

*MINIMUM COVER TO BOTTOM OF FLEXIBLE PAVEMENT FOR UNPAVED INSTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 24" (600 mm)

UNIT 6 ATTENUATION SIZING



User Inputs

Chamber Model:	MC-3500
Outlet Control Structure:	No
Project Name:	
Engineer:	N/A
Project Location:	
Measurement Type:	Metric
Required Storage Volume:	418.75 cubic meters.
Stone Porosity:	40%
Stone Foundation Depth:	229 mm.
Stone Above Chambers:	305 mm.
Average Cover Over Chambers:	457 mm.
Design Constraint Dimensions:	(17.00 m. x 39.00 m.)

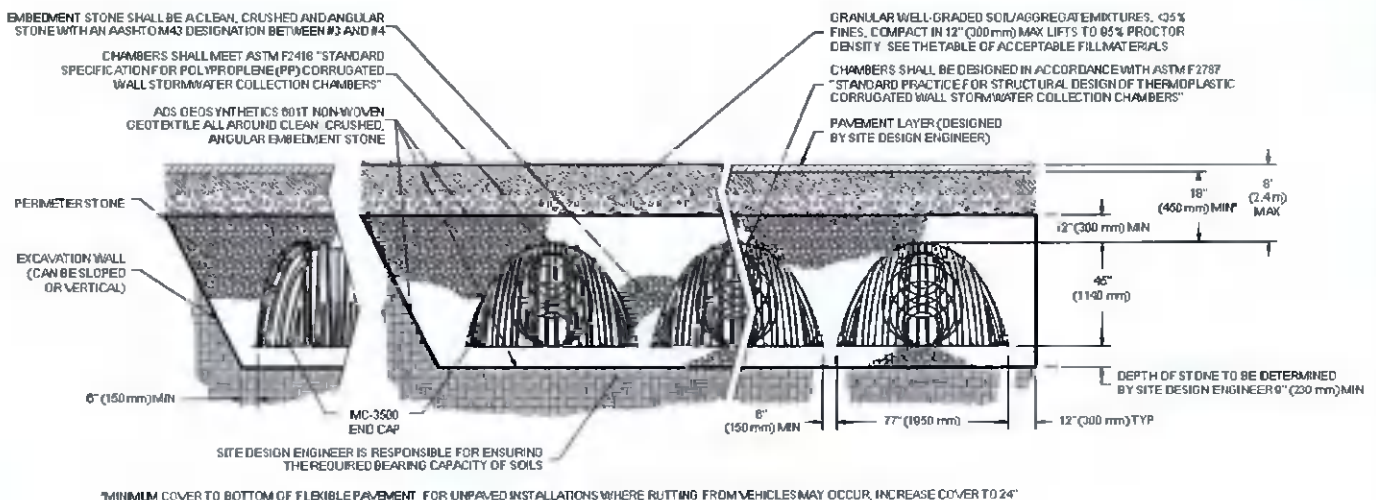
Results

System Volume and Bed Size

Installed Storage Volume:	431.88 cubic meters.
Storage Volume Per Chamber:	3.11 cubic meters.
Number of Chambers Required:	80
Number of End Caps Required:	10
Chamber Rows:	5
Maximum Length:	37.96 m.
Maximum Width:	11.00 m.
Approx. Bed Size Required:	417.52 square meters.

System Components

Amount Of Stone Required:	446.73 cubic meters
Volume of Excavation (Not Including Fill):	699.90 cubic meters
Total Non-woven Geotextile Required:	1434.03 square meters
Woven Geotextile Required (excluding Isolator Row):	66.92 square meters
Woven Geotextile Required (Isolator Row):	138.15 square meters
Total Woven Geotextile Required:	205.07 square meters





Appendix F: Treatment & Interceptions Requirement Calculations

Infiltration Volume

PROJECT Development at Ballymount Ave		JOB REF. 210175
SUBJECT Surface Water Calculations - Infiltration Volume CAFE		Calc. Sheet No. 3
Drawing ref. 210175	Calculations by RTM	Checked by SVC
		Date 24-Feb-22



SURFACE WATER CALCULATIONS

Site Area

Total Site Area =	0.24	Hectares (ha)
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Interception Volume (Post-Development)

Impermeable Area =	0.12	Hectares (ha)
Rainfall Depth =	5	mm
Interception Volume =	4.8	m ³

Notes

1 Interception Volume (m³) = Impermeable Area (ha) x 5mm x 10 (GDSOS Section 6.3.1.2.1). For sites where a pond is applicable.

80% runoff from impermeable areas assumed

Infiltration Volume

PROJECT Development at Ballymount Ave	JOB REF. 210175		
SUBJECT Surface Water Calculations - Infiltration Volume - Roads	Calc. Sheet No. 3		
Drawing ref. 180189-3000	Calculations by RTM	Checked by SVC	Date 24-Feb-22



SURFACE WATER CALCULATIONS

Site Area

Total Site Area =	0.81	Hectares (ha)
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Interception Volume (Post-Development)

Impermeable Area =	0.75	Hectares (ha)
Rainfall Depth =	5	mm
Interception Volume =	30.1	m ³

Notes

1 Interception Volume (m³) = Impermeable Area (ha) x 5mm x 10 (GSDSD Section 6.3.1.2.1). For sites where a pond is applicable.

60% runoff from impermeable areas assumed

Infiltration Volume

PROJECT Development at Ballymount Ave		JOB REF. 210175
SUBJECT Surface Water Calculations - Infiltration Volume unit 1		Calc. Sheet No. 3
Drawing ref. 210175-info1	Calculations by RTM	Checked by SVC
		Date 29-Sep-21



SURFACE WATER CALCULATIONS

Site Area

Total Site Area =	0.75	Hectares (ha)
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Interception Volume (Post-Development)

Impermeable Area =	0.65	Hectares (ha)
Rainfall Depth =	5	mm
Interception Volume =	26.0	m ³

Notes

1 Interception Volume (m³) = Impermeable Area (ha) x 5mm x 10 (GDSOS Section 6.3.1.2.1) For sites where a pond is applicable.

80% runoff from Impermeable areas assumed

Infiltration Volume

PROJECT Development at Ballyfermot	JOB REF. 210175		
SUBJECT Surface Water Calculations - Infiltration Volume UNIT 2	Calc. Sheet No. 3		
Drawing ref. 210175-INFO1	Calculations by RTM	Checked by SVC	Date 29-Sep-21



SURFACE WATER CALCULATIONS

Site Area

Total Site Area =	1.59	Hectares (ha)
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Interception Volume (Post-Development)

Impermeable Area =	1.36	Hectares (ha)
Rainfall Depth =	5	mm
Interception Volume =	54.2	m ³

Notes

1. Interception Volume (m³) = Impermeable Area (ha) x 5mm x 10 (GDSOS Section 6.3.1.2.1) For sites where a pond is applicable.

80% runoff from impermeable areas assumed

Infiltration Volume

PROJECT Development at Ballymount Ave	JOB REF. 210175		
SUBJECT Surface Water Calculations - Infiltration Volume UNIT 3	Calc. Sheet No. 3		
Drawing ref. 210175	Calculations by RTM	Checked by SVC	Date 29-Sep-21



SURFACE WATER CALCULATIONS

Site Area

Total Site Area =	0.84	Hectares (ha)
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Interception Volume (Post-Development)

Impermeable Area =	0.57	Hectares (ha)
Rainfall Depth =	5	mm
Interception Volume =	22.6	m ³

Notes

1. Interception Volume (m³) = Impermeable Area (ha) x 5mm x 10 (GDSDS Section 6.3.1.2.1) For sites where a pond is applicable.

80% runoff from impermeable areas assumed

Infiltration Volume

PROJECT Development at Ballymount Ave	JOB REF. 210175		
SUBJECT Surface Water Calculations - Infiltration Volume UNIT 4	Calc. Sheet No. 3		
Drawing ref. 210175 - INFO1	Calculations by RTM	Checked by SVC	Date 24-Feb-22



SURFACE WATER CALCULATIONS

Site Area

Total Site Area =	1.14	Hectares (ha)
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Interception Volume (Post-Development)

Impermeable Area =	0.80	Hectares (ha)
Rainfall Depth =	5	mm
Interception Volume =	31.9	m ³

Notes

- 1 Interception Volume (m³) = Impermeable Area (ha) x 5mm x 10 (GDSOS Section 6.3.1.2.1). For sites where a pond is applicable.
60% runoff from impermeable areas assumed

Infiltration Volume

PROJECT Development at Ballymount Ave		JOB REF. 210175	
SUBJECT Surface Water Calculations - Infiltration Volume UNIT 5		Calc. Sheet No. 3	
Drawing ref. 210175 - INFO1	Calculations by RTM	Checked by SVC	Date 24-Feb-22



SURFACE WATER CALCULATIONS

Site Area

Total Site Area =	0.70	Hectares (ha)
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Interception Volume (Post-Development)

Impermeable Area =	0.37	Hectares (ha)
Rainfall Depth =	5	mm
Interception Volume =	14.6	m ³

Notes

1 Interception Volume (m³) = Impermeable Area (ha) x 5mm x 10 (GDSOS Section 6.3.1.2.1). For sites where a pond is applicable.

80% runoff from impermeable areas assumed

Infiltration Volume

PROJECT Development at Ballymount Ave	JOB REF. 210175		
SUBJECT Surface Water Calculations - Infiltration Volume UNIT 6	Calc. Sheet No. 3		
Drawing ref. 210175 - INFO1	Calculations by RTM	Checked by SVC	Date 24-Feb-22



SURFACE WATER CALCULATIONS

Site Area

Total Site Area =	1.01	Hectares (ha)
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Interception Volume (Post-Development)

Impermeable Area =	0.83	Hectares (ha)
Rainfall Depth =	5	mm
Interception Volume =	33.2	m ³

Notes

1 Interception Volume (m³) = Impermeable Area (ha) x 5mm x 10 (GSDS Section 6.3.1 2.1) For sites where a pond is applicable.

80% runoff from impermeable areas assumed.

Treatment Volume

PROJECT Development at Ballymount Ave		JOB REF. 210175
SUBJECT Surface Water Calculations - Treatment Volume - CAFE		Calc. Sheet No. 2
Drawing ref. 210175-INFO1	Calculations by RTM	Checked by SVC
		Date 24-Feb-22



SURFACE WATER CALCULATIONS

Site Area

Total Site Area =	0.24	Hectares (ha)
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Treatment Volume (Post-Development)

Impermeable Area =	0.12	Hectares (ha)
Rainfall Depth =	15	mm
Treatment Volume (Vt) =	14.5	m ³

Notes

1 Treatment Volume Vt (m³) = Impermeable Area (ha) x 15mm x 10 (GOSDS Section 6.3.1.2.1) For sites where a pond is applicable

80% runoff from impermeable areas assumed

Treatment Volume

PROJECT Development at Ballymount Ave	JOB REF. 210175		
SUBJECT Surface Water Calculations - Treatment Volume - roads	Calc. Sheet No. 2		
Drawing ref. 210175-info1	Calculations by RTM	Checked by SVC	Date 24-Feb-22



SURFACE WATER CALCULATIONS

Site Area

Total Site Area =	0.81	Hectares (ha)
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Treatment Volume (Post-Development)

Impermeable Area =	0.75	Hectares (ha)
Rainfall Depth =	15	mm
Treatment Volume (Vt) =	90.3	m ³

Notes

1. Treatment Volume Vt (m³) = Impermeable Area (ha) x 15mm x 10. (GDSOS Section 6.3.1.2.1). For sites where a pond is applicable.
80% runoff from impermeable areas assumed

Treatment Volume

PROJECT Development at Ballymount Ave		JOB REF. 210175	
SUBJECT Surface Water Calculations - Treatment Volume unit 1		Calc. Sheet No. 2	
Drawing ref 210175-info1	Calculations by RTM	Checked by SVC	Date 29-Sep-21



SURFACE WATER CALCULATIONS

Site Area

Total Site Area =	0.75	Hectares (ha)
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Treatment Volume (Post-Development)

Impermeable Area =	0.65	Hectares (ha)
Rainfall Depth =	15	mm
Treatment Volume (Vt) =	77.9	m ³

Notes

1 Treatment Volume Vt (m³) = Impermeable Area (ha) x 15mm x 10 (GSDS Section 6.3.1.2.1). For sites where a pond is applicable.

80% runoff from impermeable areas assumed

Treatment Volume

PROJECT Development at Ballymount Ave	JOB REF. 210175		
SUBJECT Surface Water Calculations - Treatment Volume UNIT 2	Calc. Sheet No. 2		
Drawing ref. 210175-INFO1	Calculations by RTM	Checked by SVC	Date 29-Sep-21



SURFACE WATER CALCULATIONS

Site Area

Total Site Area =	1.59	Hectares (ha)
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Treatment Volume (Post-Development)

Impermeable Area =	1.36	Hectares (ha)
Rainfall Depth =	15	mm
Treatment Volume (Vt) =	162.7	m ³

Notes

- 1 Treatment Volume Vt (m³) = Impermeable Area (ha) x 15mm x 10 (GSDS Section 6.3.1.2.1). For sites where a pond is applicable.
80% runoff from impermeable areas assumed

Treatment Volume

PROJECT Development at Ballymount Ave		JOB REF. 210175
SUBJECT Surface Water Calculations - Treatment Volume UNIT 3		Calc. Sheet No. 2
Drawing ref. 210175 INFO1	Calculations by RTM	Checked by SVC
		Date 29-Sep-21



SURFACE WATER CALCULATIONS

Site Area

Total Site Area =	0.84	Hectares (ha)
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Treatment Volume (Post-Development)

Impermeable Area =	0.57	Hectares (ha)
Rainfall Depth =	15	mm
Treatment Volume (Vt) =	67.9	m ³

Notes

- 1 Treatment Volume Vt (m³) = Impermeable Area (ha) x 15mm x 10 (GSDS Section 6.3.1.2.1). For sites where a pond is applicable.
80% runoff from impermeable areas assumed

Treatment Volume

PROJECT Development at Ballymount Ave	JOB REF. 210175		
SUBJECT Surface Water Calculations - Treatment Volume UNIT 4	Calc. Sheet No. 2		
Drawing ref. 210175 - INFO 1	Calculations by RTM	Checked by SVC	Date 24-Feb-22



SURFACE WATER CALCULATIONS

Site Area

Total Site Area =	1.14	Hectares (ha)
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Treatment Volume (Post-Development)

Impermeable Area =	0.80	Hectares (ha)
Rainfall Depth =	15	mm
Treatment Volume (Vt) =	95.7	m ³

Notes
1 Treatment Volume Vt (m³) = Impermeable Area (ha) x 15mm x 10 (GDSOS Section 6.3 1.2 1). For sites where a pond is applicable, 80% runoff from impermeable areas assumed

Treatment Volume

PROJECT Development at Ballymount Ave	JOB REF. 210175		
SUBJECT Surface Water Calculations - Treatment Volume UNIT 5	Calc. Sheet No. 2		
Drawing ref. 210175-INFO1	Calculations by RTM	Checked by SVC	Date 24-Feb-22



SURFACE WATER CALCULATIONS

Site Area

Total Site Area =	0.70	Hectares (ha)
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Treatment Volume (Post-Development)

Impermeable Area =	0.37	Hectares (ha)
Rainfall Depth =	15	mm
Treatment Volume (Vt) =	43.8	m ³

Notes

1 Treatment Volume Vt (m³) = Impermeable Area (ha) x 15mm x 10 (GDSDS Section 6.3.1.2.1). For sites where a pond is applicable

80% runoff from impermeable areas assumed

Treatment Volume

PROJECT Development at Ballymount Ave	JOB REF. 210175		
SUBJECT Surface Water Calculations - Treatment Volume UNIT 6	Calc. Sheet No. 2		
Drawing ref. 210175 - INFO1	Calculations by RTM	Checked by SVC	Date 24-Feb-22



SURFACE WATER CALCULATIONS

Site Area

Total Site Area =	1.01	Hectares (ha)
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Treatment Volume (Post-Development)

Impermeable Area =	0.83	Hectares (ha)
Rainfall Depth =	15	mm
Treatment Volume (Vt) =	99.5	m ³

Notes

1 Treatment Volume Vt (m³) = Impermeable Area (ha) x 15mm x 10 (GDSDS Section 6.3.1.2.1) For sites where a pond is applicable.

80% runoff from impermeable areas assumed



Appendix G: Watermain Calculation

TITLE
Proposed Logistics Development at Calmount Roac 210175

Job Reference
210175

SUBJECT
Water Demand - Irish Water-Post Development
(Unit 1 office)

Calc. Sheet No.
1

DRAWING NUMBER
210175-fw

Calculations by
ssj

Checked by
rtm

Date
28.03.22



DEMAND

Day Staff people 10.3 m²/employee

Daily Demand per person¹ litres/person/day Irish Water COP

Average Daily Demand l/day

Average Day in Peak Week² l/day

Normal Length of Day³ hours

Peak Factor⁴


Post Development Peak Water Demand⁵ l/s

Post Development Average Water Demand l/s

Normal Demand⁶ l/s

Notes:

1. Daily Demand per person is 45 litres/person/day for Staff taken from Irish Water "Code of Practice for Wastewater Infrastructure" in an office..
2. Average Day in Peak Week is 1.25 times the average daily demand.
3. Assumed normal demand is the total daily demand during the normal length of day.
4. Peak Factor 5 from Irish water code of practice for water infrastructure.
5. Peak Factor multiplied by Average Day in Peak Week flow
6. Normal demand is the total daily demand during the normal length of day.
7. Fire flow is required at 25l/s as per B.S 5306-1-1976.
8. Occupancy rate taken from Savills Market Research (<https://pdf.euro.savills.co.uk/ireland-research/offices-mim-q1-2019-web.pdf>)

TITLE Proposed Logistics Development at Calmount Roac		Job Reference 210175		
SUBJECT Water Demand - Irish Water-Post Development (Unit 2 office)		Calc. Sheet No. 1		
DRAWING NUMBER 210175-fw	Calculations by ssj	Checked by rtm	Date 28.03.22	

DEMAND

Day Staff	19	people	10.3 m2/employee
Daily Demand per person ¹	45	litres/person/day	Irish Water COP
Average Daily Demand	855	l/day	
Average Day in Peak Week ²	1,069	l/day	
Normal Length of Day ³	12	hours	
Peak Factor ⁴	5.0		

Post Development Peak Water Demand ⁵	0.062	l/s
Post Development Average Water Demand	0.010	l/s
Normal Demand ⁶	0.020	l/s

Notes:

1. Daily Demand per person is 45 litres/person/day for Staff taken from Irish Water "Code of Practice for Wasterwater Infrastructure" in an office..
2. Average Day in Peak Week is 1.25 times the average daily demand.
3. Assumed normal demand is the total daily demand during the normal length of day.
4. Peak Factor 5 from irish water code of practice for water infrastructure.
5. Peak Factor multiplied by Average Day in Peak Week flow
6. Normal demand is the total daily demand during the normal length of day.
7. Fire flow is required at 25l/s as per B.S. 5306-1:1976.
8. Occupancy rate taken from Savills Market Research (<https://pdf.euro.savills.co.uk/ireland-research/offices-mim-q1-2019-web.pdf>)

TITLE Proposed Logistics Development at Calmount Roac Job Reference 210175

SUBJECT Water Demand - Irish Water-Post Development (Unit 3 office)

Calc. Sheet No. 1



DRAWING NUMBER 210175-fw Calculations by SSJ Checked by rtm Date 28.03.22

DEMAND

Day Staff people 10.3 m²/employee
Daily Demand per person¹ litres/person/day Irish Water COP
Average Daily Demand l/day
Average Day in Peak Week² l/day
Normal Length of Day³ hours
Peak Factor⁴

Post Development Peak Water Demand⁵ l/s
Post Development Average Water Demand l/s
Normal Demand⁶ l/s

Notes:

1. Daily Demand per person is 45 litres/person/day for Staff taken from Irish Water "Code of Practice for Wastewater Infrastructure" in an office..
2. Average Day in Peak Week is 1.25 times the average daily demand.
3. Assumed normal demand is the total daily demand during the normal length of day.
4. Peak Factor 5 from Irish water code of practice for water infrastructure.
5. Peak Factor multiplied by Average Day in Peak Week flow
6. Normal demand is the total daily demand during the normal length of day.
7. Fire flow is required at 25l/s as per B.S. 5306-1:1976.
8. Occupancy rate taken from Savills Market Research (<https://pdf.euro.savills.co.uk/ireland-research/offices-mim-q1-2019-web.pdf>)

TITLE
Proposed Logistics Development at Calmount Roac

Job Reference
210175

SUBJECT
Water Demand - Irish Water-Post Development
(Unit 4 office)

Calc. Sheet No.
1



DRAWING NUMBER
210175-fw

Calculations by
ssj

Checked by
rtm

Date
28.03.22

DEMAND

Day Staff people 10.3 m²/employee
Daily Demand per person¹ litres/person/day Irish Water COP

Average Daily Demand l/day

Average Day in Peak Week² l/day

Normal Length of Day³ hours

Peak Factor⁴

Post Development Peak Water Demand⁵ l/s

Post Development Average Water Demand l/s

Normal Demand⁶ l/s

Notes:

1. Daily Demand per person is 45 litres/person/day for Staff taken from Irish Water "Code of Practice for Wasterwater Infrastructure" in an office..
2. Average Day in Peak Week is 1.25 times the average daily demand.
3. Assumed normal demand is the total daily demand during the normal length of day.
4. Peak Factor 5 from irish water code of practice for water infrastructure.
5. Peak Factor multiplied by Average Day in Peak Week flow
6. Normal demand is the total daily demand during the normal length of day.
7. Fire flow is required at 25l/s as per B.S. 5306- 1:1976.
8. Occupancy rate taken from Savills Market Research (<https://pdf.euro.savills.co.uk/ireland-research/offices-mirm-q1-2019-web.pdf>)

TITLE
Proposed Logistics Development at Calmount Roac

Job Reference
210175

SUBJECT
Water Demand - Irish Water-Post Development
(Unit 5a office)

Calc. Sheet No.
1



DRAWING NUMBER
210175-fw

Calculations by
ssj

Checked by
rtm

Date
28.03.22

DEMAND

Day Staff people 10.3 m²/employee
Daily Demand per person¹ litres/person/day Irish Water COP

Average Daily Demand l/day

Average Day in Peak Week² l/day

Normal Length of Day³ hours

Peak Factor⁴

Post Development Peak Water Demand⁵ l/s

Post Development Average Water Demand l/s

Normal Demand⁶ l/s

Notes:

1. Daily Demand per person is 45 litres/person/day for Staff taken from Irish Water "Code of Practice for Wasterwater Infrastructure" in an office..
2. Average Day in Peak Week is 1.25 times the average daily demand.
3. Assumed normal demand is the total daily demand during the normal length of day.
4. Peak Factor 5 from irish water code of practice for water infrastructure.
5. Peak Factor multiplied by Average Day in Peak Week flow
6. Normal demand is the total daily demand during the normal length of day.
7. Fire flow is required at 25l/s as per B.S. 5306-1:1976.
8. Occupancy rate taken from Savills Market Research (<https://pdf.euro.savills.co.uk/ireland-research/offices-mim-q1-2019-web.pdf>)

TITLE Proposed Logistics Development at Calmount Roac Job Reference 210175

SUBJECT Water Demand - Irish Water-Post Development
(Unit 5b office)

Calc. Sheet No.
1



DRAWING NUMBER
210175-fw

Calculations by
ssj

Checked by
rtm

Date
28.03.22

DEMAND

Day Staff	83	people	10.3 m ² /employee
Daily Demand per person ¹	45	litres/person/day	Irish Water COP
Average Daily Demand	3,735	l/day	
Average Day in Peak Week ²	4,669	l/day	
Normal Length of Day ³	12	hours	
Peak Factor ⁴	5.0		

Post Development Peak Water Demand ⁵	0.270	l/s
Post Development Average Water Demand	0.043	l/s
Normal Demand ⁶	0.086	l/s

Notes:

1. Daily Demand per person is 45 litres/person/day for Staff taken from Irish Water "Code of Practice for Wasterwater Infrastructure" in an office..
2. Average Day in Peak Week is 1.25 times the average daily demand.
3. Assumed normal demand is the total daily demand during the normal length of day.
4. Peak Factor 5 from irish water code of practice for water infrastructure.
5. Peak Factor multiplied by Average Day in Peak Week flow
6. Normal demand is the total daily demand during the normal length of day.
7. Fire flow is required at 25l/s as per B.S. 5306-1:1976.
8. Occupancy rate taken from Savills Market Research (<https://pdf.euro.savills.co.uk/ireland-research/offices-mim-q1-2019-web.pdf>)

TITLE Proposed Logistics Development at Calmount Roac Job Reference 210175

SUBJECT Water Demand - Irish Water-Post Development (Unit 5c office)

Calc. Sheet No. 1



DRAWING NUMBER 210175-fw

Calculations by ssj

Checked by rtm

Date 28.03.22

DEMAND

Day Staff people 10.3 m²/employee

Daily Demand per person¹ litres/person/day Irish Water COP

Average Daily Demand l/day

Average Day in Peak Week² l/day

Normal Length of Day³ hours

Peak Factor⁴


Post Development Peak Water Demand⁵ l/s

Post Development Average Water Demand l/s

Normal Demand⁶ l/s

Notes:

1. Daily Demand per person is 45 litres/person/day for Staff taken from Irish Water "Code of Practice for Wasterwater Infrastructure" in an office..
2. Average Day in Peak Week is 1.25 times the average daily demand.
3. Assumed normal demand is the total daily demand during the normal length of day.
4. Peak Factor 5 from irish water code of practice for water infrastructure.
5. Peak Factor multiplied by Average Day in Peak Week flow
6. Normal demand is the total daily demand during the normal length of day.
7. Fire flow is required at 25l/s as per B.S. 5306-1:1976.
8. Occupancy rate taken from Savills Market Research (<https://pdf.euro.savills.co.uk/ireland-research/offices-mim-q1-2019-web.pdf>)

TITLE Proposed Logistics Development at Calmount Roac		Job Reference 210175		
SUBJECT Water Demand - Irish Water-Post Development (Unit 6 office)		Calc. Sheet No. 1		
DRAWING NUMBER 210175-fw	Calculations by ssj	Checked by rtm	Date 28.03.22	

DEMAND

Day Staff	92	people	10.3 m2/employee
Daily Demand per person ¹	45	litres/person/day	Irish Water COP
Average Daily Demand	4,140	l/day	
Average Day in Peak Week ²	5,175	l/day	
Normal Length of Day ³	12	hours	
Peak Factor ⁴	5.0		

Post Development Peak Water Demand ⁵	0.299	l/s
Post Development Average Water Demand	0.048	l/s
Normal Demand ⁶	0.096	l/s

Notes:

1. Daily Demand per person is 45 litres/person/day for Staff taken from Irish Water "Code of Practice for Wasterwater Infrastructure" in an office..
2. Average Day in Peak Week is 1.25 times the average daily demand
3. Assumed normal demand is the total daily demand during the normal length of day.
4. Peak Factor 5 from irish water code of practice for water infrastructure.
5. Peak Factor multiplied by Average Day in Peak Week flow
6. Normal demand is the total daily demand during the normal length of day.
7. Fire flow is required at 25l/s as per B.S. 5306-1:1976.
8. Occupancy rate taken from Savills Market Research (<https://pdf.euro.savills.co.uk/ireland-research/offices-mim-q1-2019-web.pdf>)

TITLE
Proposed Logistics Development at Calmount Roac

Job Reference
210175

SUBJECT
Water Demand - Irish Water-Post Development
(Unit 7 office)

Calc. Sheet No.
1

DRAWING NUMBER
210175-fw

Calculations by
ssj

Checked by
rtm

Date
28.03.22



DEMAND

Day Staff people 10.3 m2/employee

Daily Demand per person¹ litres/person/day Irish Water COP

Average Daily Demand l/day

Average Day in Peak Week² l/day

Normal Length of Day³ hours

Peak Factor⁴

Post Development Peak Water Demand⁵ l/s

Post Development Average Water Demand l/s

Normal Demand⁶ l/s

Notes:

1. Daily Demand per person is 45 litres/person/day for Staff taken from Irish Water "Code of Practice for Wasterwater Infrastructure" in an office..
2. Average Day in Peak Week is 1.25 times the average daily demand.
3. Assumed normal demand is the total daily demand during the normal length of day.
4. Peak Factor 5 from irish water code of practice for water infrastructure.
5. Peak Factor multiplied by Average Day in Peak Week flow
6. Normal demand is the total daily demand during the normal length of day
7. Fire flow is required at 25l/s as per B.S. 5306-1:1976
8. Occupancy rate taken from Savills Market Research (<https://pdf.euro.savills.co.uk/ireland-research/offices-mim-q1-2019-web.pdf>)



Irish Water Pre Connection Enquiry Ref Number: CDS22002397

Dear Customer,

Thank you for submitting your Pre-connection Enquiry Form for Ballymount Avenue, Ballymount Industrial Estate, Dublin 12, Dublin . Your Irish Water reference number for your application is CDS22002397, which you can keep for your records.

Next steps in your enquiry:

Assessment of Enquiry: Your enquiry is currently being assessed to confirm it is technically feasible; we will be in touch once this assessment has been completed. A significant level of analysis is required before we can provide a response. Two of a number of considerations are:

- A review of the available capacity in Irish Water infrastructure versus your requirements.
- The location for connection versus the distance to/from our network.

Where your requirements are of a significant nature for example, multiple properties or commercial/industrial developments, this work may take a period of time to complete.



Appendix H : Initial Site Investigation Report

210175 - Site at Calmount Rd, Ballymount - Trial Pits

Prepared by Darren Goodman
Nov 15, 2021

Description

210175 - Site at Calmount Rd, Ballymount, Dublin
Trial Pits
11/11/2021

Contents

#1 Trial Pit	3
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#18 Trial Pit	34

210175 - Site at Calmount Rd, Ballymount
Calmount Road, Dublin, County Dublin

#19 Trial Pit 35

#1 Trial Pit

Status
Closed

Start Date
Nov 11, 2021

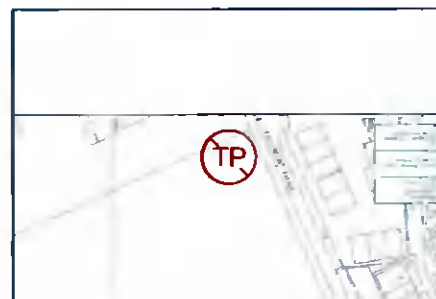
Sheet
Site at Calmount Rd.,
Ballymount.

Type
Planned Work

Due At
Nov 11, 2021

Location
TP4

Created
Nov 11, 2021 9:12 AM
darren.goodman@dbfl.ie



Description
TP4- 0.2m topsoil, 0.2-0.6m sandy silty clay then 0.6-1.5m, brown sandy gravelly clay with boulders difficult to dig with excavator. 1.5m -2m gravelly clay with majority layered rock, difficult to excavate, breaks into thin strips. Rock black with white staining, breaks when struck on other rocks.

Last Updated
Nov 15, 2021 4:34 PM

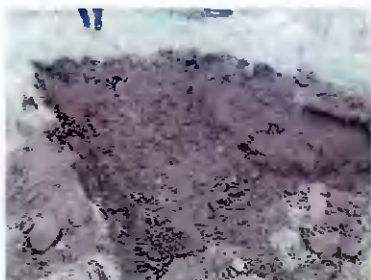
Closed At
Nov 11, 2021

TP1 monitored 4hrs and no water ingress.

Photos



20211111_092130_photo
Darren Goodman
Nov 11, 2021 9:21 AM



20211111_092149_photo
Darren Goodman
Nov 11, 2021 9:21 AM



20211111_092431_photo
Darren Goodman
Nov 11, 2021 9:24 AM

210175 - Site at Calmount Rd, Ballymount

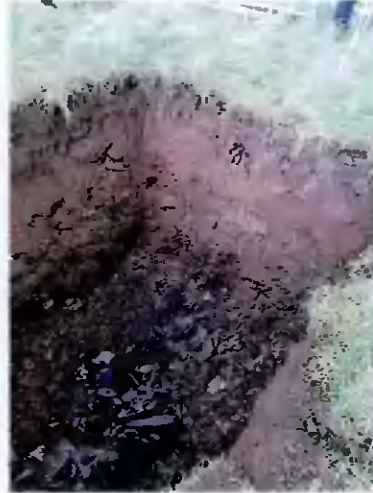
Calmount Road, Dublin, County Dublin



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Darren Goodman
Nov 11, 2021 9:29 AM



20211111_092929_photo
Darren Goodman
Nov 11, 2021 9:29 AM



20211111_093143_photo
Darren Goodman
Nov 11, 2021 9:31 AM



20211111_093237_photo
Darren Goodman
Nov 11, 2021 9:32 AM



20211111_094255_photo
Darren Goodman
Nov 11, 2021 9:42 AM

210175 - Site at Calmount Rd, Ballymount

Calmount Road, Dublin, County Dublin

#2 Trial Pit

Status

Closed

Start Date

Nov 11, 2021

Sheet

Site at Calmount Rd.,
Ballymount.

Type

Planned Work

Due At

Nov 11, 2021

Location

TP11

Created

Nov 11, 2021 9:46 AM
darren.goodman@dbfl.ie



Description

TP11 - 0-0.25m black topsoil,
0.25-0.6m sandy silty clay.
0.6-1.0m, brown sandy
gravelly clay with boulders.
1.0m -1.4m gravelly clay with
weathered rock, difficult to
excavate. At 1.4m end as
breaking out rock.

Last Updated

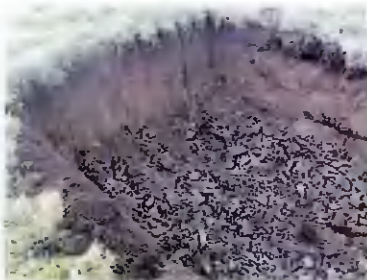
Nov 15, 2021 4:37 PM

Closed At

Nov 11, 2021

TP11 monitored 4hrs and no
water ingress.

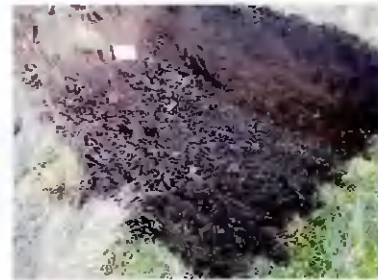
Photos



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Darren Goodman
Nov 11, 2021 9:54 AM



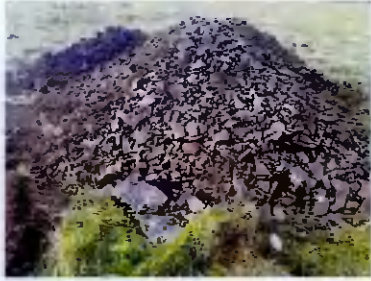
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Nov 11, 2021 9:55 AM



20211111_095535_photo
Darren Goodman
Nov 11, 2021 9:55 AM

210175 - Site at Calmount Rd, Ballymount

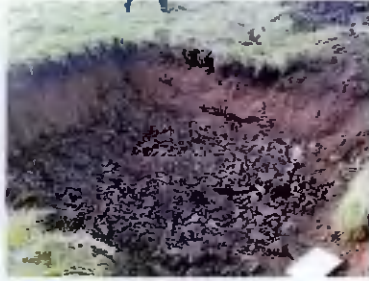
Calmount Road, Dublin, County Dublin



20211111_095557_photo

Darren Goodman

Nov 11, 2021 9:55 AM



20211111_100350_photo

Darren Goodman

Nov 11, 2021 10:03 AM

#3 Trial Pit

Status
Closed

Start Date
Nov 11, 2021

Sheet
Site at Calmount Rd.,
Ballymount.

Type
Planned Work

Due At
Nov 11, 2021

Location
TP9

Created
Nov 11, 2021 10:04 AM
darren.goodman@dbfi.ie



Description
TP9 - 2.5W x 2.5L - 0.3m
black topsoil, 0.3-0.8m
brown sandy gravelly clay,
0.8- 1.2m gravelly weathered
rock, difficult to excavate. 1.2
- 1.6m rock. End 1.6m as
breaking out rock.

Last Updated
Nov 15, 2021 4:42 PM

Closed At
Nov 11, 2021

TP9 monitored 4hrs and no
water ingress.

Photos



20211111_101406_photo
Darren Goodman
Nov 11, 2021 10:14 AM



20211111_101433_photo
Darren Goodman
Nov 11, 2021 10:14 AM



20211111_101446_photo
Darren Goodman
Nov 11, 2021 10:14 AM

210175 - Site at Calmount Rd, Ballymount

Calmount Road, Dublin, County Dublin



20211111_101547_photo
Darren Goodman
Nov 11, 2021 10:15 AM



20211111_102126_photo
Darren Goodman
Nov 11, 2021 10:21 AM

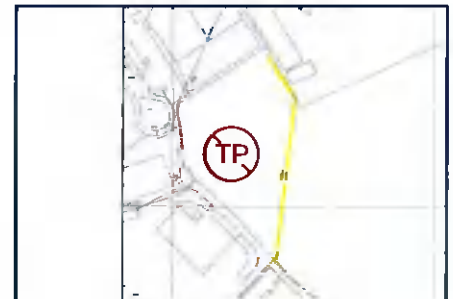


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Darren Goodman
Nov 11, 2021 10:28 AM

210175 - Site at Calmount Rd, Ballymount
Calmount Road, Dublin, County Dublin

#4 Trial Pit

Status	Start Date	Sheet
Closed	Nov 11, 2021	Site at Calmount Rd., Ballymount.
Type	Due At	
Planned Work	Nov 11, 2021	
Location	Created	
TP1	Nov 11, 2021 10:29 AM darren.goodman@dbfl.ie	
Description	Last Updated	
TP1 - 1.2W x 2.5L - 0.25m black topsoil, 0.25-0.6m brown sandy gravelly clay, 0.6- 0.9m gravelly clay with weathered rock, difficult to excavate. 0.9 rock. End 0.9m as breaking rock.	Nov 15, 2021 4:42 PM	
	Closed At	
	Nov 11, 2021	

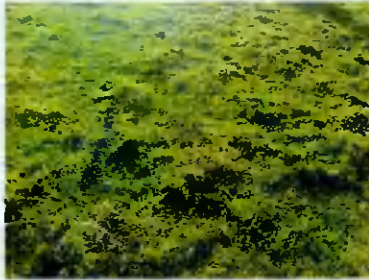


TP1 monitored 1hr and no
water ingress.

Photos

210175 - Site at Calmount Rd, Ballymount

Calmount Road, Dublin, County Dublin



20211111_103139_photo
Darren Goodman
Nov 11, 2021 10:31 AM



20211111_103434_video
Darren Goodman
Nov 11, 2021 10:34 AM
[Download video](#)



20211111_103649_photo
Darren Goodman
Nov 11, 2021 10:36 AM



20211111_103711_photo
Darren Goodman
Nov 11, 2021 10:37 AM



20211111_103844_photo
Darren Goodman
Nov 11, 2021 10:38 AM

#5 Trial Pit

Status
Closed

Start Date
Nov 11, 2021

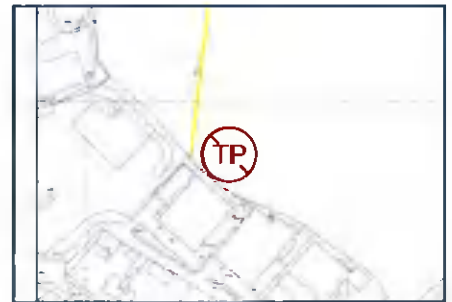
Sheet
Site at Calmount Rd.,
Ballymount.

Type
Planned Work

Due At
Nov 11, 2021

Location
TP5

Created
Nov 11, 2021 11:33 AM
darren.goodman@dbfi.ie



Description
TP5 - 1.2W x 2.5L - 0.25m topsoil, 0.25-0.5m brown sandy gravelly clay, 0.5-0.7m weathered rock breaks in thin shards, difficult to excavate. 0.7m rock. End 0.7m as breaking rock. No water.

Last Updated
Nov 11, 2021 12:32 PM

Closed At
Nov 11, 2021

Photos



20211111_113611_photo
Darren Goodman
Nov 11, 2021 11:36 AM



20211111_113704_photo
Darren Goodman
Nov 11, 2021 11:37 AM



20211111_113740_photo
Darren Goodman
Nov 11, 2021 11:37 AM

210175 - Site at Calmount Rd, Ballymount

Calmount Road, Dublin, County Dublin



20211111_113949_photo
Darren Goodman
Nov 11, 2021 11:39 AM



20211111_114002_photo
Darren Goodman
Nov 11, 2021 11:40 AM



20211111_114103_photo
Darren Goodman
Nov 11, 2021 11:41 AM

#6 Trial Pit

Status

Closed

Start Date

Nov 11, 2021

Sheet

Site at Calmount Rd.,
Ballymount.

Type

Planned Work

Due At

Nov 11, 2021

Location

TP6

Created

Nov 11, 2021 11:51 AM
darren.goodman@dbfl.ie



Description

TP6 - 1.2W x 2.5L - 0.25m topsoil, 0.25-0.5m stiff brown sandy gravelly clay, 0.5-0.9m weathered rock breaks in thin shards, difficult to excavate at inclined outcrop top of weathered rock ranges 0.5 -0.9m . 0.9-1.2m rock. End 1.2m as breaking rock. No water.

Last Updated

Nov 15, 2021 4:46 PM

Closed At

Nov 11, 2021

Photos

210175 - Site at Calmount Rd, Ballymount

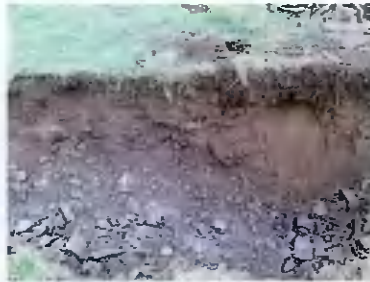
Calmount Road, Dublin, County Dublin



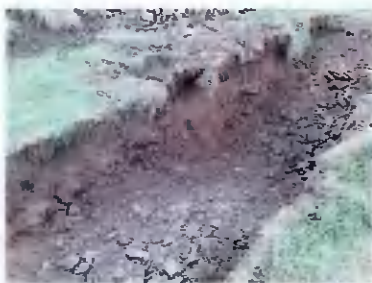
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Darren Goodman
Nov 11, 2021 11:55 AM



20211111_115726_video
Darren Goodman
Nov 11, 2021 11:57 AM
[Download video](#)



20211111_115951_photo
Darren Goodman
Nov 11, 2021 11:59 AM



20211111_120523_photo
Darren Goodman
Nov 11, 2021 12:05 PM



20211111_121039_photo
Darren Goodman
Nov 11, 2021 12:10 PM

#7 Trial Pit

Status
Closed

Start Date
Nov 11, 2021

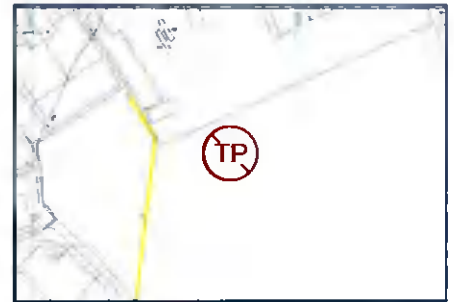
Sheet
Site at Calmount Rd.,
Ballymount.

Type
Planned Work

Due At
Nov 11, 2021

Location
TP2

Created
Nov 11, 2021 12:14 PM
darren.goodman@dbfl.ie



Description
TP2 - 1.2W x 2.5L - 0.2m grass and stone hardstand. 0.2-0.75m sandy gravelly fill material with pieces pottery, shell etc, 0.75-1.3 stiff brown gravelly clay with weathered rock, 1.3- 1.6m rock. 1.3m top of rock. End 1.6m as breaking rock. No water.

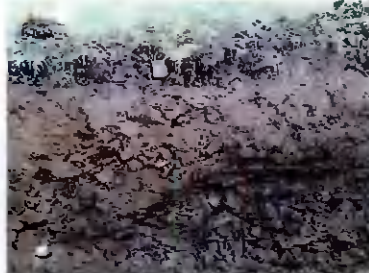
Last Updated
Nov 15, 2021 4:57 PM

Closed At
Nov 11, 2021

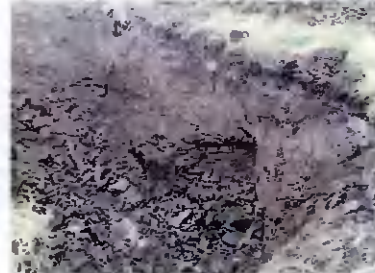
Photos



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Darren Goodman
Nov 11, 2021 12:22 PM



20211111_122242_photo
Darren Goodman
Nov 11, 2021 12:22 PM



20211111_122822_photo
Darren Goodman
Nov 11, 2021 12:28 PM

210175 - Site at Calmount Rd, Ballymount

Calmount Road, Dublin, County Dublin

#8 Trial Pit

Status
Closed

Start Date
Nov 11, 2021

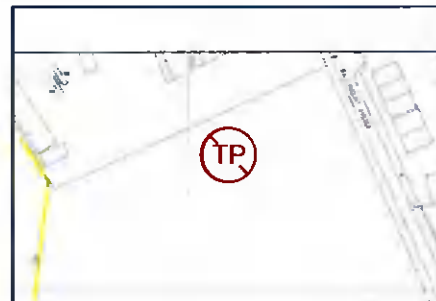
Sheet
Site at Calmount Rd.,
Ballymount.

Type
Planned Work

Due At
Nov 11, 2021

Location
TP3

Created
Nov 11, 2021 12:33 PM
darren.goodman@dbfl.ie



Description
TP3 - 1.2W x 3.0L - 0-1.0m grass and fill material with plastic etc material. 1.0m - 1.5m original topsoil, brown sandy gravelly clay under. 1.5m - 1.8m weathered rock with some gravelly clay. 1.8m top of rock. End 1.8m as breaking rock. No water.

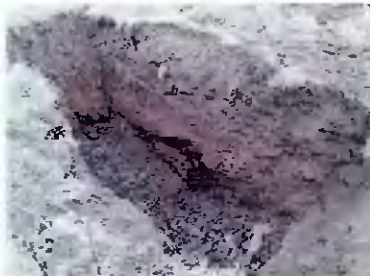
Last Updated
Nov 15, 2021 4:58 PM

Closed At
Nov 11, 2021

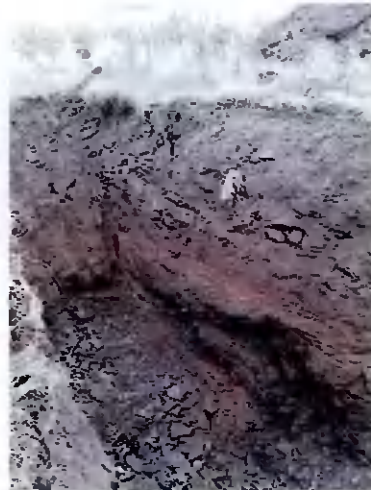
Photos



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Darren Goodman
Nov 11, 2021 12:46 PM



20211111_125146_photo
Darren Goodman
Nov 11, 2021 12:51 PM



20211111_125210_photo
Darren Goodman
Nov 11, 2021 12:52 PM

210175 - Site at Calmount Rd, Ballymount

Calmount Road, Dublin, County Dublin



20211111_125227_photo
Darren Goodman
Nov 11, 2021 12:52 PM



20211111_125516_photo
Darren Goodman
Nov 11, 2021 12:55 PM

210175 - Site at Calmount Rd, Ballymount

Calmount Road, Dublin, County Dublin

#9 Trial Pit

Status

Closed

Start Date

Nov 11, 2021

Sheet

Site at Calmount Rd.,
Ballymount.

Type

Planned Work

Due At

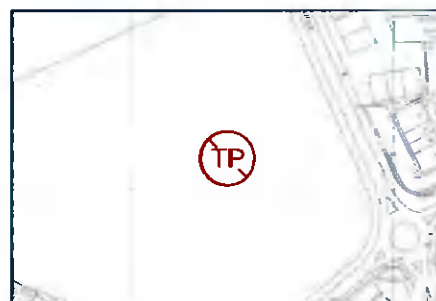
Nov 11, 2021

Location

TP7

Created

Nov 11, 2021 12:55 PM
darren.goodman@dbfl.ie

**Description**

TP7 - 1.2W x 2.5L - 0.3m topsoil. 0.3m - 0.6m brown sandy gravelly clay. 0.6m - 0.8m weathered rock with some gravelly clay. 0.9m top of rock. End 0.9m as breaking rock. No water.

Last Updated

Nov 11, 2021 1:16 PM

Closed At

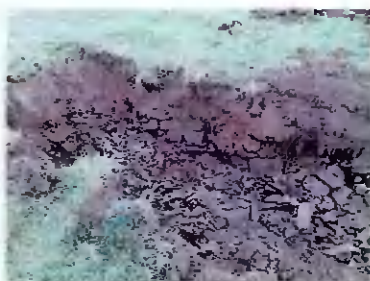
Nov 11, 2021

Photos

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Darren Goodman

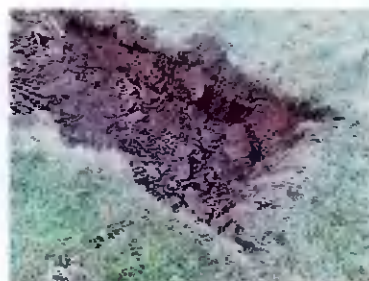
Nov 11, 2021 1:14 PM



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Darren Goodman

Nov 11, 2021 1:14 PM



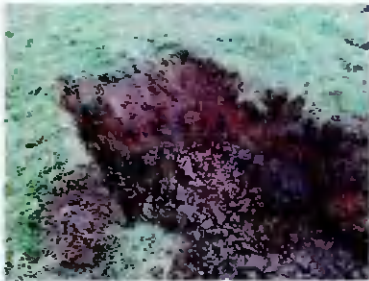
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Darren Goodman

Nov 11, 2021 1:14 PM

210175 - Site at Calmount Rd, Ballymount

Calmount Road, Dublin, County Dublin



20211111_131543_photo

Darren Goodman

Nov 11, 2021 1:15 PM

210175 - Site at Calmount Rd, Ballymount

Calmount Road, Dublin, County Dublin

#10 Trial Pit

Status

Closed

Start Date

Nov 11, 2021

Sheet

Site at Calmount Rd.,
Ballymount.

Type

Planned Work

Due At

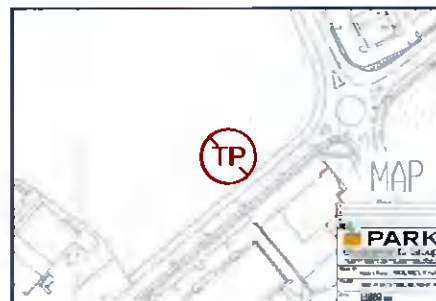
Nov 11, 2021

Location

TP10

Created

Nov 11, 2021 1:21 PM
darren.goodman@dbfi.ie



Description

TP10 - 1.2W x 2.5L - 0.25m topsoil. 0.25m - 0.7m brown sandy gravelly clay. 0.7m - 1.7m grey brown gravelly boulder clay difficult to excavate. 1.7- 2.0m rock. End 2.0m as breaking rock. No water.

Last Updated

Nov 15, 2021 5:02 PM

Closed At

Nov 11, 2021

Photos



20211111_132352_photo

Darren Goodman

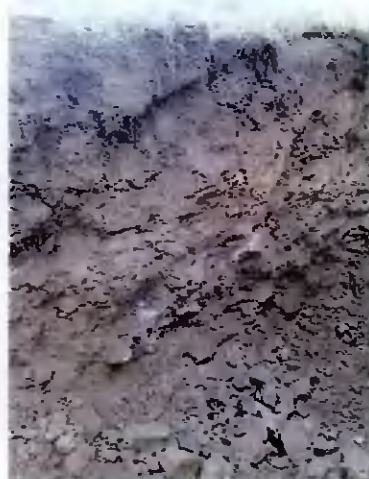
Nov 11, 2021 1:23 PM



20211111_133606_photo

Darren Goodman

Nov 11, 2021 1:36 PM



20211111_133642_photo

Darren Goodman

Nov 11, 2021 1:36 PM

210175 - Site at Calmount Rd, Ballymount

Calmount Road, Dublin, County Dublin



20211111_133802_photo

Darren Goodman

Nov 11, 2021 1:38 PM



20211111_133815_photo

Darren Goodman

Nov 11, 2021 1:38 PM

210175 - Site at Calmount Rd, Ballymount

Calmount Road, Dublin, County Dublin

#11 Trial Pit

Status

Closed

Start Date

Nov 11, 2021

Sheet

Site at Calmount Rd.,
Ballymount.

Type

Planned Work

Due At

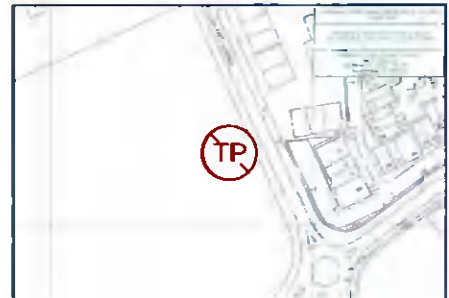
Nov 11, 2021

Location

TP8

Created

Nov 11, 2021 1:39 PM
darren.goodman@dbfl.ie



Description

TP8 - 1.2W x 2.5L - 0.3m topsoil. 0.3m - 0.8m brown sandy gravelly clay. 0.8m - 1.2m rock difficult to excavate. End 1.2m as breaking rock. No water.

Last Updated

Nov 11, 2021 1:53 PM

Closed At

Nov 11, 2021

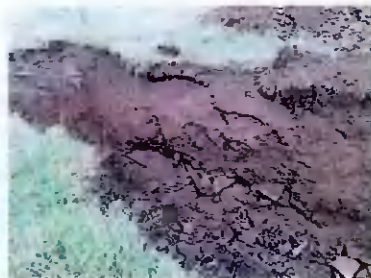
Photos



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Darren Goodman

Nov 11, 2021 1:44 PM



20211111_135107_photo

Darren Goodman

Nov 11, 2021 1:51 PM



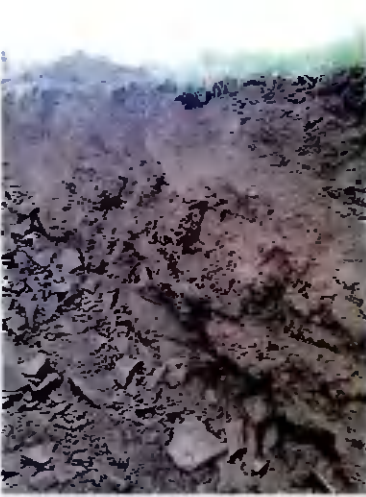
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Darren Goodman

Nov 11, 2021 1:51 PM

210175 - Site at Calmount Rd, Ballymount

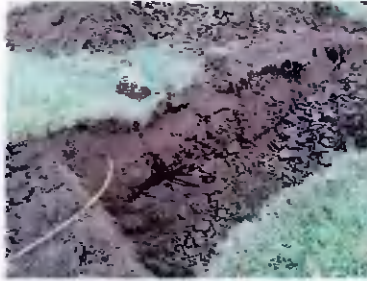
Calmount Road, Dublin, County Dublin



20211111_135154_photo

Darren Goodman

Nov 11, 2021 1:51 PM



20211111_135343_photo

Darren Goodman

Nov 11, 2021 1:53 PM

210175 - Site at Calmount Rd, Ballymount

Calmount Road, Dublin, County Dublin

#12 Trial Pit

Status
Closed

Start Date
Nov 11, 2021

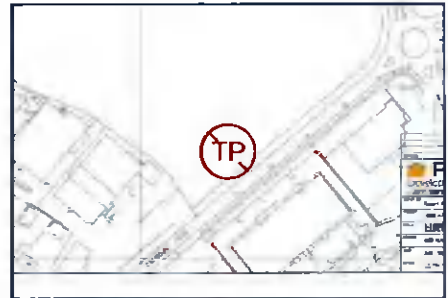
Sheet
Site at Calmount Rd.,
Ballymount.

Type
Planned Work

Due At
Nov 11, 2021

Location
TP12

Created
Nov 11, 2021 3:13 PM
darren.goodman@dbfl.ie

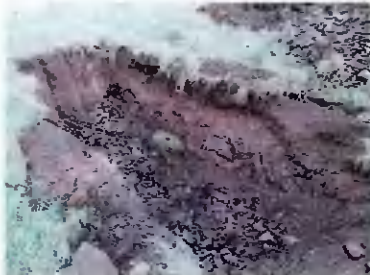


Description
TP12- 1,2W x 2.5L - 0.3m
black topsoil, 0.3-0.8m
brown sandy gravelly clay,
0.8- 1.2m gravelly weathered
rock, difficult to excavate. 1.2
rock. End 1.2m as breaking
off rock. No water ingress.

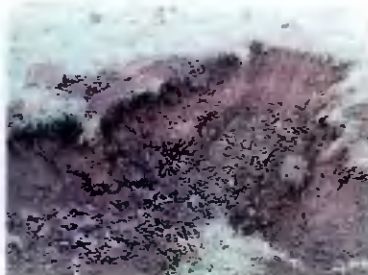
Last Updated
Nov 11, 2021 3:17 PM

Closed At
Nov 11, 2021

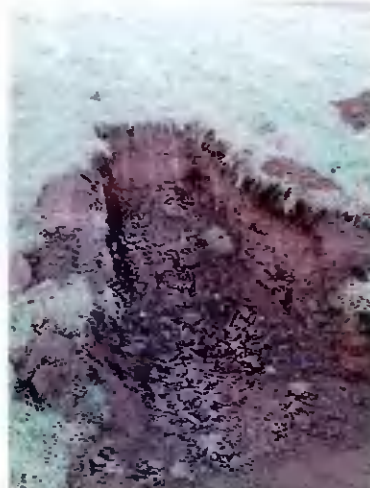
Photos



20211111_151550_photo
Darren Goodman
Nov 11, 2021 3:15 PM



20211111_151638_photo
Darren Goodman
Nov 11, 2021 3:16 PM



20211111_151723_photo
Darren Goodman
Nov 11, 2021 3:17 PM

210175 - Site at Calmount Rd, Ballymount

Calmount Road, Dublin. County Dublin

#13 Trial Pit

Status

Closed

Start Date

Nov 11, 2021

Sheet

Site at Calmount Rd.,
Ballymount.

Type

Planned Work

Due At

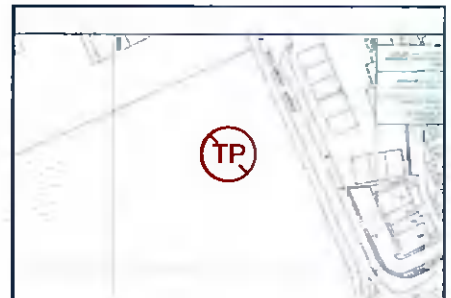
Nov 11, 2021

Location

TP13

Created

Nov 11, 2021 3:38 PM
darren.goodman@dbfl.ie



Description

TP13 - 1,2W x 3.0L - 0.2m topsoil, 0.2-0.7m brown sandy gravelly clay, 0.7-1.2m gravelly weathered rock or rock difficult to excavate. End 1.2m as breaking off rock. No water ingress.

Last Updated

Nov 11, 2021 3:46 PM

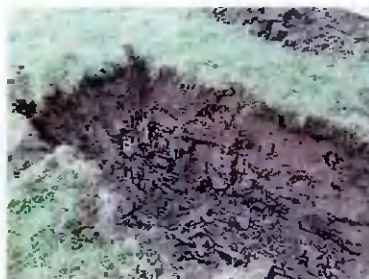
Closed At

Nov 11, 2021

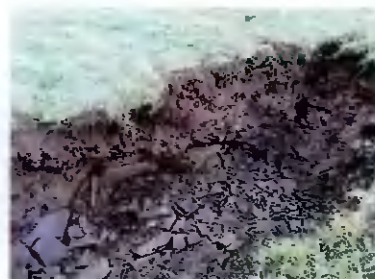
Photos



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Darren Goodman
Nov 11, 2021 3:39 PM



20211111_154402_photo
Darren Goodman
Nov 11, 2021 3:44 PM



20211111_154441_photo
Darren Goodman
Nov 11, 2021 3:44 PM

210175 - Site at Calmount Rd, Ballymount

Calmount Road, Dublin, County Dublin



20211111_154454_photo

Darren Goodman

Nov 11, 2021 3:44 PM

210175 - Site at Calmount Rd, Ballymount

Calmount Road, Dublin, County Dublin

#14 Trial Pit

Status

Closed

Start Date

Nov 11, 2021

Sheet

Site at Calmount Rd.,
Ballymount.

Type

Planned Work

Due At

Nov 11, 2021

Location

TP14

Created

Nov 11, 2021 3:46 PM
darren.goodman@dbfl.ie



Description

TP14 - 1,2W x 3.0L - 0.3m topsoil, 0.3-0.7m brown sandy gravelly clay, 0.7-1.1m weathered rock or rock difficult to excavate. End 1.1m as breaking off rock. No water ingress.

Last Updated

Nov 11, 2021 3:59 PM

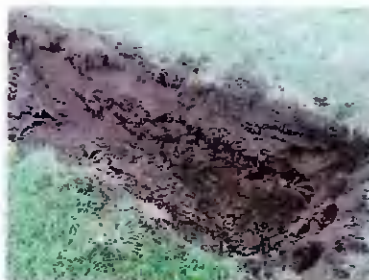
Closed At

Nov 11, 2021

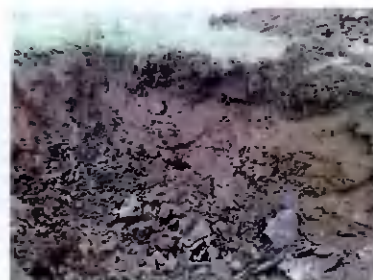
Photos



20211111_155607_photo
Darren Goodman
Nov 11, 2021 3:56 PM



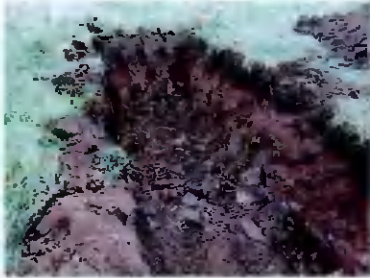
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Darren Goodman
Nov 11, 2021 3:56 PM



20211111_155643_photo
Darren Goodman
Nov 11, 2021 3:56 PM

210175 - Site at Calmount Rd, Ballymount

Calmount Road, Dublin, County Dublin



20211111_155749_photo
Darren Goodman
Nov 11, 2021 3:57 PM



20211111_155917_photo
Darren Goodman
Nov 11, 2021 3:59 PM

#15 Trial Pit

Status
Closed

Start Date
Nov 11, 2021

Sheet
Site at Calmount Rd.,
Ballymount.

Type
Planned Work

Due At
Nov 11, 2021

Location
TP15

Created
Nov 11, 2021 3:58 PM
darren.goodman@dbfl.ie



Description
TP15 - 1,2W x 3.0L - 0.3m topsoil, 0.3-0.9m brown sandy gravelly clay, 0.9-1.1m weathered difficult to excavate. End 1.1m as breaking off rock. No water ingress.

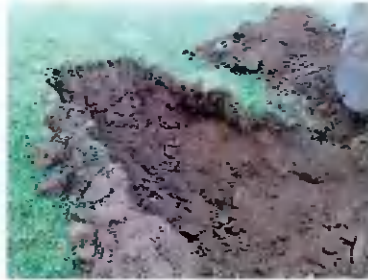
Last Updated
Nov 11, 2021 4:08 PM

Closed At
Nov 11, 2021

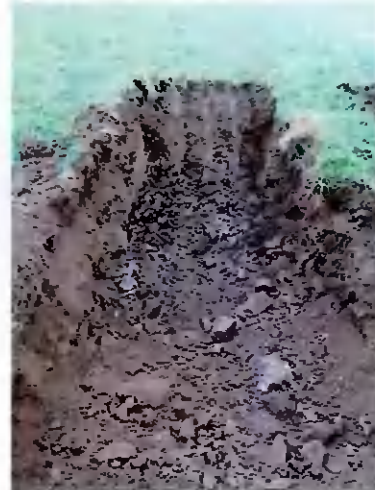
Photos



20211111_160536_photo
Darren Goodman
Nov 11, 2021 4:05 PM



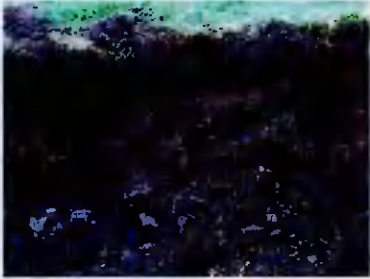
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Darren Goodman
Nov 11, 2021 4:06 PM



20211111_160717_photo
Darren Goodman
Nov 11, 2021 4:07 PM

210175 - Site at Calmount Rd, Ballymount

Calmount Road, Dublin, County Dublin



20211111_160754_photo

Darren Goodman

Nov 11, 2021 4:07 PM

#16 Trial Pit

Status
Closed

Start Date
Nov 11, 2021

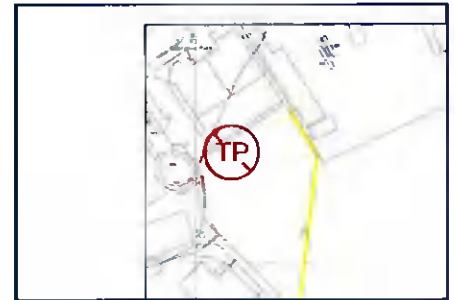
Sheet
Site at Calmount Rd.,
Ballymount.

Type
Planned Work

Due At
Nov 11, 2021

Location
TP16

Created
Nov 11, 2021 4:08 PM
darren.goodman@dbfl.ie



Description
TP16 - 1,2W x 2.5L - 0.2m topsoil, 0.2-0.7m brown sandy gravelly clay, 0.7m top rock difficult to excavate. End 0.8m as breaking off rock. No water ingress.

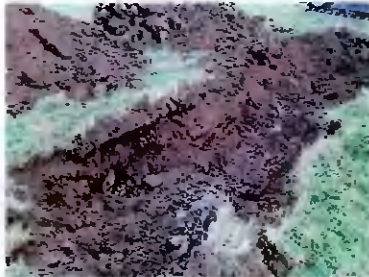
Last Updated
Nov 11, 2021 4:16 PM

Closed At
Nov 11, 2021

Photos



20211111_161301_photo
Darren Goodman
Nov 11, 2021 4:13 PM



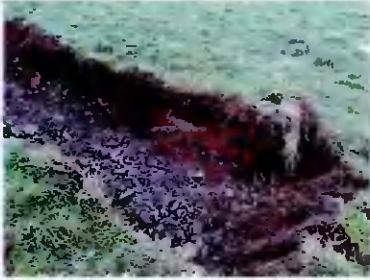
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Darren Goodman
Nov 11, 2021 4:14 PM



20211111_161536_photo
Darren Goodman
Nov 11, 2021 4:15 PM

210175 - Site at Calmount Rd, Ballymount

Calmount Road, Dublin, County Dublin



20211111_161548_photo

Darren Goodman

Nov 11, 2021 4:15 PM

210175 - Site at Calmount Rd, Ballymount
Calmount Road, Dublin, County Dublin

#17 Trial Pit

Status
Closed

Start Date
Nov 11, 2021

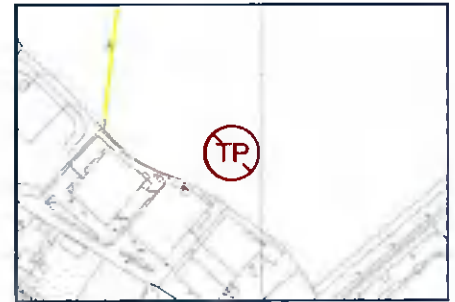
Sheet
Site at Calmount Rd.,
Ballymount.

Type
Planned Work

Due At
Nov 11, 2021

Location
TP17

Created
Nov 11, 2021 4:24 PM
darren.goodman@dbfl.ie



Description
TP17 - 1,2W x 2.5L - 0.2m
topsoil, 0.2-0.6m brown
sandy gravelly clay, 0.6m top
rock difficult to excavate.
End 0.8m as breaking off
rock. No water ingress.

Last Updated
Nov 11, 2021 4:26 PM

Closed At
Nov 11, 2021

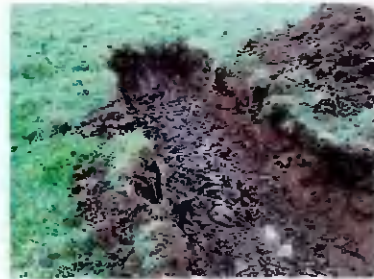
Photos



20211111_162455_photo
Darren Goodman
Nov 11, 2021 4:24 PM



20211111_162614_photo
Darren Goodman
Nov 11, 2021 4:26 PM



20211111_162632_photo
Darren Goodman
Nov 11, 2021 4:26 PM

210175 - Site at Calmount Rd, Ballymount

Calmount Road, Dublin, County Dublin

#18 Trial Pit

Status
Closed

Start Date
Nov 11, 2021

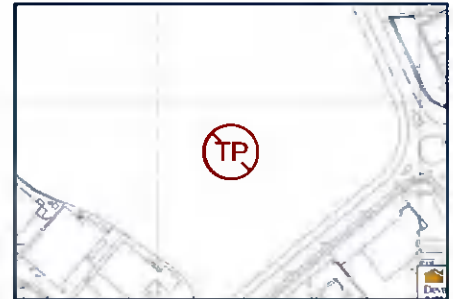
Sheet
Site at Calmount Rd.,
Ballymount.

Type
Planned Work

Due At
Nov 11, 2021

Location
TP18

Created
Nov 11, 2021 4:26 PM
darren.goodman@dbfl.ie



Description
TP18 - 1,2W x 2.5L - 0.2m topsoil, 0.2-0.7m brown sandy gravelly clay, 0.7m top rock difficult to excavate. End 0.9m as breaking off rock. No water ingress.

Last Updated
Nov 11, 2021 4:39 PM

Closed At
Nov 11, 2021

Photos



20211111_163845_photo
Darren Goodman
Nov 11, 2021 4:38 PM

210175 - Site at Calmount Rd, Ballymount

Calmount Road, Dublin, County Dublin

#19 Trial Pit

Status

Closed

Start Date

Nov 11, 2021

Sheet

Site at Calmount Rd.,
Ballymount.

Type

Planned Work

Due At

Nov 11, 2021

Location

TP19

Created

Nov 11, 2021 4:26 PM
darren.goodman@dbfl.ie



Description

TP19 - 1,2W x 2.5L - 0.3m topsoil, 0.3-0.9m brown sandy gravelly clay, 0.9m top rock difficult to excavate. End 1.0m as breaking off rock. No water ingress.

Last Updated

Nov 11, 2021 4:41 PM

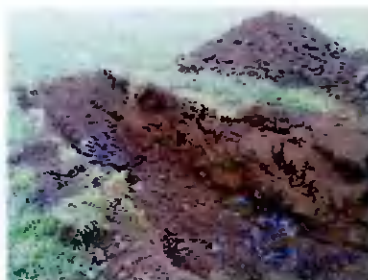
Closed At

Nov 11, 2021

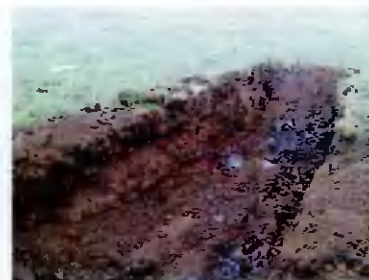
Photos



20211111_163938_photo
Darren Goodman
Nov 11, 2021 4:39 PM



20211111_164047_photo
Darren Goodman
Nov 11, 2021 4:40 PM



20211111_164101_photo
Darren Goodman
Nov 11, 2021 4:41 PM

