

Project: Balance Power Sandy Brow Lane Liverpool	Date: 13/06/2025		
	Designed by: Jonathan Beale	Checked by: Sam Cox	Approved By: Sam Cox
Report Details: Type: Inflows Storm Phase: Phase	Company Address: Ridge and Partners LLP The Cowyards, Blenheim Park Oxford Road, Woodstock, OX20 1QR		

RIDGE

 **Catchment Area** Type : Catchment Area

Area (ha)

0.904

Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100

 **Catchment Area (2)** Type : Catchment Area

Area (ha)

0.126

Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100

 **Catchment Area (1)** Type : Catchment Area

Area (ha)

0.085

Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100

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RIDGE



Catchment Area (4)

Type : Catchment Area

Area (ha)	0.067
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100



Catchment Area (3)

Type : Catchment Area

Area (ha)	0.042
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.900
Winter Volumetric Runoff	0.900
Time of Concentration (mins)	5
Percentage Impervious (%)	100

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RIDGE



Pond

Type : Pond

Dimensions

Exceedance Level (m)	50.350
Depth (m)	1.150
Base Level (m)	49.200
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.20
Total Volume (m³)	644.948

Depth (m)	Area (m²)	Volume (m³)
0.000	630.00	0.000
1.150	1000.00	929.095

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	S1.000
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (2)

Inlet Type	Point Inflow
Incoming Item(s)	S2.000
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	S1.001
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	39.410
Friction Scheme	Manning's n
n	0.05

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Swale

Type : Swale

Swale

Exceedance Level (m)	50.350
Depth (m)	1.100
Base Level (m)	49.250
Top Width (m)	12.800
Side Slope (1:X)	4.00
Base Width (m)	4.000
Freeboard (mm)	300
Length (m)	200.000
Long. Slope (1:X)	200.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.05
Total Volume (m³)	1152.000

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	Catchment Area
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	S1.000
Outlet Type	Free Discharge

Advanced

Swale

Porosity (%)	100
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Swale 2

Type : Swale

Swale	
Exceedance Level (m)	50.350
Depth (m)	1.100
Base Level (m)	49.250
Top Width (m)	7.600
Side Slope (1:X)	3.00
Base Width (m)	1.000
Freeboard (mm)	300
Length (m)	50.000
Long. Slope (1:X)	100.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.05
Total Volume (m³)	136.000

Inlets	
Inlet (1)	
Inlet Type	Point Inflow
Incoming Item(s)	Catchment Area (1)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet	
Inlet Type	Point Inflow
Incoming Item(s)	RM01
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets	
Outlet	
Outgoing Connection	S2.000
Outlet Type	Free Discharge

Advanced	
Swale	
Porosity (%)	100

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Swale 3

Type : Swale

Swale	
Exceedance Level (m)	49.250
Depth (m)	0.750
Base Level (m)	48.500
Top Width (m)	4.000
Side Slope (1:X)	2.00
Base Width (m)	1.000
Freeboard (mm)	300
Length (m)	90.000
Long. Slope (1:X)	200.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.05
Total Volume (m³)	76.950

Inlets	
Inlet (1)	
Inlet Type	Point Inflow
Incoming Item(s)	S1.002
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets	
Outlet	
Outgoing Connection	S1.003
Outlet Type	Free Discharge

Advanced	
Swale	
Porosity (%)	100

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Ditch 2

Type : Swale

Swale

Exceedance Level (m)	48.500
Depth (m)	0.500
Base Level (m)	48.000
Top Width (m)	2.000
Side Slope (1:X)	1.50
Base Width (m)	0.500
Freeboard (mm)	300
Length (m)	35.000
Long. Slope (1:X)	35.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.05
Total Volume (m³)	5.600

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	Catchment Area (3)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	S9.001
Outlet Type	Free Discharge

Advanced

Swale

Porosity (%)	100
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Ditch 1

Type : Swale

Swale	
Exceedance Level (m)	48.500
Depth (m)	0.750
Base Level (m)	47.750
Top Width (m)	2.000
Side Slope (1:X)	1.00
Base Width (m)	0.500
Freeboard (mm)	300
Length (m)	90.000
Long. Slope (1:X)	36.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.05
Total Volume (m³)	38.475

Inlets	
Inlet	
Inlet Type	Lateral Inflow
Incoming Item(s)	Catchment Area (2)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets	
Outlet	
Outgoing Connection	S9.000
Outlet Type	Free Discharge

Advanced	
Swale	
Porosity (%)	100

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Ditch 3

Type : Swale

Swale

Exceedance Level (m)	48.500
Depth (m)	0.500
Base Level (m)	48.000
Top Width (m)	2.000
Side Slope (1:X)	1.50
Base Width (m)	0.500
Freeboard (mm)	300
Length (m)	70.000
Long. Slope (1:X)	65.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.05
Total Volume (m³)	11.200

Inlets

Inlet

Inlet Type	Lateral Inflow
Incoming Item(s)	Catchment Area (4)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	S9.002
Outlet Type	Free Discharge

Advanced

Swale

Porosity (%)	100
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Cellular Storage

Type : Cellular Storage

Dimensions	
Exceedance Level (m)	48.350
Depth (m)	1.200
Base Level (m)	46.300
Number of Crates Long	24
Number of Crates Wide	7
Number of Crates High	3
Porosity (%)	100
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.4
Total Volume (m³)	101.650
Inlets	
Inlet	
Inlet Type	Point Inflow
Incoming Item(s)	S9.003
Bypass Destination	(None)
Capacity Type	No Restriction
Outlets	
Outlet	
Outgoing Connection	Pipe
Outlet Type	Free Discharge

Project: Balance Power Sandy Brow Lane Liverpool		Date: 13/06/2025		
		Designed by: Jonathan Beale	Checked by: Sam Cox	
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Report Details: Type: Connections Storm Phase: Phase		Company Address: Ridge and Partners LLP The Cowyards, Blenheim Park Oxford Road, Woodstock, OX20 1QR		

Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)
S1.001	10.455	Pipe	104.547		0.6	150	50.200	49.200
S1.002	8.619	Pipe	57.460		0.6	150	50.200	49.100
S9.001	13.691	Pipe	7.606		0.6	150	48.500	48.000
S9.000	6.007	Pipe	3.875		0.6	100	48.500	47.750
S9.002	5.794	Pipe	7.726		0.6	100	48.500	48.000
RM01	123.078	Pipe	-34.670		0.6	100	48.350	46.200
Pipe	17.062	Pipe	170.619		0.6	225	48.350	46.300
S9.003	76.853	Pipe	80.898		0.6	150	48.300	47.250
S1.000	11.320	Pipe	226.409		0.6	150	50.250	49.250
S2.000	9.621	Pipe	192.421		0.6	150	50.250	49.250
S1.003	8.644	Pipe	3.458		0.6	100	49.700	48.500

Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Part Family	Lock	Flow Restriction (L/s)	Culvert Type	Culvert Entrance
S1.001	50.200	49.100		None		(None)	(None)
S1.002	50.000	48.950		Levels	2.7	(None)	(None)
S9.001	48.350	46.200		None		(None)	(None)
S9.000	48.350	46.200		None		(None)	(None)
S9.002	48.300	47.250		None		(None)	(None)
RM01	50.850	49.750		None	5.0	(None)	(None)
Pipe	48.350	46.200		None		(None)	(None)
S9.003	48.350	46.300		None		(None)	(None)
S1.000	50.200	49.200		None		(None)	(None)
S2.000	50.200	49.200		None		(None)	(None)
S1.003	48.000	46.000		None		(None)	(None)

Project: Balance Power Sandy Brow Lane Liverpool	Date: 13/06/2025			
Report Details: Type: Outfall Details Storm Phase: Phase	Designed by: Jonathan Beale	Checked by: Sam Cox	Approved By: Sam Cox	
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Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
HW01	Free Discharge			

Project: Balance Power Sandy Brow Lane Liverpool	Date: 13/06/2025		
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Report Title: Rainfall Analysis Criteria	Company Address: Ridge and Partners LLP The Cowyards, Blenheim Park Oxford Road, Woodstock, OX20 1QR		

RIDGE

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall

FSR

Type: FSR

Region	England And Wales
M5-60 (mm)	19.8
Ratio R	0.383
Summer	☒
Winter	☒

Return Period

Return Period (years)	Increase Rainfall (%)
1.0	0.000
2.0	0.000
30.0	0.000
100.0	45.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
240	480
360	720
480	960
960	1920
1440	2880

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Report Title: Rainfall Analysis Criteria	Company Address: Ridge and Partners LLP The Cowyards, Blenheim Park Oxford Road, Woodstock, OX20 1QR		

FEH		Type: FEH	
Site Location	GB 343850 398900 SJ 43850 98900		
Rainfall Version	2022		
Summer	☒		
Winter	☒		

Return Period	
Return Period (years)	Increase Rainfall (%)
2.0	0.000
30.0	0.000
100.0	45.000

Storm Durations	
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Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
240	480
360	720
480	960
960	1920
1440	2880

Project: Balance Power Sandy Brow Lane Liverpool	Date: 13/06/2025			
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Designed by: Jonathan Beale	Checked by: Sam Cox	Approved By: Sam Cox	
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FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Swale	FSR: 1 years: +0 %: 120 mins: Summer	50.274	49.527	0.024	0.277	61.1	73.609	0.000	0.000	21.1	104.172	93.610	OK
Swale 2	FSR: 1 years: +0 %: 960 mins: Summer	49.779	49.456	0.029	0.206	5.6	4.600	0.000	0.000	5.2	83.091	96.618	OK
Swale 3	FSR: 1 years: +0 %: 60 mins: Winter	48.974	48.519	0.024	0.019	2.5	2.083	0.000	0.000	2.5	9.000	97.293	OK
Ditch 2	FSR: 1 years: +0 %: 15 mins: Summer	49.013	48.029	0.013	0.029	6.6	0.430	0.000	0.000	5.7	2.833	92.318	OK
Pond	FSR: 1 years: +0 %: 960 mins: Summer	49.456	49.456	0.256	0.256	16.9	170.761	0.000	0.000	2.6	246.403	73.523	OK
Ditch 1	FSR: 1 years: +0 %: 15 mins: Summer	50.275	47.798	0.025	0.048	19.7	2.048	0.000	0.000	14.7	8.412	94.678	OK
Ditch 3	FSR: 1 years: +0 %: 15 mins: Summer	49.097	48.039	0.020	0.039	10.4	1.258	0.000	0.000	7.2	4.430	88.764	OK
Cellular Storage	FSR: 1 years: +0 %: 60 mins: Summer	46.445	46.445	0.145	0.145	16.0	12.211	0.000	0.000	4.6	12.248	87.987	OK

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FSR: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Swale	FSR: 2 years: +0 %: 120 mins: Summer	50.278	49.574	0.028	0.324	76.2	93.752	0.000	0.000	23.2	126.458	91.862	OK
Swale 2	FSR: 2 years: +0 %: 960 mins: Winter	49.775	49.513	0.025	0.263	4.4	6.975	0.000	0.000	4.1	98.691	94.871	OK
Swale 3	FSR: 2 years: +0 %: 60 mins: Summer	48.972	48.520	0.022	0.020	2.5	2.074	0.000	0.000	2.7	9.360	97.305	OK
Ditch 2	FSR: 2 years: +0 %: 15 mins: Summer	49.015	48.033	0.015	0.033	8.5	0.509	0.000	0.000	7.5	3.666	90.914	OK
Pond	FSR: 2 years: +0 %: 960 mins: Winter	49.513	49.513	0.313	0.313	13.1	211.503	0.000	0.000	2.6	251.960	67.206	OK
Ditch 1	FSR: 2 years: +0 %: 15 mins: Summer	50.279	47.808	0.029	0.058	25.4	2.466	0.000	0.000	19.7	10.910	93.592	OK
Ditch 3	FSR: 2 years: +0 %: 15 mins: Summer	49.100	48.047	0.023	0.047	13.5	1.520	0.000	0.000	9.7	5.752	86.432	OK
Cellular Storage	FSR: 2 years: +0 %: 60 mins: Summer	46.510	46.510	0.210	0.210	21.5	17.628	0.000	0.000	4.7	16.543	82.658	OK

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FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By:
 Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Swale	FSR: 30 years: +0 %: 120 mins: Summer	50.291	49.762	0.041	0.512	143.3	190.823	0.000	0.000	30.7	215.236	83.436	OK
Swale 2	FSR: 30 years: +0 %: 1440 mins: Winter	49.779	49.734	0.029	0.484	5.6	24.800	0.000	0.000	4.9	180.046	81.764	OK
Swale 3	FSR: 30 years: +0 %: 30 mins: Summer	48.972	48.520	0.022	0.020	2.5	2.101	0.000	0.000	2.7	2.782	97.270	OK
Ditch 2	FSR: 30 years: +0 %: 15 mins: Summer	49.023	48.047	0.023	0.047	16.1	0.779	0.000	0.000	14.7	6.982	86.088	OK
Pond	FSR: 30 years: +0 %: 1440 mins: Winter	49.734	49.734	0.534	0.534	15.1	378.344	0.000	0.000	2.6	361.274	41.337	OK
Ditch 1	FSR: 30 years: +0 %: 15 mins: Summer	50.293	48.019	0.043	0.269	48.3	5.435	0.000	0.000	27.0	20.829	85.873	OK
Ditch 3	FSR: 30 years: +0 %: 15 mins: Summer	49.111	48.079	0.035	0.079	25.7	2.494	0.000	0.000	18.7	11.021	77.735	OK
Cellular Storage	FSR: 30 years: +0 %: 120 mins: Summer	46.830	46.830	0.530	0.530	31.2	44.526	0.000	0.000	4.8	37.180	56.196	OK

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FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By:
Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Swale	FSR: 100 years: +45 %: 1440 mins: Winter	50.266	50.052	0.016	0.802	29.2	440.803	0.000	0.000	14.4	661.019	61.736	Flood Risk
Swale 2	FSR: 100 years: +45 %: 1440 mins: Winter	50.051	50.051	0.301	0.801	7.7	77.698	0.000	0.000	6.0	294.135	42.869	Flood Risk
Swale 3	FSR: 100 years: +45 %: 30 mins: Winter	48.975	48.520	0.025	0.020	2.5	2.153	0.000	0.000	2.6	3.322	97.202	OK
Ditch 2	FSR: 100 years: +45 %: 15 mins: Summer	49.033	48.069	0.033	0.069	30.3	1.191	0.000	0.000	28.0	13.207	78.723	OK
Pond	FSR: 100 years: +45 %: 1440 mins: Winter	50.050	50.050	0.850	0.850	19.8	645.304	0.000	0.000	2.6	394.354	-0.055	Flood Risk
Ditch 1	FSR: 100 years: +45 %: 15 mins: Summer	50.314	48.489	0.064	0.739	90.8	19.344	0.000	0.000	31.1	39.557	49.723	Flood Risk
Ditch 3	FSR: 100 years: +45 %: 15 mins: Summer	49.128	48.388	0.051	0.388	48.2	8.122	0.000	0.000	20.7	20.970	27.485	Flood Risk
Cellular Storage	FSR: 100 years: +45 %: 120 mins: Winter	48.083	48.083	1.783	1.783	40.6	101.413	0.000	0.000	4.9	30.588	0.233	OK

Project: Balance Power Sandy Brow Lane Liverpool	Date: 13/06/2025			
	Designed by: Jonathan Beale	Checked by: Sam Cox	Approved By: Sam Cox	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Company Address: Ridge and Partners LLP The Cowyards, Blenheim Park Oxford Road, Woodstock, OX20 1QR			



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Swale	FEH: 2 years: +0 %: 120 mins: Summer	50.275	49.541	0.025	0.291	65.1	78.805	0.000	0.000	21.8	110.016	93.159	OK
Swale 2	FEH: 2 years: +0 %: 1440 mins: Summer	49.777	49.500	0.027	0.250	4.9	6.353	0.000	0.000	4.6	108.584	95.329	OK
Swale 3	FEH: 2 years: +0 %: 60 mins: Winter	48.973	48.519	0.023	0.019	2.5	2.085	0.000	0.000	2.5	9.058	97.290	OK
Ditch 2	FEH: 2 years: +0 %: 15 mins: Summer	49.013	48.030	0.013	0.030	6.9	0.442	0.000	0.000	6.0	2.961	92.099	OK
Pond	FEH: 2 years: +0 %: 1440 mins: Summer	49.500	49.500	0.300	0.300	14.3	202.092	0.000	0.000	2.6	375.049	68.665	OK
Ditch 1	FEH: 2 years: +0 %: 15 mins: Summer	50.275	47.800	0.025	0.050	20.5	2.113	0.000	0.000	15.5	8.792	94.509	OK
Ditch 3	FEH: 2 years: +0 %: 15 mins: Summer	49.097	48.041	0.020	0.041	10.9	1.299	0.000	0.000	7.6	4.627	88.405	OK
Cellular Storage	FEH: 2 years: +0 %: 120 mins: Summer	46.456	46.456	0.156	0.156	11.3	13.073	0.000	0.000	4.4	15.069	87.139	OK

Project: Balance Power Sandy Brow Lane Liverpool		Date: 13/06/2025			
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Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company Address: Ridge and Partners LLP The Cowyards, Blenheim Park Oxford Road, Woodstock, OX20 1QR			



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By:
 Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Swale	FEH: 30 years: +0 %: 60 mins: Summer	50.296	49.712	0.046	0.462	173.8	162.334	0.000	0.000	28.7	138.095	85.908	OK
Swale 2	FEH: 30 years: +0 %: 1440 mins: Winter	49.777	49.671	0.027	0.421	4.9	18.324	0.000	0.000	4.3	162.577	86.527	OK
Swale 3	FEH: 30 years: +0 %: 30 mins: Summer	48.973	48.520	0.023	0.020	2.4	2.108	0.000	0.000	2.6	2.651	97.260	OK
Ditch 2	FEH: 30 years: +0 %: 15 mins: Summer	49.021	48.044	0.021	0.044	13.9	0.705	0.000	0.000	12.6	6.004	87.411	OK
Pond	FEH: 30 years: +0 %: 1440 mins: Winter	49.671	49.671	0.471	0.471	14.1	329.454	0.000	0.000	2.6	377.257	48.918	OK
Ditch 1	FEH: 30 years: +0 %: 15 mins: Summer	50.290	47.914	0.040	0.164	41.6	3.754	0.000	0.000	26.2	17.905	90.243	OK
Ditch 3	FEH: 30 years: +0 %: 15 mins: Summer	49.108	48.069	0.031	0.069	22.1	2.208	0.000	0.000	16.4	9.467	80.287	OK
Cellular Storage	FEH: 30 years: +0 %: 60 mins: Winter	46.740	46.740	0.440	0.440	30.3	36.974	0.000	0.000	4.8	16.377	63.627	OK

Project: Balance Power Sandy Brow Lane Liverpool			Date: 13/06/2025			
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase			Designed by: Jonathan Beale	Checked by: Sam Cox	Approved By: Sam Cox	
			Company Address: Ridge and Partners LLP The Cowyards, Blenheim Park Oxford Road, Woodstock, OX20 1QR			



FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By:
 Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Swale	FEH: 100 years: +45 %: 1440 mins: Winter	50.265	49.963	0.015	0.713	25.0	346.665	0.000	0.000	13.0	599.091	69.908	OK
Swale 2	FEH: 100 years: +45 %: 1440 mins: Winter	49.962	49.962	0.212	0.712	7.3	59.718	0.000	0.000	6.0	259.297	56.090	OK
Swale 3	FEH: 100 years: +45 %: 30 mins: Winter	48.975	48.520	0.025	0.020	2.5	2.131	0.000	0.000	2.7	3.179	97.231	OK
Ditch 2	FEH: 100 years: +45 %: 15 mins: Summer	49.029	48.061	0.029	0.061	25.0	1.044	0.000	0.000	23.0	10.892	81.355	OK
Pond	FEH: 100 years: +45 %: 1440 mins: Winter	49.961	49.961	0.761	0.761	18.4	566.903	0.000	0.000	2.6	378.447	12.101	OK
Ditch 1	FEH: 100 years: +45 %: 15 mins: Summer	50.307	48.345	0.057	0.595	74.9	13.966	0.000	0.000	29.9	32.670	63.700	Flood Risk
Ditch 3	FEH: 100 years: +45 %: 15 mins: Summer	49.122	48.297	0.045	0.297	39.7	5.417	0.000	0.000	20.3	17.284	51.635	Flood Risk
Cellular Storage	FEH: 100 years: +45 %: 120 mins: Winter	47.277	47.277	0.977	0.977	34.9	82.037	0.000	0.000	4.8	34.293	19.294	OK

Project: Balance Power Sandy Brow Lane Liverpool	Date: 13/06/2025			
Report Details: Type: Connections Summary Storm Phase: Phase	Designed by: Jonathan Beale	Checked by: Sam Cox	Approved By: Sam Cox	
	Company Address: Ridge and Partners LLP The Cowyards, Blenheim Park Oxford Road, Woodstock, OX20 1QR			



FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S1.001	FSR: 1 years: +0 %: 60 mins: Winter	Pipe	Pond	FC01	50.200	49.357	0.150	12.368	0.6	0.24	4.2	Surcharged
S1.002	FSR: 1 years: +0 %: 240 mins: Summer	Pipe	FC01	Swale 3	50.200	49.423	0.029	56.403	1.0	0.11	2.5	Surcharged
S9.001	FSR: 1 years: +0 %: 15 mins: Summer	Pipe	Ditch 2	FP01	48.500	48.023	0.150	2.833	0.8	0.09	5.7	OK
S9.000	FSR: 1 years: +0 %: 15 mins: Summer	Pipe	Ditch 1	FP01	48.500	47.792	0.100	8.412	1.9	0.47	14.7	OK
S9.002	FSR: 1 years: +0 %: 15 mins: Summer	Pipe	Ditch 3	S01	48.500	48.033	0.054	4.430	1.7	0.33	7.2	OK
RM01	FSR: 1 years: +0 %: 15 mins: Summer	Pipe	FP01	Swale 2	48.350	46.491	0.010	7.184	0.0	0.85	5.0	Surcharged
Pipe	FSR: 1 years: +0 %: 30 mins: Summer	Pipe	Cellular Storage	FP01	48.350	46.436	0.186	1.087	0.3	0.12	4.6	OK
S9.003	FSR: 1 years: +0 %: 30 mins: Summer	Pipe	S01	Cellular Storage	48.300	47.311	0.086	5.959	1.4	0.35	6.9	OK
S1.000	FSR: 1 years: +0 %: 30 mins: Summer	Pipe	Swale	Pond	50.250	49.322	0.143	47.693	1.5	1.91	22.4	OK
S2.000	FSR: 1 years: +0 %: 15 mins: Summer	Pipe	Swale 2	Pond	50.250	49.311	0.074	10.963	1.8	1.1	14.0	OK
S1.003	FSR: 1 years: +0 %: 120 mins: Summer	Pipe	Swale 3	HW01	49.700	48.522	0.019	23.725	2.5	0.08	2.6	OK

Project: Balance Power Sandy Brow Lane Liverpool	Date: 13/06/2025			
Report Details: Type: Connections Summary Storm Phase: Phase	Designed by: Jonathan Beale	Checked by: Sam Cox	Approved By: Sam Cox	
	Company Address: Ridge and Partners LLP The Cowyards, Blenheim Park Oxford Road, Woodstock, OX20 1QR			



FSR: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S1.001	FSR: 2 years: +0 %: 30 mins: Winter	Pipe	Pond	FC01	50.200	49.311	0.150	5.220	0.6	0.19	3.3	OK
S1.002	FSR: 2 years: +0 %: 360 mins: Winter	Pipe	FC01	Swale 3	50.200	49.490	0.029	89.597	1.0	0.11	2.5	Surcharged
S9.001	FSR: 2 years: +0 %: 15 mins: Summer	Pipe	Ditch 2	FP01	48.500	48.027	0.150	3.666	0.7	0.12	7.5	OK
S9.000	FSR: 2 years: +0 %: 15 mins: Summer	Pipe	Ditch 1	FP01	48.500	47.800	0.100	10.910	2.5	0.63	19.7	OK
S9.002	FSR: 2 years: +0 %: 15 mins: Summer	Pipe	Ditch 3	S01	48.500	48.039	0.063	5.752	1.9	0.44	9.7	OK
RM01	FSR: 2 years: +0 %: 15 mins: Summer	Pipe	FP01	Swale 2	48.350	46.537	0.010	7.351	0.0	0.85	5.0	Surcharged
Pipe	FSR: 2 years: +0 %: 60 mins: Summer	Pipe	Cellular Storage	FP01	48.350	46.510	0.225	6.967	0.4	0.12	4.7	OK
S9.003	FSR: 2 years: +0 %: 30 mins: Summer	Pipe	S01	Cellular Storage	48.300	47.320	0.115	7.646	1.4	0.44	8.8	OK
S1.000	FSR: 2 years: +0 %: 120 mins: Summer	Pipe	Swale	Pond	50.250	49.345	0.150	126.458	1.5	1.98	23.2	OK
S2.000	FSR: 2 years: +0 %: 15 mins: Summer	Pipe	Swale 2	Pond	50.250	49.319	0.086	12.800	1.9	1.33	17.0	OK
S1.003	FSR: 2 years: +0 %: 60 mins: Winter	Pipe	Swale 3	HW01	49.700	48.522	0.019	9.452	2.5	0.08	2.7	OK

Project: Balance Power Sandy Brow Lane Liverpool	Date: 13/06/2025			
Report Details: Type: Connections Summary Storm Phase: Phase	Designed by: Jonathan Beale	Checked by: Sam Cox	Approved By: Sam Cox	
	Company Address: Ridge and Partners LLP The Cowyards, Blenheim Park Oxford Road, Woodstock, OX20 1QR			



FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S1.001	FSR: 30 years: +0 %: 60 mins: Winter	Pipe	Pond	FC01	50.200	49.476	0.150	14.402	0.7	0.24	4.1	Surcharged
S1.002	FSR: 30 years: +0 %: 120 mins: Summer	Pipe	FC01	Swale 3	50.200	49.585	0.029	27.996	1.0	0.11	2.5	Surcharged
S9.001	FSR: 30 years: +0 %: 15 mins: Summer	Pipe	Ditch 2	FP01	48.500	48.040	0.150	6.982	0.8	0.23	14.7	OK
S9.000	FSR: 30 years: +0 %: 15 mins: Summer	Pipe	Ditch 1	FP01	48.500	47.838	0.100	20.829	3.4	0.87	27.0	OK
S9.002	FSR: 30 years: +0 %: 15 mins: Summer	Pipe	Ditch 3	S01	48.500	48.060	0.098	11.021	2.4	0.85	18.7	OK
RM01	FSR: 30 years: +0 %: 15 mins: Summer	Pipe	FP01	Swale 2	48.350	46.658	0.011	7.739	0.0	0.85	5.0	Surcharged
Pipe	FSR: 30 years: +0 %: 120 mins: Winter	Pipe	Cellular Storage	FP01	48.350	46.829	0.225	11.817	0.1	0.12	4.8	Surcharged
S9.003	FSR: 30 years: +0 %: 15 mins: Summer	Pipe	S01	Cellular Storage	48.300	47.367	0.150	10.747	1.3	0.87	17.2	OK
S1.000	FSR: 30 years: +0 %: 120 mins: Summer	Pipe	Swale	Pond	50.250	49.423	0.150	215.197	1.7	2.62	30.7	Surcharged
S2.000	FSR: 30 years: +0 %: 15 mins: Summer	Pipe	Swale 2	Pond	50.250	49.348	0.135	19.820	1.6	1.9	24.2	OK
S1.003	FSR: 30 years: +0 %: 30 mins: Winter	Pipe	Swale 3	HW01	49.700	48.522	0.020	2.805	2.5	0.08	2.8	OK

Project: Balance Power Sandy Brow Lane Liverpool	Date: 13/06/2025			
Report Details: Type: Connections Summary Storm Phase: Phase	Designed by: Jonathan Beale	Checked by: Sam Cox	Approved By: Sam Cox	
	Company Address: Ridge and Partners LLP The Cowyards, Blenheim Park Oxford Road, Woodstock, OX20 1QR			



FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S1.001	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	Pond	FC01	50.200	49.306	0.150	2.580	0.5	0.33	5.7	OK
S1.002	FSR: 100 years: +45 %: 240 mins: Summer	Pipe	FC01	Swale 3	50.200	49.880	0.029	58.474	1.0	0.11	2.5	Surcharged
S9.001	FSR: 100 years: +45 %: 15 mins: Summer	Pipe	Ditch 2	FP01	48.500	48.058	0.150	13.207	1.6	0.43	28.0	OK
S9.000	FSR: 100 years: +45 %: 15 mins: Summer	Pipe	Ditch 1	FP01	48.500	47.952	0.100	39.557	4.0	1	31.1	Flood Risk
S9.002	FSR: 100 years: +45 %: 15 mins: Summer	Pipe	Ditch 3	S01	48.500	48.128	0.100	20.970	2.6	0.94	20.7	Flood Risk
RM01	FSR: 100 years: +45 %: 15 mins: Summer	Pipe	FP01	Swale 2	48.350	47.029	0.013	8.035	0.0	0.85	5.0	Surcharged
Pipe	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	Cellular Storage	FP01	48.350	47.045	0.225	0.000	0.1	0.14	5.7	Surcharged
S9.003	FSR: 100 years: +45 %: 15 mins: Summer	Pipe	S01	Cellular Storage	48.300	47.664	0.150	20.656	1.5	1.02	20.1	Surcharged
S1.000	FSR: 100 years: +45 %: 60 mins: Summer	Pipe	Swale	Pond	50.250	49.559	0.150	199.558	2.2	3.33	39.1	Surcharged
S2.000	FSR: 100 years: +45 %: 60 mins: Summer	Pipe	Swale 2	Pond	50.250	49.422	0.150	67.837	1.7	2.05	26.1	Surcharged
S1.003	FSR: 100 years: +45 %: 60 mins: Summer	Pipe	Swale 3	HW01	49.700	48.522	0.020	11.237	2.5	0.08	2.7	OK

Project: Balance Power Sandy Brow Lane Liverpool	Date: 13/06/2025	Designed by: Jonathan Beale		Checked by: Sam Cox	Approved By: Sam Cox	
Report Details: Type: Connections Summary Storm Phase: Phase	Company Address: Ridge and Partners LLP The Cowyards, Blenheim Park Oxford Road, Woodstock, OX20 1QR					



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S1.001	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	Pond	FC01	50.200	49.362	0.150	12.368	0.7	0.24	4.2	Surcharged
S1.002	FEH: 2 years: +0 %: 120 mins: Summer	Pipe	FC01	Swale 3	50.200	49.401	0.029	25.985	1.1	0.11	2.5	Surcharged
S9.001	FEH: 2 years: +0 %: 15 mins: Summer	Pipe	Ditch 2	FP01	48.500	48.024	0.150	2.961	0.8	0.09	6.0	OK
S9.000	FEH: 2 years: +0 %: 15 mins: Summer	Pipe	Ditch 1	FP01	48.500	47.793	0.100	8.792	2.0	0.5	15.5	OK
S9.002	FEH: 2 years: +0 %: 15 mins: Summer	Pipe	Ditch 3	S01	48.500	48.034	0.055	4.627	1.7	0.35	7.6	OK
RM01	FEH: 2 years: +0 %: 15 mins: Summer	Pipe	FP01	Swale 2	48.350	46.501	0.010	7.214	0.0	0.85	5.0	Surcharged
Pipe	FEH: 2 years: +0 %: 30 mins: Summer	Pipe	Cellular Storage	FP01	48.350	46.446	0.196	0.498	0.2	0.12	4.6	OK
S9.003	FEH: 2 years: +0 %: 30 mins: Summer	Pipe	S01	Cellular Storage	48.300	47.313	0.091	6.251	1.4	0.36	7.2	OK
S1.000	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	Swale	Pond	50.250	49.328	0.150	84.087	1.4	1.9	22.3	OK
S2.000	FEH: 2 years: +0 %: 15 mins: Summer	Pipe	Swale 2	Pond	50.250	49.312	0.076	11.246	1.8	1.13	14.4	OK
S1.003	FEH: 2 years: +0 %: 120 mins: Winter	Pipe	Swale 3	HW01	49.700	48.522	0.019	24.208	2.5	0.08	2.6	OK

Project: Balance Power Sandy Brow Lane Liverpool	Date: 13/06/2025			
Report Details: Type: Connections Summary Storm Phase: Phase	Designed by: Jonathan Beale	Checked by: Sam Cox	Approved By: Sam Cox	
	Company Address: Ridge and Partners LLP The Cowyards, Blenheim Park Oxford Road, Woodstock, OX20 1QR			



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S1.001	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	Pond	FC01	50.200	49.458	0.150	14.130	0.5	0.19	3.3	Surcharged
S1.002	FEH: 30 years: +0 %: 240 mins: Winter	Pipe	FC01	Swale 3	50.200	49.589	0.029	58.907	1.0	0.11	2.5	Surcharged
S9.001	FEH: 30 years: +0 %: 15 mins: Summer	Pipe	Ditch 2	FP01	48.500	48.036	0.150	6.004	0.7	0.19	12.6	OK
S9.000	FEH: 30 years: +0 %: 30 mins: Summer	Pipe	Ditch 1	FP01	48.500	47.810	0.100	23.839	3.4	0.86	26.7	OK
S9.002	FEH: 30 years: +0 %: 15 mins: Summer	Pipe	Ditch 3	S01	48.500	48.054	0.088	9.467	2.2	0.75	16.4	OK
RM01	FEH: 30 years: +0 %: 15 mins: Summer	Pipe	FP01	Swale 2	48.350	46.606	0.012	7.651	0.0	0.85	5.0	Surcharged
Pipe	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	Cellular Storage	FP01	48.350	46.740	0.225	0.004	0.1	0.12	4.8	Surcharged
S9.003	FEH: 30 years: +0 %: 15 mins: Summer	Pipe	S01	Cellular Storage	48.300	47.357	0.150	9.239	1.4	0.75	14.9	OK
S1.000	FEH: 30 years: +0 %: 60 mins: Summer	Pipe	Swale	Pond	50.250	49.402	0.150	138.095	1.6	2.45	28.7	Surcharged
S2.000	FEH: 30 years: +0 %: 15 mins: Summer	Pipe	Swale 2	Pond	50.250	49.340	0.122	17.773	1.8	1.75	22.3	OK
S1.003	FEH: 30 years: +0 %: 60 mins: Winter	Pipe	Swale 3	HW01	49.700	48.522	0.020	10.295	2.5	0.08	2.7	OK

Project: Balance Power Sandy Brow Lane Liverpool	Date: 13/06/2025			
Report Details: Type: Connections Summary Storm Phase: Phase	Designed by: Jonathan Beale	Checked by: Sam Cox	Approved By: Sam Cox	
	Company Address: Ridge and Partners LLP The Cowyards, Blenheim Park Oxford Road, Woodstock, OX20 1QR			



FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S1.001	FEH: 100 years: +45 %: 30 mins: Winter	Pipe	Pond	FC01	50.200	49.390	0.150	6.709	0.7	0.33	5.8	Surcharged
S1.002	FEH: 100 years: +45 %: 30 mins: Summer	Pipe	FC01	Swale 3	50.200	49.387	0.030	5.207	1.3	0.11	2.5	Surcharged
S9.001	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Ditch 2	FP01	48.500	48.051	0.150	10.892	1.3	0.35	23.0	OK
S9.000	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Ditch 1	FP01	48.500	47.913	0.100	32.670	3.8	0.96	29.9	Flood Risk
S9.002	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	Ditch 3	S01	48.500	48.096	0.100	17.284	2.6	0.92	20.3	Flood Risk
RM01	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	FP01	Swale 2	48.350	46.912	0.013	7.955	0.0	0.85	5.0	Surcharged
Pipe	FEH: 100 years: +45 %: 30 mins: Winter	Pipe	Cellular Storage	FP01	48.350	47.095	0.225	0.000	0.1	0.12	4.9	Surcharged
S9.003	FEH: 100 years: +45 %: 15 mins: Winter	Pipe	S01	Cellular Storage	48.300	47.560	0.150	16.985	1.5	1.04	20.5	Surcharged
S1.000	FEH: 100 years: +45 %: 60 mins: Summer	Pipe	Swale	Pond	50.250	49.514	0.150	185.435	2.1	3.13	36.7	Surcharged
S2.000	FEH: 100 years: +45 %: 30 mins: Summer	Pipe	Swale 2	Pond	50.250	49.401	0.150	42.607	1.8	1.91	24.3	Surcharged
S1.003	FEH: 100 years: +45 %: 60 mins: Winter	Pipe	Swale 3	HW01	49.700	48.522	0.020	11.082	2.5	0.08	2.8	OK