12
46.75	5559.88	6860.22	7786.21	8760.72	9387.62	10247.25	10983.09	11531.75	12331.96
47	5570.78	6872.11	7800.08	8775.58	9402.48	10262.11	10998.94	11546.61	12347.81
47.25	5580.68	6884.98	7812.95	8790.44	9417.33	10277.96	11014.78	11562.45	12362.66
47.5	5590.58	6896.87	7826.82	8804.30	9432.19	10292.81	11030.63	11578.30	12378.51
47.75	5601.48	6908.75	7839.69	8819.16	9447.04	10308.66	11045.49	11594.14	12394.36
48	5611.38	6920.64	7853.55	8834.01	9461.90	10323.51	11061.33	11609.00	12409.21
48.25	5621.28	6932.52	7866.43	8846.89	9475.76	10337.38	11075.20	11622.86	12422.09
48.5	5632.18	6945.39	7879.30	8860.75	9489.63	10352.23	11089.06	11636.73	12435.95
48.75	5642.08	6957.28	7892.18	8874.62	9504.48	10366.10	11102.93	11649.60	12448.83
49	5651.98	6969.16	7905.05	8888.48	9518.35	10379.96	11115.80	11663.47	12461.70
49.25	5661.89	6981.05	7917.93	8901.36	9531.22	10393.83	11129.67	11676.34	12474.57
49.5	5672.78	6991.94	7930.80	8915.22	9545.09	10407.69	11143.53	11690.21	12488.44
49.75	5682.69	7003.83	7943.68	8929.09	9558.95	10420.57	11157.40	11703.08	12501.31

50	5692.59	7015.71	7956.55	8941.96	9572.82	10434.43	11170.27	11716.95	12514.19
50.25	5702.49	7027.59	7969.43	8955.83	9586.68	10448.30	11184.14	11729.82	12527.06
50.5	5712.40	7039.48	7982.30	8969.69	9600.55	10462.16	11197.01	11742.70	12539.94
50.75	5722.30	7051.36	7994.19	8982.57	9613.42	10475.04	11210.88	11756.56	12551.82
51	5732.20	7063.25	8007.06	8996.43	9627.29	10488.90	11223.75	11769.44	12564.70
51.25	5742.11	7074.14	8019.94	9009.30	9641.15	10502.77	11237.61	11782.31	12577.57
51.5	5752.01	7086.03	8032.81	9022.18	9654.03	10515.64	11250.49	11795.19	12590.45
51.75	5761.91	7097.91	8044.69	9036.04	9667.89	10529.51	11263.36	11808.06	12602.33
52	5771.82	7109.79	8057.57	9048.92	9680.77	10542.38	11276.24	11820.94	12615.21
52.25	5781.72	7120.69	8070.44	9061.79	9694.63	10556.25	11290.10	11833.81	12627.09
52.5	5791.63	7132.57	8082.33	9075.66	9707.51	10569.12	11302.98	11846.69	12639.96
52.75	5801.53	7144.46	8095.20	9088.53	9721.37	10582.00	11315.85	11859.56	12651.85
53	5811.43	7155.35	8108.08	9101.41	9734.25	10595.86	11328.73	11872.44	12664.72
53.25	5821.34	7167.24	8119.96	9114.28	9747.12	10608.74	11341.60	11885.31	12676.61
53.5	5831.24	7179.12	8132.84	9128.15	9760.99	10621.61	11354.48	11897.19	12689.48
53.75	5841.14	7190.01	8144.72	9141.02	9773.86	10635.48	11367.35	11910.07	12701.37
54	5851.05	7201.90	8157.60	9153.90	9786.74	10648.35	11380.23	11922.94	12713.25
54.25	5860.95	7212.79	8169.48	9166.77	9800.60	10661.23	11393.10	11934.83	12725.14
54.5	5870.85	7224.68	8182.35	9179.65	9813.48	10674.10	11405.98	11947.70	12738.01
54.75	5879.77	7235.57	8194.24	9192.52	9826.35	10686.97	11418.85	11960.58	12749.89
55	5889.67	7247.45	8206.12	9205.40	9839.23	10699.85	11430.74	11972.46	12761.78
55.25	5899.57	7258.35	8219.00	9218.27	9852.10	10712.72	11443.61	11985.34	12773.66
55.5	5909.48	7270.23	8230.88	9231.15	9864.98	10725.60	11456.48	11997.22	12785.55
55.75	5919.38	7281.13	8242.77	9244.02	9877.85	10738.47	11469.36	12009.11	12797.43
56	5928.29	7293.01	8255.64	9256.89	9890.73	10751.35	11481.24	12021.98	12809.32
56.25	5938.20	7303.91	8267.53	9269.77	9903.60	10764.22	11494.12	12033.86	12821.20
56.5	5948.10	7315.79	8279.41	9281.65	9916.47	10777.10	11506.00	12045.75	12832.09
56.75	5958.01	7326.68	8291.29	9294.53	9929.35	10789.97	11518.88	12058.62	12843.98
57	5966.92	7337.58	8304.17	9307.40	9942.22	10801.86	11530.76	12070.51	12855.86
57.25	5976.82	7349.46	8316.05	9320.28	9955.10	10814.73	11543.64	12082.39	12867.75
57.5	5986.73	7360.36	8327.94	9333.15	9967.97	10827.61	11555.52	12094.28	12878.64
57.75	5995.64	7371.25	8339.82	9345.04	9980.85	10839.49	11568.40	12106.16	12890.53
58	6005.54	7382.14	8351.71	9357.91	9993.72	10852.36	11580.28	12118.04	12902.41
58.25	6015.45	7394.03	8363.59	9370.79	10005.61	10865.24	11592.16	12130.92	12913.30
58.5	6024.36	7404.92	8376.46	9382.67	10018.48	10877.12	11605.04	12142.80	12925.19
58.75	6034.26	7415.82	8388.35	9395.55	10031.36	10890.00	11616.92	12154.69	12937.07
59	6044.17	7426.71	8400.23	9407.43	10043.24	10901.88	11628.81	12165.58	12947.97
59.25	6053.08	7438.59	8412.12	9420.30	10056.12	10914.76	11640.69	12177.47	12958.86
59.5	6062.98	7449.49	8424.00	9433.18	10068.99	10926.64	11652.58	12189.35	12970.74
59.75	6071.90	7460.38	8435.89	9445.06	10080.87	10939.52	11665.45	12201.24	12981.64
60	6081.80	7471.28	8447.77	9457.94	10093.75	10951.40	11677.33	12213.12	12993.52
60.25	6090.71	7482.17	8459.66	9469.82	10106.62	10964.28	11689.22	12225.00	13004.42
60.5	6100.62	7493.06	8471.54	9482.70	10118.51	10976.16	11701.10	12236.89	13015.31
60.75	6109.53	7504.95	8483.42	9494.58	10131.38	10988.04	11712.99	12247.78	13027.20
61	6119.43	7515.84	8494.32	9506.47	10143.27	11000.92	11724.87	12259.67	13038.09
61.25	6128.35	7526.74	8506.20	9519.34	10156.14	11012.80	11736.76	12271.55	13048.98
61.5	6138.25	7537.63	8518.09	9531.22	10168.03	11024.69	11748.64	12282.44	13059.88
61.75	6147.16	7548.52	8529.97	9544.10	10179.91	11037.56	11760.53	12294.33	13071.76
62	6157.07	7559.42	8541.86	9555.98	10192.79	11049.45	11772.41	12306.21	13082.66
62.25	6165.98	7570.31	8553.74	9567.87	10204.67	11061.33	11784.29	12317.11	13093.55
62.5	6175.88	7581.21	8565.62	9579.75	10217.54	11073.22	11795.19	12328.99	13104.44

62.75	6184.80	7592.10	8576.52	9592.63	10229.43	11085.10	11807.07	12339.89	13115.34
63	6194.70	7602.99	8588.40	9604.51	10241.31	11096.98	11818.96	12351.77	13126.23
63.25	6203.62	7613.89	8600.29	9616.40	10254.19	11108.87	11830.84	12362.66	13137.13
63.5	6212.53	7624.78	8612.17	9628.28	10266.07	11121.74	11842.72	12374.55	13148.02
63.75	6222.43	7635.68	8623.06	9641.15	10277.96	11133.63	11853.62	12385.44	13158.91
64	6231.35	7646.57	8634.95	9653.04	10289.84	11145.51	11865.50	12396.34	13169.81
64.25	6241.25	7657.46	8646.83	9664.92	10301.72	11157.40	11877.39	12408.22	13180.70
64.5	6250.16	7668.36	8657.73	9676.81	10314.60	11169.28	11888.28	12419.11	13191.60
64.75	6259.08	7678.26	8669.61	9688.69	10326.48	11181.16	11900.17	12431.00	13201.50
65	6268.98	7689.16	8681.50	9700.58	10338.37	11192.06	11911.06	12441.89	13212.39
65.25	6277.89	7700.05	8692.39	9712.46	10350.25	11203.94	11922.94	12452.79	13223.29
65.5	6286.81	7710.94	8704.27	9725.34	10362.14	11215.83	11934.83	12463.68	13234.18
65.75	6296.71	7721.84	8716.16	9737.22	10374.02	11227.71	11945.72	12475.56	13245.07
66	6305.62	7732.73	8727.05	9749.10	10385.91	11239.60	11957.61	12486.46	13254.98
66.25	6314.54	7743.62	8738.94	9760.99	10397.79	11251.48	11968.50	12497.35	13265.87
66.5	6323.45	7753.53	8749.83	9772.87	10409.67	11263.36	11980.38	12508.25	13276.77
66.75	6333.35	7764.42	8761.71	9784.76	10421.56	11274.26	11991.28	12519.14	13286.67
67	6342.27	7775.32	8772.61	9796.64	10433.44	11286.14	12002.17	12530.03	13297.56
67.25	6351.18	7786.21	8784.49	9808.53	10445.33	11298.03	12014.06	12540.93	13308.46
67.5	6360.09	7797.10	8795.39	9819.42	10457.21	11309.91	12024.95	12551.82	13318.36
67.75	6370.00	7807.01	8807.27	9831.30	10469.10	11320.81	12036.84	12563.71	13329.26
68	6378.91	7817.90	8818.17	9843.19	10480.98	11332.69	12047.73	12574.60	13339.16
68.25	6387.82	7828.80	8830.05	9855.07	10492.86	11344.57	12058.62	12585.49	13350.05
68.5	6396.74	7838.70	8840.94	9866.96	10504.75	11355.47	12070.51	12596.39	13359.96
68.75	6406.64	7849.59	8852.83	9878.84	10516.63	11367.35	12081.40	12607.28	13370.85
69	6415.55	7860.49	8863.72	9890.73	10528.52	11379.24	12092.30	12617.19	13380.75
69.25	6424.47	7871.38	8874.62	9902.61	10540.40	11390.13	12103.19	12628.08	13391.65
69.5	6433.38	7881.28	8886.50	9913.50	10551.30	11402.01	12114.08	12638.97	13401.55
69.75	6442.29	7892.18	8897.39	9925.39	10563.18	11412.91	12125.97	12649.87	13412.45
70	6451.21	7902.08	8909.28	9937.27	10575.06	11424.79	12136.86	12660.76	13422.35
70.25	6461.11	7912.98	8920.17	9949.16	10586.95	11435.69	12147.76	12671.66	13432.25
70.5	6470.02	7923.87	8931.07	9960.05	10598.83	11447.57	12158.65	12682.55	13443.15
70.75	6478.94	7933.77	8942.95	9971.93	10609.73	11458.47	12169.54	12693.44	13453.05
71	6487.85	7944.67	8953.84	9983.82	10621.61	11470.35	12180.44	12703.35	13462.95
71.25	6496.76	7955.56	8964.74	9995.70	10633.50	11481.24	12192.32	12714.24	13473.85
71.5	6505.67	7965.47	8976.62	10006.60	10644.39	11493.13	12203.22	12725.14	13483.75
71.75	6514.59	7976.36	8987.52	10018.48	10656.27	11504.02	12214.11	12736.03	13493.66
72	6523.50	7986.26	8998.41	10030.37	10668.16	11515.91	12225.00	12745.93	13503.56
72.25	6532.41	7997.16	9009.30	10041.26	10679.05	11526.80	12235.90	12756.83	13514.45
72.5	6542.32	8007.06	9021.19	10053.14	10690.94	11537.69	12246.79	12767.72	13524.36
72.75	6551.23	8017.95	9032.08	10065.03	10702.82	11549.58	12257.69	12777.62	13534.26
73	6560.14	8028.85	9042.98	10075.92	10713.71	11560.47	12268.58	12788.52	13544.16
73.25	6569.06	8038.75	9053.87	10087.81	10725.60	11571.37	12279.47	12799.41	13554.07
73.5	6577.97	8049.65	9064.77	10098.70	10736.49	11583.25	12290.37	12809.32	13564.96
73.75	6586.88	8059.55	9076.65	10110.59	10748.38	11594.14	12300.27	12820.21	13574.86
74	6595.80	8070.44	9087.54	10121.48	10760.26	11605.04	12311.17	12831.10	13584.77
74.25	6604.71	8080.35	9098.44	10133.36	10771.16	11616.92	12322.06	12841.01	13594.67
74.5	6613.62	8090.25	9109.33	10144.26	10783.04	11627.82	12332.95	12851.90	13604.58
74.75	6622.54	8101.14	9120.23	10156.14	10793.93	11638.71	12343.85	12861.81	13614.48
75	6631.45	8111.05	9131.12	10168.03	10805.82	11649.60	12354.74	12872.70	13624.38
75.25	6640.36	8121.94	9143.00	10178.92	10816.71	11660.50	12365.63	12882.60	13634.29

75.5	6649.28	8131.85	9153.90	10189.81	10828.60	11672.38	12376.53	12893.50	13644.19
75.75	6658.19	8142.74	9164.79	10201.70	10839.49	11683.28	12386.43	12903.40	13654.09
76	6667.10	8152.64	9175.69	10212.59	10850.38	11694.17	12397.33	12914.29	13664.00
76.25	6676.02	8163.54	9186.58	10224.48	10862.27	11705.06	12408.22	12924.20	13673.90
76.5	6684.93	8173.44	9197.47	10235.37	10873.16	11715.96	12419.11	12935.09	13683.80
76.75	6693.84	8183.34	9208.37	10247.25	10885.05	11726.85	12429.02	12945.00	13693.71
77	6702.76	8194.24	9219.26	10258.15	10895.94	11737.75	12439.91	12954.90	13703.61
77.25	6711.67	8204.14	9230.16	10270.03	10907.83	11749.63	12450.81	12965.79	13713.51
77.5	6720.58	8215.04	9241.05	10280.93	10918.72	11760.53	12461.70	12975.70	13723.42
77.75	6729.50	8224.94	9251.94	10291.82	10929.61	11771.42	12471.60	12986.59	13733.32
78	6737.42	8234.84	9262.84	10303.71	10941.50	11782.31	12482.50	12996.49	13742.24
78.25	6746.33	8245.74	9273.73	10314.60	10952.39	11793.21	12493.39	13006.40	13752.14
78.5	6755.25	8255.64	9284.63	10325.49	10963.29	11804.10	12503.30	13017.29	13762.04
78.75	6764.16	8265.54	9295.52	10337.38	10975.17	11814.99	12514.19	13027.20	13771.95
79	6773.07	8276.44	9306.41	10348.27	10986.06	11825.89	12525.08	13037.10	13781.85
79.25	6781.99	8286.34	9317.31	10359.17	10996.96	11836.78	12534.99	13047.99	13791.75
79.5	6790.90	8296.25	9328.20	10371.05	11007.85	11847.68	12545.88	13057.90	13800.67
79.75	6799.81	8307.14	9339.09	10381.94	11019.74	11858.57	12555.78	13067.80	13810.57
80	6808.73	8317.04	9349.99	10392.84	11030.63	11869.46	12566.68	13077.70	13820.47
80.25	6817.64	8326.95	9360.88	10403.73	11041.52	11880.36	12576.58	13088.60	13830.38
80.5	6825.56	8336.85	9371.78	10415.62	11052.42	11891.25	12587.48	13098.50	13839.29
80.75	6834.47	8347.74	9382.67	10426.51	11064.30	11902.15	12598.37	13108.40	13849.19
81	6843.39	8357.65	9393.56	10437.40	11075.20	11913.04	12608.27	13118.31	13859.10
81.25	6852.30	8367.55	9404.46	10448.30	11086.09	11922.94	12619.17	13128.21	13869.00
81.5	6861.21	8377.46	9414.36	10460.18	11096.98	11933.84	12629.07	13139.11	13877.91
81.75	6870.13	8388.35	9425.26	10471.08	11107.88	11944.73	12639.96	13149.01	13887.82
82	6878.05	8398.25	9436.15	10481.97	11119.76	11955.63	12649.87	13158.91	13897.72
82.25	6886.96	8408.16	9447.04	10492.86	11130.66	11966.52	12660.76	13168.82	13906.64
82.5	6895.88	8418.06	9457.94	10503.76	11141.55	11977.41	12670.67	13178.72	13916.54
82.75	6904.79	8428.95	9468.83	10515.64	11152.44	11988.31	12681.56	13188.62	13926.44
83	6913.70	8438.86	9479.73	10526.54	11163.34	11998.21	12691.46	13199.52	13935.36
83.25	6922.62	8448.76	9489.63	10537.43	11174.23	12009.11	12701.37	13209.42	13945.26
83.5	6930.54	8458.66	9500.52	10548.32	11185.13	12020.00	12712.26	13219.33	13955.16
83.75	6939.45	8468.57	9511.42	10559.22	11196.02	12030.89	12722.16	13229.23	13964.08
84	6948.37	8479.46	9522.31	10570.11	11207.90	12041.79	12733.06	13239.13	13973.98
84.25	6957.28	8489.37	9533.21	10582.00	11218.80	12051.69	12742.96	13249.04	13982.89
84.5	6965.20	8499.27	9544.10	10592.89	11229.69	12062.58	12752.87	13258.94	13992.80
84.75	6974.12	8509.17	9554.00	10603.78	11240.59	12073.48	12763.76	13268.84	14002.70
85	6983.03	8519.08	9564.90	10614.68	11251.48	12084.37	12773.66	13278.75	14011.61
85.25	6991.94	8528.98	9575.79	10625.57	11262.37	12095.27	12784.56	13288.65	14021.52
85.5	7000.85	8539.87	9586.68	10636.47	11273.27	12105.17	12794.46	13298.55	14030.43
85.75	7008.78	8549.78	9596.59	10647.36	11284.16	12116.06	12804.36	13308.46	14040.33
86	7017.69	8559.68	9607.48	10658.25	11295.06	12126.96	12815.26	13318.36	14049.25
86.25	7026.60	8569.59	9618.38	10669.15	11305.95	12136.86	12825.16	13328.26	14059.15
86.5	7035.52	8579.49	9629.27	10680.04	11316.84	12147.76	12835.07	13338.17	14068.06
86.75	7043.44	8589.39	9639.17	10690.94	11327.74	12158.65	12845.96	13348.07	14077.97
87	7052.35	8599.30	9650.07	10701.83	11338.63	12168.55	12855.86	13357.98	14086.88
87.25	7061.27	8609.20	9660.96	10712.72	11349.53	12179.45	12865.77	13367.88	14096.78
87.5	7069.19	8620.09	9671.86	10723.62	11360.42	12190.34	12875.67	13377.78	14105.70
87.75	7078.10	8630.00	9681.76	10734.51	11371.31	12200.24	12886.56	13387.69	14115.60
88	7087.02	8639.90	9692.65	10745.41	11382.21	12211.14	12896.47	13397.59	14124.51

88.25	7095.93	8649.80	9703.55	10756.30	11393.10	12222.03	12906.37	13407.49	14134.42
88.5	7103.85	8659.71	9713.45	10767.19	11404.00	12231.94	12916.28	13417.40	14143.33
88.75	7112.77	8669.61	9724.34	10778.09	11414.89	12242.83	12927.17	13427.30	14152.24
89	7121.68	8679.52	9735.24	10788.98	11425.78	12253.72	12937.07	13437.20	14162.15
89.25	7129.60	8689.42	9745.14	10799.88	11436.68	12263.63	12946.98	13447.11	14171.06
89.5	7138.51	8699.32	9756.04	10810.77	11446.58	12274.52	12956.88	13457.01	14180.96
89.75	7147.43	8709.23	9766.93	10821.66	11457.47	12284.43	12967.77	13465.92	14189.88
90	7155.35	8719.13	9776.83	10832.56	11468.37	12295.32	12977.68	13475.83	14198.79
90.25	7164.26	8729.03	9787.73	10843.45	11479.26	12306.21	12987.58	13485.73	14208.69
90.5	7173.18	8738.94	9798.62	10854.35	11490.16	12316.12	12997.48	13495.64	14217.61
90.75	7181.10	8748.84	9808.53	10865.24	11501.05	12327.01	13007.39	13505.54	14227.51
91	7190.01	8758.74	9819.42	10876.13	11511.94	12336.91	13018.28	13515.44	14236.43
91.25	7198.93	8768.65	9830.31	10887.03	11522.84	12347.81	13028.19	13525.35	14245.34
91.5	7206.85	8778.55	9840.22	10897.92	11532.74	12357.71	13038.09	13534.26	14255.24
91.75	7215.76	8789.45	9851.11	10908.82	11543.64	12368.61	13047.99	13544.16	14264.16
92	7224.68	8799.35	9861.01	10919.71	11554.53	12379.50	13057.90	13554.07	14273.07
92.25	7232.60	8809.25	9871.91	10929.61	11565.42	12389.40	13067.80	13563.97	14282.97
92.5	7241.51	8819.16	9882.80	10940.51	11576.32	12400.30	13077.70	13573.87	14291.89
92.75	7250.43	8829.06	9892.71	10951.40	11587.21	12410.20	13088.60	13583.78	14300.80
93	7258.35	8838.96	9903.60	10962.29	11598.11	12421.10	13098.50	13592.69	14310.70
93.25	7267.26	8848.87	9913.50	10973.19	11608.01	12431.00	13108.40	13602.59	14319.62
93.5	7276.17	8857.78	9924.40	10984.08	11618.90	12441.89	13118.31	13612.50	14328.53
93.75	7284.10	8867.68	9934.30	10994.98	11629.80	12451.80	13128.21	13622.40	14338.43
94	7293.01	8877.59	9945.20	11004.88	11640.69	12462.69	13138.12	13632.31	14347.35
94.25	7300.93	8887.49	9956.09	11015.77	11651.59	12472.59	13148.02	13641.22	14356.26
94.5	7309.85	8897.39	9965.99	11026.67	11661.49	12483.49	13157.92	13651.12	14366.16
94.75	7318.76	8907.30	9976.89	11037.56	11672.38	12493.39	13167.83	13661.03	14375.08
95	7326.68	8917.20	9986.79	11048.46	11683.28	12503.30	13177.73	13670.93	14383.99
95.25	7335.60	8927.11	9997.68	11059.35	11694.17	12514.19	13188.62	13679.84	14392.90
95.5	7343.52	8937.01	10007.59	11069.25	11704.07	12524.09	13198.53	13689.75	14402.81
95.75	7352.43	8946.91	10018.48	11080.15	11714.97	12534.99	13208.43	13699.65	14411.72
96	7361.35	8956.82	10028.39	11091.04	11725.86	12544.89	13218.33	13709.55	14420.63

**WITHYHEDGE LANDFILL
PHASE 2 SURFACE WATER
MANAGEMENT SYSTEM**

**Design and Construction
Validation Report**

**Appendix 6
Cumulative Volume of
Runoff from Working Area
(Area 3)**

Report Number 2548r1v1d0425

Table 6	Area 3	Cumulative Volume of Runoff	Climate Change Factor	40%
	Site Area Ha	4.27	Runoff Coefficient	0.6

Duration	Cumulative Volume of Runoff from Working Area in m3 for Return Period								
	Hrs	2 Year	5 Year	10 Year	20 Year	30 Year	50 Year	75 Year	100 Year
0.25	264.71	376.61	454.81	526.18	567.79	618.72	661.41	692.97	737.09
0.5	360.83	519.37	626.97	730.99	793.04	871.59	935.44	981.71	1048.42
0.75	425.75	613.70	742.11	871.59	946.92	1042.32	1121.23	1178.98	1262.19
1	477.76	687.95	834.65	980.27	1066.00	1176.47	1266.14	1331.78	1427.91
1.25	530.13	752.15	906.38	1058.82	1148.49	1263.99	1358.32	1427.55	1528.34
1.5	578.55	808.46	967.00	1123.39	1215.21	1333.93	1431.13	1502.51	1606.89
1.75	623.74	858.68	1020.09	1179.34	1272.96	1393.47	1493.18	1566.36	1673.24
2	665.35	904.59	1067.79	1229.20	1323.89	1445.84	1547.70	1622.31	1731.35
2.25	701.58	946.56	1112.63	1277.26	1374.10	1498.92	1602.58	1679.34	1791.61
2.5	735.29	985.29	1154.23	1321.74	1420.73	1548.06	1653.87	1732.42	1847.56
2.75	766.50	1021.52	1192.97	1363.34	1464.13	1593.97	1701.94	1781.92	1899.93
3	795.91	1054.88	1229.20	1402.08	1505.02	1637.02	1747.13	1828.91	1949.78
3.25	823.53	1086.44	1263.27	1438.67	1543.40	1677.91	1789.81	1873.03	1997.13
3.5	849.35	1116.21	1295.19	1473.10	1579.63	1716.64	1830.70	1915.35	2042.32
3.75	874.10	1144.55	1325.68	1505.74	1614.06	1753.59	1869.44	1955.88	2085.72
4	897.42	1171.09	1354.73	1536.94	1647.06	1788.74	1906.74	1994.62	2127.33
4.25	920.01	1196.56	1381.99	1566.71	1677.91	1822.09	1942.25	2031.92	2167.14
4.5	941.18	1220.23	1407.82	1595.05	1707.68	1854.02	1976.33	2067.79	2205.88
4.75	961.26	1243.18	1432.93	1621.95	1736.37	1884.86	2009.33	2102.58	2243.18
5	980.63	1265.06	1456.60	1648.13	1763.63	1914.63	2040.89	2135.94	2279.41
5.25	999.28	1286.23	1479.56	1673.24	1790.17	1942.97	2071.74	2168.22	2314.20
5.5	1017.22	1306.31	1501.43	1697.27	1815.64	1970.95	2101.51	2199.78	2348.28
5.75	1034.43	1325.68	1522.96	1720.59	1840.03	1997.49	2130.56	2230.27	2381.64
6	1050.93	1344.33	1543.40	1743.18	1864.06	2023.67	2158.54	2260.04	2413.92
6.25	1066.71	1362.27	1563.13	1765.06	1887.02	2048.78	2185.80	2289.10	2445.84
6.5	1082.14	1379.84	1582.14	1786.23	1909.61	2073.53	2212.70	2317.79	2477.04
6.75	1096.84	1396.70	1600.79	1806.67	1931.49	2097.20	2238.52	2345.41	2507.53
7	1110.83	1412.84	1618.72	1826.40	1952.65	2120.52	2263.99	2372.31	2537.30
7.25	1124.82	1428.98	1635.94	1845.77	1973.10	2143.11	2288.38	2398.85	2566.36
7.5	1138.09	1444.05	1653.16	1864.42	1993.54	2165.35	2312.77	2424.68	2595.05
7.75	1151.00	1459.11	1669.66	1882.71	2012.91	2186.87	2336.44	2449.78	2623.03
8	1163.56	1473.82	1685.44	1900.65	2032.28	2208.03	2359.40	2474.53	2650.29
8.25	1175.75	1487.80	1701.22	1917.86	2050.93	2228.84	2381.99	2498.92	2677.19
8.5	1187.59	1501.79	1716.64	1935.08	2069.22	2248.92	2404.23	2522.60	2703.37
8.75	1199.43	1515.06	1731.35	1951.58	2087.16	2268.65	2425.75	2545.91	2729.20
9	1210.55	1528.34	1746.05	1968.08	2104.73	2288.38	2447.27	2568.87	2754.66
9.25	1221.66	1540.89	1760.04	1983.86	2121.59	2307.39	2468.08	2591.10	2779.41
9.5	1232.42	1553.44	1774.03	1999.28	2138.45	2326.04	2488.88	2613.34	2803.80
9.75	1242.83	1565.64	1787.66	2014.71	2154.95	2344.33	2508.97	2634.86	2827.83
10	1253.23	1577.83	1800.93	2029.77	2171.45	2362.27	2528.69	2656.38	2851.51
10.25	1263.27	1589.31	1814.20	2044.12	2187.23	2380.20	2548.42	2677.19	2874.46
10.5	1272.96	1601.15	1826.76	2058.82	2202.65	2397.42	2567.43	2697.99	2897.42
10.75	1282.64	1612.27	1839.31	2072.81	2218.08	2414.63	2586.44	2718.44	2920.01
11	1291.97	1623.39	1851.86	2086.80	2233.14	2431.49	2605.09	2738.16	2941.89
11.25	1301.29	1634.15	1863.70	2100.43	2247.85	2447.99	2623.39	2757.89	2963.77
11.5	1310.26	1644.55	1875.90	2113.70	2262.55	2464.49	2641.32	2777.26	2985.29

11.75	1319.23	1654.95	1887.37	2126.97	2276.90	2480.63	2659.25	2796.63	3006.46
12	1327.83	1665.35	1898.85	2139.88	2290.89	2496.41	2676.83	2815.28	3027.26
12.25	1336.44	1675.39	1909.97	2152.80	2304.88	2512.19	2694.05	2834.29	3047.70
12.5	1344.69	1685.08	1921.09	2165.35	2318.51	2527.62	2711.26	2852.58	3068.15
12.75	1352.94	1694.76	1932.21	2177.90	2332.14	2543.04	2728.48	2870.87	3087.88
13	1360.83	1704.45	1942.61	2190.10	2345.41	2558.11	2744.98	2888.81	3107.60
13.25	1368.72	1713.77	1953.37	2201.94	2358.68	2572.81	2761.84	2906.74	3126.97
13.5	1376.61	1722.74	1963.77	2214.13	2371.59	2587.52	2777.98	2923.96	3145.98
13.75	1384.15	1732.07	1973.82	2225.61	2384.15	2602.22	2794.12	2941.18	3164.99
14	1391.68	1740.67	1983.86	2237.09	2396.70	2616.57	2809.90	2958.39	3183.64
14.25	1399.21	1749.64	1993.90	2248.56	2409.25	2630.56	2825.68	2975.25	3201.58
14.5	1406.74	1758.25	2003.59	2259.68	2421.45	2644.55	2841.10	2991.75	3219.87
14.75	1413.92	1766.86	2013.27	2270.80	2433.64	2658.18	2856.17	3007.89	3237.45
15	1420.73	1775.11	2022.96	2281.92	2445.48	2671.81	2871.23	3024.03	3255.02
15.25	1427.91	1783.72	2032.28	2292.68	2457.32	2685.08	2885.94	3040.17	3272.60
15.5	1434.72	1791.97	2041.61	2303.44	2468.79	2698.35	2900.65	3055.59	3289.45
15.75	1441.53	1799.86	2050.93	2313.84	2480.27	2711.26	2915.35	3071.38	3306.31
16	1448.35	1807.75	2059.90	2324.25	2491.75	2724.17	2929.34	3086.44	3323.17
16.25	1455.16	1815.64	2068.87	2334.29	2502.87	2737.09	2943.69	3101.51	3339.31
16.5	1461.62	1823.53	2077.47	2344.69	2513.99	2749.64	2957.68	3116.57	3355.45
16.75	1468.08	1831.42	2086.44	2354.73	2525.11	2762.19	2971.31	3131.28	3371.59
17	1474.53	1838.95	2095.05	2364.42	2535.87	2774.39	2984.93	3145.98	3387.37
17.25	1480.63	1846.48	2103.30	2374.10	2546.63	2786.58	2998.56	3160.33	3403.16
17.5	1487.09	1853.66	2111.91	2383.79	2557.03	2798.78	3011.84	3174.32	3418.58
17.75	1493.18	1861.19	2120.16	2393.47	2567.43	2810.62	3024.75	3188.31	3433.64
18	1499.28	1868.36	2128.41	2402.80	2577.83	2822.09	3038.02	3202.30	3448.71
18.25	1505.02	1875.54	2136.30	2412.12	2587.88	2833.57	3050.57	3215.92	3463.41
18.5	1511.12	1882.71	2144.55	2421.09	2597.92	2845.05	3062.77	3229.20	3477.76
18.75	1516.86	1889.53	2152.08	2430.06	2607.96	2856.17	3075.32	3242.11	3492.11
19	1522.60	1896.34	2159.97	2439.02	2617.65	2867.29	3087.52	3255.02	3506.10
19.25	1528.34	1903.51	2167.86	2447.99	2627.33	2878.05	3099.35	3267.93	3520.09
19.5	1533.72	1909.97	2175.39	2456.60	2637.02	2889.17	3111.19	3280.49	3533.72
19.75	1539.45	1916.79	2182.93	2465.21	2646.34	2899.57	3123.03	3293.04	3547.35
20	1545.19	1923.60	2190.46	2473.82	2656.03	2910.33	3134.86	3305.59	3560.62
20.25	1550.57	1930.06	2197.99	2482.42	2665.35	2920.73	3146.34	3317.79	3573.89
20.5	1555.95	1936.87	2205.52	2491.03	2674.32	2931.13	3157.46	3329.99	3587.16
20.75	1561.33	1943.33	2212.70	2499.28	2683.64	2941.53	3168.94	3341.82	3600.07
21	1566.71	1949.78	2219.87	2507.53	2692.61	2951.94	3180.06	3353.66	3612.62
21.25	1572.09	1956.24	2227.40	2515.78	2701.58	2961.98	3191.18	3365.49	3625.54
21.5	1577.47	1962.34	2234.58	2524.03	2710.54	2972.02	3201.94	3376.97	3637.73
21.75	1582.50	1968.79	2241.39	2531.92	2719.51	2981.71	3212.70	3388.45	3650.29
22	1587.88	1975.25	2248.56	2540.17	2728.48	2991.75	3223.46	3399.93	3662.48
22.25	1592.90	1981.35	2255.74	2548.06	2737.09	3001.43	3234.22	3411.05	3674.68
22.5	1598.28	1987.45	2262.55	2555.95	2745.70	3011.12	3244.62	3422.17	3686.51
22.75	1603.30	1993.54	2269.37	2563.84	2754.30	3020.80	3255.02	3433.28	3698.35
23	1608.32	1999.64	2276.18	2571.74	2762.91	3030.13	3265.42	3444.05	3710.19
23.25	1613.34	2005.74	2283.00	2579.27	2771.16	3039.81	3275.82	3454.81	3721.66
23.5	1618.36	2011.84	2289.81	2587.16	2779.77	3049.14	3285.87	3465.57	3733.14
23.75	1623.39	2017.93	2296.63	2594.69	2788.02	3058.46	3295.91	3475.97	3744.26
24	1628.41	2023.67	2303.44	2602.22	2796.27	3067.43	3305.95	3486.73	3755.74
24.25	1633.43	2029.77	2310.26	2610.11	2804.52	3076.76	3315.64	3497.13	3766.86

24.5	1638.09	2035.87	2317.07	2617.65	2812.77	3085.72	3325.68	3507.17	3777.62
24.75	1643.11	2041.61	2323.53	2625.18	2821.02	3094.69	3335.37	3517.57	3788.38
25	1648.13	2047.70	2330.34	2632.71	2829.27	3103.66	3345.05	3527.62	3799.14
25.25	1652.80	2053.44	2336.80	2640.24	2837.16	3112.63	3354.38	3537.66	3809.90
25.5	1657.82	2059.18	2343.62	2647.78	2845.41	3121.59	3364.06	3547.70	3820.30
25.75	1662.48	2065.28	2350.07	2654.95	2853.30	3130.20	3373.39	3557.39	3830.70
26	1667.50	2071.02	2356.53	2662.48	2861.19	3139.17	3382.71	3567.07	3841.10
26.25	1672.17	2076.76	2363.34	2669.66	2869.08	3147.78	3392.04	3576.76	3851.51
26.5	1677.19	2082.50	2369.80	2677.19	2876.97	3156.38	3401.36	3586.44	3861.55
26.75	1681.85	2088.23	2376.26	2684.36	2884.86	3164.99	3410.33	3596.13	3871.59
27	1686.51	2093.62	2382.71	2691.53	2892.40	3173.24	3419.30	3605.45	3881.63
27.25	1691.18	2099.35	2388.81	2698.71	2900.29	3181.85	3428.26	3614.78	3891.32
27.5	1695.84	2105.09	2395.27	2705.88	2907.82	3190.10	3437.23	3624.10	3901.00
27.75	1700.50	2110.83	2401.72	2713.06	2915.71	3198.35	3446.20	3633.07	3910.69
28	1705.16	2116.21	2407.82	2719.87	2923.24	3206.60	3454.81	3642.40	3920.37
28.25	1709.83	2121.95	2414.28	2727.04	2930.77	3214.85	3463.41	3651.36	3929.70
28.5	1714.49	2127.33	2420.37	2733.86	2937.95	3223.10	3472.38	3660.33	3939.38
28.75	1719.15	2132.71	2426.47	2741.03	2945.48	3230.99	3480.63	3669.30	3948.71
29	1723.82	2138.45	2432.93	2747.85	2953.01	3239.24	3489.24	3678.26	3957.68
29.25	1728.12	2143.83	2439.02	2754.66	2960.19	3247.13	3497.85	3686.87	3967.00
29.5	1732.78	2149.21	2445.12	2761.48	2967.72	3255.02	3506.10	3695.48	3975.97
29.75	1737.09	2154.59	2451.22	2768.29	2974.89	3262.91	3514.35	3704.09	3984.93
30	1741.75	2159.97	2457.32	2775.11	2982.07	3270.80	3522.95	3712.70	3993.90
30.25	1746.05	2165.35	2463.41	2781.92	2989.24	3278.69	3530.85	3721.31	4002.87
30.5	1750.72	2170.73	2469.51	2788.74	2996.41	3286.23	3539.10	3729.91	4011.84
30.75	1755.02	2176.11	2475.25	2795.55	3003.59	3294.12	3547.35	3738.16	4020.44
31	1759.68	2181.49	2481.35	2802.01	3010.76	3301.65	3555.24	3746.41	4029.05
31.25	1763.99	2186.87	2487.45	2808.82	3017.93	3309.18	3563.49	3754.66	4037.66
31.5	1768.29	2191.89	2493.18	2815.28	3024.75	3316.71	3571.38	3762.91	4046.27
31.75	1772.96	2197.27	2499.28	2821.74	3031.92	3324.25	3579.27	3771.16	4054.52
32	1777.26	2202.65	2505.02	2828.55	3038.74	3331.78	3587.16	3779.05	4062.77
32.25	1781.56	2207.68	2511.12	2835.01	3045.55	3339.31	3594.69	3787.30	4071.38
32.5	1785.87	2213.06	2516.86	2841.46	3052.73	3346.48	3602.58	3795.19	4079.27
32.75	1790.17	2218.08	2522.60	2847.92	3059.54	3354.02	3610.11	3803.08	4087.52
33	1794.48	2223.10	2528.34	2854.38	3066.36	3361.19	3618.01	3810.98	4095.77
33.25	1798.78	2228.48	2534.07	2860.83	3073.17	3368.36	3625.54	3818.51	4103.66
33.5	1803.08	2233.50	2539.81	2866.93	3079.63	3375.54	3633.07	3826.40	4111.91
33.75	1807.39	2238.52	2545.55	2873.39	3086.44	3382.71	3640.60	3834.29	4119.80
34	1811.69	2243.90	2551.29	2879.84	3093.26	3389.88	3647.78	3841.82	4127.69
34.25	1816.00	2248.92	2557.03	2885.94	3099.71	3397.06	3655.31	3849.35	4135.22
34.5	1819.94	2253.95	2562.77	2892.40	3106.53	3404.23	3662.84	3856.89	4143.11
34.75	1824.25	2258.97	2568.51	2898.49	3112.98	3411.05	3670.01	3864.42	4150.64
35	1828.55	2263.99	2573.89	2904.59	3119.80	3418.22	3677.19	3871.95	4158.54
35.25	1832.50	2269.01	2579.63	2911.05	3126.25	3425.04	3684.36	3879.12	4166.07
35.5	1836.80	2274.03	2585.37	2917.14	3132.71	3431.85	3691.53	3886.66	4173.60
35.75	1841.10	2279.05	2590.75	2923.24	3139.17	3439.02	3698.71	3893.83	4181.13
36	1845.05	2283.72	2596.48	2929.34	3145.62	3445.84	3705.88	3901.00	4188.31
36.25	1849.35	2288.74	2601.86	2935.44	3152.08	3452.65	3713.06	3908.18	4195.84
36.5	1853.30	2293.76	2607.60	2941.53	3158.54	3459.11	3719.87	3915.35	4203.01
36.75	1857.60	2298.78	2612.98	2947.63	3164.63	3465.92	3727.04	3922.52	4210.54
37	1861.55	2303.44	2618.36	2953.73	3171.09	3472.74	3733.86	3929.70	4217.72

37.25	1865.85	2308.46	2623.74	2959.47	3177.55	3479.20	3740.67	3936.87	4224.89
37.5	1869.80	2313.13	2629.48	2965.57	3183.64	3486.01	3747.85	3943.69	4232.07
37.75	1873.74	2318.15	2634.86	2971.66	3190.10	3492.47	3754.66	3950.50	4238.88
38	1878.05	2322.81	2640.24	2977.40	3196.20	3499.28	3761.12	3957.68	4246.05
38.25	1881.99	2327.83	2645.62	2983.50	3202.30	3505.74	3767.93	3964.49	4252.87
38.5	1885.94	2332.50	2651.00	2989.24	3208.75	3512.19	3774.75	3971.30	4260.04
38.75	1889.88	2337.52	2656.38	2994.98	3214.85	3518.65	3781.56	3978.12	4266.86
39	1894.19	2342.18	2661.76	3001.08	3220.95	3525.11	3788.02	3984.93	4273.67
39.25	1898.13	2346.84	2667.14	3006.81	3227.04	3531.56	3794.48	3991.39	4280.49
39.5	1902.08	2351.86	2672.17	3012.55	3233.14	3538.02	3801.29	3998.21	4287.30
39.75	1906.03	2356.53	2677.55	3018.29	3239.24	3544.12	3807.75	4004.66	4293.76
40	1909.97	2361.19	2682.93	3024.03	3245.34	3550.57	3814.20	4011.48	4300.57
40.25	1913.92	2365.85	2688.31	3030.13	3251.08	3557.03	3820.66	4017.93	4307.39
40.5	1917.86	2370.52	2693.33	3035.51	3257.17	3563.13	3827.12	4024.39	4313.84
40.75	1921.81	2375.18	2698.71	3041.25	3263.27	3569.22	3833.57	4030.85	4320.30
41	1925.75	2379.84	2703.73	3046.99	3269.01	3575.68	3840.03	4037.30	4326.76
41.25	1929.70	2384.50	2709.11	3052.73	3275.11	3581.78	3846.13	4043.76	4333.21
41.5	1933.64	2389.17	2714.13	3058.46	3280.85	3587.88	3852.58	4050.21	4339.67
41.75	1937.59	2393.83	2719.51	3064.20	3286.58	3593.97	3858.68	4056.31	4346.13
42	1941.53	2398.49	2724.53	3069.58	3292.68	3600.07	3865.14	4062.77	4352.58
42.25	1945.12	2403.16	2729.55	3075.32	3298.42	3606.17	3871.23	4068.87	4358.68
42.5	1949.07	2407.82	2734.94	3080.70	3304.16	3612.27	3877.33	4075.32	4365.14
42.75	1953.01	2412.48	2739.96	3086.44	3309.90	3618.36	3883.43	4081.42	4371.23
43	1956.96	2417.14	2744.98	3091.82	3315.64	3624.10	3889.53	4087.52	4377.33
43.25	1960.90	2421.45	2750.00	3097.56	3321.38	3630.20	3895.62	4093.61	4383.79
43.5	1964.49	2426.11	2755.02	3102.94	3327.12	3636.30	3901.72	4099.71	4389.88
43.75	1968.44	2430.77	2760.40	3108.32	3332.85	3642.04	3907.82	4105.81	4395.98
44	1972.38	2435.44	2765.42	3114.06	3338.59	3648.13	3913.92	4111.91	4402.08
44.25	1975.97	2439.74	2770.44	3119.44	3344.33	3653.87	3919.66	4118.01	4407.82
44.5	1979.91	2444.40	2775.47	3124.82	3350.07	3659.61	3925.75	4123.74	4413.92
44.75	1983.50	2448.71	2780.49	3130.20	3355.45	3665.35	3931.49	4129.84	4420.01
45	1987.45	2453.37	2785.51	3135.58	3361.19	3671.45	3937.59	4135.94	4425.75
45.25	1991.39	2457.68	2790.17	3140.96	3366.57	3677.19	3943.33	4141.68	4431.49
45.5	1994.98	2462.34	2795.19	3146.34	3372.31	3682.93	3949.07	4147.42	4437.59
45.75	1998.92	2466.64	2800.21	3151.72	3377.69	3688.67	3954.81	4153.16	4443.33
46	2002.51	2471.31	2805.24	3157.10	3383.43	3694.05	3960.90	4159.25	4449.07
46.25	2006.46	2475.61	2810.26	3162.48	3388.81	3699.78	3966.64	4164.99	4454.81
46.5	2010.04	2480.27	2814.92	3167.86	3394.55	3705.52	3972.02	4170.73	4460.54
46.75	2013.63	2484.58	2819.94	3172.88	3399.93	3711.26	3977.76	4176.47	4466.28
47	2017.58	2488.88	2824.96	3178.26	3405.31	3716.64	3983.50	4181.85	4472.02
47.25	2021.16	2493.54	2829.63	3183.64	3410.69	3722.38	3989.24	4187.59	4477.40
47.5	2024.75	2497.85	2834.65	3188.67	3416.07	3727.76	3994.98	4193.33	4483.14
47.75	2028.69	2502.15	2839.31	3194.05	3421.45	3733.50	4000.36	4199.07	4488.88
48	2032.28	2506.46	2844.33	3199.43	3426.83	3738.88	4006.10	4204.45	4494.26
48.25	2035.87	2510.76	2849.00	3204.09	3431.85	3743.90	4011.12	4209.47	4498.92
48.5	2039.81	2515.42	2853.66	3209.11	3436.87	3749.28	4016.14	4214.49	4503.94
48.75	2043.40	2519.73	2858.32	3214.13	3442.25	3754.30	4021.16	4219.15	4508.61
49	2046.99	2524.03	2862.98	3219.15	3447.27	3759.33	4025.82	4224.17	4513.27
49.25	2050.57	2528.34	2867.65	3223.82	3451.94	3764.35	4030.85	4228.84	4517.93
49.5	2054.52	2532.28	2872.31	3228.84	3456.96	3769.37	4035.87	4233.86	4522.95
49.75	2058.11	2536.58	2876.97	3233.86	3461.98	3774.03	4040.89	4238.52	4527.62

50	2061.69	2540.89	2881.64	3238.52	3467.00	3779.05	4045.55	4243.54	4532.28
50.25	2065.28	2545.19	2886.30	3243.54	3472.02	3784.07	4050.57	4248.21	4536.94
50.5	2068.87	2549.50	2890.96	3248.56	3477.04	3789.10	4055.24	4252.87	4541.61
50.75	2072.45	2553.80	2895.26	3253.23	3481.71	3793.76	4060.26	4257.89	4545.91
51	2076.04	2558.11	2899.93	3258.25	3486.73	3798.78	4064.92	4262.55	4550.57
51.25	2079.63	2562.05	2904.59	3262.91	3491.75	3803.80	4069.94	4267.22	4555.24
51.5	2083.21	2566.36	2909.25	3267.57	3496.41	3808.46	4074.60	4271.88	4559.90
51.75	2086.80	2570.66	2913.56	3272.60	3501.43	3813.49	4079.27	4276.54	4564.20
52	2090.39	2574.96	2918.22	3277.26	3506.10	3818.15	4083.93	4281.20	4568.87
52.25	2093.97	2578.91	2922.88	3281.92	3511.12	3823.17	4088.95	4285.87	4573.17
52.5	2097.56	2583.21	2927.19	3286.94	3515.78	3827.83	4093.61	4290.53	4577.83
52.75	2101.15	2587.52	2931.85	3291.61	3520.80	3832.50	4098.28	4295.19	4582.14
53	2104.73	2591.46	2936.51	3296.27	3525.47	3837.52	4102.94	4299.86	4586.80
53.25	2108.32	2595.77	2940.82	3300.93	3530.13	3842.18	4107.60	4304.52	4591.10
53.5	2111.91	2600.07	2945.48	3305.95	3535.15	3846.84	4112.27	4308.82	4595.77
53.75	2115.49	2604.02	2949.78	3310.62	3539.81	3851.86	4116.93	4313.49	4600.07
54	2119.08	2608.32	2954.45	3315.28	3544.48	3856.53	4121.59	4318.15	4604.38
54.25	2122.67	2612.27	2958.75	3319.94	3549.50	3861.19	4126.25	4322.45	4608.68
54.5	2126.26	2616.57	2963.41	3324.60	3554.16	3865.85	4130.92	4327.12	4613.34
54.75	2129.48	2620.52	2967.72	3329.27	3558.82	3870.52	4135.58	4331.78	4617.65
55	2133.07	2624.82	2972.02	3333.93	3563.49	3875.18	4139.88	4336.08	4621.95
55.25	2136.66	2628.77	2976.69	3338.59	3568.15	3879.84	4144.55	4340.75	4626.25
55.5	2140.24	2633.07	2980.99	3343.26	3572.81	3884.50	4149.21	4345.05	4630.56
55.75	2143.83	2637.02	2985.29	3347.92	3577.47	3889.17	4153.87	4349.35	4634.86
56	2147.06	2641.32	2989.96	3352.58	3582.14	3893.83	4158.18	4354.02	4639.17
56.25	2150.65	2645.27	2994.26	3357.24	3586.80	3898.49	4162.84	4358.32	4643.47
56.5	2154.23	2649.57	2998.56	3361.55	3591.46	3903.16	4167.14	4362.62	4647.42
56.75	2157.82	2653.51	3002.87	3366.21	3596.13	3907.82	4171.81	4367.29	4651.72
57	2161.05	2657.46	3007.53	3370.87	3600.79	3912.12	4176.11	4371.59	4656.03
57.25	2164.63	2661.76	3011.84	3375.54	3605.45	3916.79	4180.77	4375.90	4660.33
57.5	2168.22	2665.71	3016.14	3380.20	3610.11	3921.45	4185.08	4380.20	4664.27
57.75	2171.45	2669.66	3020.44	3384.50	3614.78	3925.75	4189.74	4384.50	4668.58
58	2175.04	2673.60	3024.75	3389.17	3619.44	3930.42	4194.05	4388.81	4672.88
58.25	2178.62	2677.90	3029.05	3393.83	3623.74	3935.08	4198.35	4393.47	4676.83
58.5	2181.85	2681.85	3033.72	3398.13	3628.41	3939.38	4203.01	4397.78	4681.13
58.75	2185.44	2685.80	3038.02	3402.80	3633.07	3944.05	4207.32	4402.08	4685.44
59	2189.02	2689.74	3042.32	3407.10	3637.37	3948.35	4211.62	4406.03	4689.38
59.25	2192.25	2694.05	3046.63	3411.76	3642.04	3953.01	4215.92	4410.33	4693.33
59.5	2195.84	2697.99	3050.93	3416.43	3646.70	3957.32	4220.23	4414.63	4697.63
59.75	2199.07	2701.94	3055.24	3420.73	3651.00	3961.98	4224.89	4418.94	4701.58
60	2202.65	2705.88	3059.54	3425.39	3655.67	3966.28	4229.20	4423.24	4705.88
60.25	2205.88	2709.83	3063.84	3429.70	3660.33	3970.95	4233.50	4427.55	4709.83
60.5	2209.47	2713.77	3068.15	3434.36	3664.63	3975.25	4237.80	4431.85	4713.77
60.75	2212.70	2718.08	3072.45	3438.67	3669.30	3979.55	4242.11	4435.80	4718.08
61	2216.28	2722.02	3076.40	3442.97	3673.60	3984.22	4246.41	4440.10	4722.02
61.25	2219.51	2725.97	3080.70	3447.63	3678.26	3988.52	4250.72	4444.40	4725.97
61.5	2223.10	2729.91	3085.01	3451.94	3682.57	3992.83	4255.02	4448.35	4729.91
61.75	2226.33	2733.86	3089.31	3456.60	3686.87	3997.49	4259.33	4452.65	4734.22
62	2229.91	2737.80	3093.62	3460.90	3691.53	4001.79	4263.63	4456.96	4738.16
62.25	2233.14	2741.75	3097.92	3465.21	3695.84	4006.10	4267.93	4460.90	4742.11
62.5	2236.73	2745.70	3102.22	3469.51	3700.50	4010.40	4271.88	4465.21	4746.05

62.75	2239.96	2749.64	3106.17	3474.17	3704.81	4014.71	4276.18	4469.15	4750.00
63	2243.54	2753.59	3110.47	3478.48	3709.11	4019.01	4280.49	4473.46	4753.94
63.25	2246.77	2757.53	3114.78	3482.78	3713.77	4023.31	4284.79	4477.40	4757.89
63.5	2250.00	2761.48	3119.08	3487.09	3718.08	4027.98	4289.10	4481.71	4761.84
63.75	2253.59	2765.42	3123.03	3491.75	3722.38	4032.28	4293.04	4485.65	4765.78
64	2256.81	2769.37	3127.33	3496.05	3726.69	4036.58	4297.35	4489.60	4769.73
64.25	2260.40	2773.31	3131.64	3500.36	3730.99	4040.89	4301.65	4493.90	4773.67
64.5	2263.63	2777.26	3135.58	3504.66	3735.65	4045.19	4305.59	4497.85	4777.62
64.75	2266.86	2780.85	3139.88	3508.97	3739.96	4049.50	4309.90	4502.15	4781.20
65	2270.44	2784.79	3144.19	3513.27	3744.26	4053.44	4313.84	4506.10	4785.15
65.25	2273.67	2788.74	3148.13	3517.57	3748.56	4057.75	4318.15	4510.04	4789.10
65.5	2276.90	2792.68	3152.44	3522.24	3752.87	4062.05	4322.45	4513.99	4793.04
65.75	2280.49	2796.63	3156.74	3526.54	3757.17	4066.36	4326.40	4518.29	4796.99
66	2283.72	2800.57	3160.69	3530.85	3761.48	4070.66	4330.70	4522.24	4800.57
66.25	2286.94	2804.52	3164.99	3535.15	3765.78	4074.96	4334.65	4526.18	4804.52
66.5	2290.17	2808.11	3168.94	3539.45	3770.09	4079.27	4338.95	4530.13	4808.46
66.75	2293.76	2812.05	3173.24	3543.76	3774.39	4083.21	4342.90	4534.07	4812.05
67	2296.99	2816.00	3177.19	3548.06	3778.69	4087.52	4346.84	4538.02	4816.00
67.25	2300.21	2819.94	3181.49	3552.37	3783.00	4091.82	4351.15	4541.96	4819.94
67.5	2303.44	2823.89	3185.44	3556.31	3787.30	4096.13	4355.09	4545.91	4823.53
67.75	2307.03	2827.47	3189.74	3560.62	3791.61	4100.07	4359.40	4550.21	4827.47
68	2310.26	2831.42	3193.69	3564.92	3795.91	4104.38	4363.34	4554.16	4831.06
68.25	2313.49	2835.37	3197.99	3569.22	3800.21	4108.68	4367.29	4558.11	4835.01
68.5	2316.71	2838.95	3201.94	3573.53	3804.52	4112.62	4371.59	4562.05	4838.59
68.75	2320.30	2842.90	3206.24	3577.83	3808.82	4116.93	4375.54	4566.00	4842.54
69	2323.53	2846.84	3210.19	3582.14	3813.13	4121.23	4379.48	4569.58	4846.13
69.25	2326.76	2850.79	3214.13	3586.44	3817.43	4125.18	4383.43	4573.53	4850.07
69.5	2329.99	2854.38	3218.44	3590.39	3821.38	4129.48	4387.37	4577.47	4853.66
69.75	2333.21	2858.32	3222.38	3594.69	3825.68	4133.43	4391.68	4581.42	4857.60
70	2336.44	2861.91	3226.69	3599.00	3829.99	4137.73	4395.62	4585.37	4861.19
70.25	2340.03	2865.85	3230.63	3603.30	3834.29	4141.68	4399.57	4589.31	4864.78
70.5	2343.26	2869.80	3234.58	3607.24	3838.59	4145.98	4403.51	4593.26	4868.72
70.75	2346.48	2873.39	3238.88	3611.55	3842.54	4149.93	4407.46	4597.20	4872.31
71	2349.71	2877.33	3242.83	3615.85	3846.84	4154.23	4411.41	4600.79	4875.90
71.25	2352.94	2881.28	3246.77	3620.16	3851.15	4158.18	4415.71	4604.73	4879.84
71.5	2356.17	2884.86	3251.08	3624.10	3855.09	4162.48	4419.65	4608.68	4883.43
71.75	2359.40	2888.81	3255.02	3628.41	3859.40	4166.43	4423.60	4612.62	4887.02
72	2362.63	2892.40	3258.97	3632.71	3863.70	4170.73	4427.55	4616.21	4890.60
72.25	2365.85	2896.34	3262.91	3636.66	3867.65	4174.68	4431.49	4620.16	4894.55
72.5	2369.44	2899.93	3267.22	3640.96	3871.95	4178.62	4435.44	4624.10	4898.13
72.75	2372.67	2903.87	3271.16	3645.26	3876.25	4182.93	4439.38	4627.69	4901.72
73	2375.90	2907.82	3275.11	3649.21	3880.20	4186.87	4443.33	4631.63	4905.31
73.25	2379.12	2911.41	3279.05	3653.51	3884.50	4190.82	4447.27	4635.58	4908.89
73.5	2382.35	2915.35	3283.00	3657.46	3888.45	4195.12	4451.22	4639.17	4912.84
73.75	2385.58	2918.94	3287.30	3661.76	3892.75	4199.07	4454.81	4643.11	4916.43
74	2388.81	2922.88	3291.25	3665.71	3897.06	4203.01	4458.75	4647.06	4920.01
74.25	2392.04	2926.47	3295.19	3670.01	3901.00	4207.32	4462.70	4650.64	4923.60
74.5	2395.27	2930.06	3299.14	3673.96	3905.31	4211.26	4466.64	4654.59	4927.19
74.75	2398.49	2934.00	3303.08	3678.26	3909.25	4215.21	4470.59	4658.18	4930.77
75	2401.72	2937.59	3307.03	3682.57	3913.56	4219.15	4474.53	4662.12	4934.36
75.25	2404.95	2941.53	3311.33	3686.51	3917.50	4223.10	4478.48	4665.71	4937.95

75.5	2408.18	2945.12	3315.28	3690.46	3921.81	4227.40	4482.42	4669.65	4941.53
75.75	2411.41	2949.07	3319.22	3694.76	3925.75	4231.35	4486.01	4673.24	4945.12
76	2414.63	2952.65	3323.17	3698.71	3929.70	4235.29	4489.96	4677.19	4948.71
76.25	2417.86	2956.60	3327.12	3703.01	3934.00	4239.24	4493.90	4680.77	4952.29
76.5	2421.09	2960.19	3331.06	3706.96	3937.95	4243.18	4497.85	4684.72	4955.88
76.75	2424.32	2963.77	3335.01	3711.26	3942.25	4247.13	4501.43	4688.31	4959.47
77	2427.55	2967.72	3338.95	3715.21	3946.20	4251.08	4505.38	4691.89	4963.06
77.25	2430.77	2971.31	3342.90	3719.51	3950.50	4255.38	4509.32	4695.84	4966.64
77.5	2434.00	2975.25	3346.84	3723.46	3954.45	4259.33	4513.27	4699.43	4970.23
77.75	2437.23	2978.84	3350.79	3727.40	3958.39	4263.27	4516.86	4703.37	4973.82
78	2440.10	2982.42	3354.73	3731.71	3962.70	4267.22	4520.80	4706.96	4977.04
78.25	2443.33	2986.37	3358.68	3735.65	3966.64	4271.16	4524.75	4710.54	4980.63
78.5	2446.56	2989.96	3362.63	3739.60	3970.59	4275.11	4528.34	4714.49	4984.22
78.75	2449.78	2993.54	3366.57	3743.90	3974.89	4279.05	4532.28	4718.08	4987.80
79	2453.01	2997.49	3370.52	3747.85	3978.84	4283.00	4536.23	4721.66	4991.39
79.25	2456.24	3001.08	3374.46	3751.79	3982.78	4286.94	4539.81	4725.61	4994.98
79.5	2459.47	3004.66	3378.41	3756.10	3986.73	4290.89	4543.76	4729.20	4998.21
79.75	2462.70	3008.61	3382.35	3760.04	3991.03	4294.83	4547.35	4732.78	5001.79
80	2465.93	3012.19	3386.30	3763.99	3994.98	4298.78	4551.29	4736.37	5005.38
80.25	2469.15	3015.78	3390.24	3767.93	3998.92	4302.73	4554.88	4740.31	5008.97
80.5	2472.02	3019.37	3394.19	3772.24	4002.87	4306.67	4558.82	4743.90	5012.19
80.75	2475.25	3023.31	3398.13	3776.18	4007.17	4310.62	4562.77	4747.49	5015.78
81	2478.48	3026.90	3402.08	3780.13	4011.12	4314.56	4566.36	4751.08	5019.37
81.25	2481.71	3030.49	3406.03	3784.07	4015.06	4318.15	4570.30	4754.66	5022.95
81.5	2484.94	3034.07	3409.61	3788.38	4019.01	4322.09	4573.89	4758.61	5026.18
81.75	2488.16	3038.02	3413.56	3792.32	4022.95	4326.04	4577.83	4762.19	5029.77
82	2491.03	3041.61	3417.50	3796.27	4027.26	4329.98	4581.42	4765.78	5033.36
82.25	2494.26	3045.19	3421.45	3800.21	4031.20	4333.93	4585.37	4769.37	5036.58
82.5	2497.49	3048.78	3425.39	3804.16	4035.15	4337.88	4588.95	4772.95	5040.17
82.75	2500.72	3052.73	3429.34	3808.46	4039.10	4341.82	4592.90	4776.54	5043.76
83	2503.95	3056.31	3433.28	3812.41	4043.04	4345.41	4596.48	4780.49	5046.99
83.25	2507.17	3059.90	3436.87	3816.36	4046.99	4349.35	4600.07	4784.07	5050.57
83.5	2510.04	3063.49	3440.82	3820.30	4050.93	4353.30	4604.02	4787.66	5054.16
83.75	2513.27	3067.07	3444.76	3824.25	4054.88	4357.24	4607.60	4791.25	5057.39
84	2516.50	3071.02	3448.71	3828.19	4059.18	4361.19	4611.55	4794.83	5060.97
84.25	2519.73	3074.60	3452.65	3832.50	4063.13	4364.78	4615.14	4798.42	5064.20
84.5	2522.60	3078.19	3456.60	3836.44	4067.07	4368.72	4618.72	4802.01	5067.79
84.75	2525.82	3081.78	3460.19	3840.39	4071.02	4372.67	4622.67	4805.59	5071.38
85	2529.05	3085.37	3464.13	3844.33	4074.96	4376.61	4626.25	4809.18	5074.60
85.25	2532.28	3088.95	3468.08	3848.28	4078.91	4380.56	4630.20	4812.77	5078.19
85.5	2535.51	3092.90	3472.02	3852.22	4082.85	4384.15	4633.79	4816.36	5081.42
85.75	2538.38	3096.48	3475.61	3856.17	4086.80	4388.09	4637.37	4819.94	5085.01
86	2541.61	3100.07	3479.55	3860.11	4090.75	4392.04	4641.32	4823.53	5088.23
86.25	2544.83	3103.66	3483.50	3864.06	4094.69	4395.62	4644.91	4827.12	5091.82
86.5	2548.06	3107.24	3487.45	3868.01	4098.64	4399.57	4648.49	4830.70	5095.05
86.75	2550.93	3110.83	3491.03	3871.95	4102.58	4403.51	4652.44	4834.29	5098.64
87	2554.16	3114.42	3494.98	3875.90	4106.53	4407.10	4656.03	4837.88	5101.86
87.25	2557.39	3118.01	3498.92	3879.84	4110.47	4411.05	4659.61	4841.46	5105.45
87.5	2560.26	3121.95	3502.87	3883.79	4114.42	4414.99	4663.20	4845.05	5108.68
87.75	2563.49	3125.54	3506.46	3887.73	4118.36	4418.58	4667.14	4848.64	5112.27
88	2566.71	3129.12	3510.40	3891.68	4122.31	4422.52	4670.73	4852.22	5115.49

88.25	2569.94	3132.71	3514.35	3895.62	4126.25	4426.47	4674.32	4855.81	5119.08
88.5	2572.81	3136.30	3517.93	3899.57	4130.20	4430.06	4677.90	4859.40	5122.31
88.75	2576.04	3139.88	3521.88	3903.51	4134.15	4434.00	4681.85	4862.98	5125.54
89	2579.27	3143.47	3525.82	3907.46	4138.09	4437.95	4685.44	4866.57	5129.12
89.25	2582.14	3147.06	3529.41	3911.41	4142.04	4441.53	4689.02	4870.16	5132.35
89.5	2585.37	3150.65	3533.36	3915.35	4145.62	4445.48	4692.61	4873.74	5135.94
89.75	2588.59	3154.23	3537.30	3919.30	4149.57	4449.07	4696.56	4876.97	5139.17
90	2591.46	3157.82	3540.89	3923.24	4153.51	4453.01	4700.14	4880.56	5142.40
90.25	2594.69	3161.41	3544.83	3927.19	4157.46	4456.96	4703.73	4884.15	5145.98
90.5	2597.92	3164.99	3548.78	3931.13	4161.41	4460.54	4707.32	4887.73	5149.21
90.75	2600.79	3168.58	3552.37	3935.08	4165.35	4464.49	4710.90	4891.32	5152.80
91	2604.02	3172.17	3556.31	3939.02	4169.30	4468.08	4714.85	4894.91	5156.03
91.25	2607.24	3175.75	3560.26	3942.97	4173.24	4472.02	4718.44	4898.49	5159.25
91.5	2610.11	3179.34	3563.84	3946.91	4176.83	4475.61	4722.02	4901.72	5162.84
91.75	2613.34	3183.29	3567.79	3950.86	4180.77	4479.55	4725.61	4905.31	5166.07
92	2616.57	3186.87	3571.38	3954.81	4184.72	4483.50	4729.20	4908.89	5169.30
92.25	2619.44	3190.46	3575.32	3958.39	4188.67	4487.09	4732.78	4912.48	5172.88
92.5	2622.67	3194.05	3579.27	3962.34	4192.61	4491.03	4736.37	4916.07	5176.11
92.75	2625.90	3197.63	3582.85	3966.28	4196.56	4494.62	4740.31	4919.65	5179.34
93	2628.77	3201.22	3586.80	3970.23	4200.50	4498.56	4743.90	4922.88	5182.93
93.25	2631.99	3204.81	3590.39	3974.17	4204.09	4502.15	4747.49	4926.47	5186.15
93.5	2635.22	3208.03	3594.33	3978.12	4208.03	4506.10	4751.08	4930.06	5189.38
93.75	2638.09	3211.62	3597.92	3982.07	4211.98	4509.68	4754.66	4933.64	5192.97
94	2641.32	3215.21	3601.86	3985.65	4215.92	4513.63	4758.25	4937.23	5196.20
94.25	2644.19	3218.79	3605.81	3989.60	4219.87	4517.22	4761.84	4940.46	5199.43
94.5	2647.42	3222.38	3609.40	3993.54	4223.46	4521.16	4765.42	4944.05	5203.01
94.75	2650.65	3225.97	3613.34	3997.49	4227.40	4524.75	4769.01	4947.63	5206.24
95	2653.51	3229.55	3616.93	4001.43	4231.35	4528.34	4772.60	4951.22	5209.47
95.25	2656.74	3233.14	3620.87	4005.38	4235.29	4532.28	4776.54	4954.45	5212.70
95.5	2659.61	3236.73	3624.46	4008.97	4238.88	4535.87	4780.13	4958.03	5216.28
95.75	2662.84	3240.32	3628.41	4012.91	4242.83	4539.81	4783.72	4961.62	5219.51
96	2666.07	3243.90	3631.99	4016.86	4246.77	4543.40	4787.30	4965.21	5222.74

**WITHYHEDGE LANDFILL
PHASE 2 SURFACE WATER
MANAGEMENT SYSTEM**

**Design and Construction
Validation Report**

**Appendix 7
Phase 2 Runoff Storage
Requirements**

Report Number 2548r1v1d0425

Table 7	Phase 2 (Areas 1,2 and 3) Storage Requirement m3				Climate Change Factor			40% +Spring	
	Site Area Ha		28.48		Constant Discharge Rate			140l/s	

Duration Hrs	Cumilative Storage Requirement for Whole of Phase 2 Area in m3 for Return Period								
	2 Year	5 Year	10 Year	20 Year	30 Year	50 Year	75 Year	100 Year	150 Year
0.25	1668.05	2420.11	2948.99	3524.27	3844.87	4216.67	4530.30	4758.31	5074.46
0.5	2196.42	3259.21	3987.17	4816.64	5291.84	5860.68	6328.85	6663.46	7142.08
0.75	2513.82	3770.95	4639.81	5664.00	6239.24	6929.37	7508.32	7925.19	8521.27
1	2743.93	4146.90	5139.67	6291.00	6944.38	7742.78	8400.15	8874.01	9562.69
1.25	2976.46	4454.95	5498.90	6714.44	7398.66	8233.64	8924.93	9424.43	10146.40
1.5	3182.32	4709.66	5782.95	7041.93	7743.46	8601.79	9313.86	9828.67	10576.01
1.75	3366.35	4923.14	6016.08	7310.09	8025.51	8896.96	9627.02	10154.58	10919.53
2	3526.13	5107.52	6212.84	7535.76	8259.97	9141.75	9887.12	10424.75	11204.75
2.25	3649.55	5265.23	6390.20	7747.42	8488.19	9390.38	10149.01	10701.95	11504.78
2.5	3755.98	5401.12	6545.73	7933.95	8691.03	9611.21	10385.39	10951.21	11774.32
2.75	3845.45	5520.03	6681.87	8100.19	8871.17	9809.20	10598.93	11175.09	12018.48
3	3922.79	5619.54	6801.03	8246.41	9033.32	9986.91	10792.08	11381.11	12244.66
3.25	3988.00	5706.93	6905.64	8377.45	9177.87	10149.31	10967.49	11566.85	12453.10
3.5	4041.09	5782.20	6995.71	8493.31	9307.24	10296.41	11130.02	11739.71	12646.25
3.75	4086.91	5847.76	7076.07	8596.67	9423.98	10430.89	11277.37	11899.82	12826.63
4	4123.02	5901.20	7146.73	8689.82	9530.39	10552.73	11414.52	12047.29	12994.27
4.25	4154.29	5947.37	7205.27	8773.02	9621.88	10661.82	11539.04	12184.32	13149.14
4.5	4175.86	5981.41	7254.11	8846.02	9705.46	10760.70	11653.36	12311.26	13296.24
4.75	4190.15	6010.60	7298.11	8908.94	9781.51	10852.06	11759.89	12430.55	13433.27
5	4199.59	6032.52	7332.40	8966.76	9847.49	10935.64	11856.48	12539.64	13562.64
5.25	4204.19	6049.58	7361.84	9017.05	9908.36	11009.27	11947.84	12641.21	13681.80
5.5	4203.93	6059.38	7384.01	9059.82	9961.58	11080.10	12031.55	12737.54	13795.99
5.75	4198.83	6064.32	7403.75	9097.49	10007.28	11141.10	12110.15	12826.22	13904.83
6	4188.87	6064.41	7416.22	9130.05	10050.30	11199.29	12181.23	12909.93	14006.27
6.25	4174.06	6059.66	7423.83	9157.51	10085.79	11249.97	12247.20	12988.41	14104.90
6.5	4156.83	6052.47	7426.60	9179.99	10118.73	11297.96	12310.50	13064.33	14198.56
6.75	4134.75	6040.44	7426.94	9197.38	10146.57	11338.55	12366.28	13132.73	14286.99
7	4107.82	6023.56	7422.44	9209.66	10169.31	11376.47	12419.37	13196.03	14370.44
7.25	4080.89	6006.68	7413.08	9219.52	10187.19	11409.28	12465.07	13256.66	14448.79
7.5	4049.11	5982.53	7403.73	9224.27	10204.70	11439.67	12510.51	13312.43	14524.60
7.75	4014.91	5958.37	7389.52	9226.48	10214.94	11464.96	12550.98	13362.97	14595.30
8	3978.28	5931.79	7370.46	9226.13	10225.05	11487.57	12586.47	13411.09	14661.02
8.25	3939.22	5900.36	7351.41	9220.81	10230.05	11507.76	12619.28	13456.54	14724.19
8.5	3897.74	5868.93	7329.93	9215.36	10232.64	11522.97	12649.67	13497.00	14782.27
8.75	3856.27	5832.65	7303.60	9205.06	10232.54	11535.50	12674.96	13534.92	14837.79
9	3809.94	5796.37	7277.27	9194.51	10230.02	11548.04	12700.25	13570.29	14890.88
9.25	3763.61	5755.24	7246.09	9179.11	10222.40	11555.47	12720.44	13600.55	14938.88
9.5	3714.85	5714.11	7214.91	9161.16	10214.78	11560.48	12740.50	13630.81	14984.32
9.75	3663.67	5670.56	7181.30	9143.08	10204.61	11562.93	12755.71	13656.10	15027.21
10	3612.50	5627.00	7145.27	9122.58	10194.44	11562.84	12768.37	13681.39	15067.55
10.25	3558.89	5578.60	7109.24	9097.11	10179.16	11562.75	12780.78	13701.58	15103.04
10.5	3502.86	5532.62	7068.36	9073.93	10161.59	11557.55	12788.46	13721.64	15138.28
10.75	3446.84	5481.79	7027.48	9045.90	10143.77	11552.35	12795.89	13739.27	15171.10
11	3388.38	5430.96	6986.60	9017.75	10123.52	11544.73	12800.90	13751.93	15198.94
11.25	3329.93	5377.71	6940.87	8987.17	10100.72	11534.43	12803.36	13764.47	15226.65
11.5	3269.05	5322.03	6897.57	8954.04	10077.79	11524.26	12803.26	13774.58	15251.94

11.75	3208.17	5266.35	6849.42	8920.91	10052.44	11511.41	12803.17	13784.56	15274.68
12	3144.87	5210.67	6801.26	8885.23	10024.66	11496.14	12800.52	13789.57	15294.86
12.25	3081.57	5152.57	6750.68	8849.55	9996.76	11480.74	12795.45	13797.00	15312.62
12.5	3015.84	5092.04	6700.10	8811.31	9966.31	11462.91	12790.25	13799.46	15330.26
12.75	2950.11	5031.51	6649.52	8773.08	9935.85	11445.09	12785.06	13801.91	15343.05
13	2881.96	4970.98	6594.10	8732.30	9902.98	11424.59	12774.89	13801.82	15355.71
13.25	2813.80	4908.03	6541.09	8689.09	9869.97	11401.79	12767.01	13801.72	15365.81
13.5	2745.65	4842.65	6485.66	8648.31	9834.42	11378.86	12754.42	13796.65	15373.50
13.75	2675.07	4779.70	6427.81	8602.55	9796.56	11355.81	12741.57	13791.46	15381.18
14	2604.50	4711.89	6369.96	8556.79	9758.46	11330.33	12726.29	13786.26	15386.32
14.25	2533.92	4646.52	6312.10	8511.04	9720.48	11302.43	12711.02	13778.64	15386.47
14.5	2463.34	4578.71	6251.82	8462.85	9679.95	11274.40	12693.20	13768.47	15389.06
14.75	2390.34	4510.91	6191.55	8414.54	9639.42	11243.95	12672.95	13755.87	15386.66
15	2314.91	4440.68	6131.27	8366.11	9596.34	11213.50	12652.70	13743.15	15384.27
15.25	2241.91	4372.88	6068.56	8315.38	9553.38	11180.49	12629.90	13730.42	15381.75
15.5	2166.48	4302.65	6005.86	8264.52	9507.88	11147.49	12607.10	13712.73	15374.38
15.75	2091.05	4230.00	5943.16	8211.23	9462.24	11112.06	12584.17	13697.45	15366.89
16	2015.63	4157.34	5878.03	8157.95	9416.61	11076.51	12556.39	13677.33	15359.39
16.25	1940.20	4084.69	5812.90	8102.24	9368.55	11040.95	12530.92	13657.08	15347.05
16.5	1862.35	4012.04	5745.35	8048.83	9320.50	11002.85	12503.14	13636.83	15334.57
16.75	1784.49	3939.39	5680.22	7992.99	9272.44	10964.87	12472.81	13614.16	15322.10
17	1706.64	3864.31	5612.67	7934.73	9221.83	10924.34	12442.36	13591.35	15307.08
17.25	1626.36	3789.23	5542.69	7876.34	9171.23	10883.68	12411.91	13566.13	15292.06
17.5	1548.51	3711.73	5475.13	7818.08	9118.07	10843.15	12379.03	13538.35	15274.61
17.75	1468.23	3636.65	5405.16	7759.70	9065.03	10800.07	12343.73	13510.58	15254.62
18	1387.96	3559.15	5335.18	7698.88	9011.87	10754.56	12310.72	13482.80	15234.49
18.25	1305.25	3481.65	5262.78	7637.95	8956.29	10708.93	12272.87	13452.47	15211.94
18.5	1224.98	3404.14	5192.80	7574.71	8900.71	10663.42	12232.46	13419.72	15186.97
18.75	1142.28	3324.22	5117.97	7511.35	8845.00	10615.24	12194.49	13384.55	15161.87
19	1059.57	3244.29	5045.57	7447.99	8786.86	10567.18	12154.08	13349.24	15134.35
19.25	976.87	3166.79	4973.16	7384.62	8728.85	10516.70	12111.25	13313.94	15106.70
19.5	891.74	3084.43	4898.34	7318.71	8670.59	10468.52	12068.30	13276.21	15076.75
19.75	809.04	3004.51	4823.51	7252.92	8610.03	10415.49	12025.34	13238.36	15046.55
20	726.34	2924.58	4748.68	7187.14	8551.90	10364.88	11982.39	13200.63	15014.05
20.25	641.21	2842.23	4673.85	7121.22	8491.21	10311.84	11937.01	13160.35	14981.42
20.5	556.09	2762.30	4599.03	7055.31	8428.23	10258.81	11889.20	13119.95	14948.80
20.75	470.96	2679.95	4521.77	6986.97	8367.55	10205.65	11843.69	13077.25	14913.75
21	385.83	2597.59	4444.52	6918.63	8304.44	10152.49	11795.76	13034.42	14876.27
21.25	300.71	2515.24	4369.69	6850.30	8241.32	10097.04	11747.83	12991.59	14841.09
21.5	215.58	2430.46	4292.44	6781.96	8178.09	10041.45	11697.48	12946.33	14801.07
21.75	128.03	2348.11	4212.76	6711.07	8114.98	9983.32	11646.99	12901.08	14763.34
22	42.90	2265.76	4135.51	6642.73	8051.87	9927.73	11596.64	12855.82	14723.31
22.25	-44.65	2180.98	4058.26	6571.84	7986.21	9869.73	11546.16	12808.02	14683.16
22.5	-129.78	2096.20	3978.58	6501.08	7920.55	9811.59	11493.25	12760.21	14640.58
22.75	-217.33	2011.43	3898.90	6430.19	7854.88	9753.46	11440.34	12712.41	14598.01
23	-304.88	1926.65	3819.23	6359.30	7789.22	9692.90	11387.44	12662.18	14555.30
23.25	-392.43	1841.87	3739.55	6285.99	7721.14	9634.76	11334.40	12611.82	14510.30
23.5	-479.99	1757.10	3659.87	6215.10	7655.48	9574.20	11279.07	12561.59	14465.17
23.75	-567.54	1672.32	3580.19	6141.79	7587.39	9513.64	11223.61	12508.81	14417.62
24	-655.09	1585.12	3500.52	6068.47	7519.18	9450.66	11168.16	12458.46	14372.37
24.25	-742.64	1500.34	3420.84	5997.58	7451.09	9390.10	11110.40	12405.68	14324.81

24.5	-832.62	1415.56	3341.16	5924.14	7383.01	9327.12	11054.94	12350.47	14274.71
24.75	-920.17	1328.36	3259.06	5850.83	7314.79	9264.01	10997.06	12297.69	14224.60
25	-1007.72	1243.58	3179.38	5777.52	7246.71	9201.02	10939.18	12242.48	14174.50
25.25	-1097.70	1156.38	3097.28	5704.08	7176.07	9137.91	10878.87	12187.15	14124.40
25.5	-1185.25	1069.18	3017.60	5630.76	7107.86	9074.93	10820.99	12131.95	14071.87
25.75	-1275.23	984.40	2935.50	5554.90	7037.35	9009.39	10760.55	12074.19	14019.21
26	-1362.78	897.20	2853.40	5481.58	6966.71	8946.28	10700.25	12016.43	13966.68
26.25	-1452.76	810.00	2773.72	5405.72	6896.08	8880.87	10639.81	11958.68	13914.03
26.5	-1540.31	722.80	2691.62	5332.41	6825.44	8815.34	10579.51	11900.92	13858.95
26.75	-1630.28	635.59	2609.51	5256.54	6754.80	8749.80	10516.65	11843.16	13803.87
27	-1720.26	545.97	2527.41	5180.68	6681.61	8681.84	10453.79	11782.86	13748.67
27.25	-1810.24	458.76	2442.88	5104.81	6610.98	8616.18	10390.93	11722.68	13691.16
27.5	-1900.21	371.56	2360.78	5028.95	6537.92	8548.22	10328.07	11662.37	13633.53
27.75	-1990.19	284.36	2278.68	4953.08	6467.28	8480.26	10265.21	11599.76	13575.90
28	-2080.17	194.73	2194.15	4874.79	6394.09	8412.18	10199.81	11539.45	13518.27
28.25	-2170.14	107.53	2112.05	4798.93	6321.03	8344.22	10134.52	11476.72	13458.21
28.5	-2260.12	17.90	2027.52	4720.64	6245.42	8276.13	10071.54	11413.86	13400.58
28.75	-2350.10	-71.72	1943.00	4644.77	6172.23	8205.62	10003.83	11351.13	13340.40
29	-2440.07	-158.93	1860.89	4566.49	6099.17	8137.66	9938.42	11288.40	13277.92
29.25	-2532.48	-248.55	1776.37	4488.07	6023.55	8067.15	9873.01	11223.12	13217.74
29.5	-2622.45	-338.18	1691.84	4409.78	5950.37	7996.64	9805.18	11157.96	13155.13
29.75	-2714.85	-427.81	1607.31	4331.36	5874.75	7926.13	9737.34	11092.68	13092.53
30	-2804.83	-517.43	1522.78	4253.08	5799.14	7855.62	9671.94	11027.39	13029.92
30.25	-2897.23	-607.06	1438.26	4174.66	5723.53	7785.10	9601.68	10962.11	12967.32
30.5	-2987.21	-696.69	1353.73	4096.37	5647.92	7712.17	9533.84	10896.83	12904.58
30.75	-3079.61	-786.31	1266.78	4017.95	5572.30	7641.53	9466.01	10829.12	12839.55
31	-3169.59	-875.94	1182.25	3937.24	5496.69	7568.60	9395.62	10761.41	12774.39
31.25	-3261.99	-965.57	1097.72	3858.82	5421.08	7495.66	9327.79	10693.70	12709.24
31.5	-3354.39	-1057.62	1010.77	3777.98	5342.91	7422.60	9257.40	10625.87	12644.08
31.75	-3444.37	-1147.25	926.24	3697.27	5267.30	7349.66	9187.02	10558.16	12576.50
32	-3536.77	-1236.87	839.29	3618.85	5189.26	7276.60	9116.76	10487.90	12508.92
32.25	-3629.17	-1328.93	754.76	3538.01	5111.10	7203.67	9043.95	10420.07	12443.76
32.5	-3721.57	-1418.55	667.81	3457.17	5035.49	7128.18	8973.57	10349.94	12373.63
32.75	-3813.97	-1510.60	580.86	3376.33	4957.33	7055.12	8900.76	10279.68	12306.04
33	-3906.38	-1602.66	493.91	3295.49	4879.16	6979.63	8830.37	10209.42	12238.34
33.25	-3998.78	-1692.28	406.96	3214.65	4801.12	6904.14	8757.56	10136.73	12168.20
33.5	-4091.18	-1784.33	320.00	3131.39	4720.54	6828.66	8684.63	10066.35	12100.50
33.75	-4183.58	-1876.39	233.05	3050.55	4642.37	6753.17	8611.82	9996.09	12030.36
34	-4275.98	-1966.01	146.10	2969.71	4564.33	6677.68	8536.58	9923.41	11960.23
34.25	-4368.38	-2058.07	59.15	2886.44	4483.75	6602.20	8463.65	9850.60	11887.67
34.5	-4463.21	-2150.12	-27.80	2805.48	4405.58	6526.71	8390.84	9777.91	11817.54
34.75	-4555.61	-2242.17	-114.76	2722.21	4324.99	6448.80	8315.48	9705.10	11744.86
35	-4648.01	-2334.22	-204.13	2638.95	4246.83	6373.19	8240.12	9632.42	11674.72
35.25	-4742.84	-2426.27	-291.08	2557.98	4166.24	6295.28	8164.88	9557.19	11602.04
35.5	-4835.24	-2518.32	-378.04	2474.71	4085.65	6217.36	8089.52	9484.38	11529.36
35.75	-4927.64	-2610.38	-467.41	2391.45	4005.07	6141.75	8014.16	9409.14	11456.80
36	-5022.47	-2704.85	-554.37	2308.06	3924.35	6063.84	7938.80	9333.91	11381.69
36.25	-5114.87	-2796.90	-643.74	2224.79	3843.76	5985.80	7863.44	9258.67	11309.01
36.5	-5209.70	-2888.96	-730.70	2141.40	3763.18	5905.47	7785.65	9183.44	11233.77
36.75	-5302.10	-2981.01	-820.07	2058.14	3680.16	5827.43	7710.29	9108.08	11161.09
37	-5396.92	-3075.48	-909.45	1974.74	3599.45	5749.39	7632.51	9032.84	11085.98

37.25	-5489.33	-3167.54	-998.83	1889.05	3518.86	5668.93	7554.60	8957.61	11010.74
37.5	-5584.15	-3262.01	-1085.78	1805.66	3435.72	5591.02	7479.23	8879.82	10935.64
37.75	-5678.98	-3354.07	-1175.15	1722.27	3355.13	5510.56	7401.45	8802.16	10857.98
38	-5771.38	-3448.54	-1264.53	1636.58	3271.99	5432.52	7321.11	8726.80	10782.87
38.25	-5866.21	-3540.59	-1353.91	1553.19	3188.98	5352.06	7243.33	8649.02	10705.21
38.5	-5961.03	-3635.07	-1443.29	1467.37	3108.27	5271.59	7165.42	8571.36	10629.97
38.75	-6055.86	-3727.12	-1532.66	1381.56	3025.25	5191.13	7087.50	8493.57	10552.31
39	-6148.26	-3821.60	-1622.04	1298.29	2942.11	5110.67	7007.29	8415.79	10474.65
39.25	-6243.09	-3916.08	-1711.42	1212.48	2858.97	5030.21	6926.96	8335.58	10396.99
39.5	-6337.91	-4008.13	-1803.22	1126.66	2775.96	4949.62	6849.05	8257.79	10319.34
39.75	-6432.74	-4102.60	-1892.60	1040.85	2692.82	4866.73	6768.71	8177.58	10239.12
40	-6527.57	-4197.08	-1981.97	955.03	2609.68	4786.27	6688.37	8099.79	10161.47
40.25	-6622.39	-4291.56	-2071.35	871.64	2524.12	4705.81	6608.16	8019.46	10083.81
40.5	-6717.22	-4386.03	-2163.15	783.40	2440.98	4622.79	6527.70	7939.25	10003.60
40.75	-6812.05	-4480.51	-2252.53	697.58	2357.84	4539.91	6447.36	7859.04	9923.39
41	-6906.87	-4574.99	-2344.33	611.76	2272.28	4459.32	6367.03	7778.70	9843.30
41.25	-7001.70	-4669.46	-2433.71	525.95	2189.14	4376.43	6284.27	7698.49	9763.09
41.5	-7096.53	-4763.94	-2525.51	440.13	2103.57	4293.42	6203.93	7618.15	9682.88
41.75	-7191.35	-4858.42	-2614.89	354.32	2018.01	4210.53	6121.17	7535.39	9602.67
42	-7286.18	-4952.89	-2706.69	266.08	1934.87	4127.52	6040.71	7455.18	9522.46
42.25	-7383.43	-5047.37	-2798.49	180.13	1849.30	4044.50	5957.95	7372.42	9439.82
42.5	-7478.26	-5141.85	-2887.87	91.89	1763.74	3961.62	5875.06	7292.08	9359.61
42.75	-7573.08	-5236.32	-2979.67	6.08	1678.18	3878.60	5792.30	7209.32	9276.98
43	-7667.91	-5330.80	-3071.47	-82.16	1592.61	3793.16	5709.41	7126.56	9194.22
43.25	-7762.74	-5427.70	-3163.27	-167.98	1506.92	3710.15	5626.65	7043.80	9114.01
43.5	-7859.99	-5522.18	-3255.07	-256.35	1421.36	3627.14	5543.76	6961.04	9031.37
43.75	-7954.81	-5616.66	-3344.45	-344.59	1335.79	3541.83	5460.87	6878.28	8948.61
44	-8049.64	-5711.13	-3436.25	-430.40	1250.23	3458.81	5378.11	6795.52	8865.98
44.25	-8146.89	-5808.03	-3528.05	-518.77	1164.54	3373.37	5292.80	6712.76	8780.79
44.5	-8241.72	-5902.51	-3619.86	-607.01	1078.98	3287.94	5209.91	6627.57	8698.03
44.75	-8338.97	-5999.41	-3711.66	-695.38	990.86	3202.50	5124.60	6544.68	8615.27
45	-8433.80	-6093.89	-3803.46	-783.62	905.30	3119.49	5041.71	6461.92	8530.21
45.25	-8528.62	-6190.79	-3897.69	-871.86	817.18	3033.92	4956.40	6376.61	8445.02
45.5	-8625.87	-6285.27	-3989.49	-960.23	731.62	2948.48	4871.09	6291.42	8362.26
45.75	-8720.70	-6382.17	-4081.29	-1048.47	643.50	2863.05	4785.78	6206.11	8277.07
46	-8817.95	-6476.65	-4173.09	-1136.84	557.94	2775.18	4702.89	6123.35	8191.76
46.25	-8912.78	-6573.55	-4264.89	-1225.08	469.82	2689.74	4617.58	6038.04	8106.58
46.5	-9010.03	-6668.02	-4359.12	-1313.44	384.26	2604.18	4529.84	5952.85	8021.39
46.75	-9107.28	-6764.93	-4450.92	-1404.24	296.14	2518.74	4444.40	5867.54	7936.20
47	-9202.11	-6861.83	-4542.72	-1492.48	208.03	2430.88	4359.09	5779.80	7850.89
47.25	-9299.36	-6956.30	-4636.95	-1580.84	120.04	2345.31	4273.78	5694.49	7763.28
47.5	-9396.61	-7053.21	-4728.75	-1671.64	31.93	2257.45	4188.34	5609.18	7677.97
47.75	-9491.44	-7150.11	-4822.98	-1759.88	-56.19	2171.89	4100.61	5523.87	7592.78
48	-9588.69	-7247.01	-4914.78	-1848.24	-144.30	2084.02	4015.29	5436.13	7505.05
48.25	-9685.94	-7343.91	-5009.01	-1941.46	-234.84	1993.61	3924.88	5345.84	7412.33
48.5	-9780.76	-7438.39	-5103.23	-2032.13	-325.26	1905.62	3834.59	5255.55	7322.17
48.75	-9878.02	-7535.29	-5197.46	-2122.92	-413.37	1815.21	3744.30	5162.97	7229.46
49	-9975.27	-7632.19	-5291.69	-2213.71	-503.91	1724.79	3651.59	5072.68	7136.75
49.25	-10072.52	-7729.09	-5385.91	-2306.93	-596.88	1634.38	3561.18	4979.84	7044.03
49.5	-10167.34	-7828.42	-5480.14	-2397.59	-687.54	1543.97	3470.89	4889.55	6953.74
49.75	-10264.60	-7925.32	-5574.37	-2488.38	-778.08	1451.13	3380.60	4796.84	6860.91

50	-10361.85	-8022.22	-5668.59	-2581.60	-868.62	1360.71	3287.76	4706.55	6768.19
50.25	-10459.10	-8119.12	-5762.82	-2672.39	-959.16	1270.30	3197.47	4613.84	6675.48
50.5	-10556.35	-8216.02	-5857.05	-2763.18	-1049.70	1179.89	3104.76	4521.13	6582.77
50.75	-10653.60	-8312.93	-5953.70	-2856.40	-1142.67	1086.92	3014.35	4430.71	6487.50
51	-10750.85	-8409.83	-6047.93	-2947.19	-1233.21	996.51	2921.64	4338.00	6394.79
51.25	-10848.10	-8509.15	-6142.15	-3040.41	-1323.87	906.09	2831.22	4245.29	6302.08
51.5	-10945.36	-8606.06	-6236.38	-3133.63	-1416.84	813.26	2738.38	4152.45	6209.24
51.75	-11042.61	-8702.96	-6333.03	-3224.42	-1507.38	722.72	2645.67	4059.74	6114.10
52	-11139.86	-8799.86	-6427.26	-3317.63	-1600.34	629.88	2552.83	3966.90	6021.26
52.25	-11237.11	-8899.18	-6521.48	-3410.85	-1691.01	539.46	2462.42	3874.19	5926.13
52.5	-11334.36	-8996.09	-6618.14	-3501.64	-1783.97	446.50	2369.71	3781.35	5833.29
52.75	-11431.61	-9092.99	-6712.36	-3594.86	-1874.51	353.66	2276.87	3688.63	5738.02
53	-11528.86	-9192.31	-6806.59	-3688.08	-1967.60	263.25	2184.03	3595.80	5645.31
53.25	-11626.11	-9289.22	-6903.24	-3781.29	-2060.57	170.28	2091.19	3502.96	5550.05
53.5	-11723.37	-9386.12	-6997.47	-3872.09	-2151.11	77.44	1998.48	3407.82	5457.21
53.75	-11820.62	-9485.44	-7094.12	-3965.30	-2244.20	-13.10	1905.64	3314.98	5362.07
54	-11917.87	-9582.35	-7188.35	-4058.52	-2337.16	-105.94	1812.80	3222.14	5266.81
54.25	-12015.12	-9681.67	-7285.00	-4151.74	-2427.83	-198.90	1719.96	3127.00	5171.54
54.5	-12112.37	-9778.57	-7379.22	-4244.95	-2520.79	-291.74	1627.12	3034.17	5078.71
54.75	-12212.05	-9877.90	-7475.88	-4338.29	-2613.88	-384.70	1534.28	2941.33	4983.44
55	-12309.30	-9974.80	-7572.53	-4431.51	-2706.85	-477.67	1439.02	2846.06	4888.18
55.25	-12406.55	-10074.13	-7666.75	-4524.73	-2799.94	-570.51	1346.18	2753.22	4792.92
55.5	-12503.80	-10171.03	-7763.41	-4617.94	-2892.90	-663.47	1253.34	2657.96	4697.65
55.75	-12601.05	-10270.36	-7860.06	-4711.16	-2985.99	-756.44	1160.50	2562.70	4602.39
56	-12700.73	-10367.26	-7954.28	-4804.50	-3078.96	-849.28	1065.24	2469.86	4507.12
56.25	-12797.98	-10466.58	-8050.94	-4897.72	-3172.05	-942.24	972.40	2374.60	4411.86
56.5	-12895.23	-10563.49	-8147.59	-4993.36	-3265.01	-1035.20	877.01	2279.33	4314.17
56.75	-12992.48	-10662.81	-8244.24	-5086.58	-3358.11	-1128.17	784.17	2186.49	4218.91
57	-13092.16	-10762.14	-8338.47	-5179.92	-3451.20	-1223.43	688.91	2091.23	4123.52
57.25	-13189.41	-10859.04	-8435.12	-5273.14	-3544.16	-1316.40	596.07	1995.97	4028.26
57.5	-13286.66	-10958.37	-8531.77	-5366.36	-3637.25	-1409.36	500.81	1900.70	3930.57
57.75	-13386.34	-11057.69	-8628.42	-5462.12	-3730.34	-1504.75	407.84	1805.44	3835.18
58	-13483.59	-11157.02	-8725.07	-5555.34	-3823.43	-1597.72	312.58	1710.18	3739.91
58.25	-13580.84	-11253.92	-8821.72	-5648.56	-3918.82	-1690.68	217.32	1617.21	3642.23
58.5	-13680.52	-11353.25	-8915.95	-5744.32	-4011.91	-1785.94	124.35	1521.95	3546.84
58.75	-13777.77	-11452.57	-9012.60	-5837.54	-4105.00	-1878.91	29.09	1426.68	3451.57
59	-13875.02	-11551.90	-9109.25	-5933.18	-4200.52	-1974.30	-66.30	1328.87	3353.76
59.25	-13974.69	-11648.80	-9205.90	-6026.52	-4293.48	-2067.26	-161.57	1233.61	3256.07
59.5	-14071.95	-11748.13	-9302.56	-6119.74	-4386.57	-2162.65	-256.83	1138.34	3160.68
59.75	-14171.62	-11847.45	-9399.21	-6215.51	-4482.09	-2255.62	-349.79	1042.95	3062.99
60	-14268.87	-11946.78	-9495.86	-6308.73	-4575.18	-2351.01	-445.06	947.69	2967.60
60.25	-14368.55	-12046.11	-9592.51	-6404.49	-4668.27	-2443.97	-540.45	852.43	2869.91
60.5	-14465.80	-12145.43	-9689.16	-6497.71	-4763.79	-2539.36	-635.71	757.04	2772.10
60.75	-14565.48	-12242.34	-9785.81	-6593.48	-4856.75	-2634.75	-731.10	659.35	2676.71
61	-14662.73	-12341.66	-9884.89	-6689.12	-4952.27	-2727.84	-826.49	563.96	2579.02
61.25	-14762.40	-12440.99	-9981.54	-6782.46	-5045.36	-2823.23	-921.75	468.69	2481.21
61.5	-14859.66	-12540.31	-10078.19	-6878.10	-5140.87	-2918.62	-1017.14	370.88	2383.39
61.75	-14959.33	-12639.64	-10174.84	-6971.45	-5236.39	-3011.59	-1112.41	275.49	2288.13
62	-15056.58	-12738.97	-10271.50	-7067.09	-5329.48	-3106.98	-1207.80	180.23	2190.31
62.25	-15156.26	-12838.29	-10368.15	-7162.85	-5425.00	-3202.36	-1303.19	82.41	2092.50
62.5	-15253.51	-12937.62	-10464.80	-7258.50	-5518.09	-3297.75	-1401.00	-12.85	1994.69

62.75	-15353.19	-13036.95	-10563.88	-7351.84	-5613.60	-3393.27	-1496.26	-110.67	1896.87
63	-15450.44	-13136.27	-10660.53	-7447.48	-5709.12	-3488.66	-1591.65	-206.06	1799.06
63.25	-15550.11	-13235.60	-10757.18	-7543.25	-5802.21	-3584.05	-1687.04	-303.74	1701.24
63.5	-15649.79	-13334.93	-10853.83	-7639.02	-5897.72	-3677.01	-1782.43	-399.13	1603.55
63.75	-15747.04	-13434.25	-10952.91	-7732.23	-5993.24	-3772.53	-1880.12	-496.95	1505.74
64	-15846.72	-13533.58	-11049.56	-7828.00	-6088.75	-3867.92	-1975.51	-594.76	1407.93
64.25	-15943.97	-13632.91	-11146.21	-7923.64	-6184.27	-3963.31	-2070.90	-690.15	1310.11
64.5	-16043.65	-13732.23	-11245.29	-8019.41	-6277.36	-4058.82	-2168.71	-787.84	1212.30
64.75	-16143.32	-13833.98	-11341.94	-8115.18	-6373.00	-4154.21	-2264.10	-883.23	1112.06
65	-16240.57	-13933.31	-11438.59	-8210.82	-6468.52	-4252.03	-2361.92	-981.04	1014.12
65.25	-16340.25	-14032.64	-11537.67	-8306.59	-6564.03	-4347.54	-2457.31	-1078.86	916.30
65.5	-16439.93	-14131.96	-11634.32	-8399.93	-6659.55	-4442.93	-2552.57	-1176.67	818.49
65.75	-16537.18	-14231.29	-11730.97	-8495.57	-6755.06	-4538.32	-2650.39	-1272.06	720.67
66	-16636.85	-14330.62	-11830.05	-8591.34	-6850.58	-4633.84	-2745.78	-1369.88	620.43
66.25	-16736.53	-14429.94	-11926.70	-8687.11	-6946.10	-4729.23	-2843.59	-1467.69	522.62
66.5	-16836.21	-14531.69	-12025.77	-8782.87	-7041.74	-4824.74	-2938.98	-1565.51	424.81
66.75	-16933.46	-14631.02	-12122.43	-8878.51	-7137.25	-4922.56	-3036.79	-1663.32	324.44
67	-17033.13	-14730.35	-12221.50	-8974.28	-7232.77	-5018.07	-3134.61	-1761.13	226.63
67.25	-17132.81	-14829.67	-12318.15	-9070.05	-7328.28	-5113.46	-3230.00	-1858.95	128.81
67.5	-17232.48	-14929.00	-12417.23	-9168.24	-7423.80	-5208.98	-3327.94	-1956.76	28.57
67.75	-17329.74	-15030.75	-12513.88	-9263.88	-7519.44	-5306.79	-3423.33	-2052.15	-69.37
68	-17429.41	-15130.08	-12612.96	-9359.65	-7614.96	-5402.31	-3521.14	-2149.97	-169.61
68.25	-17529.09	-15229.40	-12709.61	-9455.42	-7710.47	-5497.70	-3618.96	-2247.78	-267.42
68.5	-17628.76	-15331.15	-12808.69	-9551.19	-7806.11	-5595.64	-3714.35	-2345.60	-367.79
68.75	-17726.02	-15430.48	-12905.34	-9646.83	-7901.63	-5691.03	-3812.16	-2443.41	-465.60
69	-17825.69	-15529.81	-13004.41	-9742.60	-7997.15	-5786.54	-3909.98	-2543.65	-565.84
69.25	-17925.37	-15629.13	-13103.49	-9838.36	-8092.66	-5884.48	-4007.79	-2641.46	-663.78
69.5	-18025.04	-15730.88	-13200.14	-9936.56	-8190.73	-5979.87	-4105.73	-2739.41	-764.02
69.75	-18124.72	-15830.21	-13299.22	-10032.32	-8286.24	-6077.81	-4201.12	-2837.22	-861.96
70	-18224.40	-15931.96	-13395.87	-10128.09	-8381.88	-6173.20	-4298.93	-2935.03	-962.20
70.25	-18321.65	-16031.29	-13494.95	-10223.73	-8477.40	-6271.14	-4396.75	-3032.85	-1062.57
70.5	-18421.32	-16130.62	-13594.02	-10321.92	-8572.92	-6366.66	-4494.69	-3130.66	-1160.38
70.75	-18521.00	-16232.37	-13690.67	-10417.69	-8670.98	-6464.47	-4592.50	-3228.60	-1260.75
71	-18620.68	-16331.69	-13789.75	-10513.46	-8766.50	-6559.99	-4690.32	-3328.84	-1360.99
71.25	-18720.35	-16431.02	-13888.83	-10609.23	-8862.01	-6657.93	-4785.71	-3426.66	-1458.93
71.5	-18820.03	-16532.77	-13985.48	-10707.42	-8960.08	-6753.32	-4883.65	-3524.60	-1559.16
71.75	-18919.71	-16632.10	-14084.55	-10803.19	-9055.59	-6851.26	-4981.46	-3622.41	-1659.53
72	-19019.38	-16733.85	-14183.63	-10898.95	-9151.24	-6946.78	-5079.28	-3722.65	-1759.77
72.25	-19119.06	-16833.17	-14282.71	-10997.15	-9249.18	-7044.72	-5177.22	-3820.59	-1857.71
72.5	-19216.31	-16934.93	-14379.36	-11092.79	-9344.82	-7142.53	-5275.03	-3918.41	-1958.08
72.75	-19315.98	-17034.25	-14478.44	-11188.56	-9440.33	-7238.05	-5372.85	-4018.65	-2058.31
73	-19415.66	-17133.58	-14577.51	-11286.75	-9538.27	-7335.99	-5470.79	-4116.59	-2158.68
73.25	-19515.34	-17235.33	-14676.59	-11382.52	-9633.92	-7433.93	-5568.60	-4214.40	-2259.05
73.5	-19615.01	-17334.66	-14775.66	-11480.71	-9731.86	-7529.44	-5666.54	-4314.77	-2356.86
73.75	-19714.69	-17436.41	-14872.32	-11576.48	-9827.50	-7627.26	-5766.78	-4412.58	-2457.22
74	-19814.37	-17535.73	-14971.39	-11674.67	-9923.01	-7725.20	-5864.72	-4510.39	-2557.59
74.25	-19914.04	-17637.49	-15070.47	-11770.44	-10021.08	-7820.71	-5962.54	-4610.76	-2657.83
74.5	-20013.72	-17739.24	-15169.55	-11868.63	-10116.72	-7918.65	-6060.48	-4708.57	-2758.19
74.75	-20113.39	-17838.56	-15268.62	-11964.40	-10214.66	-8016.59	-6158.29	-4808.94	-2858.56
75	-20213.07	-17940.31	-15367.70	-12060.16	-10310.30	-8114.53	-6256.10	-4906.75	-2958.93
75.25	-20312.75	-18039.64	-15464.35	-12158.36	-10408.24	-8212.35	-6354.05	-5007.12	-3059.29

75.5	-20412.42	-18141.39	-15563.43	-12256.55	-10503.89	-8307.86	-6451.99	-5104.93	-3159.53
75.75	-20512.10	-18240.72	-15662.50	-12352.32	-10601.83	-8405.80	-6552.22	-5205.30	-3259.90
76	-20611.78	-18342.47	-15761.58	-12450.51	-10699.89	-8503.75	-6650.17	-5303.24	-3360.26
76.25	-20711.45	-18441.80	-15860.66	-12546.28	-10795.41	-8601.69	-6747.98	-5403.48	-3460.63
76.5	-20811.13	-18543.55	-15959.73	-12644.47	-10893.47	-8699.63	-6845.92	-5501.42	-3560.99
76.75	-20910.80	-18645.30	-16058.81	-12740.24	-10989.12	-8797.57	-6946.16	-5601.66	-3661.36
77	-21010.48	-18744.63	-16157.89	-12838.43	-11087.06	-8895.51	-7044.10	-5702.02	-3761.72
77.25	-21110.16	-18846.38	-16256.96	-12934.20	-11182.70	-8991.02	-7141.91	-5799.84	-3861.96
77.5	-21209.83	-18945.70	-16356.04	-13032.39	-11280.64	-9088.96	-7239.85	-5900.20	-3962.33
77.75	-21309.51	-19047.45	-16455.11	-13130.58	-11378.70	-9186.90	-7340.22	-5998.14	-4062.69
78	-21411.61	-19149.21	-16554.19	-13226.47	-11474.35	-9284.84	-7438.03	-6098.38	-4165.48
78.25	-21511.29	-19248.53	-16653.27	-13324.67	-11572.29	-9382.78	-7535.97	-6198.75	-4265.85
78.5	-21610.96	-19350.28	-16752.34	-13422.86	-11670.35	-9480.72	-7636.34	-6296.69	-4366.21
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79	-21810.31	-19551.36	-16950.50	-13616.82	-11863.94	-9676.61	-7832.10	-6497.29	-4566.94
79.25	-21909.99	-19653.11	-17049.57	-13715.01	-11962.00	-9774.55	-7932.46	-6595.23	-4667.31
79.5	-22009.67	-19754.86	-17148.65	-13810.78	-12060.07	-9872.49	-8030.27	-6695.60	-4770.10
79.75	-22109.34	-19854.19	-17247.73	-13908.97	-12155.58	-9970.43	-8130.64	-6795.84	-4870.46
80	-22209.02	-19955.94	-17346.80	-14007.16	-12253.65	-10068.37	-8228.58	-6896.20	-4970.83
80.25	-22308.69	-20057.69	-17445.88	-14105.36	-12351.72	-10166.31	-8328.95	-6994.14	-5071.19
80.5	-22410.80	-20159.44	-17544.96	-14201.25	-12449.78	-10264.25	-8426.76	-7094.51	-5173.98
80.75	-22510.47	-20258.77	-17644.03	-14299.44	-12545.30	-10362.19	-8524.70	-7194.75	-5274.35
81	-22610.15	-20360.52	-17743.11	-14397.64	-12643.36	-10460.13	-8625.07	-7295.11	-5374.72
81.25	-22709.82	-20462.27	-17842.18	-14495.83	-12741.43	-10560.49	-8723.01	-7395.48	-5475.21
81.5	-22809.50	-20564.02	-17943.69	-14591.60	-12839.50	-10658.56	-8823.25	-7493.42	-5578.00
81.75	-22909.18	-20663.35	-18042.76	-14689.79	-12937.44	-10756.50	-8921.19	-7593.79	-5678.36
82	-23011.28	-20765.10	-18141.84	-14788.11	-13033.08	-10854.44	-9021.55	-7694.02	-5778.73
82.25	-23110.95	-20866.85	-18240.92	-14886.30	-13131.15	-10952.38	-9119.49	-7794.39	-5881.52
82.5	-23210.63	-20968.61	-18339.99	-14984.49	-13229.21	-11050.32	-9219.86	-7894.75	-5981.88
82.75	-23310.31	-21067.93	-18439.07	-15080.26	-13327.15	-11148.26	-9317.67	-7995.12	-6082.25
83	-23409.98	-21169.68	-18538.14	-15178.45	-13425.22	-11248.63	-9418.04	-8093.06	-6185.16
83.25	-23509.66	-21271.43	-18639.65	-15276.64	-13523.29	-11346.69	-9518.40	-8193.43	-6285.53
83.5	-23611.76	-21373.19	-18738.72	-15374.96	-13621.35	-11444.63	-9616.34	-8293.79	-6385.89
83.75	-23711.44	-21474.94	-18837.80	-15473.15	-13719.42	-11542.58	-9716.71	-8394.16	-6488.69
84	-23811.11	-21574.26	-18936.87	-15571.35	-13814.93	-11640.52	-9814.65	-8494.40	-6589.05
84.25	-23910.79	-21676.01	-19035.95	-15667.11	-13913.00	-11740.88	-9914.89	-8594.76	-6691.97
84.5	-24012.89	-21777.77	-19135.03	-15765.43	-14011.07	-11838.82	-10015.25	-8695.13	-6792.33
84.75	-24112.57	-21879.52	-19236.53	-15863.62	-14109.13	-11936.89	-10113.19	-8795.49	-6892.70
85	-24212.24	-21981.27	-19335.61	-15961.82	-14207.20	-12034.83	-10213.56	-8895.86	-6995.49
85.25	-24311.92	-22083.02	-19434.68	-16060.01	-14305.27	-12132.77	-10311.50	-8996.22	-7095.85
85.5	-24411.59	-22182.35	-19533.76	-16158.20	-14403.21	-12233.13	-10411.86	-9096.59	-7198.77
85.75	-24513.70	-22284.10	-19635.26	-16256.52	-14501.27	-12331.20	-10512.23	-9196.95	-7299.13
86	-24613.37	-22385.85	-19734.34	-16354.71	-14599.34	-12429.14	-10610.17	-9297.32	-7401.92
86.25	-24713.05	-22487.60	-19833.41	-16452.91	-14697.41	-12529.51	-10710.54	-9397.68	-7502.42
86.5	-24812.72	-22589.35	-19932.49	-16551.10	-14795.47	-12627.45	-10810.90	-9498.05	-7605.21
86.75	-24914.82	-22691.10	-20033.99	-16649.42	-14893.54	-12725.51	-10908.84	-9598.41	-7705.57
87	-25014.50	-22792.85	-20133.07	-16747.61	-14991.61	-12825.88	-11009.21	-9698.78	-7808.49
87.25	-25114.18	-22894.61	-20232.14	-16845.80	-15089.67	-12923.82	-11109.57	-9799.14	-7908.85
87.5	-25216.28	-22993.93	-20331.22	-16944.12	-15187.61	-13021.76	-11209.94	-9899.51	-8011.64
87.75	-25315.95	-23095.68	-20432.72	-17042.31	-15285.68	-13122.25	-11307.88	-9999.88	-8112.13
88	-25415.63	-23197.43	-20531.80	-17140.50	-15383.75	-13220.19	-11408.24	-10100.24	-8214.92

88.25	-25515.31	-23299.19	-20630.87	-17238.70	-15481.81	-13318.13	-11508.61	-10200.61	-8315.29
88.5	-25617.41	-23400.94	-20732.38	-17337.02	-15579.88	-13418.62	-11608.97	-10300.97	-8418.21
88.75	-25717.08	-23502.69	-20831.45	-17435.21	-15677.94	-13516.56	-11706.91	-10401.34	-8521.00
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89.25	-25918.86	-23706.19	-21032.03	-17631.72	-15874.08	-13714.99	-11907.64	-10602.07	-8724.28
89.5	-26018.54	-23807.94	-21131.11	-17729.91	-15974.57	-13812.94	-12008.01	-10702.56	-8824.64
89.75	-26118.21	-23909.69	-21230.18	-17828.10	-16072.63	-13913.30	-12105.95	-10805.35	-8927.56
90	-26220.31	-24011.44	-21331.68	-17926.42	-16170.70	-14011.37	-12206.32	-10905.71	-9030.35
90.25	-26319.99	-24113.20	-21430.76	-18024.61	-16268.77	-14109.31	-12306.68	-11006.08	-9130.71
90.5	-26419.67	-24214.95	-21529.84	-18122.81	-16366.83	-14209.67	-12407.05	-11106.44	-9233.63
90.75	-26521.77	-24316.70	-21631.34	-18221.13	-16464.90	-14307.74	-12507.41	-11206.81	-9334.00
91	-26621.44	-24418.45	-21730.41	-18319.32	-16562.97	-14408.10	-12605.35	-11307.18	-9436.91
91.25	-26721.12	-24520.20	-21829.49	-18417.51	-16661.03	-14506.04	-12705.72	-11407.54	-9539.70
91.5	-26823.22	-24621.95	-21930.99	-18515.83	-16761.52	-14606.54	-12806.08	-11510.46	-9640.19
91.75	-26922.90	-24721.28	-22030.07	-18614.02	-16859.47	-14704.48	-12906.45	-11610.82	-9742.98
92	-27022.57	-24823.03	-22131.57	-18712.21	-16957.53	-14802.54	-13006.81	-11711.19	-9845.77
92.25	-27124.67	-24924.78	-22230.65	-18812.96	-17055.60	-14902.91	-13107.30	-11811.55	-9946.26
92.5	-27224.35	-25026.53	-22329.72	-18911.15	-17153.66	-15000.85	-13207.67	-11911.92	-10049.06
92.75	-27324.03	-25128.28	-22431.22	-19009.34	-17251.73	-15101.34	-13305.61	-12012.28	-10151.97
93	-27426.13	-25230.04	-22530.30	-19107.66	-17349.80	-15199.28	-13405.98	-12115.07	-10252.34
93.25	-27525.80	-25331.79	-22631.80	-19205.85	-17450.29	-15299.77	-13506.34	-12215.56	-10355.25
93.5	-27625.48	-25435.96	-22730.88	-19304.04	-17548.48	-15397.71	-13606.71	-12315.93	-10458.04
93.75	-27727.58	-25537.71	-22832.38	-19402.36	-17646.55	-15498.20	-13707.07	-12416.30	-10558.53
94	-27827.26	-25639.47	-22931.46	-19502.98	-17744.61	-15596.14	-13807.56	-12516.66	-10661.32
94.25	-27929.36	-25741.22	-23030.53	-19601.30	-17842.68	-15696.51	-13907.93	-12619.45	-10764.24
94.5	-28029.03	-25842.97	-23132.03	-19699.49	-17943.17	-15794.58	-14008.29	-12719.94	-10864.61
94.75	-28128.71	-25944.72	-23231.11	-19797.68	-18041.24	-15894.94	-14108.66	-12820.31	-10967.52
95	-28230.81	-26046.47	-23332.61	-19896.00	-18139.30	-15995.43	-14209.02	-12920.67	-11070.44
95.25	-28330.49	-26148.22	-23431.69	-19994.19	-18237.37	-16093.37	-14306.96	-13023.46	-11173.23
95.5	-28432.59	-26249.97	-23533.19	-20094.94	-18337.86	-16193.86	-14407.46	-13123.95	-11273.72
95.75	-28532.27	-26351.72	-23632.27	-20193.13	-18435.93	-16291.80	-14507.82	-13224.32	-11376.51
96	-28631.94	-26453.48	-23733.77	-20291.32	-18534.00	-16392.30	-14608.19	-13324.68	-11479.43

**WITHYHEDGE LANDFILL
PHASE 2 SURFACE WATER
MANAGEMENT SYSTEM**

**Design and Construction
Validation Report**

**Appendix 8
Settlement Requirements**

Report Number 2548r1v1d0425

Pond Number	Route	Shoulder	Base	Freeboard	Area	Volume	Inlet Invert	Outlet Invert
Phase 2 Settling Pond 1	Collection/SP2	38.3	37.3		101	101	38.3	38.3
Phase 2 Settling Pond 2	SP1/SP3	37.8	36.8	0.5	43	43	37.8	37.8
Phase 2 Settling Pond 3	SP2/SP4	37.8	36.8	0.5	43	43	37.8	37.8
Phase 2 Settling Pond 4	SP3/SP5	37.8	36.8	0.5	59	59	37.8	37.8
Phase 2 Settling Pond 5	SP4/SP6	37.8	36.8	0.5	53	53	37.8	37.8
Phase 2 Settling Pond 6	SP5/SP7	37.8	36.8	0.5	28	28	37.8	37.8
Phase 2 Settling Pond 7	SP6/CP1	37.8	36.8	0.5	48	48	37.8	37.8
Phase 2 Combined Pond 1	SP7/CP2	37.1	35.5	0.2	851	958.7	36.4	35.9
Phase 2 Combined Pond 2	CP1/CP3	37.2	35.4	0.3	738	902.3	35.9	35.85
Phase 2 Combined Pond 3	CP2/CP4	37.2	35.3	0.3	1068	1357.6	35.85	35.8
Phase 2 Combined Pond 4	CP3/CP5	37.4	35.4	0.5	1036	1215.8	35.8	35.75
Phase 2 Combined Pond 5	CP4&CP11/CP6	37.4	35.4	0.5	942	1092.7	35.75	35.7
Phase 2 Combined Pond 6	CP5/CP7	37.2	35.3	0.3	1751	2339.0	35.7	35.6
Phase 2 Combined Pond 7	CP6/CP8	37.2	35.2	0.3	1003	1378.3	35.6	35.55
Phase 2 Combined Pond 8	CP7/D2	37.2	35.1	0.3	719	926.3	35.55	35.5
Phase 2 Combined Pond 9	Collection/CP10	37.6	35.7	0.8	2800	2912.1	39.4	35.9
Phase 2 Combined Pond 10	CP9/CP11	37.3	35.5	0.5	2059	2461.5	35.9	35.85
Phase 2 Combined Pond 11	CP10/CP5	37.3	35.5	0.5	736	793.2	35.85	35.8

**WITHYHEDGE LANDFILL
PHASE 2 SURFACE WATER
MANAGEMENT SYSTEM**

**Design and Construction
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**Appendix 9
Settlement Pond
Measurements,
Construction Stages
1 and 2**

Report Number 2548r1v1d0425

Settling Pond Measurements	Units	Stage 1	Stage 2
Outflow at D2	m3/s	106l/s	140l/s
Inflow from Spring	l/s	4.5l/s	4.5l/s
Area of pond required for settling	m2	10600	14000
Area of Ponds available	m2	10445	14078
Drained Area (Phase 2-Active Cell)	m2	235500	289300
Area 1 - Restored Landfill	Ha	10.97	16.35
Area 2 - Temporary Cap	Ha	7.48	7.48
Area 3 - Working Area	Ha	4.72	4.72
Volume of Ponds available	m2	10546	16712

**WITHYHEDGE LANDFILL
PHASE 2 SURFACE WATER
MANAGEMENT SYSTEM**

**Design and Construction
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**Appendix 10
Photographs**

Report Number 2548r1v1d0425

Surface Water Management System Photographs



06 August 2024



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19 November 2024

Surface Water Management System Photographs



19 November 2024



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