

Fingerboards Mineral Sands Project Inquiry and Advisory Committee

Technical note

TN No: TN 016

Date: 9 April 2021

Subject: Water Infiltration Rate Monitoring and Soil Data Results

To assist Kalbar's ongoing collection of data to inform the approach to site rehabilitation, in November 2020 Kalbar instructed Mr Christian Bannan, a soil scientist from South East Soil and Water, to collect baseline data of water infiltration rates in the soil around the project site.

The data was collected by using a small excavator to excavate 18 sample pits, approximately 600mm wide and 1.2-1.4m deep, across the site. Mr Bannan selected sites based on soil chemistry information provided by Kalbar and where there was a spread of Grassy Woodland, Plateau Grazing and Valley Slope sites. Based on the excavations, Mr Bannan prepared soil profile descriptions, and took photographs of the excavations.

Water infiltration in topsoil was measured by spreading 1m x 1m of topsoil to a depth of 200mm within 5m of the excavated pits. Metal infiltration rings, with a diameter of about 30cm, were then placed over the excavated topsoil. The water infiltration measurements were used by Mr Bannan to calculate water infiltration rates in the topsoil.

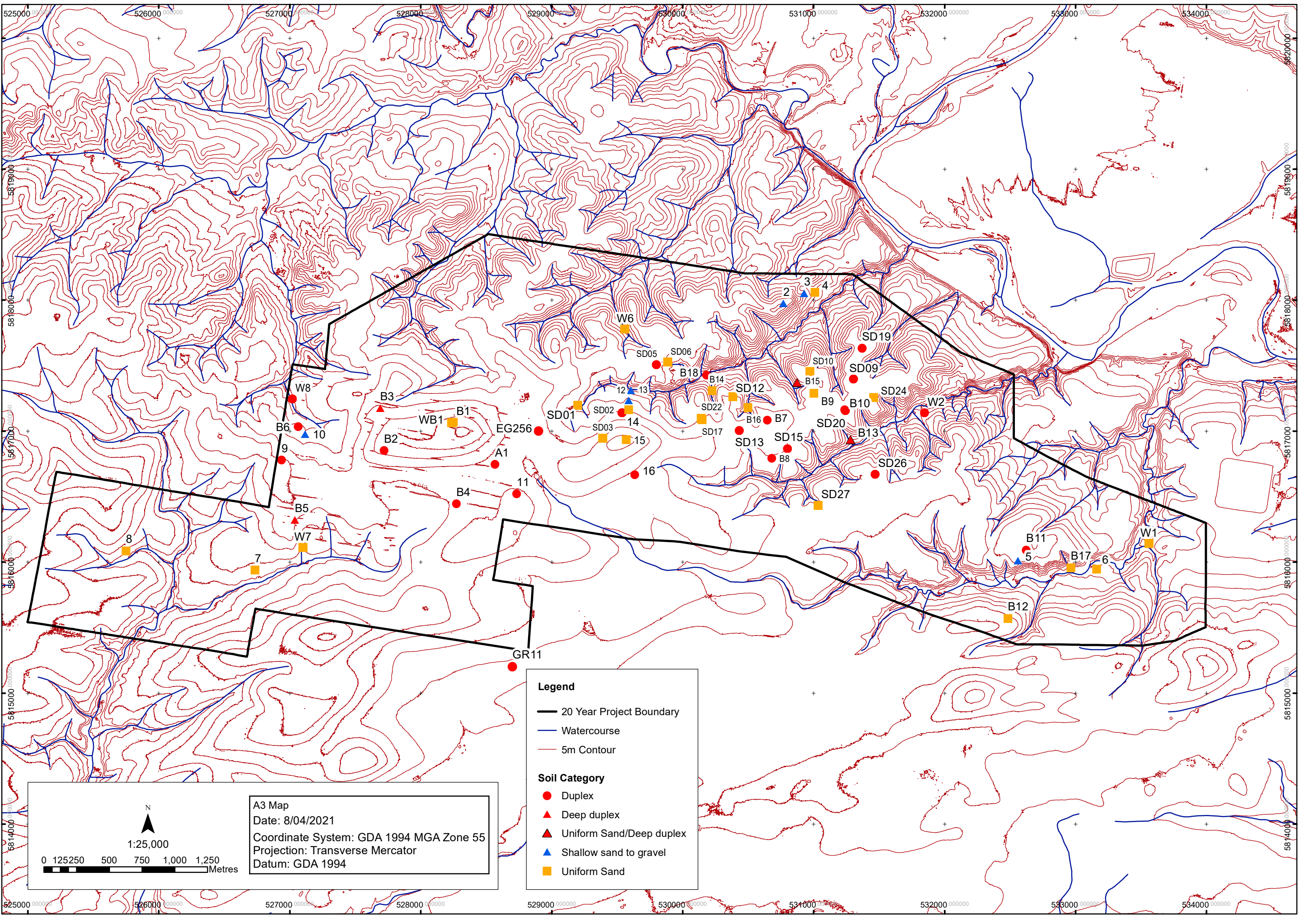
Water infiltration in subsoil was measured by placing metal rings on the subsoil in the base of the excavated pits, and Mr Bannan used this data to calculate water infiltration rates.

Mr Bannan then backfilled the pits with stockpiled subsoil and uniformly spread topsoil over pit for rehabilitation.

The soil profile descriptions and water infiltration measures and calculations prepared by Mr Bannan, and the location of the sample pits, are attached. The photographs taken by Mr Bannan can be supplied on request.

Mr Loch refers to this information in paragraphs 12 and 13 of his witness statement of 29 January 2022.

Chemical analysis of the soil samples is underway, and will be provided in a future technical note.



Legend

- 20 Year Project Boundary
- Watercourse
- 5m Contour

Soil Category

- Duplex
- ▲ Deep duplex
- ▲ Uniform Sand/Deep duplex
- ▲ Shallow sand to gravel
- Uniform Sand

A3 Map
Date: 8/04/2021
Coordinate System: GDA 1994 MGA Zone 55
Projection: Transverse Mercator
Datum: GDA 1994

1:25,000

0 125250 500 750 1,000 1,250 Metres

Client Name: Kalbar Operations

DATE: 25th November 2020

Pit No: 1

Kalbar Soil Test Site No: Kalbar Grassy Woodland Plateau S6

GPS:
Zone: 55H

Landform (DCFL 1988): Py - Perry.
Pleistocene Alluvium & Marine Sand.

Easting: 0528249

Slope/Position: Upper
Aspect: North-West

Northing: 5817066

LOG COMPLETE	YES
GPS CO-ORD	YES
PHOTOS	YES
SAMPLES	YES

Hor	Depth	Depth	Thick	Texture	AWC mm	Colour	Colour	pH	Consis	Structure		React	Mottling			Coarse Fragments				Drain	Roots	Hard	Moist	Slick	Carb	RAW mm
	St cm	Fin cm			1500 kPa	Visual	Munsell		% Britt	Grade	Type	HCl	Col	%	Lith	%	Size	Ang	Score	Score	pan					Class
A1	0	20	20	ZS	0.62	DG	10YR 3/1	N/A	100	-	AC	N	-	-	-	-	-	-	VG	9	X	M	-	-	12.40	
A2	20	65	45	S	0.62	LG	10YR 6/2	N/A	100	-	AC	N	-	-	-	-	-	-	VG	3	X	M	-	-	27.90	
A3	65	120	55	LS	0.87	YB	10YR 7/4	N/A	100	-	AC	N	-	-	SS	10	1-50	SR-R	VG	3	X	M	-	-	39.15	
B1	120	170	50	CS	1.00	OB	7.5YR 6/6	N/A	50	W	SB	N	O, R	10	-	-	-	-	M-P	0	X	M	-	-	0.00	

Soil Type (DCFL, 1988): Podzol (Podosol)

Additional Notes:

Estimated RAW @ 1500 kPa (mm): 79.5

Dep. to drainage or root imp layer (cm): 65 Sandy layer with sandstone

Strong bleaching in A2 horizon.

A3 horizon is not bleached.

Deep sandy profile.

Effective Rootzone (cm):

Current: 110

Infiltration measurement taken on top of the A3 horizon with sandstone coarse fragments.

Client Name: Kalbar Operations

DATE: 25th November 2020

Pit No: 2

Kalbar Soil Test Site No: Kalbar Grassy Woodland Plateau S10

GPS:
Zone: 55H

Landform (DCFL 1988): Py - Perry.
Pleistocene Alluvium & Marine Sand.

Easting: 0527720

Slope/Position: Mid-Upper

Aspect: South

Northing: 5816850

LOG COMPLETE	YES
GPS CO-ORD	YES
PHOTOS	YES
SAMPLES	YES

Hor	Depth		Thick cm	Texture	AWC mm		Colour Visual	Colour Munsell	pH	Consis % Britt	Structure		React HCI	Mottling			Coarse Fragments				Drain Score	Roots Score	Hard pan	Moist	Slick	Carb Class	RAW mm	
	St cm	Fin cm			1500 kPa	Visual					Grade	Type		HCI	Col	%	Lith	%	Size	Ang							Score	Score
A1	0	18	18	ZS	0.62	DG	10YR 3/2	N/A	100	-	AC	N	-	-	-	-	-	-	-	VG	8	X	M	-	-	11.16		
A2	18	50	32	LS	0.87	LB	10YR 4/3	N/A	100	-	AC	N	-	-	-	-	-	-	-	VG	3	X	M	-	-	27.84		
A3	50	65	15	LS	0.87	LG	10YR 6/3	N/A	100	-	AC-V	N	-	-	-	-	-	-	-	VG-P	2	YES	M	-	-	13.05		
B1	65	85	20	MHC	1.20	YB	10YR 6/6	N/A	10	W	CO-AB	N	-	-	-	-	-	-	-	VP	4	X	M	SS	-	24.00		
B2	85	120	35	MHC	1.20	DG	2.5Y 6/1	N/A	10	W-M	AB	N	R	50	-	-	-	-	-	VP	1	X	M	SS	-	42.00		
B3	120	140	20	CS	1.00	YB	10YR 5/8	N/A	30	-	G-V	N	R, O	20	-	-	-	-	-	P	0	X	M	-	-	0		

Soil Type (DCFL, 1988): Solodic Soil.

Additional Notes:

Estimated RAW @ 1500 kPa (mm): 118.1

Deep sand over heavy clay, strongly duplex.

Dep. to drainage or root imp layer (cm): 65

A1 is silty sand with organic matter, over sands with little organic matter.

Strong mottling in the B horizons.

Effective Rootzone (cm):

Moderate bleaching in the A3 horizon from perched water.

Current: 120

Client Name: Kalbar Operations

DATE: 25th November 2020

Pit No: 3

Kalbar Soil Test Site No: Kalbar Grassy Woodland Plateau S11

GPS:
Zone: 55H

Landform (DCFL 1988): Py - Perry.
Pleistocene Alluvium & Marine Sand.

Easting: 0527691

Slope/Position: Mid-Upper

Aspect: North

Northing: 5817176

LOG COMPLETE	YES
GPS CO-ORD	YES
PHOTOS	YES
SAMPLES	YES

Hor	Depth	Depth	Thick	Texture	AWC mm	Colour	Colour	pH	Consis	Structure		React	Mottling			Coarse Fragments				Drain	Roots	Hard	Moist	Slick	Carb	RAW mm
	St cm	Fin cm			cm	1500 kPa	Visual		Munsell	% Britt	Grade	Type	HCl	Col	%	Lith	%	Size	Ang	Score	Score					pan
A1	0	30	30	ZS	0.62	DG	10YR 3/1	N/A	100	-	AC	N	-	-	-	-	-	-	-	VG	9	X	M	-	-	18.60
A2	30	55	25	LS	0.87	LG	10YR 5/2	N/A	100	-	AC	N	-	-	-	-	-	-	-	VG	5	X	M	-	-	21.75
A3	55	110	55	LS	0.87	B	10YR 6/4	N/A	100	-	AC	N	-	-	SS	10	1-50	SR-R	VG	3	X	M	-	-	47.85	
B1	110	130	20	MHC(S)	1.20	DG	2.5Y 6/1	N/A	10	W	SB-AB	N	R,O	50	-	-	-	-	VP	1	X	M	SS	-	12.00	

Soil Type (DCFL, 1988): Podzol (Podosol) - Solodic Soil.

Additional Notes:

Estimated RAW @ 1500 kPa (mm): 100.2

Bleaching in the A2 horizon.

No bleaching in the A3 horizon.

Subsoil is impervious

Over 1.0m of sand over clay.

Dep. to drainage or root imp layer (cm): 110

Effective Rootzone (cm):

Current: 120

Client Name: Kalbar Operations

DATE: 25th November 2020

Pit No: 4

Kalbar Soil Test Site No: Kalbar Grassy Woodland Plateau S4

GPS:
Zone: 55H

Landform (DCFL 1988): R1 - Redgum. Pleistocene & Minor Tertiary Alluvium

Easting: 0528273

Slope/Position: Mid - Gentle Slope.

Aspect: West

Northing: 5816444

LOG COMPLETE	YES
GPS CO-ORD	YES
PHOTOS	YES
SAMPLES	YES

Hor	Depth		Thick cm	Texture	AWC mm		Colour Visual	Colour Munsell	pH	Consis % Britt	Structure		React HCI	Mottling			Coarse Fragments				Drain Score	Roots Score	Hard pan	Moist	Slick	Carb Class	RAW mm	
	St cm	Fin cm			1500 kPa	Visual					Grade	Type		HCI	Col	%	Lith	%	Size	Ang							Score	Score
A1	0	11	11	SL	1.15	DGB	10YR 3/2	N/A	80	W	SB	N	-	-	-	-	-	-	-	G	7	X	M	-	-	12.65		
A2	11	23	12	SL	1.15	LG-W	10YR 5/2	N/A	60	W	SB-V	N	-	-	Fe	5	1-10	SR-R	M-P	3	YES	M	-	-	13.8			
B1	23	50	27	HC	1.20	YGB	10YR 5/4	N/A	10	W	CO-AB	N	O	10	-	-	-	-	VP	3	X	M	SS	-	32.4			
B2	50	110	60	HC	1.20	DG	2.5Y 6.2	N/A	10	M	AB	N	O	30	-	-	-	-	VP	1	X	M	SS	-	24			
B3	110	140	30	HC	1.20	DG	2.5Y 5/1		10	M	AB	N	O, R	10	-	-	-	-	VP	0	X	M	SS	-	0			

Soil Type (DCFL, 1988): Solodic Soil.

Additional Notes:

Estimated RAW @ 1500 kPa (mm): 82.9

Very dark grey or gleyed clay below 1.0 metre.

Dep. to drainage or root imp layer (cm): 50

Very strong bleach in the A2 horizon - see photographs.

Duplex profile with sharp transition between A and B horizons.

Effective Rootzone (cm):

Shallower topsoil site.

Current: 70

Client Name: Kalbar Operations

DATE: 25th November 2020

Pit No: 5

Kalbar Soil Test Site No: Kalbar Grassy Woodland Plateau S12

GPS:
Zone: 55H

Landform (DCFL 1988): Py - Perry.
Pleistocene Alluvium & Marine Sand.

Easting: 0527039

Slope/Position: Mid-Upper Slope

Aspect: South-East

Northing: 5816323

LOG COMPLETE	YES
GPS CO-ORD	YES
PHOTOS	YES
SAMPLES	YES

Hor	Depth	Depth	Thick	Texture	AWC mm	Colour	Colour	pH	Consis	Structure		React	Mottling			Coarse Fragments				Drain	Roots	Hard	Moist	Slick	Carb	RAW mm
	St cm	Fin cm			cm	1500 kPa	Visual		Munsell	% Britt	Grade	Type	HCl	Col	%	Lith	%	Size	Ang	Score	Score					pan
A1	0	16	16	SL	1.15	DG	10YR 3/2	N/A	100	-	AC	N	-	-	-	-	-	-	VG	8	X	M	-	-	18.40	
A2	16	38	22	LS	0.87	LB	10YR 5/3	N/A	100	-	AC	N	-	-	Fe	5	1-10	SR-R	VG	5	X	M	-	-	19.14	
A3	38	58	20	LS	0.87	LGB	10YR 6/3	N/A	100	-	AC-V	N	-	-	Fe	5	1-10	SR-R	VG-P	3	YES	M	-	-	17.40	
B1	58	80	22	CS	1.00	YB	10YR 6/4	N/A	20	W	SB-V	N	-	-	-	-	-	-	P	1	X	M	-	-	27.00	
B2	80	110	30	SC-MC	1.49	DGB	10YR 5/1	N/A	10	W	AB	N	O	20	-	-	-	-	VP	0	X	M	SS	-	0.00	
B3	110	140	30	HC	1.20	DG	2.5Y 5/1	N/A	10	M	AB	N	R, O	30	-	-	-	-	VP	0	X	M	SS	-	0.00	

Soil Type (DCFL, 1988): Podzol (Podosol) - Solodic Soil.

Additional Notes:

Estimated RAW @ 1500 kPa (mm): 81.9

Strongly duplex profile.

Sharp transition to clay at 58cm.

High sand content in clay from 58-80cm.

Stiff clay below 80cm.

Site has good grass cover.

Moderate stability in topsoil where grass cover exists.

Moderate bleaching in the A3 horizon.

Dep. to drainage or root imp layer (cm): 58

Effective Rootzone (cm):

Current: 75

Client Name: Kalbar Operations

DATE: 25th November 2020

Pit No: 6

Kalbar Soil Test Site No: Kalbar Grassy Woodland Plateau S14

GPS:
Zone: 55H

Landform (DCFL 1988): R1 - Redgum. Pleistocene & Minor Tertiary Alluvium

Easting: 0527063

Slope/Position: Mid Slope

Aspect: North-East

Northing: 5817032

LOG COMPLETE	YES
GPS CO-ORD	YES
PHOTOS	YES
SAMPLES	YES

Hor	Depth	Depth	Thick	Texture	AWC mm	Colour	Colour	pH	Consis	Structure		React	Mottling			Coarse Fragments				Drain	Roots	Hard	Moist	Slick	Carb	RAW mm
	St cm	Fin cm			cm	1500 kPa	Visual		Munsell	% Britt	Grade	Type	HCl	Col	%	Lith	%	Size	Ang	Score	Score					pan
A1	0	13	13	SL	0.87	DGB	10YR 4/2	N/A	70	W	SB	N	-	-	-	-	-	-	G	7	X	T	-	-	11.3	
A2	13	25	12	SL	0.87	LG-W	10YR 5/3	N/A	40	-	V	N	-	-	Fe	1	1-10	SR-R	M-P	2	YES	T	-	-	10.4	
B1	25	55	30	MHC	1.20	YB	10YR 6/6	N/A	10	W	CO-AB	N	-	-	-	-	-	VP	3	X	T	-	-	36.0		
B2	55	95	40	MHC	1.20	YB	10YR 6/8	N/A	10	M	AB	N	R	10	-	-	-	VP	2	X	T	-	-	36.0		
B3/C	95	130	35	MC/WR	1.20	YB	10YR 6/6	N/A	10	W	SB-AB	N	R	30	-	-	-	VP	0	X	T	-	-	0.0		

Soil Type (DCFL, 1988): Solodised Solonetz - Solodic Soil

Additional Notes:

Estimated RAW @ 1500 kPa (mm): 93.8

Dep. to drainage or root imp layer (cm): 25

Effective Rootzone (cm):

Current: 85

Strong bleached A2 horizon above clay subsoil.

B3 horizon is medium clay with wethered sandstone rock.

Some ironstone buckshot in the A2 horizon.

Clays are MC-HC but contain a modicum of sand.

Site located in bluegums.

Bluegums sucking out moisture from profile.

A2 horizon is a cemented hardpan

Client Name: Kalbar Operations

DATE: 26th November 2020

Pit No: 7

Kalbar Soil Test Site No: McMahon Plateau Grazing S1

GPS:
Zone: 55H

Landform (DCFL 1988): Cn - Clifton. Unconsolidated Tertiary fan and Apron Deposits

Easting: 0530645

Slope/Position: Grazing Plateau. Upper/Undulating
Aspect: West

Northing: 5817084

LOG COMPLETE	YES
GPS CO-ORD	YES
PHOTOS	YES
SAMPLES	YES

Hor	Depth	Depth	Thick	Texture	AWC mm	Colour	Colour	pH	Consis	Structure		React	Mottling			Coarse Fragments			Drain	Roots	Hard	Moist	Slick	Carb	RAW mm
	St cm	Fin cm			cm	1500 kPa	Visual		Munsell	% Britt	Grade	Type	HCl	Col	%	Lith	%	Size	Ang	Score					Score
A1	0	16	16	KLS	0.87	DG	10YR 3/2	N/A	100	-	AC	N	-	-	Qtz,S	5	1-30	SR-R	VG	7	X	M	-	-	13.92
A2	16	33	17	KLS	0.87	LGB	10YR 6/3	N/A	100	-	AC-AL	N	-	-	Qtz,S	20	1-50	SR-R	VG	5	X	M	-	-	14.79
A3	33	48	15	KS	0.87	LG	10YR 7/3	N/A	100	-	AC-V	N	-	-	Qtz,S	20	1-50	SR-R	G-P	3	YES	M	-	-	13.05
B1	48	75	27	MC(S)	1.49	YB	10YR 5/4	N/A	10	M	CO-AB	N	R	20	-	-	-	-	VP	3	X	M	SS	-	40.23
B2	75	120	45	SC/CS	1.49	YB	10YR 6/6	N/A	20	W	SB-AB	N	R	20	-	-	-	-	VP	0	X	M	-	-	7.45

Soil Type (DCFL, 1988): Solodised Solonetz - Solodic Soil

Additional Notes:

Estimated RAW @ 1500 kPa (mm): 89.4

Dep. to drainage or root imp layer (cm): 48

Very strong bleach in the A3 horizon above clay.

B2 horizon is medium to heavy, sandy clay with clayey sand.

A horizons contain sandstone and quartz coarse fragments.

Site has good grass cover.

Effective Rootzone (cm):

Current: 80

Infiltration ring at 500mm

Client Name: Kalbar Operations

DATE: 26th November 2020

Pit No: 8

Kalbar Soil Test Site No: McMahon Plateau Grazing S2

GPS:
Zone: 55H

Landform (DCFL 1988): Cn - Clifton. Unconsolidated Tertiary fan and Apron Deposits

Easting: 0530679

Slope/Position: Plateau Grazing. Undulating.

Aspect: South East

Northing: 5816793

LOG COMPLETE	YES
GPS CO-ORD	YES
PHOTOS	YES
SAMPLES	YES

Hor	Depth	Depth	Thick	Texture	AWC mm	Colour	Colour	pH	Consis	Structure		React	Mottling			Coarse Fragments			Drain	Roots	Hard	Moist	Slick	Carb	RAW mm
	St cm	Fin cm			1500 kPa	Visual	Munsell		% Britt	Grade	Type	HCl	Col	%	Lith	%	Size	Ang	Score	Score	pan			Class	1500 kPa
A1	0	23	23	SL	1.15	DG	10YR 3/2	N/A	100	W	SB-AC	N	-	-	Qtz,S	5	1-50	SR-R	VG	8	X	M	-	-	26.5
A2	23	43	20	SL	1.15	G	10YR 5/2	N/A	90	-	AC-V	N	-	-	Qtz,S	5	1-50	SR-R	G-P	4	YES	M	-	-	23.0
B1	43	85	42	MHC	1.20	OGB	10YR 5/6	N/A	10	M	CO-AB	N	-	-	Qtz,S	5	1-50	SR-R	VP	3	X	M	SS	-	50.4
B2	85	130	45	MC-SC	1.49	OB	10YR 6/6	N/A	10	W	SB-AB	N	-	-	Qtz	5	1-50	R	VP	0	X	M	-	-	0.00

Soil Type (DCFL, 1988): Solodised Solonetz - Solodic Soil

Additional Notes:

Estimated RAW @ 1500 kPa (mm): 99.9

Strong bleaching in the A2 horizon above clay.

Roots into the B1 but not the B2 horizon.

A2 horizon is a cemented layer.

Dep. to drainage or root imp layer (cm): 43

Effective Rootzone (cm):

Current: 85

Client Name: Kalbar Operations

DATE: 26th November 2020

Pit No: 9

Kalbar Soil Test Site No: McMahon Plateau Grazing S4

GPS:
Zone: 55H

Landform (DCFL 1988): Cn - Clifton. Unconsolidated Tertiary fan and Apron Deposits

Easting: 0531002

Slope/Position: Upper - Gentle Slope

Aspect: West

Northing: 5817288

LOG COMPLETE	YES
GPS CO-ORD	YES
PHOTOS	YES
SAMPLES	YES

Hor	Depth	Depth	Thick	Texture	AWC mm	Colour	Colour	pH	Consis	Structure		React	Mottling			Coarse Fragments			Drain	Roots	Hard	Moist	Slick	Carb	RAW mm
	St cm	Fin cm			1500 kPa	Visual	Munsell		% Britt	Grade	Type	HCl	Col	%	Lith	%	Size	Ang	Score	Score					pan
A1	0	15	15	LS	0.87	GB	10YR 4/2	N/A	100	-	AC	N	-	-	Qtz	10	1-30	R	VG	8	X	M	-	-	13.1
A2	15	50	35	LS	0.87	LBG	10YR 7/3	N/A	100	-	AC	N	-	-	Qtz,S	30	1-50	R	VG	6	X	M	-	-	30.5
A3	50	120	70	LSG	0.62	LG	10YR 7/4	N/A	100	-	AC-AL	N	-	-	Qtz,S	50	1-100	R	VG	3	X	M	-	-	43.4
B1	120	140	20	SC&GC	1.15	YOB	10YR 6/8	N/A	50	-	AL-V	N	R	30	Qtz,S	80	1-100	R	VG	1	X	T	-	-	23.0

Soil Type (DCFL, 1988): Podzol (Podosol)

Additional Notes:

Estimated RAW @ 1500 kPa (mm): 109.9

Dep. to drainage or root imp layer (cm): >150

Site contains sand with gravels in the upper profile.

Profile transitions to gravel and cemented sand at depth.

Minimal clay at depth.

Effective Rootzone (cm):

Current: 140

Well drained profile.

Client Name: Kalbar Operations

DATE: 26th November 2020

Pit No: 10

Kalbar Soil Test Site No: McMahon Plateau Grazing S6

GPS:
Zone: 55H

Landform (DCFL 1988): Cn - Clifton. Unconsolidated Tertiary fan and Apron Deposits

Easting: 0531237

Slope/Position: Plateau/Grazing

Aspect: Upper

Northing: 5817162

LOG COMPLETE	YES
GPS CO-ORD	YES
PHOTOS	YES
SAMPLES	YES

Hor	Depth	Depth	Thick	Texture	AWC mm	Colour	Colour	pH	Consis	Structure		React	Mottling			Coarse Fragments			Drain	Roots	Hard	Moist	Slick	Carb	RAW mm
	St cm	Fin cm			1500 kPa	Visual	Munsell		% Britt	Grade	Type	HCl	Col	%	Lith	%	Size	Ang	Score	Score					pan
A1	0	11	11	SL	1.15	DGB	10YR 4/3	N/A	90	W	SB-AB	N	-	-	Qtz,S	5	1-20	SR-R	G-P	7	X	M	-	-	12.7
A2	11	24	13	SL	1.15	GB	10YR 6/2	N/A	80	W	SB-V	N	-	-	Qtz,S	10	1-20	SR-R	M-P	4	YES	M	-	-	15.0
B1	24	60	36	MHC(S)	1.49	YB	10YR 5/8	N/A	10	M	CO-AB	N	-	-	-	-	-	-	VP	3	X	M	-	-	53.6
B2	60	105	45	MHC(S)	1.49	YB	10YR 6/8	N/A	10	W	AB	N	R	20	-	-	-	-	VP	1	X	M	SS	-	22.4
B3	105	125	20	MC/G	1.20	G	2.5Y 6/1	N/A	10	M	AS	N	Or	20	Qtz,S	30	1-200	SR-R	VP	0	X	M	SS	-	0.0

Soil Type (DCFL, 1988): Solodised Solonetz - Solodic Soil

Additional Notes:

Estimated RAW @ 1500 kPa (mm): 103.6

Strong bleaching in the A2 horizon above clay.

Dep. to drainage or root imp layer (cm): 24

Heavy clay subsoil.

Poorly drained profile.

Effective Rootzone (cm):

Current: 75

Client Name: Kalbar Operations

DATE: 1st December 2020.

Pit No: 11

Kalbar Soil Test Site No: Davidson Plateau Grazing S1

GPS:
Zone: 55H

Landform (DCFL 1988): Cn - Clifton. Unconsolidated Tertiary fan and Apron Deposits

Easting: 0532623

Slope/Position: Plateau Grazing. Upper Slope to Flat.
Aspect: North-East.

Northing: 5816092

LOG COMPLETE	YES
GPS CO-ORD	YES
PHOTOS	YES
SAMPLES	YES

Hor	Depth	Depth	Thick	Texture	AWC mm	Colour	Colour	pH	Consis	Structure		React	Mottling			Coarse Fragments			Drain	Roots	Hard	Moist	Slick	Carb	RAW mm
	St cm	Fin cm			cm	1500 kPa	Visual		Munsell	% Britt	Grade	Type	HCl	Col	%	Lith	%	Size	Ang	Score				Score	pan
A1	0	10	10	LS	0.87	DGB	10YR 3/2	N/A	90	W	SB-AC	N	-	-	Qtz,S	50	1-30	SR-R	VG	8	X	T	-	-	8.7
A2	10	30	20	LS	0.87	LG	10YR 5/2	N/A	90	W	SB-V	N	-	-	Qtz,S	50	1-30	SR-R	G-P	5	X	T	-	-	17.4
B1	30	60	30	HC	1.20	YB	10YR 5/6	N/A	10	M	CO-AB	N	-	-	-	-	-	-	VP	3	X	M	-	-	36.0
B2	60	120	60	HC	1.20	YB	10YR 6/8	N/A	10	W	AB	N	-	-	-	-	-	-	VP	1	X	M	-	-	12.0

Soil Type (DCFL, 1988): Solodised Solonetz - Solodic Soil

Additional Notes:

Estimated RAW @ 1500 kPa (mm): 74.1

Strong bleaching in the A2 horizon above clay.

Subsoil clay is impervious.

Strong texture contrast between A and B horizons.

A2 horizon is a hard layer.

Dep. to drainage or root imp layer (cm): 30

Effective Rootzone (cm):

Current: 70

Client Name: Kalbar Operations

DATE: 1st December 2020.

Pit No: 12

Kalbar Soil Test Site No: Davidson Plateau Grazing S2

GPS:
Zone: 55H

Landform (DCFL 1988): Cn - Clifton. Unconsolidated Tertiary fan and Apron Deposits

Easting: 0532484

Slope/Position: Plateau Grazing. Upper Slope.

Aspect: North-East.

Northing: 5815570

LOG COMPLETE	YES
GPS CO-ORD	YES
PHOTOS	YES
SAMPLES	YES

Hor	Depth	Depth	Thick	Texture	AWC mm	Colour	Colour	pH	Consis	Structure		React	Mottling			Coarse Fragments			Drain	Roots	Hard	Moist	Slick	Carb	RAW mm
	St cm	Fin cm			cm	1500 kPa	Visual		Munsell	% Britt	Grade	Type	HCl	Col	%	Lith	%	Size	Ang	Score				Score	pan
A1	0	20	20	LS	0.87	DG	7.5YR 2.5/1	N/A	100	-	AC-AL	N	-	-	-	-	-	-	VG	8	X	T	-	-	17.4
A2	20	65	45	S	0.62	LG	7.5YR 6/2	N/A	100	-	AL	N	-	-	-	-	-	-	VG	6	X	T	-	-	27.9
A3	65	135	70	LS	0.87	OB	7.5YR 6/6	N/A	100	-	AC-AL	N	-	-	SS	30	1-50	SR-R	VG	3	X	T	-	-	56.55

Soil Type (DCFL, 1988): Podzol (Podosol)

Additional Notes:

Estimated RAW @ 1500 kPa (mm): 101.9

Deep sand. Clay not observed.

Dep. to drainage or root imp layer (cm): >135

Rounded sandstone coarse fragments in the A3 horizon.

Well drained profile.

Effective Rootzone (cm):

Current: 130

Client Name: Kalbar Operations

DATE: 26th November 2020

Pit No: 13

Kalbar Soil Test Site No: McMahon Valley Slopes S1

GPS:
Zone: 55H

Landform (DCFL 1988): Cn - Clifton. Unconsolidated Tertiary fan and Apron Deposits

Easting: 0531280

Slope/Position: Valley Slopes. Mid-Lower.

Aspect: South-East.

Northing: 5816934

LOG COMPLETE	YES
GPS CO-ORD	YES
PHOTOS	YES
SAMPLES	YES

Hor	Depth	Depth	Thick	Texture	AWC mm	Colour	Colour	pH	Consis	Structure		React	Mottling			Coarse Fragments			Drain	Roots	Hard	Moist	Slick	Carb	RAW mm
	St cm	Fin cm			cm	1500 kPa	Visual		Munsell	% Britt	Grade	Type	HCl	Col	%	Lith	%	Size	Ang	Score				Score	pan
A1	0	17	17	S	0.62	DG	10YR 3/2	N/A	100	-	AC-AL	N	Qtz	5	-	-	1-30	-	VG	8	X	M	-	-	10.54
A2	17	55	38	S	0.62	LGB	10YR 5/3	N/A	100	-	AC-AL	N	Qtz	5	-	-	1-30	-	VG	5	X	M	-	-	23.56
A3	55	85	30	S/G	0.62	LG	10YR 7/2	N/A	90	-	AC-V	N	Qtz,SS	50	Or	20	1-50	-	G-P	2	YES	M	-	-	18.60
B1	85	140	55	MC/G	1.20	G	2.5Y 6/2	N/A	10	W	SB-AB	N	Qtz,SS	50	Or	30	1-200	-	VP	1	X	M	-	-	12.00

Soil Type (DCFL, 1988): Podzol (Podosol) - Solodic Soil.

Additional Notes:

Estimated RAW @ 1500 kPa (mm): 64.7

Site located on lower part of steep valley slope.

Dep. to drainage or root imp layer (cm): 85

Profile contains sand and gravel over medium clay with gravel.

A3 horizon is a bleached layer of sand and gravel.

Effective Rootzone (cm):

Current: 95

Client Name: Kalbar Operations

DATE: 26th November 2020

Pit No: 14

Kalbar Soil Test Site No: McMahon Valley Slopes - Additional Site 1

GPS:
Zone: 55H

Landform (DCFL 1988): Cn - Clifton. Unconsolidated Tertiary fan and Apron Deposits

Easting: 0530224

Slope/Position: Valley Slope - Mid to lower section.

Aspect: North West

Northing: 5817311

LOG COMPLETE	YES
GPS CO-ORD	YES
PHOTOS	YES
SAMPLES	YES

Hor	Depth	Depth	Thick	Texture	AWC mm	Colour	Colour	pH	Consis	Structure		React	Mottling			Coarse Fragments			Drain	Roots	Hard	Moist	Slick	Carb	RAW mm
	St cm	Fin cm			1500 kPa	Visual	Munsell		% Britt	Grade	Type	HCl	Col	%	Lith	%	Size	Ang	Score	Score				pan	Class
A1	0	45	45	ZKS	0.62	DG	10YR 3/1	N/A	100	-	AC	N	-	-	Qtz	10	1-20	SR-R	VG	9	X	M	-	-	27.9
A2	45	90	45	KLS	0.87	GB	10YR 4/2	N/A	100	-	AC-AL	N	-	-	Qtz	10	1-50	SR-R	VG	5	X	M	-	-	39.2
A3	90	120	30	KLS	0.87	GB	10YR 5/2	N/A	100	-	AC-AL	N	O	10	Qtz	10	1-50	R	VG	3	X	M	-	-	26.1
B1	120	160	40	KS	0.62	OG	10YR 6/3	N/A	100	-	AC-AL	N	O	20	Qtz,S	30	1-100	R	VG	1	X	M	-	-	0.0

Soil Type (DCFL, 1988): Podzol (Podosol)

Additional Notes:

Estimated RAW @ 1500 kPa (mm): 93.2

Dep. to drainage or root imp layer (cm): <160

Effective Rootzone (cm):

Current: 120

Deep sandy profile in gully

Coarse fragments are rounded quartz.

Coarse fragments look like river gravels rather than hillwash.

Deeper coarse fragments include sandstone.

Infiltration ring at 850mm.

Surprisingly slow infiltration at 2mm/hour at 850mm. Unsure why this is so slow.

Client Name: Kalbar Operations

DATE: 26th November 2020

Pit No: 15

Kalbar Soil Test Site No: McMahon Valley Slopes S6

GPS:
Zone: 55H

Landform (DCFL 1988): Cn - Clifton. Unconsolidated Tertiary fan and Apron Deposits

Easting: 0530872

Slope/Position: Mid-Slope - Gully

Aspect: North-West

Northing: 5817370

LOG COMPLETE	YES
GPS CO-ORD	YES
PHOTOS	YES
SAMPLES	YES

Hor	Depth	Depth	Thick	Texture	AWC mm	Colour	Colour	pH	Consis	Structure		React	Mottling			Coarse Fragments			Drain	Roots	Hard	Moist	Slick	Carb	RAW mm
	St cm	Fin cm			cm	1500 kPa	Visual		Munsell	% Britt	Grade	Type	HCl	Col	%	Lith	%	Size	Ang	Score				Score	pan
A1	0	13	13	KLSG	0.62	DG	10YR 3/1	N/A	100	-	AC	N	-	-	Qtz,S	10	1-50	R	VG	9	X	M	-	-	8.1
A2	13	52	39	KCS	1.00	G	10YR 5/2	N/A	40	W	SB	N	-	-	Qtz,S	20	1-50	R	M	5	X	M	-	-	39.0
B1	52	85	33	KSC	1.20	OG	10YR 5/6	N/A	10	W	SB	N	O	10	Qtz,S	20	1-50	R	P	1	X	M	-	-	33.6
B2	85	120	35	MC(S)	1.20	G	2.5Y 5/1	N/A	10	M	SB	N	O	30	Qtz,S	20	1-50	R	VP	0	X	M	-	-	0.0

Soil Type (DCFL, 1988): Podzol (Podosol) - Solodic Soil.

Additional Notes:

Estimated RAW @ 1500 kPa (mm): 80.7

Dep. to drainage or root imp layer (cm): 52

A2 horizon is clayey sand.

A2 horizon has slight bleaching above clay.

Effective Rootzone (cm):

Current: 80

All horizons contain quartz and sandstone coarse fragments

Infiltration ring at 850mm

Expect infiltration in surface to be slow, reflective of subsoil.

Client Name: Kalbar Operations

DATE: 26th November 2020

Pit No: 16

Kalbar Soil Test Site No: McMahon Valley Slopes S8

GPS:
Zone: 55H

Landform (DCFL 1988): Cn - Clifton. Unconsolidated Tertiary fan and Apron Deposits

Easting: 0530497

Slope/Position: Valley Slope - Lower in Valley Junction.

Aspect: North

Northing: 5817178

LOG COMPLETE	YES
GPS CO-ORD	YES
PHOTOS	YES
SAMPLES	YES

Hor	Depth	Depth	Thick	Texture	AWC mm	Colour	Colour	pH	Consis	Structure		React	Mottling			Coarse Fragments			Drain	Roots	Hard	Moist	Slick	Carb	RAW mm
	St cm	Fin cm			cm	1500 kPa	Visual		Munsell	% Britt	Grade	Type	HCl	Col	%	Lith	%	Size	Ang	Score				Score	pan
A1	0	27	27	ZKS	0.62	DG	10YR 3/2	N/A	100	-	AC	N	-	-	Qtz	5	1-20	R	VG	8	X	T	-	-	16.74
A2	27	70	43	KLSG	0.87	LGB	10YR 5/3	N/A	100	-	AC	N	-	-	Qtz	10	1-50	R	VG	5	X	T	-	-	37.41
A3	70	105	35	KLSG	0.87	LG	10YR 7/3	N/A	90	-	AC-V	N	-	-	Qtz	30	1-50	R	VG	2	X	T	-	-	30.45
B1	105	150	45	KSG	0.62	LG	10YR 7/2	N/A	90	-	AC	N	-	-	Qtz	70	1-100	R	VG	1	X	T	-	-	15.50

Soil Type (DCFL, 1988): Podzol (Podosol)

Additional Notes:

Estimated RAW @ 1500 kPa (mm): 100.1

Dep. to drainage or root imp layer (cm): >150

Effective Rootzone (cm):

Current: 130

3rd and 4th horizons are slightly cemented.

All sands appear porous.

Gravel in most layers.

Profile transitions to gravel at 1.0 metre

Deep infiltration ring at 30cm in A2 horizon.

Infiltration rate steady at 24mm/hour, slower than expected.

Client Name: Kalbar Operations

DATE: 1st December 2020.

Pit No: 17

Kalbar Soil Test Site No: Davidson Valley Slopes S1

GPS:
Zone: 55H

Landform (DCFL 1988): Cn - Clifton. Unconsolidated Tertiary fan and Apron Deposits

Easting: 0532964

Slope/Position: Valley Slopes - Lower slope
Aspect: South

Northing: 5815957

LOG COMPLETE	YES
GPS CO-ORD	YES
PHOTOS	YES
SAMPLES	YES

Hor	Depth	Depth	Thick	Texture	AWC mm	Colour	Colour	pH	Consis	Structure		React	Mottling			Coarse Fragments			Drain	Roots	Hard	Moist	Slick	Carb	RAW mm
	St cm	Fin cm			1500 kPa	Visual	Munsell		% Britt	Grade	Type	HCl	Col	%	Lith	%	Size	Ang	Score	Score				pan	Class
A1	0	30	30	LSG	0.62	DGB	7.5YR 3/2	N/A	100	-	AC-AL	N	-	-	Qtz,S	70	1-100	SR-R	VG	9	X	T	-	-	18.6
A2	30	60	30	LS	0.87	G	10YR 5/3	N/A	100	-	AC-AL	N	-	-	Qtz,S	50	1-50	SR-R	VG	4	X	T	-	-	26.1
A3	60	95	35	LS	0.87	DGB	10YR 5/2	N/A	100	-	AC-AL	N	-	-	Qtz,S	10	1-50	SR-R	VG	3	X	M	-	-	30.45
B1	95	140	45	LS	0.87	OG	10YR 6/2	N/A	90	-	AC	N	-	-	Qtz,S	20	1-100	SR-R	G	2	X	M	-	-	39.15

Soil Type (DCFL, 1988): Podzol (Podosol)

Additional Notes:

Estimated RAW @ 1500 kPa (mm): 114.3

Dep. to drainage or root imp layer (cm): >140

Site looks like an old alluvial flow path.

Stone is rounded or sub-rounded.

Effective Rootzone (cm):

Current: 130

Unsure why infiltration is relatively slow in deeper test. Sand not taking water in quickly.

Site has significant tree cover and large tree roots.

Client Name: Kalbar Operations

DATE: 26th November 2020

Pit No: 18

Kalbar Soil Test Site No: McMahon Valley Slopes - Additional Site 2

GPS:
Zone: 55H

Landform (DCFL 1988): Cn - Clifton. Unconsolidated Tertiary fan and Apron Deposits

Easting: 0503181

Slope/Position: Valley Slopes. Mid-Lower.

Aspect: North

Northing: 5817427

LOG COMPLETE	YES
GPS CO-ORD	YES
PHOTOS	YES
SAMPLES	YES

Hor	Depth	Depth	Thick	Texture	AWC mm	Colour	Colour	pH	Consis	Structure		React	Mottling			Coarse Fragments				Drain	Roots	Hard	Moist	Slick	Carb	RAW mm
	St cm	Fin cm			1500 kPa	Visual	Munsell		% Britt	Grade	Type	HCl	Col	%	Lith	%	Size	Ang	Score	Score	pan					Class
A1	0	20	20	LS	0.87	DG	10YR 3/2	N/A	100	W	SB-AC	N	-	-	-	-	-	-	VG	7	X	M	-	-	17.4	
A2	20	48	28	LS	0.87	G	10YR 5/2	N/A	100	-	AC-V	N	-	-	-	-	-	-	G-P	3	X	M	-	-	24.36	
B1	48	105	57	MC(S)	1.49	YB	7.5YR 5/8	N/A	10	M	CO-AB	N	-	-	-	-	-	-	VP	2	X	M	SS	-	40.23	
B2	105	135	30	MC(S)	1.49	G	10YR 5/1	N/A	10	W	SB-AB	N	O	30	-	-	-	-	VP	0	X	M	SS	-	0	

Soil Type (DCFL, 1988): Solodised Solonetz - Solodic Soil

Additional Notes:

Estimated RAW @ 1500 kPa (mm): 82.0

Strong bleach in the A2 horizon

Clay subsoil appears impervious

Dep. to drainage or root imp layer (cm): 48

Effective Rootzone (cm):

Current: 75

INTERPRETATION GUIDE FOR ABBREVIATIONS ON SOIL PIT LOGS.

Texture		Colours		Structure Grade		Coarse Fragments		Carbonates - Lime	
LS	Loamy Sand	B	Brown	W	Weak	Ba	Basalt	S	Speckles
SL	Sandy Loam	RB	Red-Brown	M	Moderate	Fe	Ironstone / Ferricrete	Nod	Nodules
LSCL	Light Sandy Clay Loam	OB	Orange-Brown	S	Strong	SS	Sandstone	P	Powder
FSCL	Fine Sandy Clay Loam	DB	Dark Brown			FMC	Fine, Med & Coarse Sand	R	Rubble
LSCL	Light Sandy Clay Loam (Silty)	LB	Light Brown	Structure Type		QZ	Quartz		
SCL	Sandy Clay Loam	GB	Grey-Brown	AL	Apedal Loose	Ca	Calcium Carbonate	Mottling	
CL	Clay Loam	YB	Yellow-Brown	AC	Apedal Coherent	C	Cambrian	Mn	Manganese
FSC	Fine Sandy Clay	G	Grey	PO	Polyhedral	Gy	Gypsum	O	Orange
SC	Sandy Clay	DG	Dark Grey	SB	Sub-Angular Blocky	ZS	Siltstone	Y	Yellow
LC	Light Clay	O	Orange	AB	Angular Blocky			G	Grey
LMC	Light-Medium Clay	OG	Orange-Grey	V	Massive (Structureless)	Moisture		R	Red
MC	Medium Clay	GG	Greenish-Grey	P	Platy	D	Dry		
MHC	Medium-Heavy Clay	LG	Light Grey	CO	Columnar	T	Trace	Notes	
HC	Heavy Clay	W	White	L	Lenticular	M	Moist	OM	Organic matter
GC	Gravelly Clay			P	Prismatic	W	Wet	SS	Slickensides
WR	Weathered Rock	Soil Types				S	Saturated		
(Z)	Silty	BC	Brown Clay						
(S)	Sandy	GBC	Grey-Brown Clay						
(KC)	Coarse Sand	GC	Grey Clay						
(R)	Rock	TRBE	Transitional Red Brown Earth						
		RBE	Red Brown Earth						
		DSOC	Duplex Sand over Clay						
		AS	Aeolian Sand (Mallee/Riverine)						
		TR	Terra Rossa						

References:

- Northcote, K.H. 1979, *A Factual Key for the Recognition of Australian Soils*, Relim Technical Publications, Coffs Harbour, N.S.W.
- Munsell Soil Color Charts, 1975 Edition, Munsell Color, Baltimore, Maryland, USA.
- Weatherby, K. 1992, 'Soil Description Handbook', Unpublished.
- McDonald, R.C., Isbell, R.F., Speight, J.G., Walker, J. & Hopkins, M.S. 1990, 'Australian Soil & Land Survey Field Handbook', 2nd Edition, Australian Collaborative Land Evaluation Program, National Landcare Program & CSIRO Land & Water, Goanna Print, Canberra.

**KALBAR OPERATIONS - FINGERBOARDS PROJECT.
INFILTRATION TESTING.**

DATE: 19/11/2020 GPS COORDINATES
 SESW SITE NO: Site 1. A Horizon Surface ZONE: 55H
 KALBAR SITE NO: Kalbar Grassy Woodland Plateau S6 GPS EASTING: 528249
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5817066
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)
10.35am	Start	15	0	0	0	0
10.40am		90	75	5	15	900
10.45am		130	40	5	8	480
10.50am		170	40	5	8	480
10.55am	Refill	15	0	0	0	0
11.00am		68	53	5	10.6	636
11.05am		115	47	5	9.4	564
11.10am		165	50	5	10	600
11.15am		220	55	5	11.0	660
11.20am	Refill	25	0	0	0	0
11.25am		75	50	5	10.0	600
11.30am		125	50	5	10.0	600
11.35am		160	35	5	7.0	420
11.40am		190	30	5	6.0	360
11.45am	Refill	30	0	0	0	0
11.50am		75	45	5	9.0	540
11.55am		110	35	5	7.0	420
12.00pm		152	42	5	8.4	504
12.05pm		183	31	5	6.2	372
12.10pm	Refill	18	0	0	0	0
12.15pm		57	39	5	7.8	468
12.20pm		95	38	5	7.6	456
12.25pm		132	37	5	7.4	444
12.30pm		167	35	5	7.0	420

Total water infiltrated into profile (mm): **827**
 Total Time Elapsed (hours): **1.58**

SITE NOTES

Sandy soil
 A1 horizon to 0-25cm, grey, sand.
 A2 horizon to 0.55cm, sand to loamy sand, light brown
 B horizon subsoil contains ironstone or sandstone buckshot.
 Previous use bluegums
 Residue pushed up into windrows
 Brackenfern starting to take hold
 Soils are sandy.

DATE: 19/11/2020 GPS COORDINATES
 SESW SITE NO: Site 1. A3 Horizon 550mm ZONE: 55H
 KALBAR SITE NO: Kalbar Grassy Woodland Plateau S6 GPS EASTING: 528249
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5817066
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)
10.38am	Start	10	0	0	0	0
10.43am		50	40	5	8	480
10.48am		75	25	5	5	300
10.53am		95	20	5	4	240
10.58am		120	25	5	5	300
11.03am		142	22	5	4.4	264
11.08am		160	18	5	3.6	216
11.13am		177	17	5	3.4	204
11.18am		205	28	5	5.6	336
11.23am		230	25	5	5.0	300
11.28am		245	15	5	3.0	180
11.33am	Refill	25	0	0	0	0
11.38am		50	25	5	5.0	300
11.43am		80	30	5	6.0	360
11.48am		102	22	5	4.4	264
11.53am		120	18	5	3.6	216
11.58am		144	24	5	4.8	288
12.02pm		158	14	5	2.8	168
12.07pm		171	13	5	2.6	156
12.12pm		193	22	5	4.4	264
12.17pm		213	20	5	4.0	240

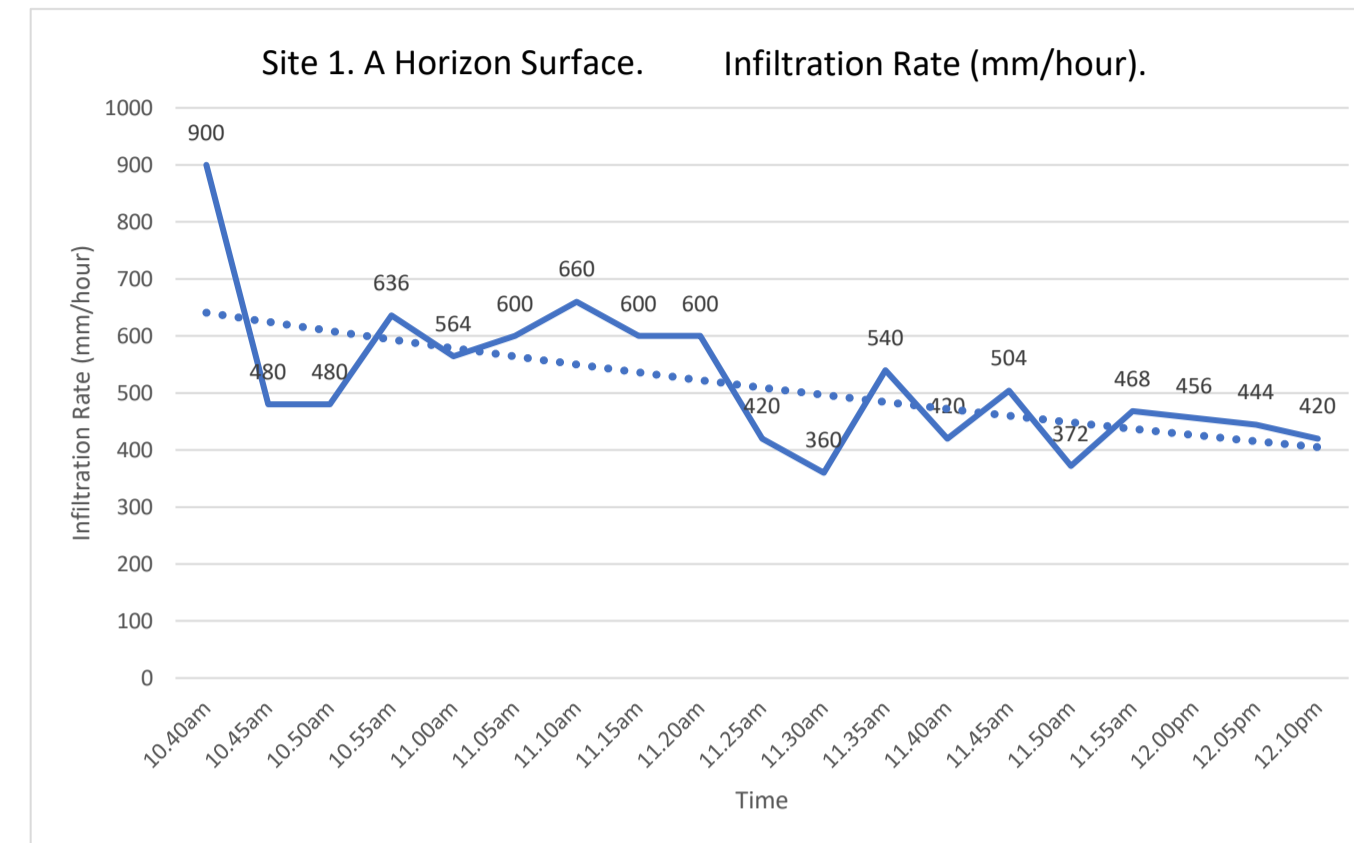
Total water infiltrated into profile (mm): **423**
 Total Time Elapsed (hours): **1.58**

SITE NOTES

Subsoil infiltration test taken on top of the A3 horizon, this was carried out before pit was dug.
 Testing may have been better at 1200mm of depth rather than 550mm to reflect clayey sand, layer with a higher clay percentage.

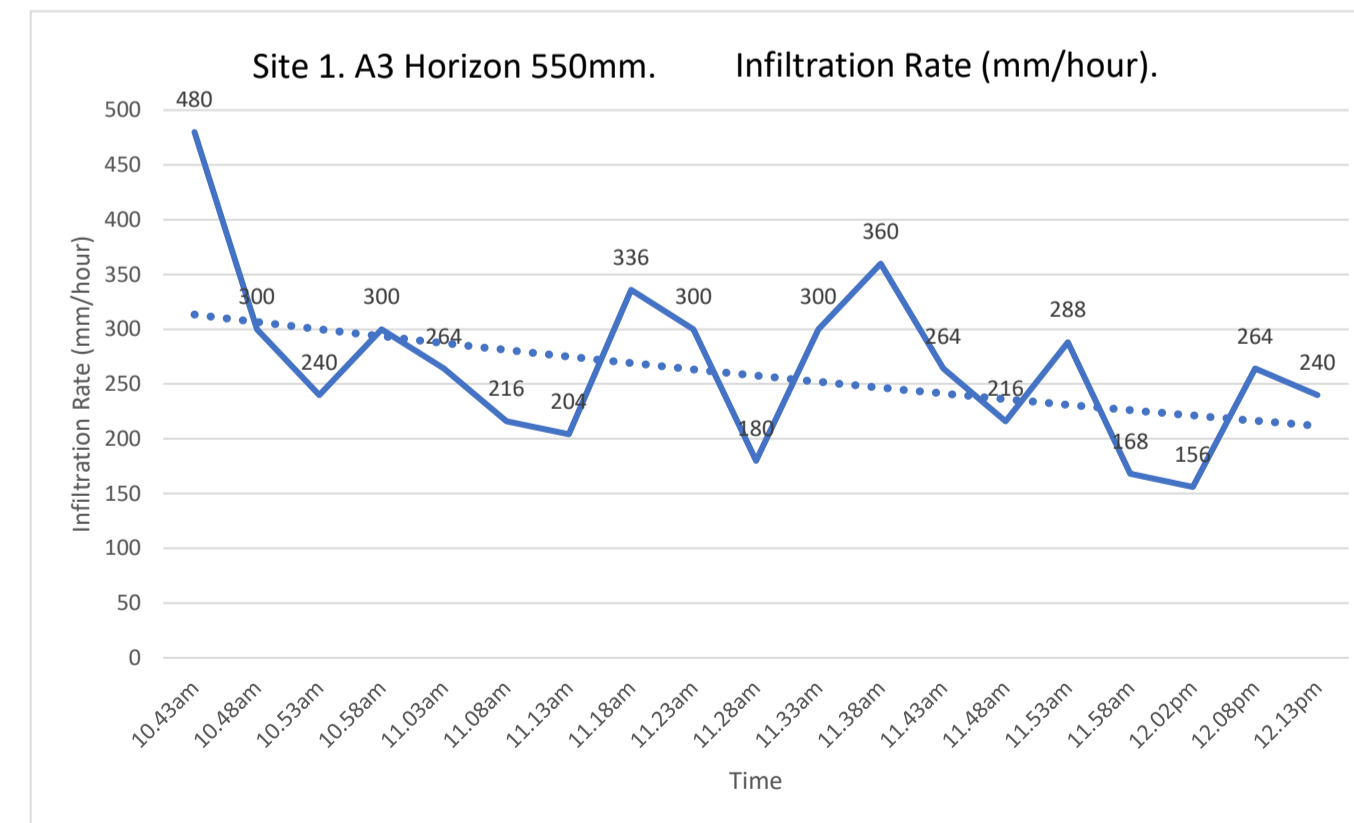
Data for Graphing:

TIME	Infiltration Rate (mm/hour)
10.40am	900
10.45am	480
10.50am	480
10.55am	636
11.00am	564
11.05am	600
11.10am	660
11.15am	600
11.20am	600
11.25am	420
11.30am	360
11.35am	540
11.40am	420
11.45am	504
11.50am	372
11.55am	468
12.00pm	456
12.05pm	444
12.10pm	420



Data for Graphing:

TIME	Infiltration Rate (mm/hour)
10.43am	480
10.48am	300
10.53am	240
10.58am	300
11.03am	264
11.08am	216
11.13am	204
11.18am	336
11.23am	300
11.28am	180
11.33am	300
11.38am	360
11.43am	264
11.48am	216
11.53am	288
11.58am	168
12.02pm	156
12.08pm	264
12.13pm	240



**KALBAR OPERATIONS - FINGERBOARDS PROJECT.
INFILTRATION TESTING.**

DATE: 25/11/2020 GPS COORDINATES
 SESW SITE NO: Site 2. A Horizon Surface ZONE: 55H
 KALBAR SITE NO: Kalbar Grassy Woodland Plateau S10 GPS EASTING: 527720
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5816850
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)
8.55am	Start	52	0	0	0	0
9.00am		67	15	5	3	180
9.05am		90	23	5	4.6	276
9.10am		106	16	5	3.2	192
9.15am	Refill	22	0	0	0	0
9.20am		42	20	5	4	240
9.25am		58	16	5	3.2	192
9.30am		78	20	5	4	240
9.35am		97	19	5	3.8	228
9.40am		111	14	5	2.8	168
9.45am		124	13	5	2.6	156
9.50am		143	19	5	3.8	228
9.55am	Refill	160	17	5	3.4	204
10.00am		14	0	0	0	0
10.05am		29	15	5	3.0	180
10.10am		50	21	5	4.2	252
10.15am		68	18	5	3.6	216
10.20am		84	16	5	3.2	192
10.25am		100	16	5	3.2	192
10.30am		119	19	5	3.8	228
10.35am		135	16	5	3.2	192
10.40am		149	14	5	2.8	168
10.45am		163	14	5	2.8	168
10.50am		175	12	5	2.4	144
				105		
Total water infiltrated into profile (mm):			353			
Total Time Elapsed (hours):			1.75			

SITE NOTES

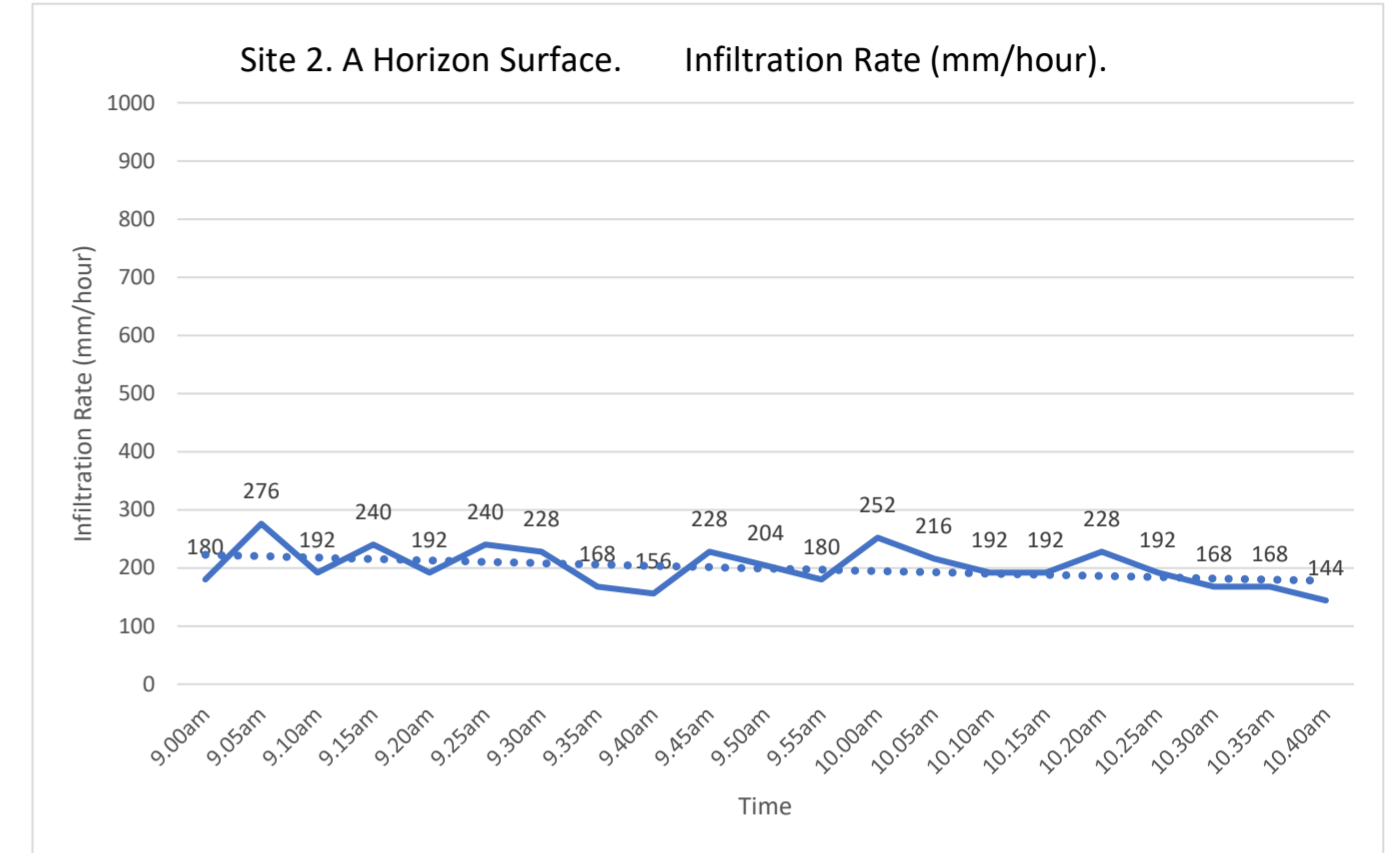
Deep sandy topsoil over medium to heavy clay subsoil at 650mm.
 Topsoil infiltration relatively uniform across the 1.5 hour duration.

DATE: 25/11/2020 GPS COORDINATES
 SESW SITE NO: Site 2. B1 Horizon. 650mm ZONE: 55H
 KALBAR SITE NO: Kalbar Grassy Woodland Plateau S10 GPS EASTING: 527720
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5816850
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)
8.57am	Start	6	0	0	0	0
9.02am		14	8	5	1.600	96
9.07am		17	3	5	0.600	36
9.12am		18	1	5	0.200	12
9.17am		19	1	5	0.200	12
9.22am		19	0	5	0.100	6
9.27am		20	1	5	0.200	12
9.32am		20	0	5	0.100	6
9.37am		20	0	5	0.067	4
9.42am		20	0	5	0.050	3
9.47am		20	0	5	0.040	2
9.52am		20	0	5	0.033	2
9.57am		21	1	5	0.200	12
10.02am		21	0	5	0.100	6
10.07am		22	1	5	0.200	12
10.12am		22	0	5	0.100	6
10.17am		23	1	5	0.200	12
10.22am		23	0	5	0.100	6
10.27am		24	1	5	0.200	12
10.32am		24	0	5	0.100	6
10.37am		24	0	5	0.067	4
12.20pm		24	0	103	0.008	0.51
2.30pm		24	0	130	0.004	0.24
8.40am		25	1	1090	0.001	0.06
				1423		
Total water infiltrated into profile (mm):			19			
Total Time Elapsed (hours):			23.7			

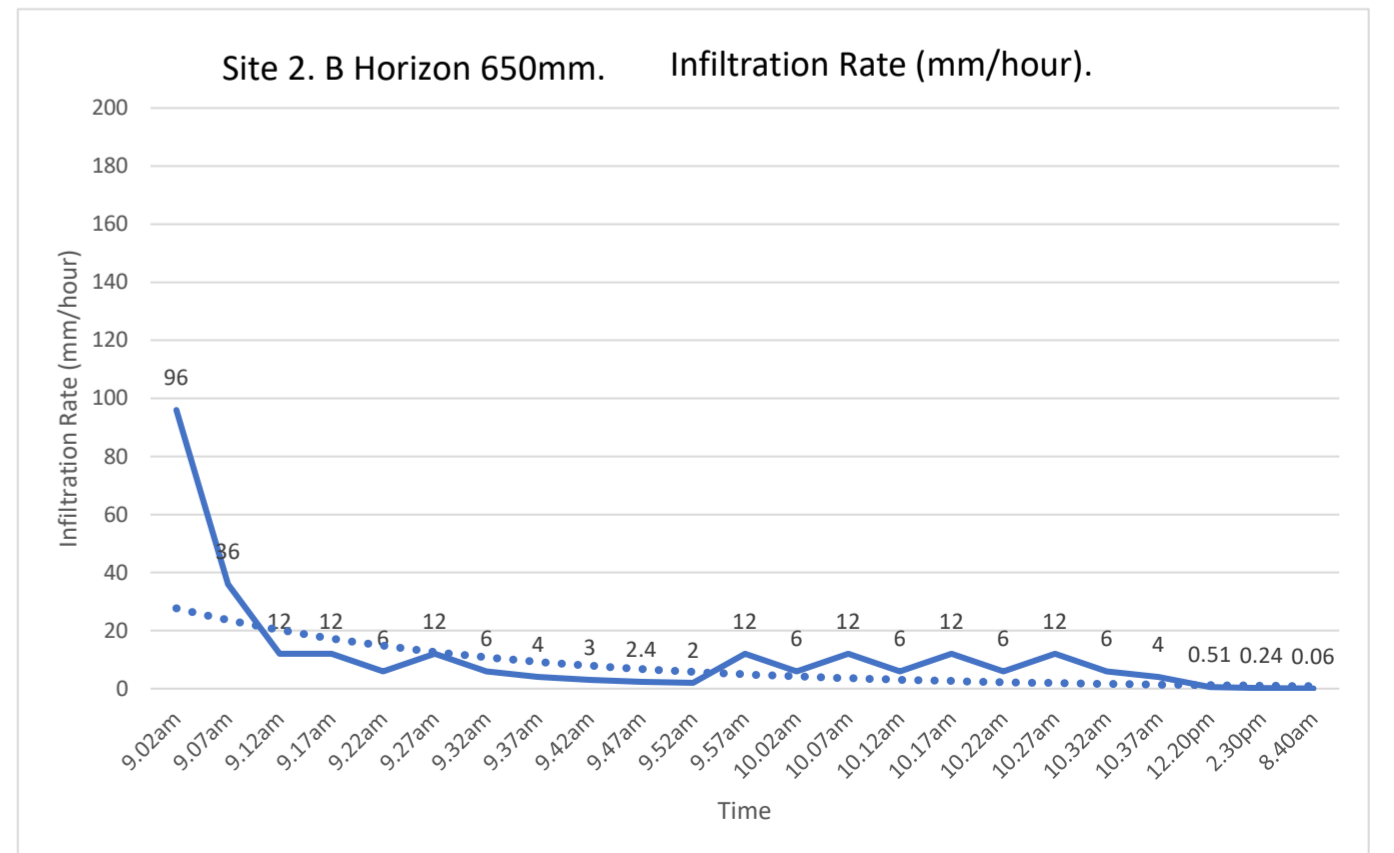
Data for Graphing:

TIME	Infiltration Rate (mm/hour)
9.00am	180
9.05am	276
9.10am	192
9.15am	240
9.20am	192
9.25am	240
9.30am	228
9.35am	168
9.40am	156
9.45am	228
9.50am	204
9.55am	180
10.00am	252
10.05am	216
10.10am	192
10.15am	192
10.20am	228
10.25am	192
10.30am	168
10.35am	168
10.40am	144



Data for Graphing:

TIME	Infiltration Rate (mm/hour)
9.02am	96
9.07am	36
9.12am	12
9.17am	12
9.22am	6
9.27am	12
9.32am	6
9.37am	4
9.42am	3
9.47am	2.4
9.52am	2
9.57am	12
10.02am	6
10.07am	12
10.12am	6
10.17am	12
10.22am	6
10.27am	12
10.32am	6
10.37am	4
12.20pm	0.51
2.30pm	0.24
8.40am	0.06



**KALBAR OPERATIONS - FINGERBOARDS PROJECT.
INFILTRATION TESTING.**

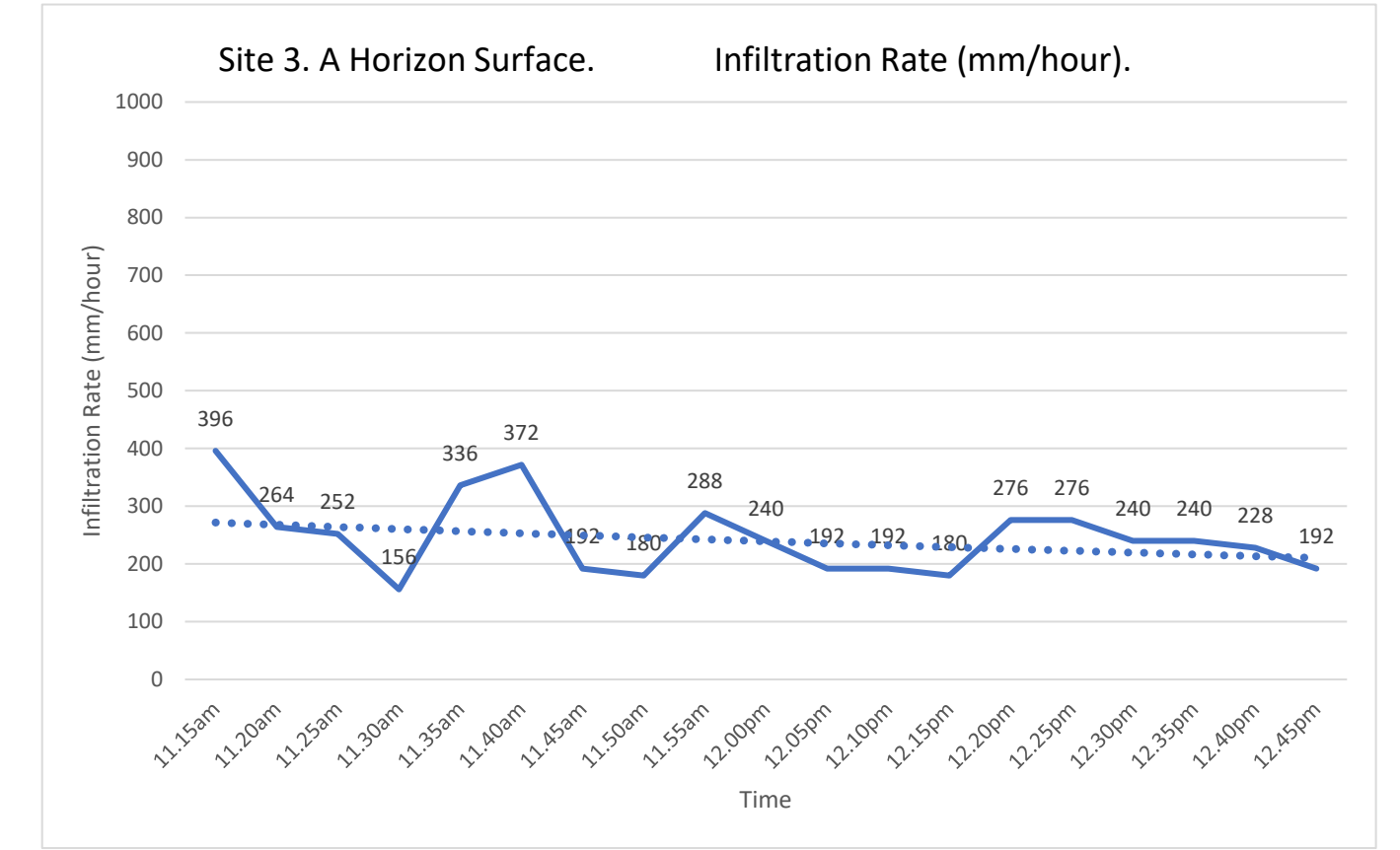
DATE: 25/11/2020
 SESW SITE NO: Site 3. A Horizon Surface
 KALBAR SITE NO: Kalbar Grassy Woodland Plateau S11
 ASSESSOR: Christian Bannan, SESW.
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

GPS COORDINATES
 ZONE: 55H
 GPS EASTING: 527691
 GPS NORTHING: 5817176

TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)
11.10am	Start	55	0	0	0	
11.15am		88	33	5	6.6	396
11.20am		110	22	5	4.4	264
11.25am		131	21	5	4.2	252
11.30am		144	13	5	2.6	156
	Refill	22	0	0	0	0
11.35am		50	28	5	5.6	336
11.40am		81	31	5	6.2	372
11.45am		97	16	5	3.2	192
11.50am		112	15	5	3.0	180
11.55am		136	24	5	4.8	288
12.00pm		156	20	5	4.0	240
12.05pm		172	16	5	3.2	192
12.10pm		188	16	5	3.2	192
12.15pm		203	15	5	3.0	180
	Refill	21	0	0	0	0
12.20pm		44	23	5	4.6	276
12.25pm		67	23	5	4.6	276
12.30pm		87	20	5	4.0	240
12.35pm		107	20	5	4.0	240
12.40pm		126	19	5	3.8	228
12.45pm		142	16	5	3.2	192
Total water infiltrated into profile (mm):			391			
Total Time Elapsed (hours):			1.58			

Data for Graphing:

TIME	Infiltration Rate (mm/hour)
11.15am	396
11.20am	264
11.25am	252
11.30am	156
11.35am	336
11.40am	372
11.45am	192
11.50am	180
11.55am	288
12.00pm	240
12.05pm	192
12.10pm	192
12.15pm	180
12.20pm	276
12.25pm	276
12.30pm	240
12.35pm	240
12.40pm	228
12.45pm	192



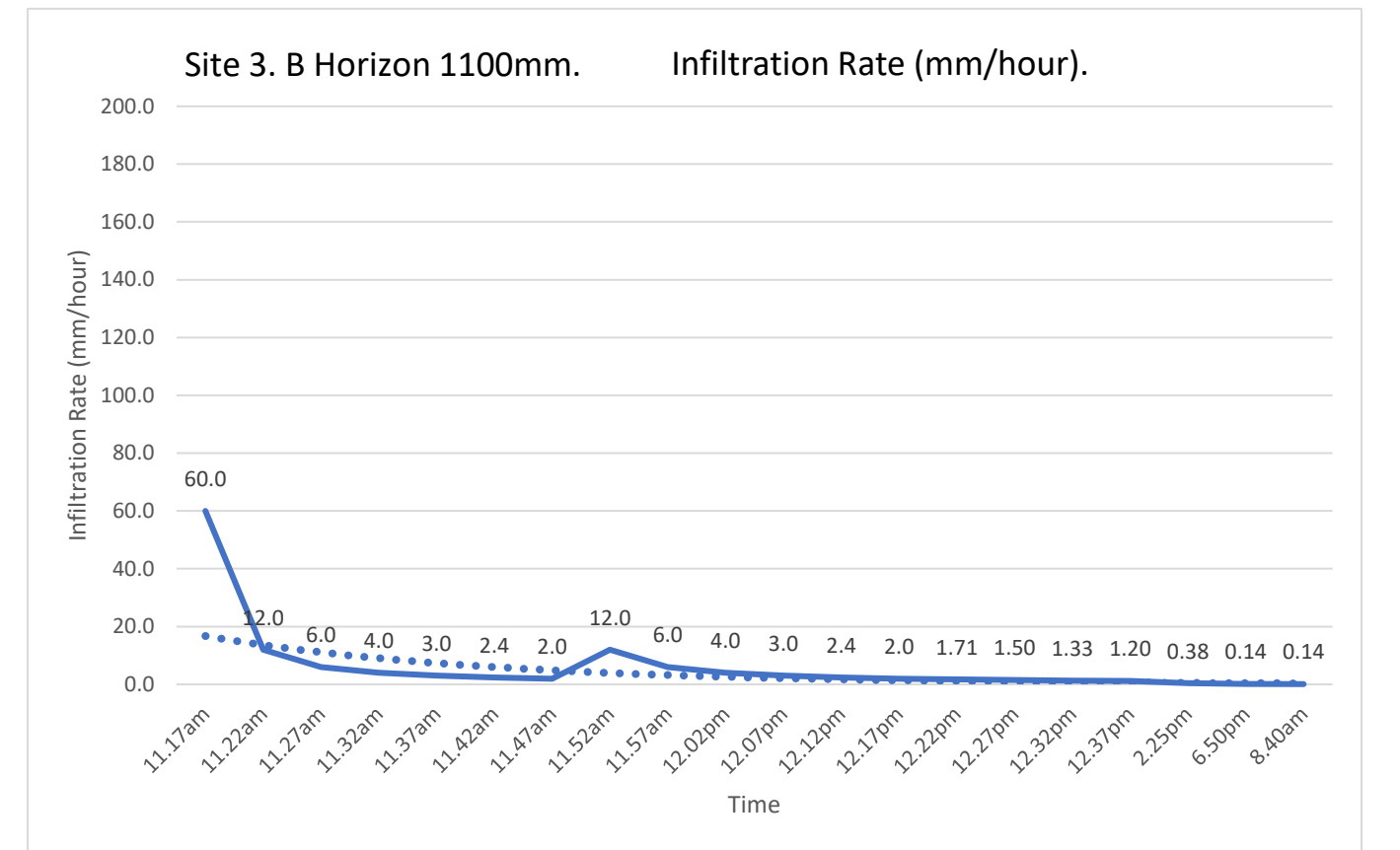
DATE: 25/11/2020
 SESW SITE NO: Site 3. B1 Horizon 1100mm
 KALBAR SITE NO: Kalbar Grassy Woodland Plateau S11
 ASSESSOR: Christian Bannan, SESW.
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

GPS COORDINATES
 ZONE: 55H
 GPS EASTING: 527691
 GPS NORTHING: 5817176

TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)
11.12am	Start	8	0	0	0	
11.17am		13	5	5	1.000	60.0
11.22am		14	1	5	0.200	12.0
11.27am		14	0	5	0.100	6.0
11.32am		14	0	5	0.067	4.0
11.37am		14	0	5	0.050	3.0
11.42am		14	0	5	0.040	2.4
11.47am		14	0	5	0.033	2.0
11.52am		15	1	5	0.200	12.0
11.57am		15	0	5	0.100	6.0
12.02pm		15	0	5	0.067	4.0
12.07pm		15	0	5	0.050	3.0
12.12pm		15	0	5	0.040	2.4
12.17pm		15	0	5	0.033	2.0
12.22pm		15	0	5	0.029	1.71
12.27pm		15	0	5	0.025	1.50
12.32pm		15	0	5	0.022	1.33
12.37pm		15	0	5	0.020	1.20
2.25pm		15	0	108	0.006	0.38
6.50pm		15	0	265	0.002	0.14
8.40am		17	2	830	0.002	0.14
Total water infiltrated into profile (mm):			9			
Total Time Elapsed (hours):			21.5			

Data for Graphing:

TIME	Infiltration Rate (mm/hour)
11.17am	60.0
11.22am	12.0
11.27am	6.0
11.32am	4.0
11.37am	3.0
11.42am	2.4
11.47am	2.0
11.52am	12.0
11.57am	6.0
12.02pm	4.0
12.07pm	3.0
12.12pm	2.4
12.17pm	2.0
12.22pm	1.71
12.27pm	1.50
12.32pm	1.33
12.37pm	1.20
2.25pm	0.38
6.50pm	0.14
8.40am	0.14

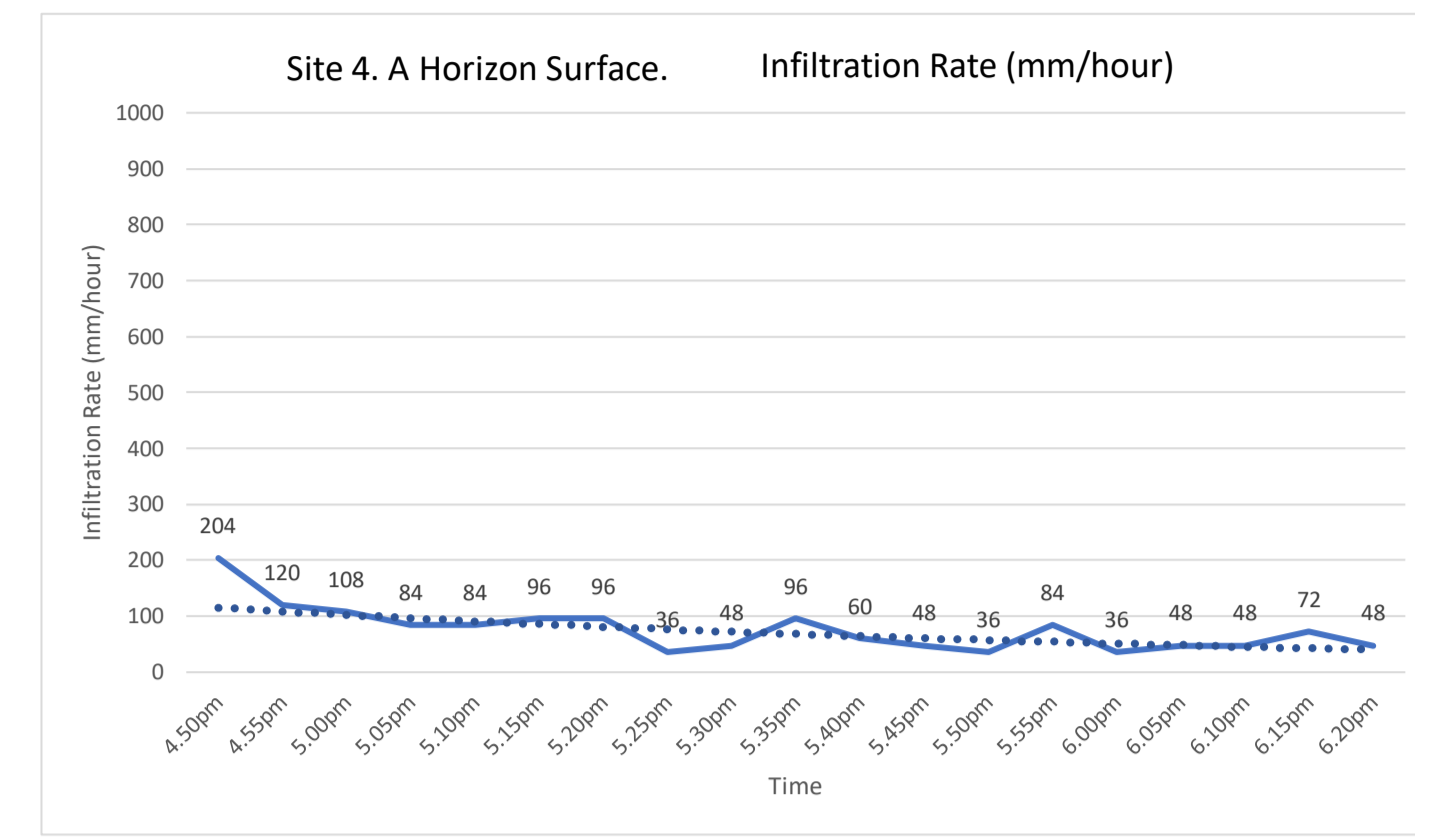


**KALBAR OPERATIONS - FINGERBOARDS PROJECT.
INFILTRATION TESTING.**

DATE: 25/11/2020 GPS COORDINATES
 SESW SITE NO: Site 4. A Horizon Surface ZONE: 55H
 KALBAR SITE NO: Kalbar Grassy Woodland Plateau S4 GPS EASTING: 528273
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5816444
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

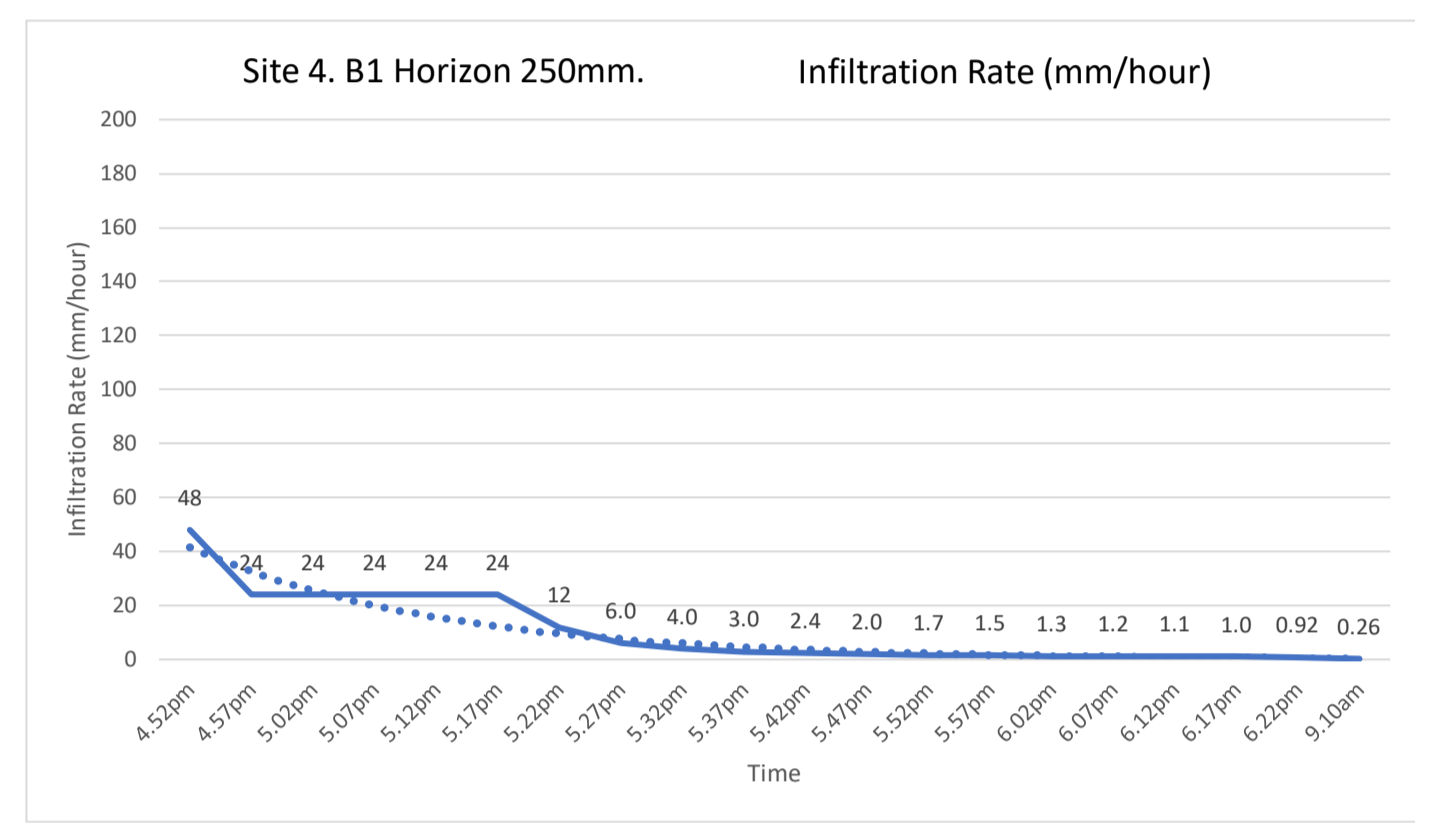
TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
4.45pm	Start	20	0	0			4.50pm	204
4.50pm		37	17	5	3.4	204	4.55pm	120
4.55pm		47	10	5	2.0	108	5.00pm	84
5.00pm		56	9	5	1.8	108	5.05pm	84
5.05pm		63	7	5	1.4	84	5.10pm	84
5.10pm		70	7	5	1.4	84	5.15pm	96
5.15pm		78	8	5	1.6	96	5.20pm	96
5.20pm		86	8	5	1.6	96	5.25pm	36
5.25pm		89	3	5	0.6	36	5.30pm	48
5.30pm		93	4	5	0.8	48	5.35pm	96
5.35pm		101	8	5	1.6	96	5.40pm	60
5.40pm		106	5	5	1.0	60	5.45pm	48
5.45pm		110	4	5	0.8	48	5.50pm	36
5.50pm		113	3	5	0.6	36	5.55pm	84
5.55pm		120	7	5	1.4	84	6.00pm	36
6.00pm		123	3	5	0.6	36	6.05pm	48
6.05pm		127	4	5	0.8	48	6.10pm	48
6.10pm		131	4	5	0.8	48	6.15pm	72
6.15pm		137	6	5	1.2	72	6.20pm	48
6.20pm		141	4	5	0.8	48		
Total water infiltrated into profile (mm):			121	95				
Total Time Elapsed (hours):			1.58					



DATE: 25/11/2020 GPS COORDINATES
 SESW SITE NO: Site 4. B1 horizon 250mm. ZONE: 55H
 KALBAR SITE NO: Kalbar Grassy Woodland Plateau S4 GPS EASTING: 528273
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5816444
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
4.47pm	Start	28	0	0			4.52pm	48
4.52pm		32	4	5	0.800	48.0	4.57pm	24
4.57pm		34	2	5	0.400	24.0	5.02pm	24
5.02pm		36	2	5	0.400	24.0	5.07pm	24
5.07pm		38	2	5	0.400	24.0	5.12pm	24
5.12pm		40	2	5	0.400	24.0	5.17pm	24
5.17pm		42	2	5	0.400	24.0	5.22pm	12
5.22pm		43	1	5	0.200	12.0	5.27pm	6.0
5.27pm		43	0	5	0.100	6.0	5.32pm	4.0
5.32pm		43	0	5	0.067	4.0	5.37pm	3.0
5.37pm		43	0	5	0.050	3.0	5.42pm	2.4
5.42pm		43	0	5	0.040	2.4	5.47pm	2.0
5.47pm		43	0	5	0.033	2.0	5.52pm	1.7
5.52pm		43	0	5	0.029	1.7	5.57pm	1.5
5.57pm		43	0	5	0.025	1.5	6.02pm	1.3
6.02pm		43	0	5	0.022	1.3	6.07pm	1.2
6.07pm		43	0	5	0.020	1.2	6.12pm	1.1
6.12pm		43	0	5	0.018	1.1	6.17pm	1.0
6.17pm		43	0	5	0.017	1.0	6.22pm	0.92
6.22pm		43	0	5	0.015	0.9	9.10am	0.26
9.10am		43	0	168	0.004	0.3		
Total water infiltrated into profile (mm):			15	263				
Total Time Elapsed (hours):			4.38					

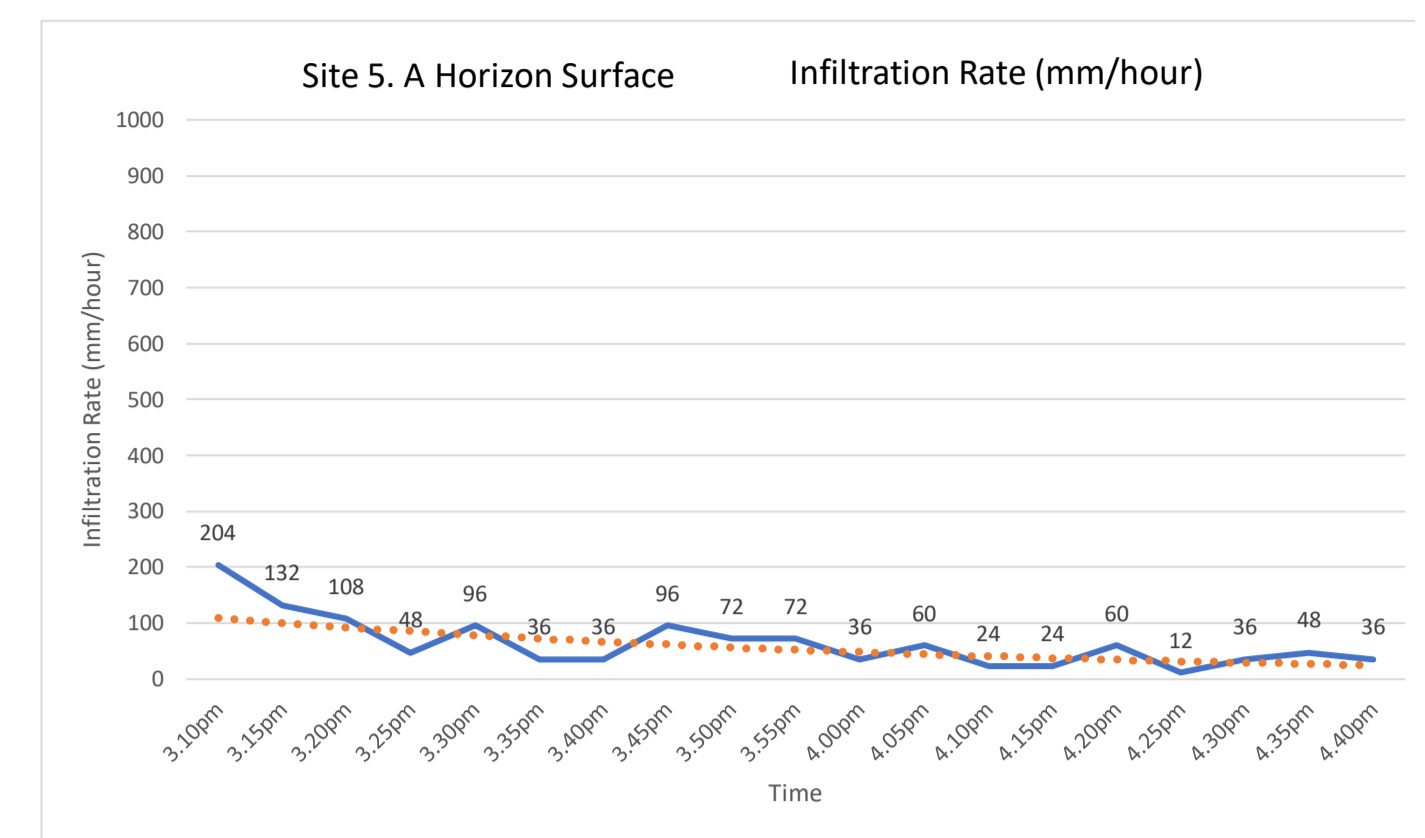


**KALBAR OPERATIONS - FINGERBOARDS PROJECT.
INFILTRATION TESTING.**

DATE: 25/11/2020 GPS COORDINATES
 SESW SITE NO: Site 5. A Horizon Surface ZONE: 55H
 KALBAR SITE NO: Kalbar Grassy Woodland Plateau S12 GPS EASTING: 527039
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5816323
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

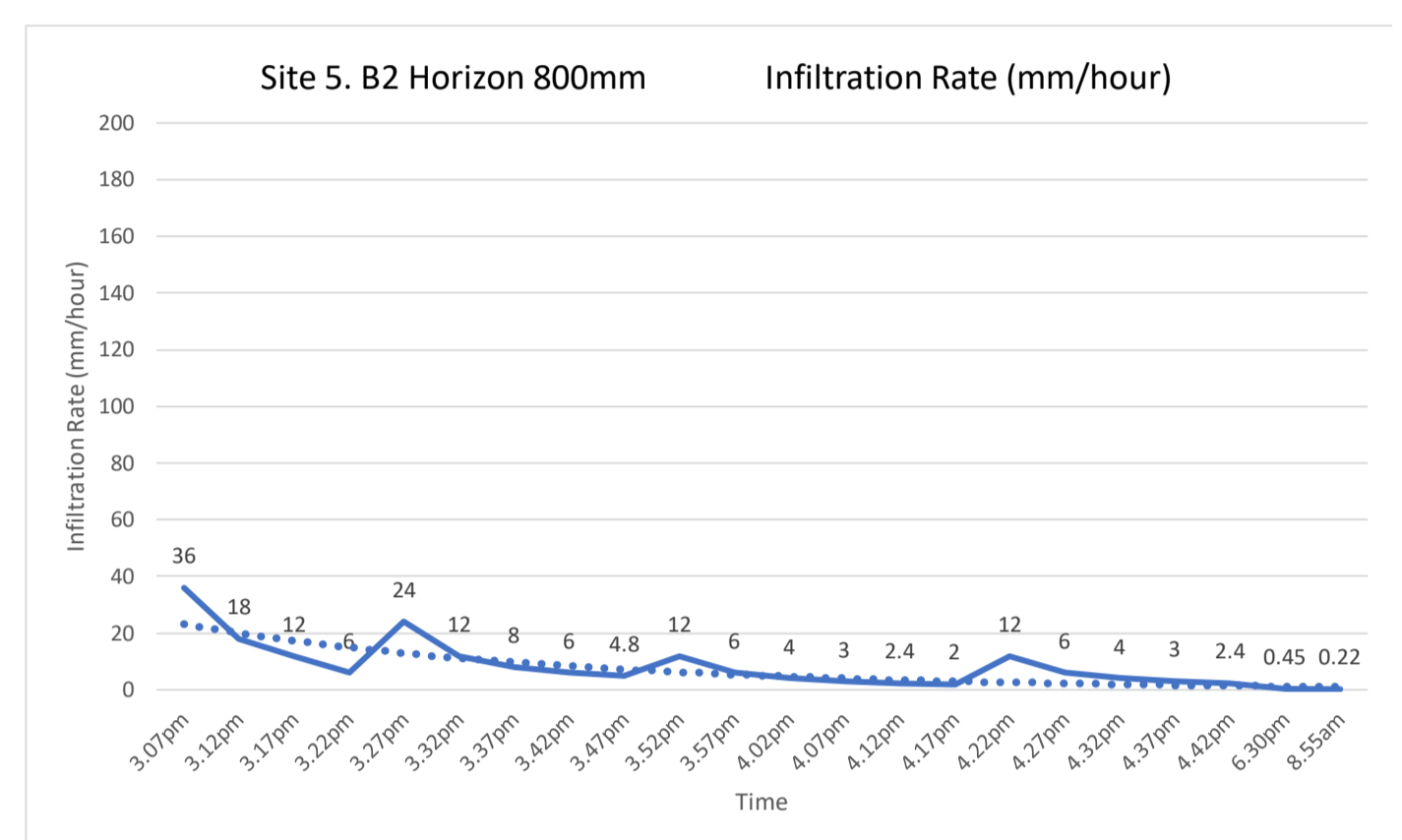
TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
3:05pm	Start	23	0	0			3:10pm	204
3:10pm		40	17	5	3.4	204	3:15pm	132
3:15pm		51	11	5	2.2	132	3:20pm	108
3:20pm		60	9	5	1.8	108	3:25pm	48
3:25pm		64	4	5	0.8	48	3:30pm	96
3:30pm		72	8	5	1.6	96	3:35pm	36
3:35pm		75	3	5	0.6	36	3:40pm	36
3:40pm		78	3	5	0.6	36	3:45pm	96
3:45pm		86	8	5	1.6	96	3:50pm	72
3:50pm		92	6	5	1.2	72	3:55pm	72
3:55pm		98	6	5	1.2	72	4:00pm	36
4:00pm		101	3	5	0.6	36	4:05pm	60
4:05pm		106	5	5	1.0	60	4:10pm	24
4:10pm		108	2	5	0.4	24	4:15pm	24
4:15pm		110	2	5	0.4	24	4:20pm	60
4:20pm		115	5	5	1.0	60	4:25pm	12
4:25pm		116	1	5	0.2	12	4:30pm	36
4:30pm		119	3	5	0.6	36	4:35pm	48
4:35pm		123	4	5	0.8	48	4:40pm	36
4:40pm		126	3	5	0.6	36		
Total water infiltrated into profile (mm):			103					
Total Time Elapsed (hours):			1.58					



DATE: 25/11/2020 GPS COORDINATES
 SESW SITE NO: Site 5. B2 horizon 800mm. ZONE: 55H
 KALBAR SITE NO: Kalbar Grassy Woodland Plateau S12 GPS EASTING: 527039
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5816323
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
3:02pm	Start	28	0	0			3:07pm	36
3:07pm		31	3	5	0.6	36	3:12pm	18
3:12pm		31	0	5	0.300	18	3:17pm	12
3:17pm		32	1	5	0.2	12	3:22pm	6
3:22pm		32	0	5	0.100	6	3:27pm	24
3:27pm		34	2	5	0.4	24	3:32pm	12
3:32pm		34	0	5	0.200	12	3:37pm	8
3:37pm		34	0	5	0.133	8	3:42pm	6
3:42pm		34	0	5	0.100	6	3:47pm	4.8
3:47pm		34	0	5	0.080	4.8	3:52pm	12
3:52pm		35	1	5	0.2	12	3:57pm	6
3:57pm		35	0	5	0.100	6	4:02pm	4
4:02pm		35	0	5	0.067	4	4:07pm	3
4:07pm		35	0	5	0.050	3	4:12pm	2.4
4:12pm		35	0	5	0.040	2.4	4:17pm	2
4:17pm		35	0	5	0.033	2	4:22pm	12
4:22pm		36	1	5	0.2	12	4:27pm	6
4:27pm		36	0	5	0.100	6	4:32pm	4
4:32pm		36	0	5	0.067	4	4:37pm	3
4:37pm		36	0	5	0.050	3	4:42pm	2.4
4:42pm		36	0	5	0.040	2.4	6:30pm	0.45
6:30pm		36	0	108	0.008	0.5	8:55am	0.22
8:55am		36	0	145	0.004	0.2		
Total water infiltrated into profile (mm):			8					
Total Time Elapsed (hours):			5.88					

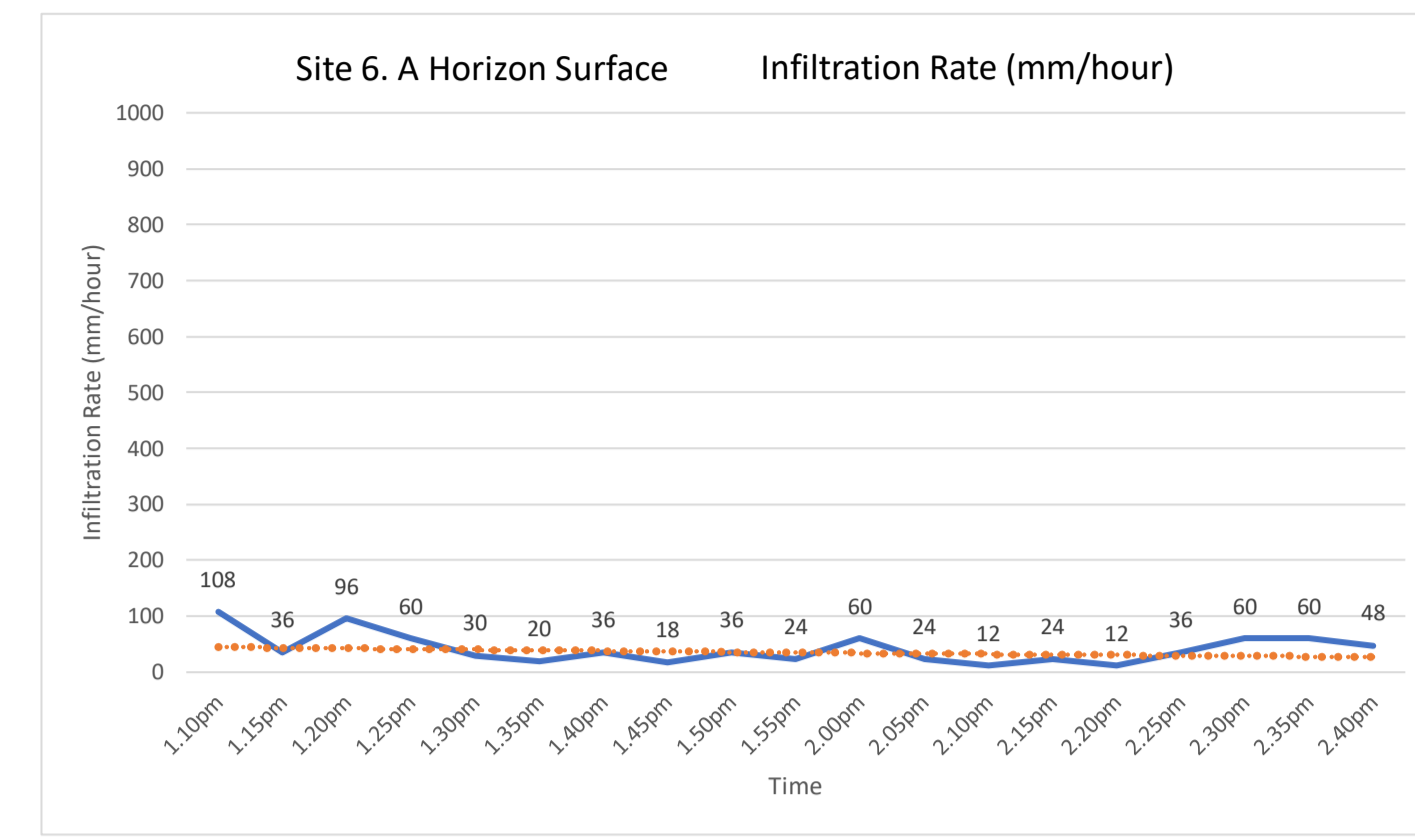


**KALBAR OPERATIONS - FINGERBOARDS PROJECT.
INFILTRATION TESTING.**

DATE: 25/11/2020 GPS COORDINATES
 SESW SITE NO: Site 6. A Horizon Surface ZONE: 55H
 KALBAR SITE NO: Kalbar Grassy Woodland Plateau S14 GPS EASTING: 527063
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5817032
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

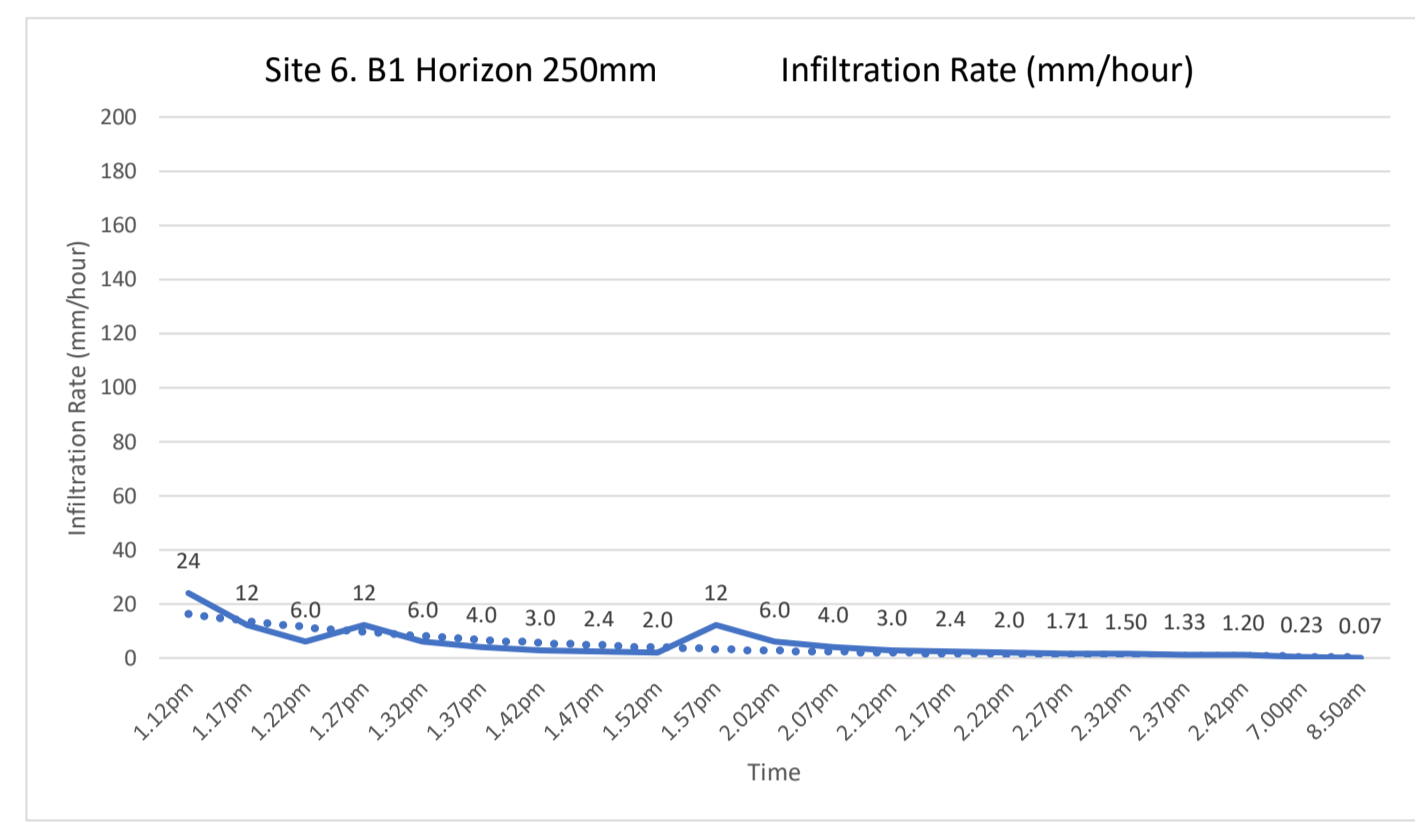
TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
1.05pm	Start	92	0	0			1.10pm	108
1.09pm		101	9	5	1.8	108	1.15pm	36
1.15pm		104	3	5	0.6	36	1.20pm	96
1.20pm		112	8	5	1.6	96	1.25pm	60
1.25pm		117	5	5	1.0	60	1.30pm	30
1.30pm		117	0	5	0.5	30	1.35pm	20
1.35pm		117	0	5	0.3	20	1.40pm	36
1.40pm		120	3	5	0.6	36	1.45pm	18
1.45pm		120	0	5	0.3	18	1.50pm	36
1.50pm		123	3	5	0.6	36	1.55pm	24
1.55pm		125	2	5	0.4	24	2.00pm	60
2.00pm		130	5	5	1.0	60	2.05pm	24
2.05pm		132	2	5	0.4	24	2.10pm	12
2.10pm		132	0	5	0.2	12	2.15pm	24
2.15pm		134	2	5	0.4	24	2.20pm	12
2.20pm		134	0	5	0.2	12	2.25pm	36
2.25pm		137	3	5	0.6	36	2.30pm	60
2.30pm		142	5	5	1.0	60	2.35pm	60
2.35pm		147	5	5	1.0	60	2.40pm	48
2.40pm		151	4	5	0.8	48		
Total water infiltrated into profile (mm):			59					
Total Time Elapsed (hours):			1.58					



DATE: 25/11/2020 GPS COORDINATES
 SESW SITE NO: Site 6. B1 Horizon 250mm ZONE: 55H
 KALBAR SITE NO: Kalbar Grassy Woodland Plateau S14 GPS EASTING: 527063
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5817032
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
1.07pm	Start	18	0	0			1.12pm	24
1.12pm		20	2	5	0.400	24.00	1.17pm	12
1.17pm		21	1	5	0.200	12.00	1.22pm	6.0
1.22pm		21	0	5	0.100	6.00	1.27pm	12
1.27pm		22	1	5	0.200	12.00	1.32pm	6.0
1.32pm		22	0	5	0.100	6.00	1.37pm	4.0
1.37pm		22	0	5	0.067	4.00	1.42pm	3.0
1.42pm		22	0	5	0.050	3.00	1.47pm	2.4
1.47pm		22	0	5	0.040	2.40	1.52pm	2.0
1.52pm		22	0	5	0.033	2.00	1.57pm	12
1.57pm		23	1	5	0.200	12.00	2.02pm	6.0
2.02pm		23	0	5	0.100	6.00	2.07pm	4.0
2.07pm		23	0	5	0.067	4.00	2.12pm	3.0
2.12pm		23	0	5	0.050	3.00	2.17pm	2.4
2.17pm		23	0	5	0.040	2.40	2.22pm	2.0
2.22pm		23	0	5	0.033	2.00	2.27pm	1.71
2.27pm		23	0	5	0.029	1.71	2.32pm	1.50
2.32pm		23	0	5	0.025	1.50	2.37pm	1.33
2.37pm		23	0	5	0.022	1.33	2.42pm	1.20
2.42pm		23	0	5	0.020	1.20	7.00pm	0.23
7.00pm		24	1	258	0.004	0.23	8.50am	0.07
8.50am		25	1	830	0.001	0.07		
Total water infiltrated into profile (mm):			7					
Total Time Elapsed (hours):			19.72					

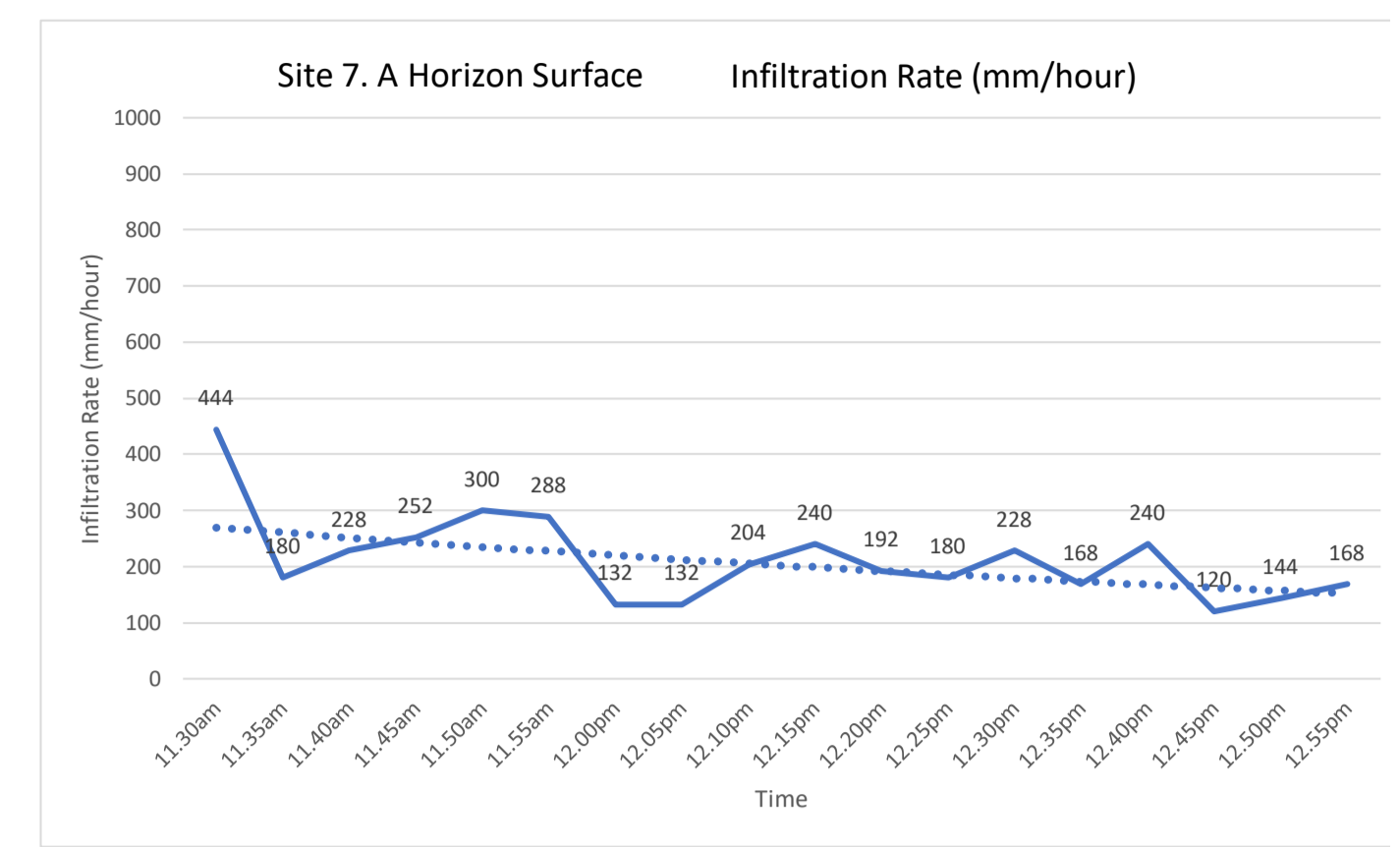


**KALBAR OPERATIONS - FINGERBOARDS PROJECT.
INFILTRATION TESTING.**

DATE: 26/11/2020 GPS COORDINATES
 SESW SITE NO: Site 7. A Horizon Surface ZONE: 55H
 KALBAR SITE NO: McMahon Plateau Grazing S1 GPS EASTING: 530645
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5817084
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

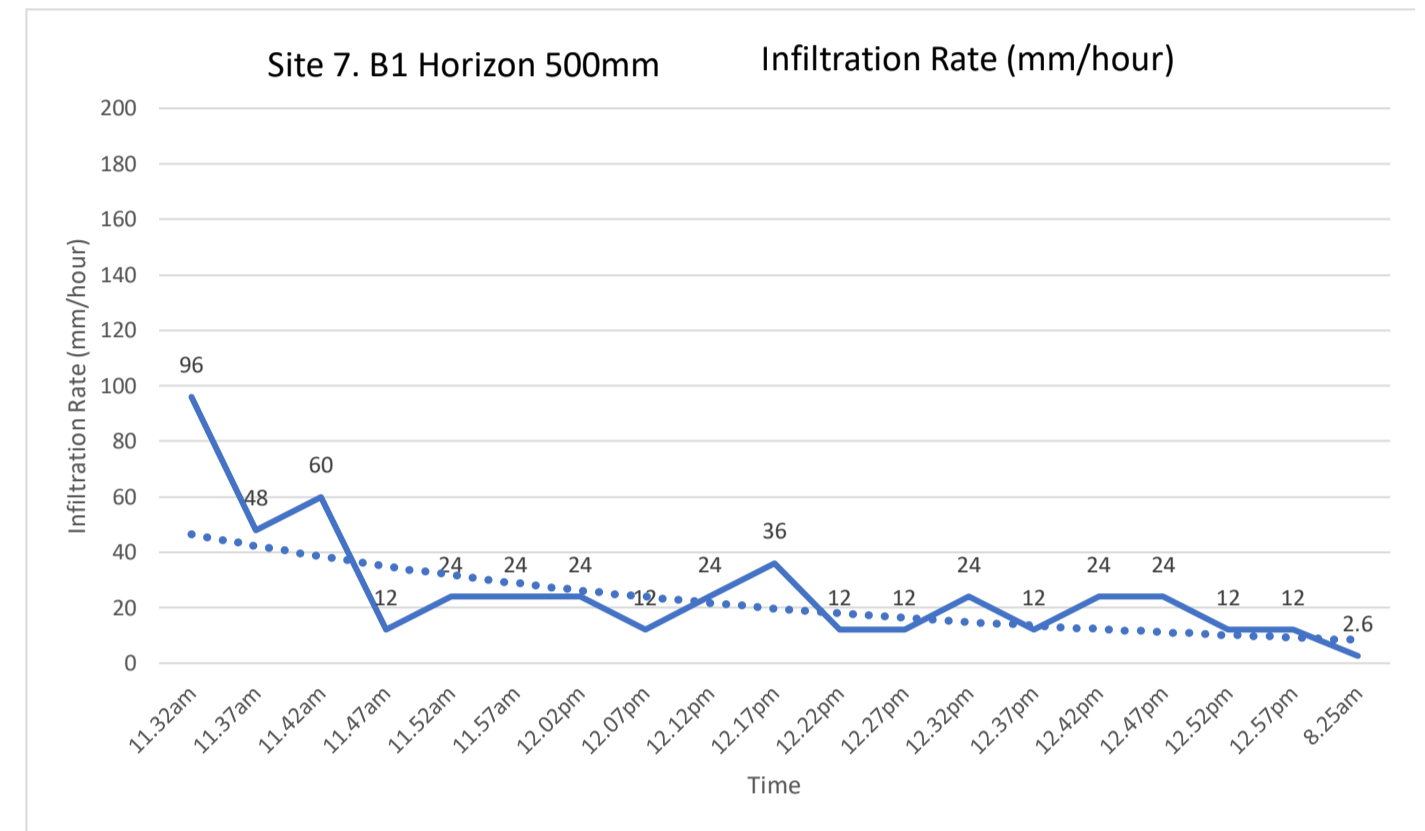
TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
11.25am	Start	30	0	0			11.30am	444
11.30am		67	37	5	7.4	444	11.35am	180
11.35am		82	15	5	3.0	180	11.40am	228
11.40am		101	19	5	3.8	228	11.45am	252
11.45am		122	21	5	4.2	252	11.50am	300
11.50am		147	25	5	5.0	300	11.55am	288
11.55am		171	24	5	4.8	288	12.00pm	132
12.00pm		182	11	5	2.2	132	12.05pm	132
12.05pm		193	11	5	2.2	132	12.10pm	204
12.10pm		210	17	5	3.4	204	12.15pm	240
12.15pm	Refill	105	0	0	0	0	12.20pm	192
12.20pm		125	20	5	4.0	240	12.25pm	180
12.25pm		141	16	5	3.2	192	12.30pm	228
12.30pm		156	15	5	3.0	180	12.35pm	168
12.35pm		175	19	5	3.8	228	12.40pm	240
12.40pm		189	14	5	2.8	168	12.45pm	120
12.45pm		209	20	5	4.0	240	12.50pm	144
12.50pm		219	10	5	2.0	120	12.55pm	168
12.55pm		231	12	5	2.4	144		
		245	14	5	2.8	168		
Total water infiltrated into profile (mm):			320					
Total Time Elapsed (hours):			1.50					



DATE: 26/11/2020 GPS COORDINATES
 SESW SITE NO: Site 7. B1 Horizon 500mm ZONE: 55H
 KALBAR SITE NO: McMahon Plateau Grazing S1 GPS EASTING: 530645
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5817084
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
11.27am	Start	20	0	0			11.32am	96
11.32am		28	8	5	1.6	96	11.37am	48
11.37am		32	4	5	0.8	48	11.42am	60
11.42am		37	5	5	1.0	60	11.47am	12
11.47am		38	1	5	0.2	12	11.52am	24
11.52am		40	2	5	0.4	24	11.57am	24
11.57am		42	2	5	0.4	24	12.02pm	24
12.02pm		44	2	5	0.4	24	12.07pm	12
12.07pm		45	1	5	0.2	12	12.12pm	24
12.12pm		47	2	5	0.4	24	12.17pm	36
12.17pm		50	3	5	0.6	36	12.22pm	12
12.22pm		51	1	5	0.2	12	12.27pm	12
12.27pm		52	1	5	0.2	12	12.32pm	24
12.32pm		54	2	5	0.4	24	12.37pm	12
12.37pm		54	0	5	0.2	12	12.42pm	24
12.42pm		56	2	5	0.4	24	12.47pm	24
12.47pm		58	2	5	0.4	24	12.52pm	12
12.52pm		58	0	5	0.2	12	12.57pm	12
12.57pm		59	1	5	0.2	12	8.25am	2.6
8.25am		110	51	1168	0.04	2.6		
Total water infiltrated into profile (mm):			90					
Total Time Elapsed (hours):			20.97					

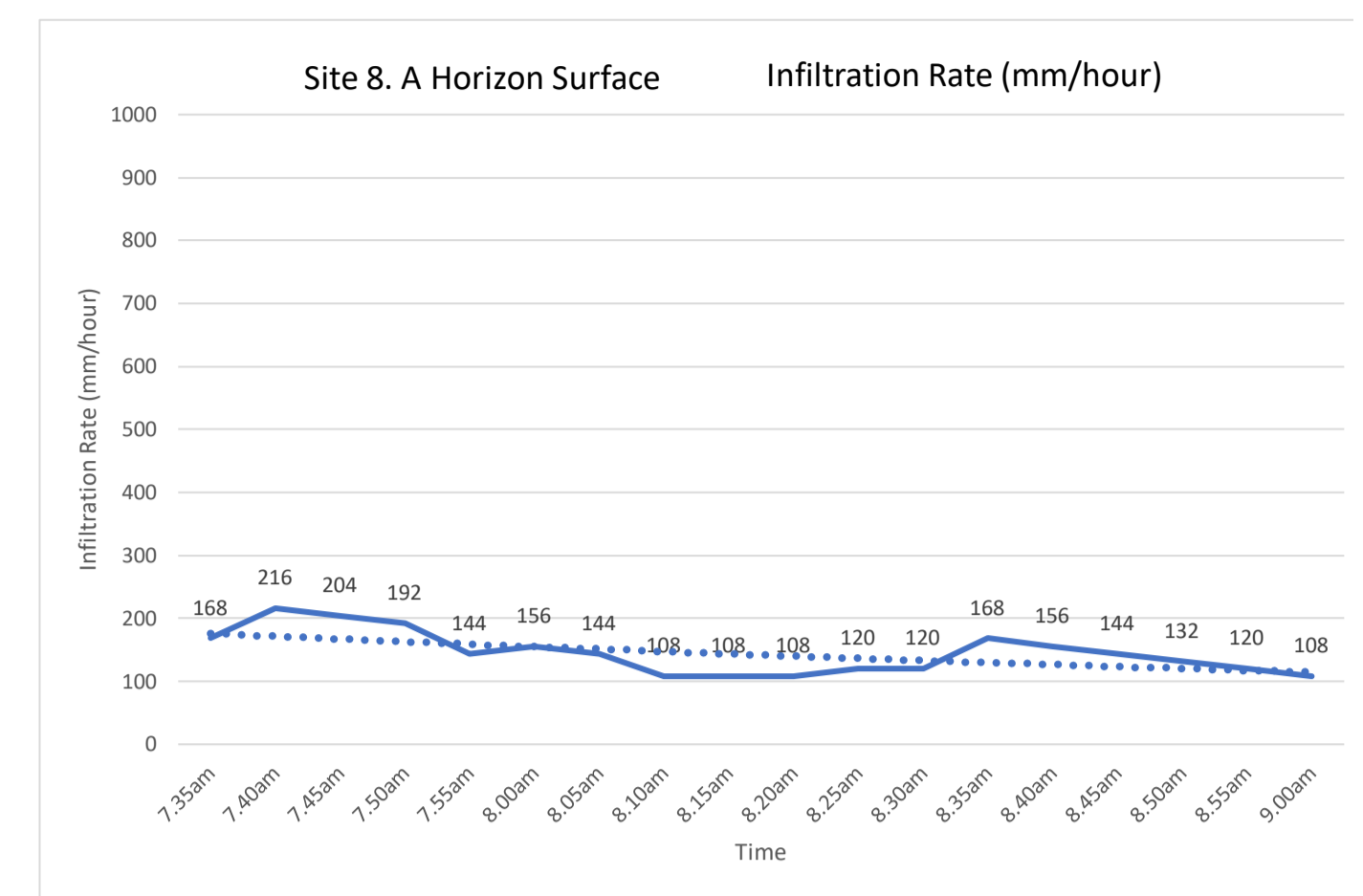


**KALBAR OPERATIONS - FINGERBOARDS PROJECT.
INFILTRATION TESTING.**

DATE: 26/11/2020 GPS COORDINATES
 SESW SITE NO: Site 8. A Horizon Surface ZONE: 55H
 KALBAR SITE NO: McMahon Plateau Grazing S2 GPS EASTING: 530679
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5816793
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

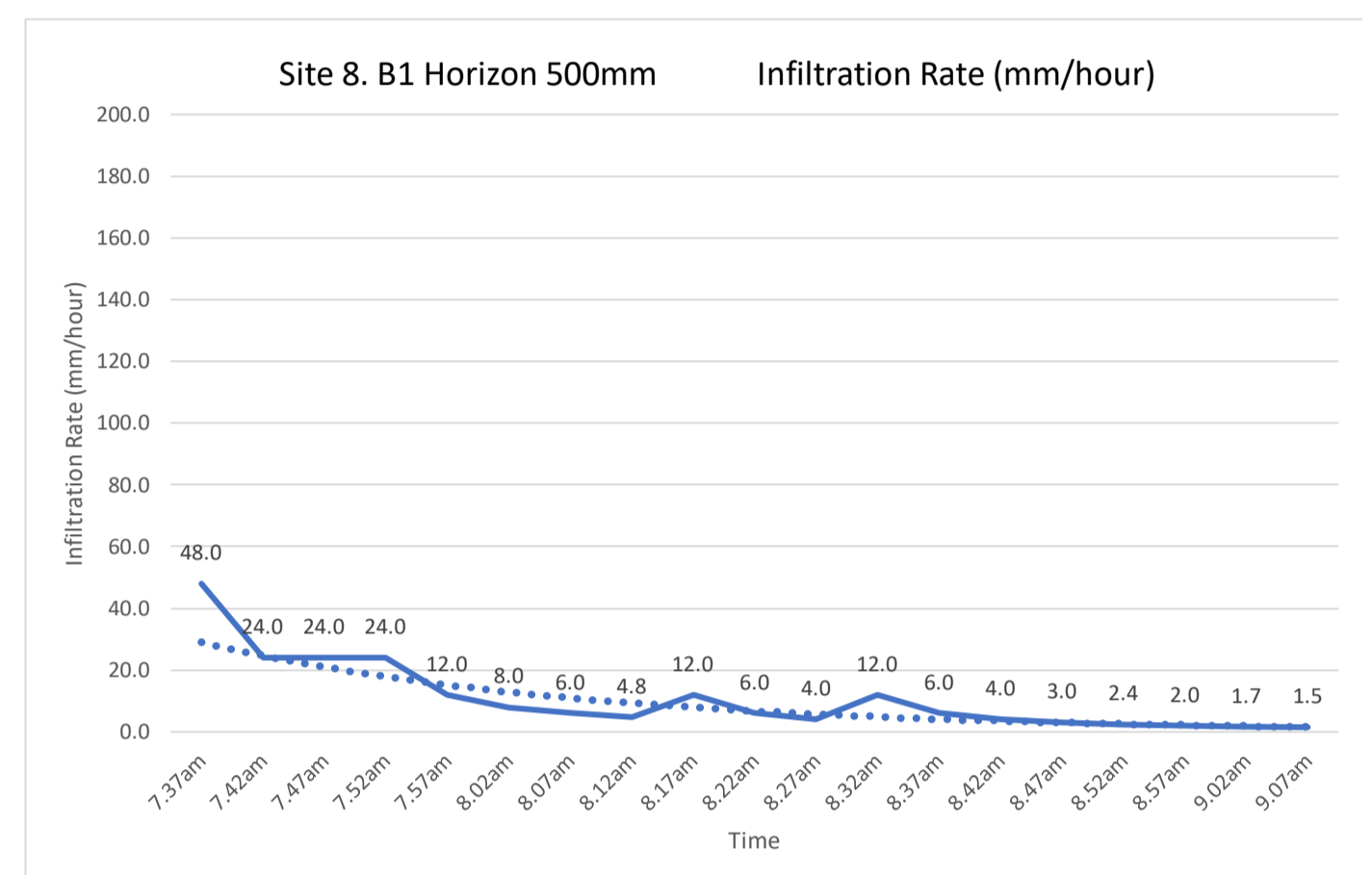
TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
7:30am	Start	27	0	0			7:35am	168
7:35am		41	14	5	2.8	168	7:40am	216
7:40am		59	18	5	3.6	216	7:45am	204
7:45am		76	17	5	3.4	204	7:50am	192
7:50am		92	16	5	3.2	192	7:55am	144
7:55am		104	12	5	2.4	144	8:00am	156
8:00am		117	13	5	2.6	156	8:05am	144
8:05am		129	12	5	2.4	144	8:10am	108
8:10am		138	9	5	1.8	108	8:15am	108
8:15am		147	9	5	1.8	108	8:20am	108
8:20am		156	9	5	1.8	108	8:25am	120
8:25am		166	10	5	2.0	120	8:30am	120
8:30am		176	10	5	2.0	120	8:35am	168
	Refill	33	0	0	0	0	8:40am	156
8:35am		47	14	5	2.8	168	8:45am	144
8:40am		60	13	5	2.6	156	8:50am	132
8:45am		72	12	5	2.4	144	8:55am	120
8:50am		83	11	5	2.2	132	9:00am	108
8:55am		93	10	5	2.0	120		
9:00am		102	9	5	1.8	108		
Total water infiltrated into profile (mm):			218					
Total Time Elapsed (hours):			1.50					



DATE: 26/11/2020 GPS COORDINATES
 SESW SITE NO: Site 8. B1 Horizon 500mm ZONE: 55H
 KALBAR SITE NO: McMahon Plateau Grazing S2 GPS EASTING: 530679
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5816793
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
7:32am	Start	22	0	0			7:37am	48.0
7:37am		26	4	5	0.80	48.0	7:42am	24.0
7:42am		28	2	5	0.40	24.0	7:47am	24.0
7:47am		30	2	5	0.40	24.0	7:52am	24.0
7:52am		32	2	5	0.40	24.0	7:57am	12.0
7:57am		32	0	5	0.20	12.0	8:02am	8.0
8:02am		33	0	5	0.13	8.0	8:07am	6.0
8:07am		33	0	5	0.10	6.0	8:12am	4.8
8:12am		33	0	5	0.08	4.8	8:17am	12.0
8:17am		34	1	5	0.20	12.0	8:22am	6.0
8:22am		34	0	5	0.10	6.0	8:27am	4.0
8:27am		34	0	5	0.07	4.0	8:32am	12.0
8:32am		35	1	5	0.20	12.0	8:37am	6.0
8:37am		35	0	5	0.10	6.0	8:42am	4.0
8:42am		35	0	5	0.07	4.0	8:47am	3.0
8:47am		35	0	5	0.05	3.0	8:52am	2.4
8:52am		35	0	5	0.04	2.4	8:57am	2.0
8:57am		35	0	5	0.03	2.0	9:02am	1.7
9:02am		35	0	5	0.03	1.7	9:07am	1.5
9:07am		35	0	5	0.03	1.5		
Total water infiltrated into profile (mm):			12					
Total Time Elapsed (hours):			1.58					

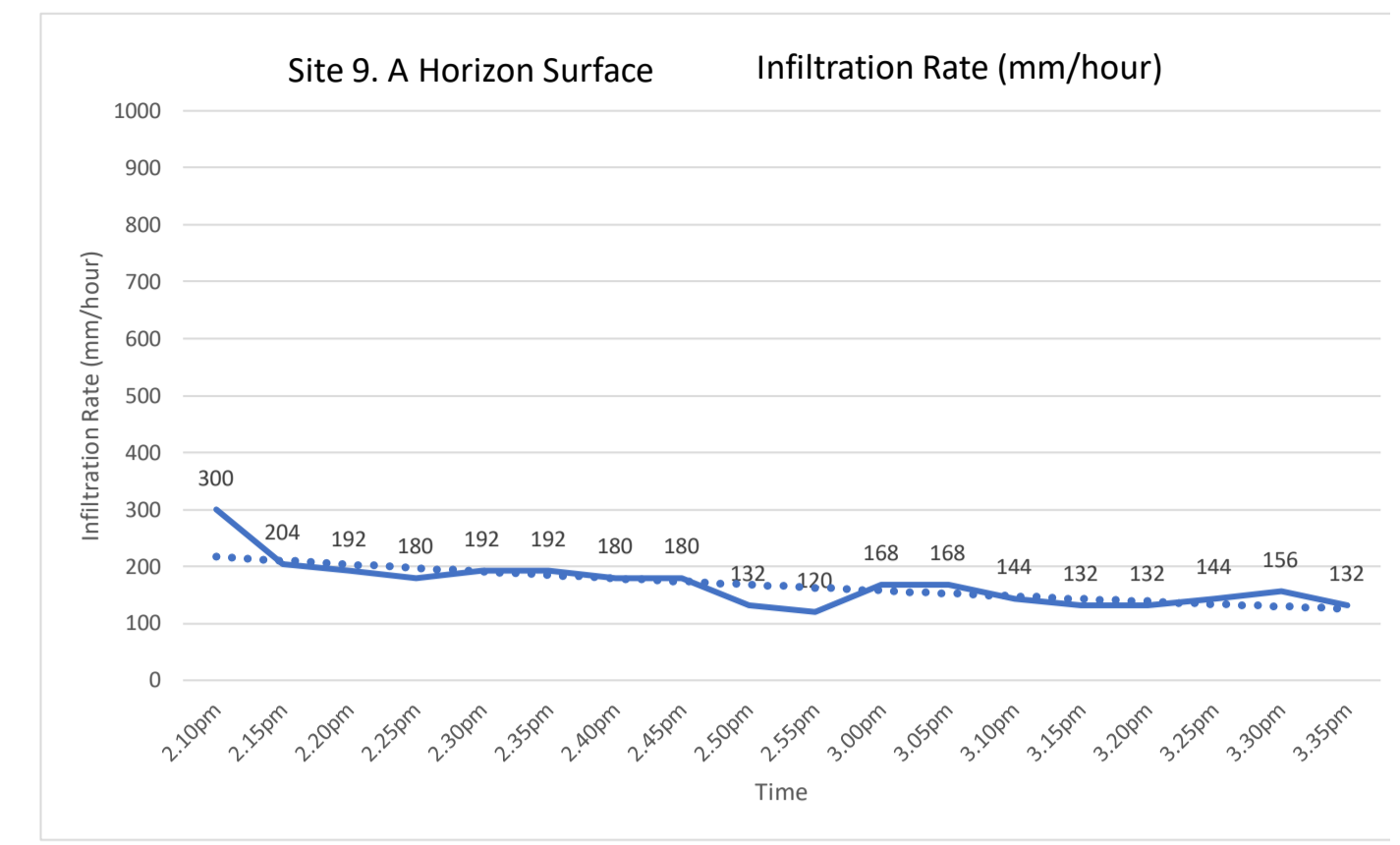


**KALBAR OPERATIONS - FINGERBOARDS PROJECT.
INFILTRATION TESTING.**

DATE: 26/11/2020 GPS COORDINATES
 SESW SITE NO: Site 9. A Horizon Surface ZONE: 55H
 KALBAR SITE NO: McMahon Plateau Grazing S4 GPS EASTING: 531002
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5817288
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

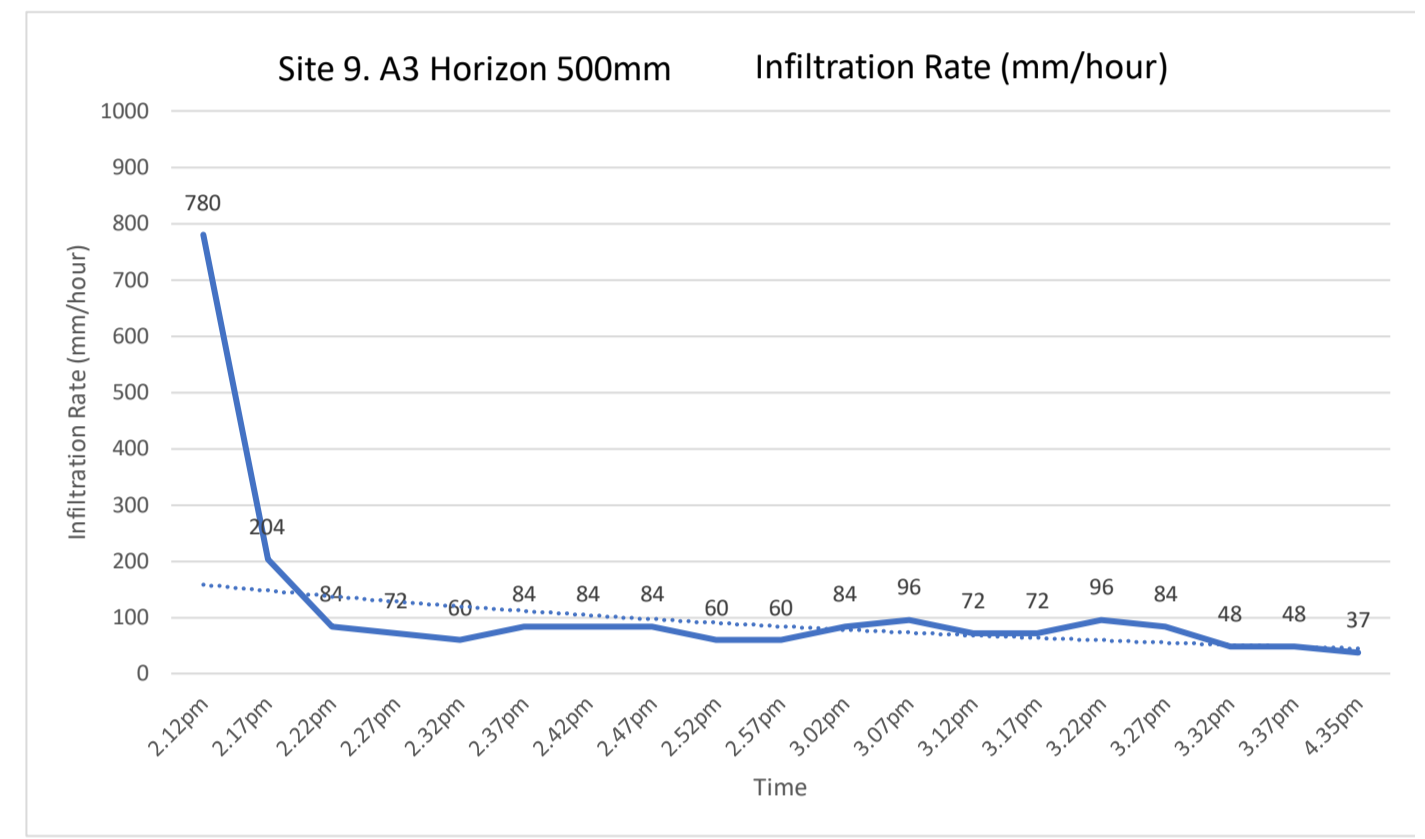
TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
2:05pm	Start	27	0	0			2:10pm	300
2:10pm		52	25	5	5.0	300	2:15pm	204
2:15pm		69	17	5	3.4	204	2:20pm	192
2:20pm		85	16	5	3.2	192	2:25pm	180
2:25pm		100	15	5	3.0	180	2:30pm	192
2:30pm		116	16	5	3.2	192	2:35pm	180
2:35pm		132	16	5	3.2	180	2:40pm	180
2:40pm		147	15	5	3.0	180	2:45pm	180
2:45pm		162	15	5	3.0	180	2:50pm	132
2:50pm		173	11	5	2.2	132	2:55pm	120
2:55pm		183	10	5	2.0	120	3:00pm	168
3:00pm	Refill	63	0	0	0	0	3:05pm	168
3:05pm		77	14	5	2.8	168	3:10pm	144
3:10pm		91	14	5	2.8	168	3:15pm	132
3:15pm		103	12	5	2.4	144	3:20pm	132
3:20pm		114	11	5	2.2	132	3:25pm	144
3:25pm		125	11	5	2.2	132	3:30pm	156
3:30pm		137	12	5	2.4	144	3:35pm	132
3:35pm		150	13	5	2.6	156		
		161	11	5	2.2	132		
Total water infiltrated into profile (mm):			254					
Total Time Elapsed (hours):			1.50					



DATE: 26/11/2020 GPS COORDINATES
 SESW SITE NO: Site 9. A3 Horizon 500mm ZONE: 55H
 KALBAR SITE NO: McMahon Plateau Grazing S4 GPS EASTING: 531002
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5817288
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
2:07pm	Start	28	0	0			2:12pm	780
2:12pm		93	65	5	13	780	2:17pm	204
2:17pm		110	17	5	3.4	204	2:22pm	84
2:22pm		117	7	5	1.4	84	2:27pm	72
2:27pm		123	6	5	1.2	72	2:32pm	60
2:32pm		128	5	5	1.0	60	2:37pm	84
2:37pm		135	7	5	1.4	84	2:42pm	84
2:42pm		142	7	5	1.4	84	2:47pm	84
2:47pm		149	7	5	1.4	84	2:52pm	60
2:52pm		154	5	5	1.0	60	2:57pm	60
2:57pm		159	5	5	1.0	60	3:02pm	84
	Refill	62	0	0	0	0	3:07pm	96
3:02pm		69	7	5	1.4	84	3:12pm	72
3:07pm		77	8	5	1.6	96	3:17pm	72
3:12pm		83	6	5	1.2	72	3:22pm	96
3:17pm		89	6	5	1.2	72	3:27pm	84
3:22pm		97	8	5	1.6	96	3:32pm	48
3:27pm		104	7	5	1.4	84	3:37pm	48
3:32pm		108	4	5	0.8	48	4:35pm	37
3:37pm		112	4	5	0.8	48		
4:35pm		148	36	58	0.62	37		
10.15am Next Day			Empty					
Total water infiltrated into profile (mm):			217					
Total Time Elapsed (hours):			2.47					

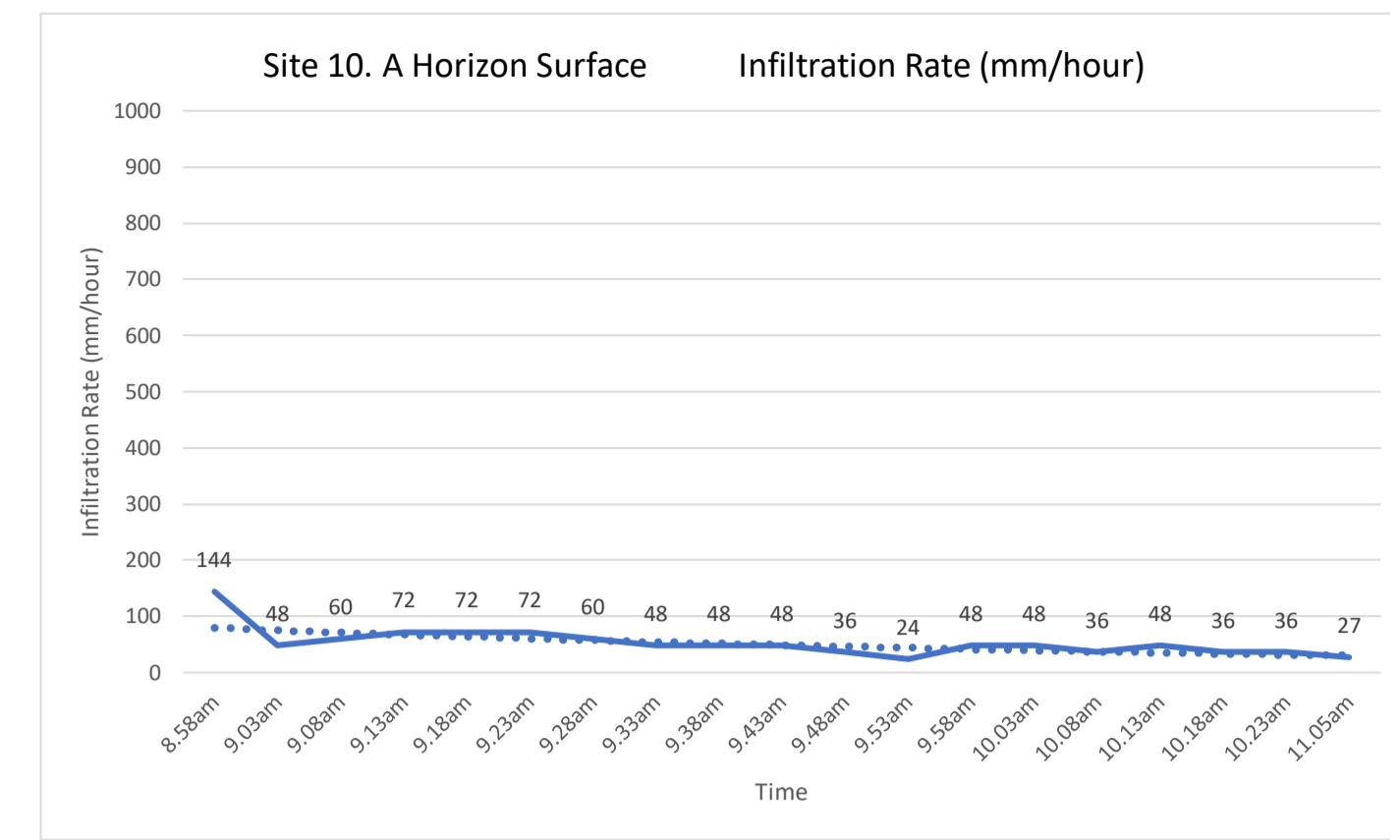


**KALBAR OPERATIONS - FINGERBOARDS PROJECT.
INFILTRATION TESTING.**

DATE: 26/11/2020 GPS COORDINATES
 SESW SITE NO: Site 10. A Horizon Surface ZONE: 55H
 KALBAR SITE NO: McMahon Plateau Grazing S6 GPS EASTING: 531237
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5817162
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

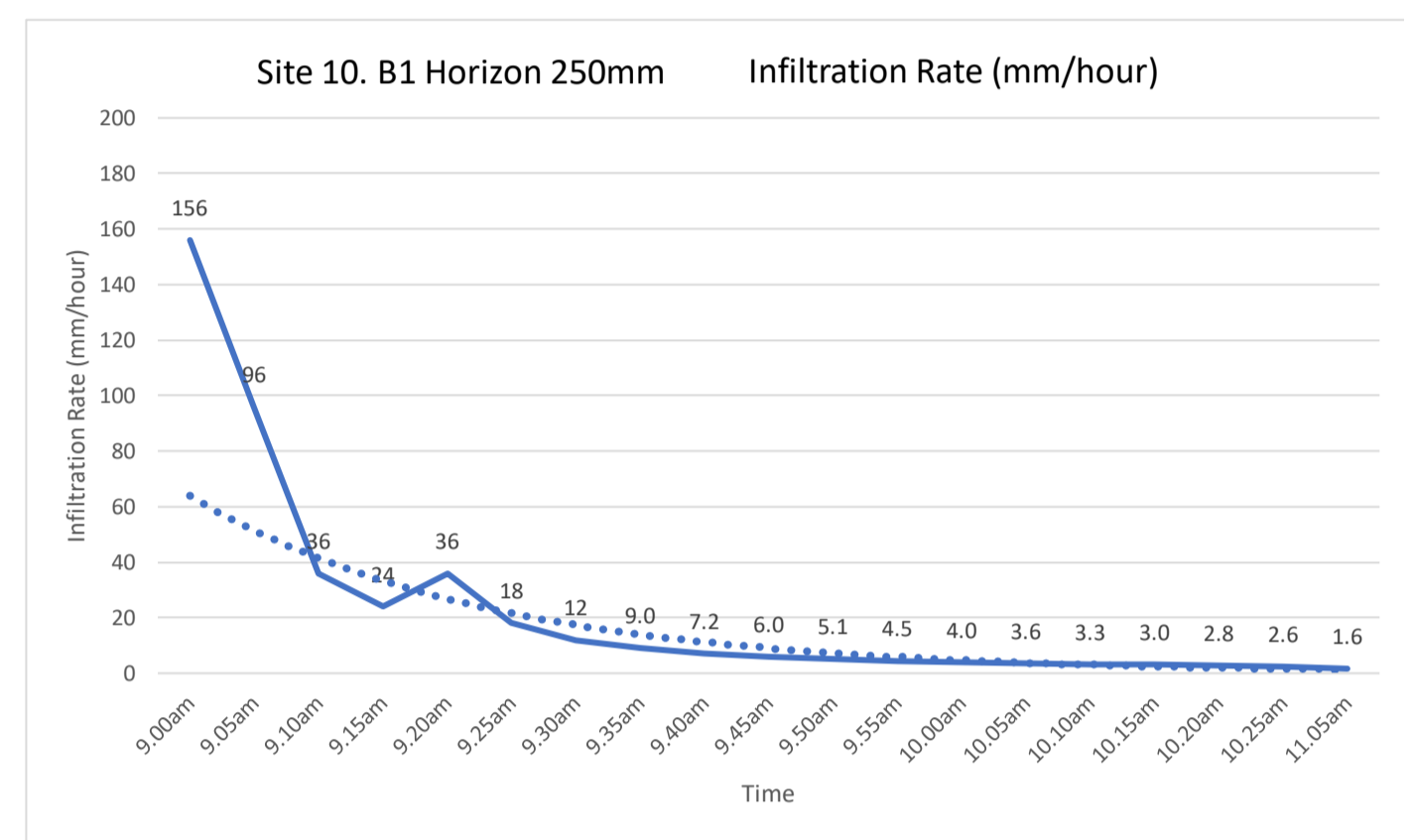
TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
8:53am	Start	19	0	0			8:53am	144
8:58am		31	12	5	2.4	144	9:03am	48
9:03am		35	4	5	0.8	48	9:08am	60
9:08am		40	5	5	1.0	60	9:13am	72
9:13am		46	6	5	1.2	72	9:18am	72
9:18am		52	6	5	1.2	72	9:23am	72
9:23am		58	6	5	1.2	72	9:28am	60
9:28am		63	5	5	1.0	60	9:33am	48
9:33am		67	4	5	0.8	48	9:38am	48
9:38am		71	4	5	0.8	48	9:43am	48
9:43am		75	4	5	0.8	48	9:48am	36
9:48am		78	3	5	0.6	36	9:53am	24
9:53am		80	2	5	0.4	24	9:58am	48
9:58am		84	4	5	0.8	48	10:03am	48
10:03am		88	4	5	0.8	48	10:08am	36
10:08am		91	3	5	0.6	36	10:13am	48
10:13am		95	4	5	0.8	48	10:18am	36
10:18am		98	3	5	0.6	36	10:23am	36
10:23am		101	3	5	0.6	36	11:05am	27
11:05am		120	19	42	0.45	27		
Total water infiltrated into profile (mm):			101					
Total Time Elapsed (hours):			2.20					



DATE: 26/11/2020 GPS COORDINATES
 SESW SITE NO: Site 10. B1 Horizon 250mm ZONE: 55H
 KALBAR SITE NO: McMahon Plateau Grazing S6 GPS EASTING: 531237
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5817162
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
8:55am	Start	45	0	0			9:00am	156
9:00am		58	13	5	2.6	156	9:05am	96
9:05am		66	8	5	1.6	96	9:10am	36
9:10am		69	3	5	0.6	36	9:15am	24
9:15am		71	2	5	0.4	24	9:20am	36
9:20am		74	3	5	0.6	36	9:25am	18
9:25am		74	0	5	0.300	18	9:30am	12
9:30am		74	0	5	0.200	12	9:35am	9.0
9:35am		74	0	5	0.150	9.0	9:40am	7.2
9:40am		74	0	5	0.120	7.2	9:45am	6.0
9:45am		74	0	5	0.100	6.0	9:50am	5.1
9:50am		74	0	5	0.086	5.1	9:55am	4.5
9:55am		74	0	5	0.075	4.5	10:00am	4.0
10:00am		74	0	5	0.067	4.0	10:05am	3.6
10:05am		74	0	5	0.060	3.6	10:10am	3.3
10:10am		74	0	5	0.055	3.3	10:15am	3.0
10:15am		74	0	5	0.050	3.0	10:20am	2.8
10:20am		74	0	5	0.046	2.8	10:25am	2.6
10:25am		74	0	5	0.043	2.6	11:05am	1.6
11:05am		74	0	40	0.027	1.6		
Total water infiltrated into profile (mm):			29					
Total Time Elapsed (hours):			2.17					

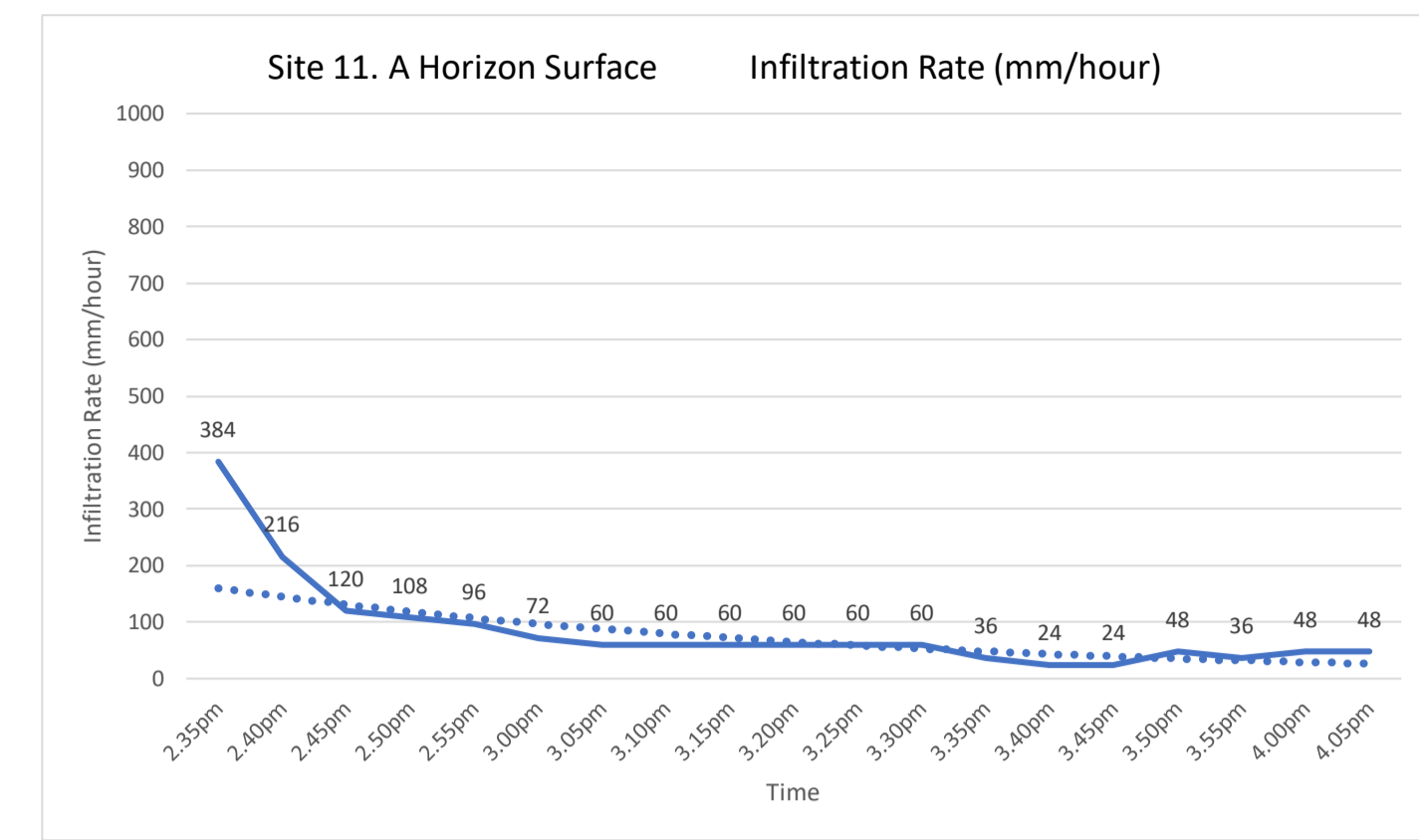


**KALBAR OPERATIONS - FINGERBOARDS PROJECT.
INFILTRATION TESTING.**

DATE: 1/12/2020 GPS COORDINATES
 SESW SITE NO: Site 11. A Horizon Surface ZONE: 55H
 KALBAR SITE NO: Davidson Plateau Grazing S1 GPS EASTING: 532623
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5816092
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

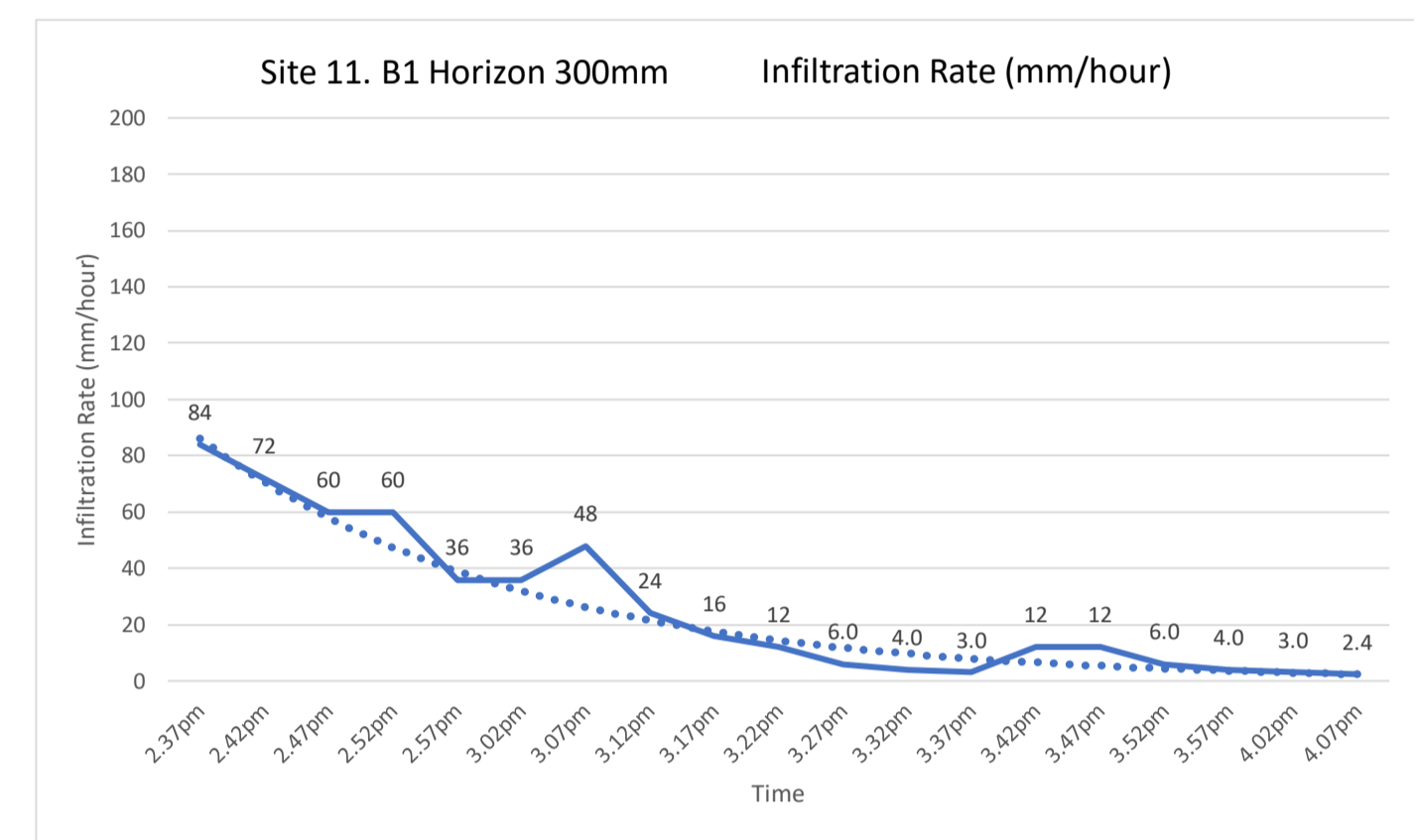
TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
2:30pm	Start	29	0	0			2:35pm	384
2:35pm		61	32	5	6.4	384	2:40pm	216
2:40pm		79	18	5	3.6	216	2:45pm	120
2:45pm		89	10	5	2.0	120	2:50pm	108
2:50pm		98	9	5	1.8	108	2:55pm	96
2:55pm		106	8	5	1.6	96	3:00pm	72
3:00pm		112	6	5	1.2	72	3:05pm	60
3:05pm		117	5	5	1.0	60	3:10pm	60
3:10pm		122	5	5	1.0	60	3:15pm	60
3:15pm		127	5	5	1.0	60	3:20pm	60
3:20pm		132	5	5	1.0	60	3:25pm	60
3:25pm		137	5	5	1.0	60	3:30pm	60
3:30pm		142	5	5	1.0	60	3:35pm	36
3:35pm		145	3	5	0.6	36	3:40pm	24
3:40pm		147	2	5	0.4	24	3:45pm	24
3:45pm		149	2	5	0.4	24	3:50pm	48
3:50pm		153	4	5	0.8	48	3:55pm	36
3:55pm		156	3	5	0.6	36	4:00pm	48
4:00pm		160	4	5	0.8	48	4:05pm	48
4:05pm		164	4	5	0.8	48		
Total water infiltrated into profile (mm):			135					
Total Time Elapsed (hours):			1.58					



DATE: 1/12/2020 GPS COORDINATES
 SESW SITE NO: Site 11. B1 Horizon 300mm ZONE: 55H
 KALBAR SITE NO: Davidson Plateau Grazing S1 GPS EASTING: 532623
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5816092
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
2:32pm	Start	10	0	0			2:37pm	84
2:37pm		17	7	5	1.40	84	2:42pm	72
2:42pm		23	6	5	1.20	72	2:47pm	60
2:47pm		28	5	5	1.00	60	2:52pm	60
2:52pm		33	5	5	1.00	60	2:57pm	36
2:57pm		36	3	5	0.60	36	3:02pm	48
3:02pm		39	3	5	0.60	48	3:07pm	24
3:07pm		43	4	5	0.80	48	3:12pm	16
3:12pm		43	0	5	0.40	24	3:17pm	12
3:17pm		43	0	5	0.27	16	3:22pm	6.0
3:22pm		44	1	5	0.20	12	3:27pm	4.0
3:27pm		44	0	5	0.10	6	3:32pm	3.0
3:32pm		44	0	5	0.07	4	3:37pm	12
3:37pm		44	0	5	0.05	3	3:42pm	12
3:42pm		45	1	5	0.20	12	3:47pm	6.0
3:47pm		46	1	5	0.20	12	3:52pm	4.0
3:52pm		46	0	5	0.10	6	3:57pm	3.0
3:57pm		46	0	5	0.07	4	4:02pm	3.0
4:02pm		46	0	5	0.05	3	4:07pm	2.4
4:07pm		46	0	5	0.04	2.4		
Total water infiltrated into profile (mm):			36					
Total Time Elapsed (hours):			1.58					

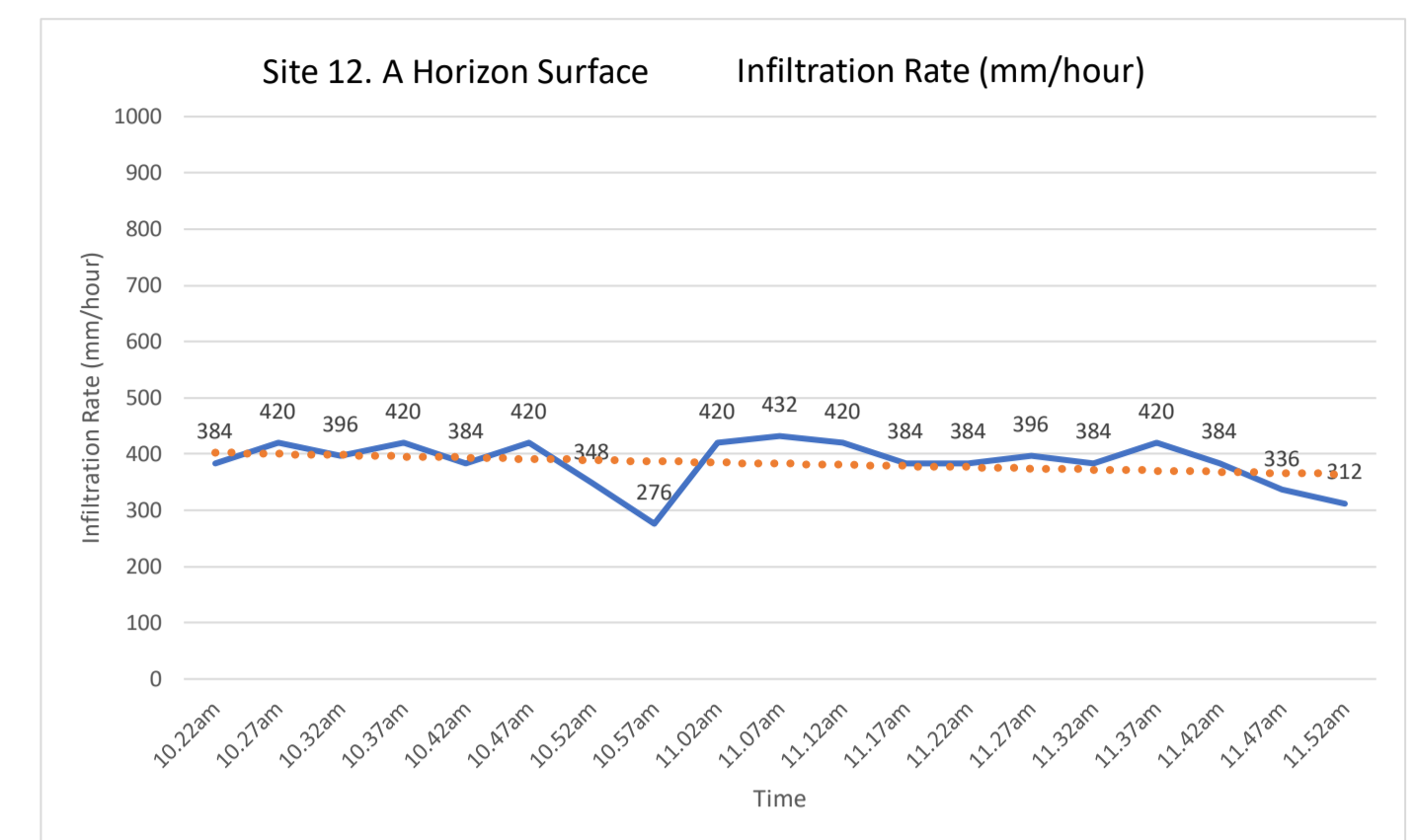


**KALBAR OPERATIONS - FINGERBOARDS PROJECT.
INFILTRATION TESTING.**

DATE: 1/12/2020 GPS COORDINATES
 SESW SITE NO: Site 12. A Horizon Surface ZONE: 55H
 KALBAR SITE NO: Davidson Plateau Grazing S2 GPS EASTING: 532484
 ASSESSOR: Christian Barman, SESW. GPS NORTHING: 5815570
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

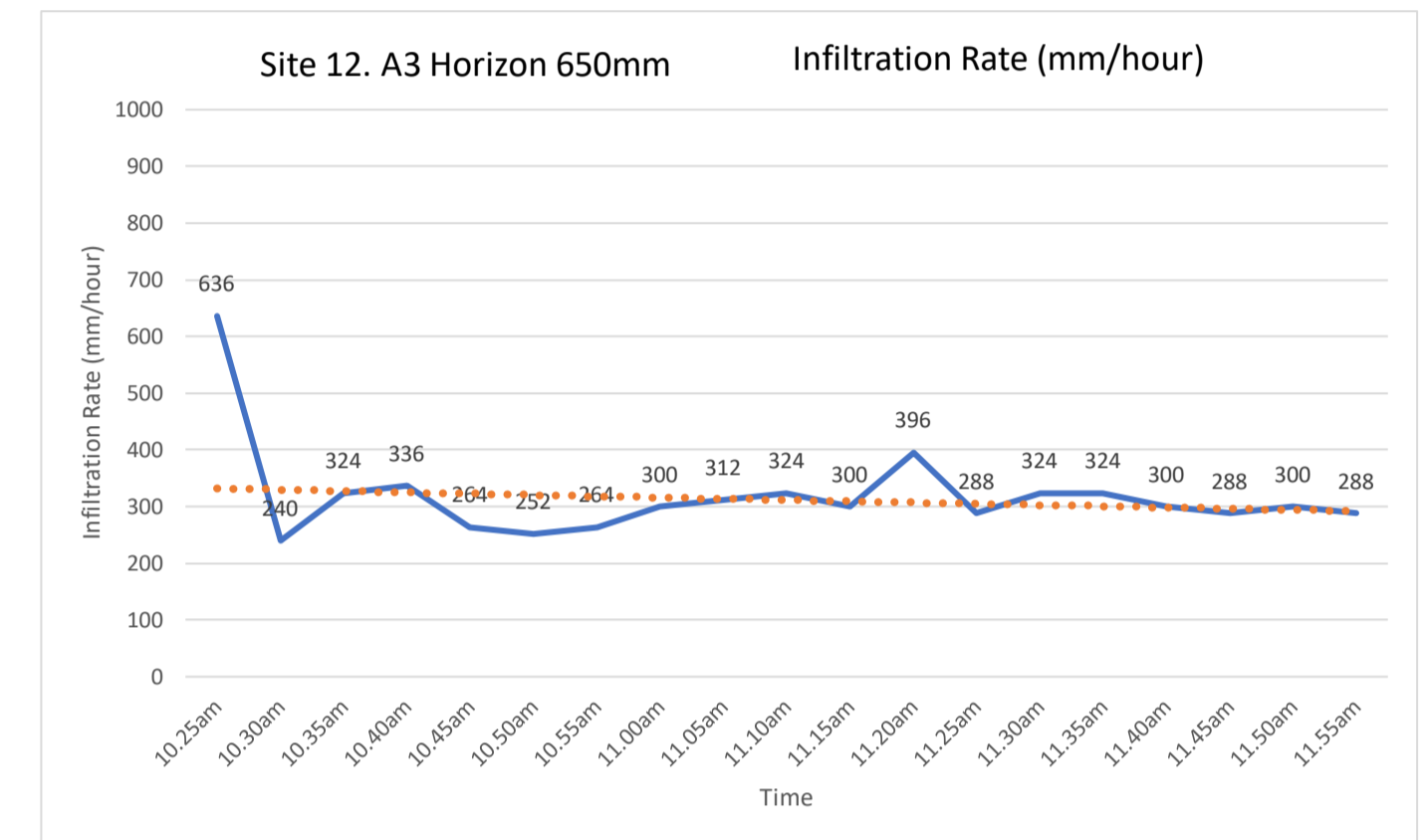
TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
10.17am	Start	27	0	0			10.22am	384
10.22am		59	32	5	6.4	384	10.27am	420
10.27am		94	35	5	7.0	420	10.32am	396
10.32am		127	33	5	6.6	420	10.37am	420
	Refill	22	0	0	0	0	10.42am	384
10.37am		57	35	5	7.0	420	10.47am	420
10.42am		89	32	5	6.4	384	10.52am	348
10.47am		124	35	5	7.0	420	10.57am	276
10.52am		153	29	5	5.8	348	11.02am	420
	Refill	19	0	0	0	0	11.07am	432
10.57am		42	23	5	4.6	276	11.12am	420
11.02am		77	35	5	7.0	420	11.17am	384
11.07am		113	36	5	7.2	432	11.22am	384
11.12am		148	35	5	7.0	420	11.27am	396
	Refill	4	0	0	0	0	11.32am	384
11.17am		36	32	5	6.4	384	11.37am	420
11.22am		68	32	5	6.4	384	11.42am	384
11.27am		101	33	5	6.6	396	11.47am	336
11.32am		133	32	5	6.4	384	11.52am	312
11.37am		168	35	5	7.0	420		
11.42am		200	32	5	6.4	384		
11.47am		228	28	5	5.6	336		
11.52am		254	26	5	5.2	312		
Total water infiltrated into profile (mm):			610					
Total Time Elapsed (hours):			1.58					



DATE: 1/12/2020 GPS COORDINATES
 SESW SITE NO: Site 12. A3 Horizon 650mm ZONE: 55H
 KALBAR SITE NO: Davidson Plateau Grazing S2 GPS EASTING: 532484
 ASSESSOR: Christian Barman, SESW. GPS NORTHING: 5815570
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
10.20am	Start	9	0	0			10.25am	636
10.25am		62	53	5	10.6	636	10.30am	240
10.30am		82	20	5	4	240	10.35am	324
10.35am		109	27	5	5.4	324	10.40am	336
10.40am		137	28	5	5.6	336	10.45am	264
10.45am		159	22	5	4.4	264	10.50am	252
	Refill	28	0	0	0	0	10.55am	264
10.50am		49	21	5	4.2	252	11.00am	300
10.55am		71	22	5	4.4	264	11.05am	312
11.00am		96	25	5	5.0	300	11.10am	324
11.05am		122	26	5	5.2	312	11.15am	300
11.10am		149	27	5	5.4	324	11.20am	396
11.15am		174	25	5	5.0	300	11.25am	288
	Refill	12	0	0	0	0	11.30am	324
11.20am		45	33	5	6.6	396	11.35am	324
11.25am		69	24	5	4.8	288	11.40am	300
11.30am		96	27	5	5.4	324	11.45am	288
11.35am		123	27	5	5.4	324	11.50am	300
11.40am		148	25	5	5.0	300	11.55am	288
11.45am		172	24	5	4.8	288		
11.50am		197	25	5	5.0	300		
11.55am		221	24	5	4.8	288		
Total water infiltrated into profile (mm):			505					
Total Time Elapsed (hours):			1.58					

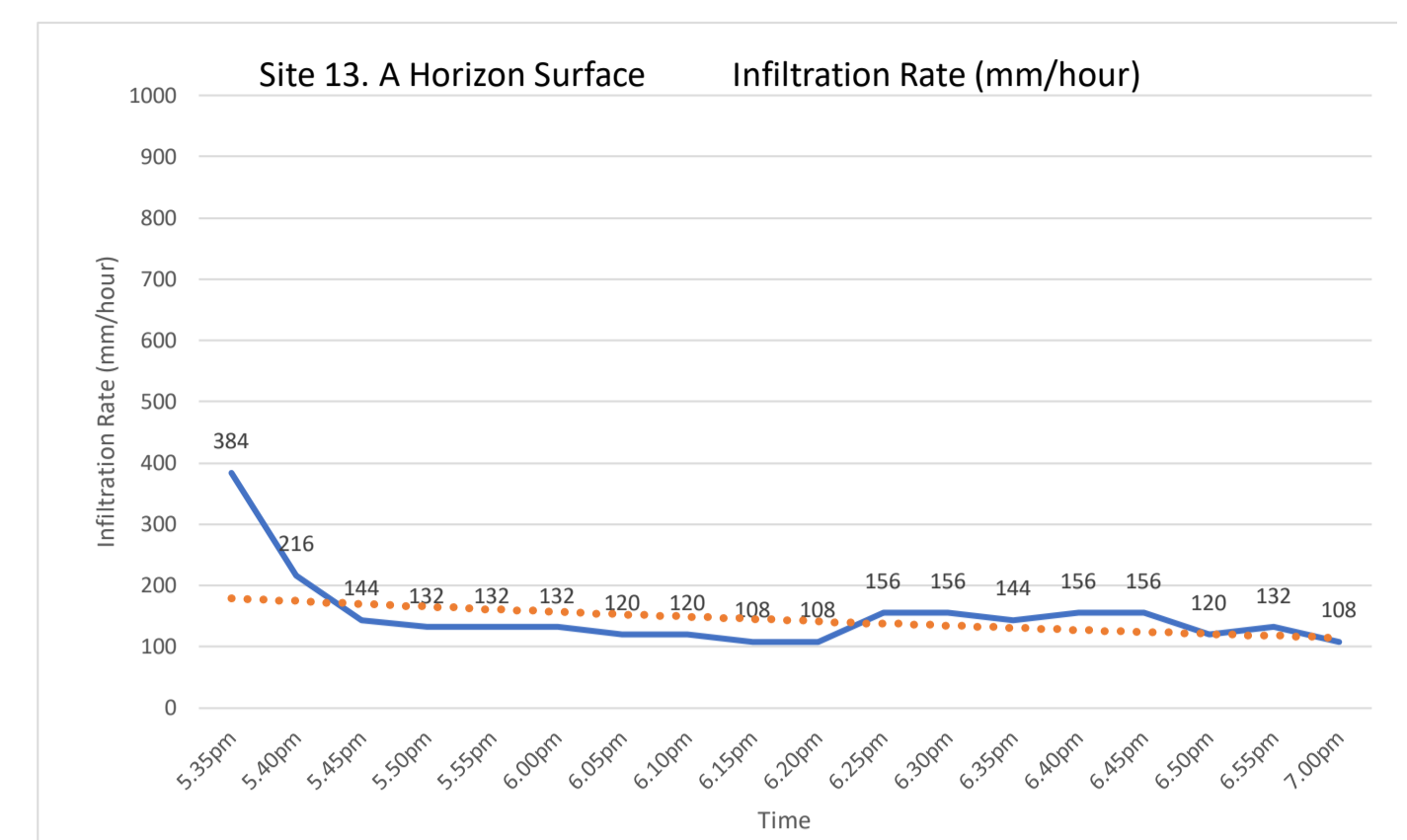


**KALBAR OPERATIONS - FINGERBOARDS PROJECT.
INFILTRATION TESTING.**

DATE: 26/11/2020 GPS COORDINATES
 SESW SITE NO: Site 13. A Horizon Surface ZONE: 55H
 KALBAR SITE NO: McMahon Valley Slopes S1 GPS EASTING: 531280
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5816934
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

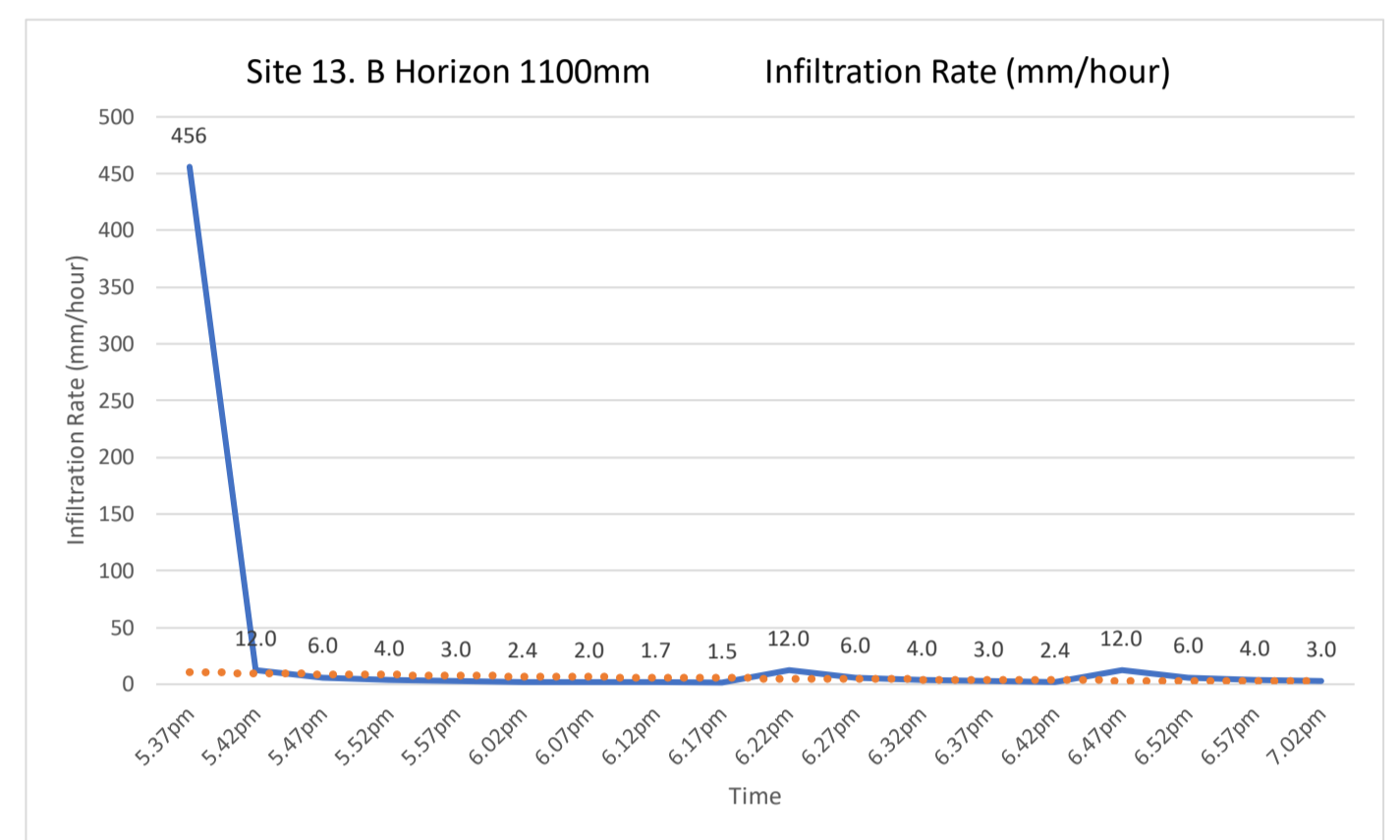
TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
5:30pm	Start	23	0	0			5:35pm	384
5:35pm		55	32	5	6.4	384	5:40pm	216
5:40pm		73	18	5	3.6	216	5:45pm	144
5:45pm		85	12	5	2.4	144	5:50pm	132
5:50pm		96	11	5	2.2	132	5:55pm	132
5:55pm		107	11	5	2.2	132	6:00pm	120
6:00pm		118	11	5	2.2	120	6:10pm	120
6:05pm		128	10	5	2.0	120	6:15pm	108
6:10pm		138	10	5	2.0	108	6:20pm	108
6:15pm		147	9	5	1.8	108	6:25pm	156
6:20pm		156	9	5	1.8	108	6:30pm	156
6:25pm	Refill	18	0	0	0	0	6:35pm	144
6:30pm		31	13	5	2.6	156	6:40pm	156
6:35pm		44	13	5	2.6	156	6:45pm	156
6:40pm		56	12	5	2.4	144	6:50pm	120
6:45pm		69	13	5	2.6	156	6:55pm	132
6:50pm		82	13	5	2.6	156	7:00pm	108
6:55pm		92	10	5	2.0	120		
7:00pm		103	11	5	2.2	132		
		112	9	5	1.8	108		
Total water infiltrated into profile (mm):			227					
Total Time Elapsed (hours):			1.50					



DATE: 26/11/2020 GPS COORDINATES
 SESW SITE NO: Site 13. B Horizon 1100mm Medium Clay with Grave ZONE: 55H
 KALBAR SITE NO: McMahon Valley Slopes S1 GPS EASTING: 531280
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5816934
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
5:32pm	Start	30	0	0			5:37pm	456
5:37pm		68	38	5	7.60	456	5:42pm	12.0
5:42pm		69	1	5	0.20	12.0	5:47pm	6.0
5:47pm		69	0	5	0.10	6.0	5:52pm	4.0
5:52pm		69	0	5	0.07	4.0	5:57pm	3.0
5:57pm		69	0	5	0.05	3.0	6:02pm	2.4
6:02pm		69	0	5	0.04	2.4	6:07pm	2.0
6:07pm		69	0	5	0.03	2.0	6:12pm	1.7
6:12pm		69	0	5	0.03	1.7	6:17pm	1.5
6:17pm		69	0	5	0.03	1.5	6:22pm	12.0
6:22pm		70	1	5	0.20	12.0	6:27pm	6.0
6:27pm		70	0	5	0.10	6.0	6:32pm	4.0
6:32pm		70	0	5	0.07	4.0	6:37pm	3.0
6:37pm		70	0	5	0.05	3.0	6:42pm	2.4
6:42pm		70	0	5	0.04	2.4	6:47pm	12.0
6:47pm		71	1	5	0.20	12.0	6:52pm	6.0
6:52pm		71	0	5	0.10	6.0	6:57pm	4.0
6:57pm		71	0	5	0.07	4.0	7:02pm	3.0
7:02pm		71	0	5	0.05	3.0		
Total water infiltrated into profile (mm):			41					
Total Time Elapsed (hours):			1.50					

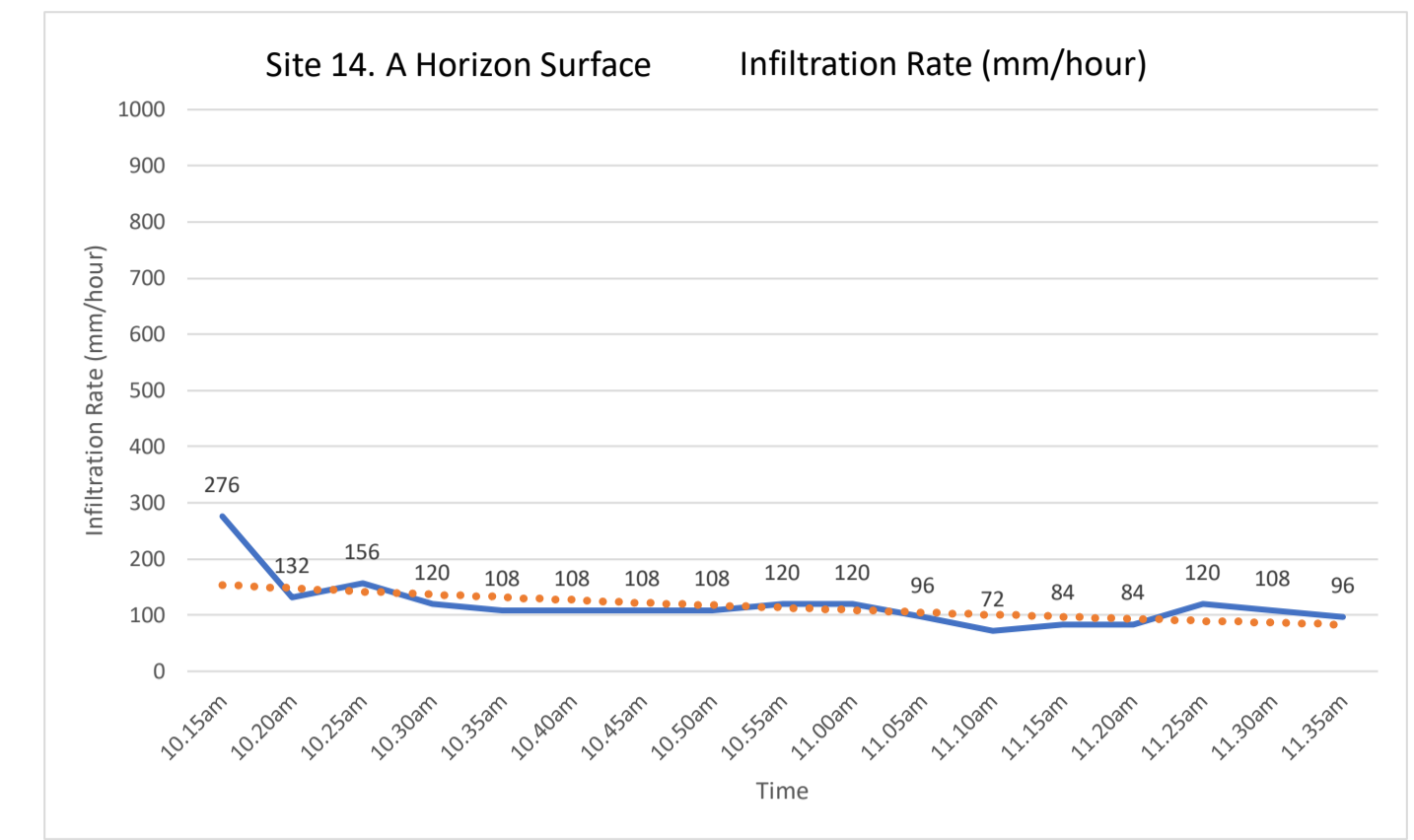


**KALBAR OPERATIONS - FINGERBOARDS PROJECT.
INFILTRATION TESTING.**

DATE: 26/11/2020 GPS COORDINATES
 SESW SITE NO: Site 14. A Horizon Surface ZONE: 55H
 KALBAR SITE NO: McMahon Valley Slopes - Additional Site 1 GPS EASTING: 530224
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5817311
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

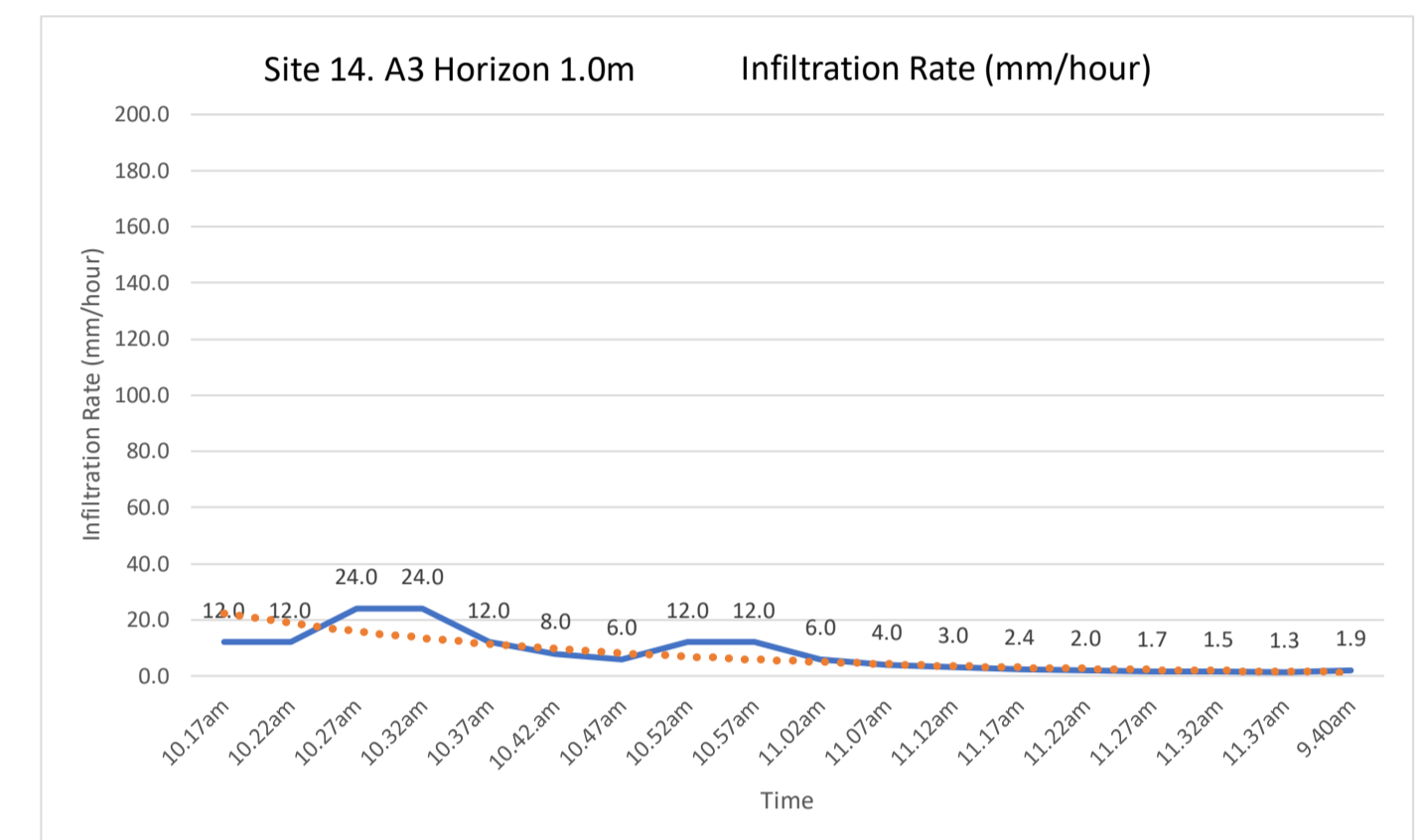
TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
10.10am	Start	53	0	0	0	0	10.15am	276
10.15am		76	23	5	4.6	276	10.20am	132
10.20am		87	11	5	2.2	132	10.25am	156
10.25am		100	13	5	2.6	156	10.30am	120
10.30am		110	10	5	2.0	120	10.35am	108
10.35am		119	9	5	1.8	108	10.40am	108
10.40am		128	9	5	1.8	108	10.45am	108
10.45am		137	9	5	1.8	108	10.50am	108
10.50am		146	9	5	1.8	108	10.55am	120
10.55am		156	10	5	2.0	120	11.00am	120
11.00am		166	10	5	2.0	120	11.05am	96
11.05am		174	8	5	1.6	96	11.10am	72
11.10am		180	6	5	1.2	72	11.15am	84
11.15am		187	7	5	1.4	84	11.20am	84
11.20am		194	7	5	1.4	84	11.25am	120
11.25am	refill	100	0	0	0	0	11.30am	108
11.30am		110	10	5	2.0	120	11.35am	96
11.35am		119	9	5	1.8	108		
11.40am		127	8	5	1.6	96		
		135	8	5	1.6	96		
Total water infiltrated into profile (mm):			176	90				
Total Time Elapsed (hours):			1.50					



DATE: 26/11/2020 GPS COORDINATES
 SESW SITE NO: Site 14. A3 Horizon 1.0m Coarse Loamy Sand & Gra ZONE: 55H
 KALBAR SITE NO: McMahon Valley Slopes - Additional Site 1 GPS EASTING: 530224
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5817311
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
10.12am	Start	72	0	0	0	0	10.17am	12.0
10.17am		73	1	5	0.200	12.0	10.22am	12.0
10.22am		74	1	5	0.200	12.0	10.27am	24.0
10.27am		76	2	5	0.400	24.0	10.32am	24.0
10.32am		78	2	5	0.400	24.0	10.37am	12.0
10.37am		78	0	5	0.200	12.0	10.42am	8.0
10.42am		79	0	5	0.133	8.0	10.47am	6.0
10.47am		79	0	5	0.100	6.0	10.52am	12.0
10.52am		80	1	5	0.200	12.0	10.57am	12.0
10.57am		81	1	5	0.200	12.0	11.02am	6.0
11.02am		81	0	5	0.100	6.0	11.07am	4.0
11.07am		81	0	5	0.067	4.0	11.12am	3.0
11.12am		81	0	5	0.050	3.0	11.17am	2.4
11.17am		81	0	5	0.040	2.4	11.22am	2.0
11.22am		81	0	5	0.033	2.0	11.27am	1.7
11.27am		81	0	5	0.029	1.7	11.32am	1.5
11.32am		81	0	5	0.025	1.5	11.37am	1.3
11.37am		81	0	5	0.022	1.3	9.40am	1.9
9.40am		123	42	1317	0.032	1.9		
Total water infiltrated into profile (mm):			50	1402				
Total Time Elapsed (hours):			23.37					



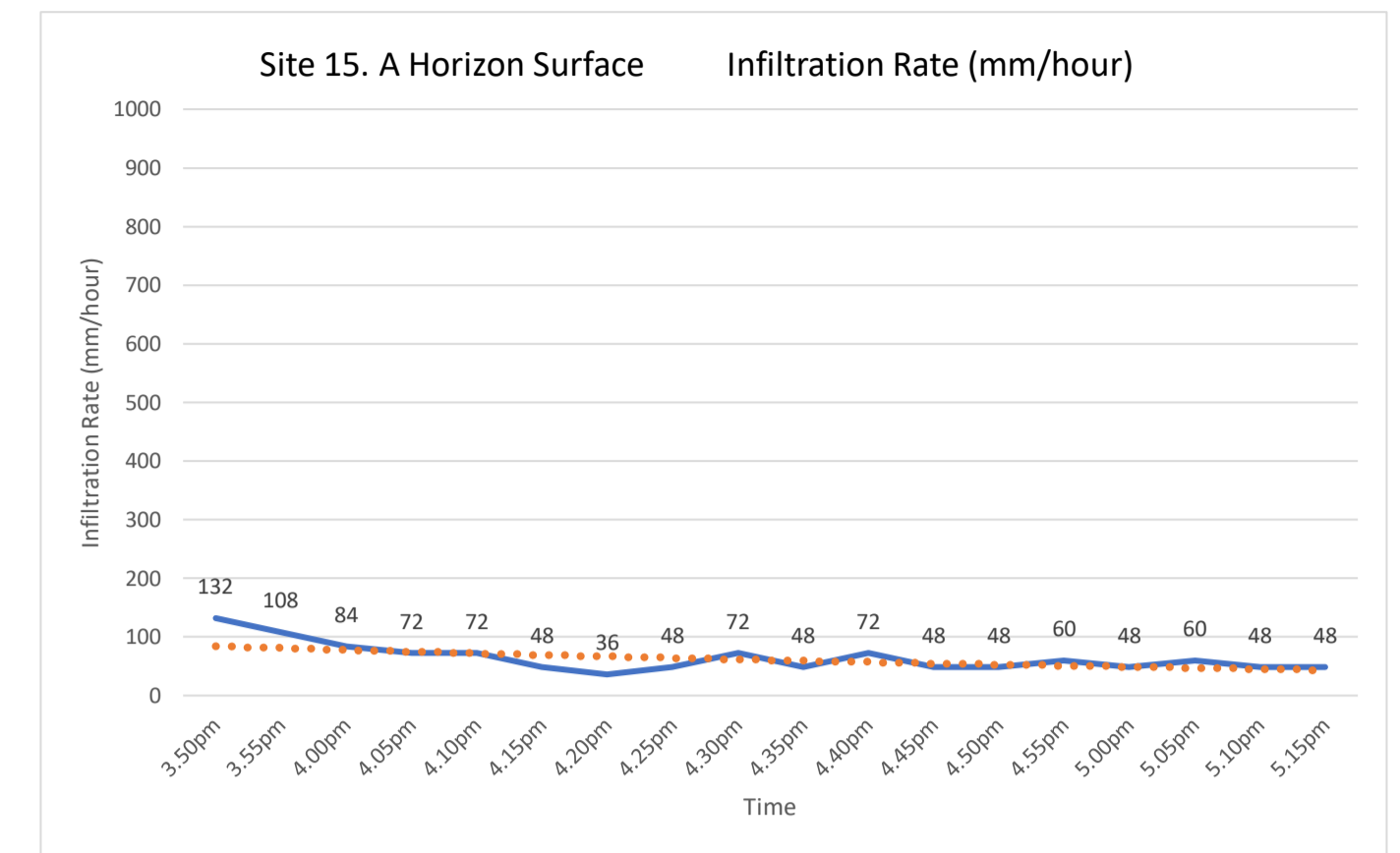
Unusual results, unsure why these are very slow for sand and gravel.

**KALBAR OPERATIONS - FINGERBOARDS PROJECT.
INFILTRATION TESTING.**

DATE: 26/11/2020 GPS COORDINATES
 SESW SITE NO: Site 15, A Horizon Surface ZONE: 55H
 KALBAR SITE NO: McMahon Valley Slopes S6 GPS EASTING: 530872
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5817370
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

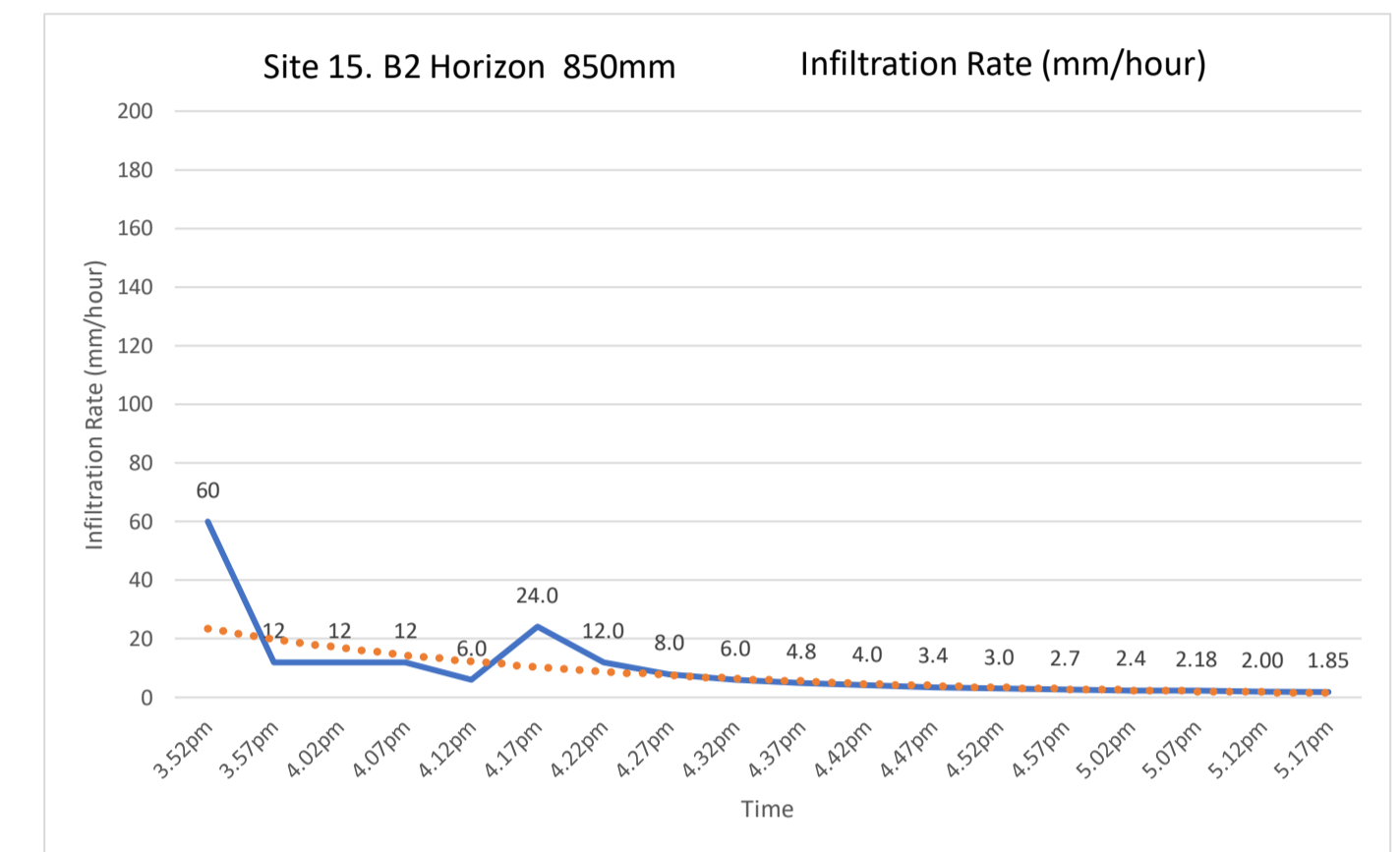
TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
3:45pm	Start	32	0	0			3:50pm	132
3:50pm		43	11	5	2.2	132	3:55pm	108
3:55pm		52	9	5	1.8	108	4:00pm	84
4:00pm		59	7	5	1.4	84	4:05pm	72
4:05pm		65	6	5	1.2	72	4:10pm	72
4:10pm		71	6	5	1.2	72	4:15pm	48
4:15pm		75	4	5	0.8	48	4:20pm	36
4:20pm		78	3	5	0.6	36	4:25pm	48
4:25pm		82	4	5	0.8	48	4:30pm	72
4:30pm		88	6	5	1.2	72	4:35pm	48
4:35pm		92	4	5	0.8	48	4:40pm	72
4:40pm		98	6	5	1.2	72	4:45pm	48
4:45pm		102	4	5	0.8	48	4:50pm	48
4:50pm		106	4	5	0.8	48	4:55pm	60
4:55pm		111	5	5	1.0	60	5:00pm	48
5:00pm		115	4	5	0.8	48	5:05pm	48
5:05pm		120	5	5	1.0	60	5:10pm	48
5:10pm		124	4	5	0.8	48	5:15pm	48
5:15pm		128	4	5	0.8	48		
Total water infiltrated into profile (mm):			96					
Total Time Elapsed (hours):			1.50					



DATE: 26/11/2020 GPS COORDINATES
 SESW SITE NO: Site 15, B2 Horizon 850mm ZONE: 55H
 KALBAR SITE NO: McMahon Valley Slopes S6 GPS EASTING: 530872
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5817370
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
3:47pm	Start	27	0	0	0	0	3:52pm	60
3:52pm		32	5	5	1.0	60	3:57pm	12
3:57pm		33	1	5	0.2	12	4:02pm	12
4:02pm		34	1	5	0.2	12	4:07pm	12
4:07pm		35	1	5	0.2	12	4:12pm	6.0
4:12pm		35	0	5	0.100	6.0	4:17pm	24.0
4:17pm		37	2	5	0.4	24.0	4:22pm	12.0
4:22pm		37	0	5	0.200	12.0	4:27pm	8.0
4:27pm		37	0	5	0.133	8.0	4:32pm	6.0
4:32pm		37	0	5	0.100	6.0	4:37pm	4.8
4:37pm		37	0	5	0.080	4.8	4:42pm	4.0
4:42pm		37	0	5	0.067	4.0	4:47pm	3.4
4:47pm		37	0	5	0.057	3.4	4:52pm	3.0
4:52pm		37	0	5	0.050	3.0	4:57pm	2.7
4:57pm		37	0	5	0.044	2.7	5:02pm	2.4
5:02pm		37	0	5	0.040	2.4	5:07pm	2.18
5:07pm		37	0	5	0.036	2.18	5:12pm	2.00
5:12pm		37	0	5	0.033	2.00	5:17pm	1.85
5:17pm		37	0	5	0.031	1.85		
Total water infiltrated into profile (mm):			10					
Total Time Elapsed (hours):			1.50					

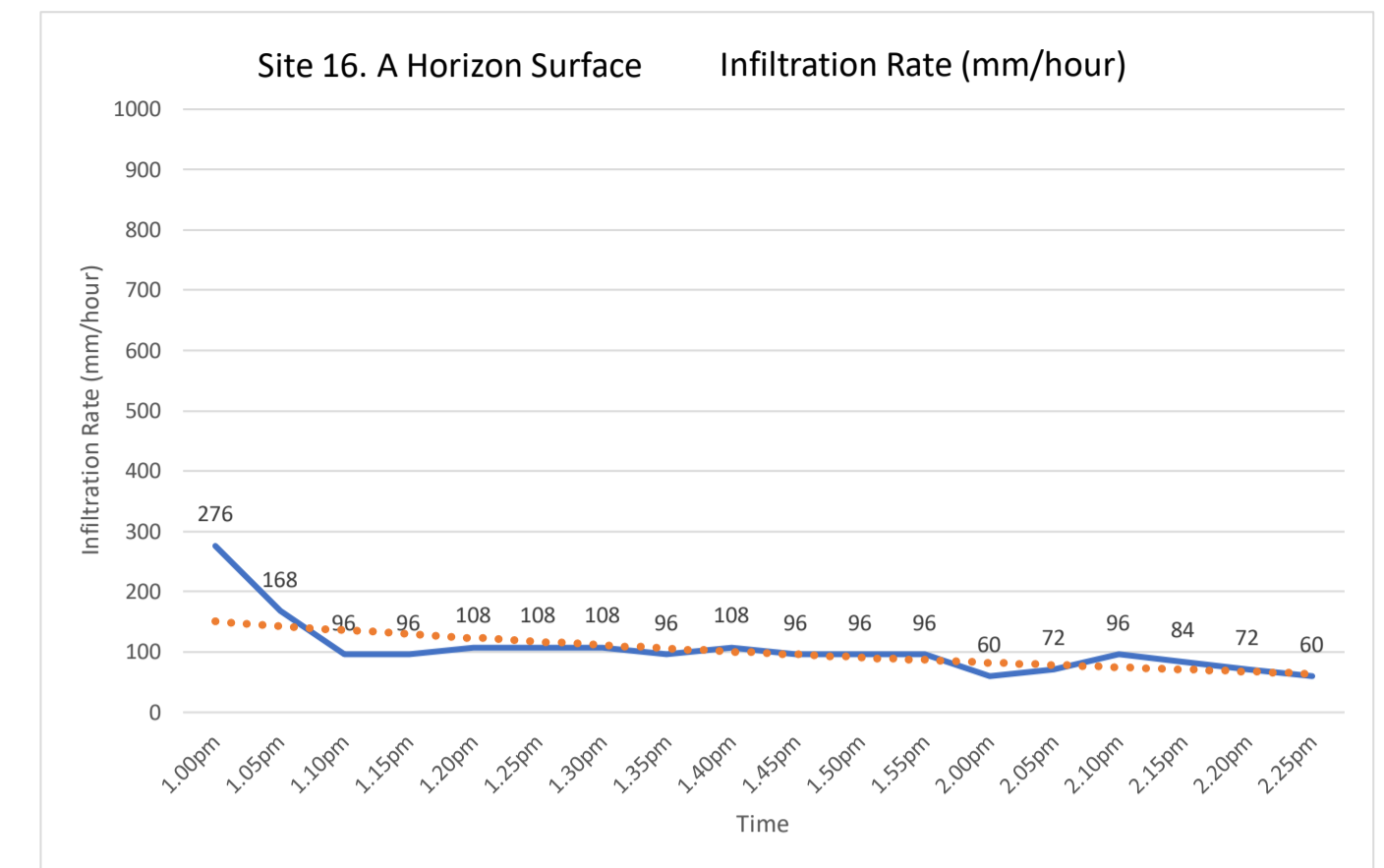


**KALBAR OPERATIONS - FINGERBOARDS PROJECT.
INFILTRATION TESTING.**

DATE: 26/11/2020 GPS COORDINATES
 SESW SITE NO: Site 16. A Horizon Surface ZONE: 55H
 KALBAR SITE NO: McMahon Valley Slopes S8 GPS EASTING: 530497
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5817178
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

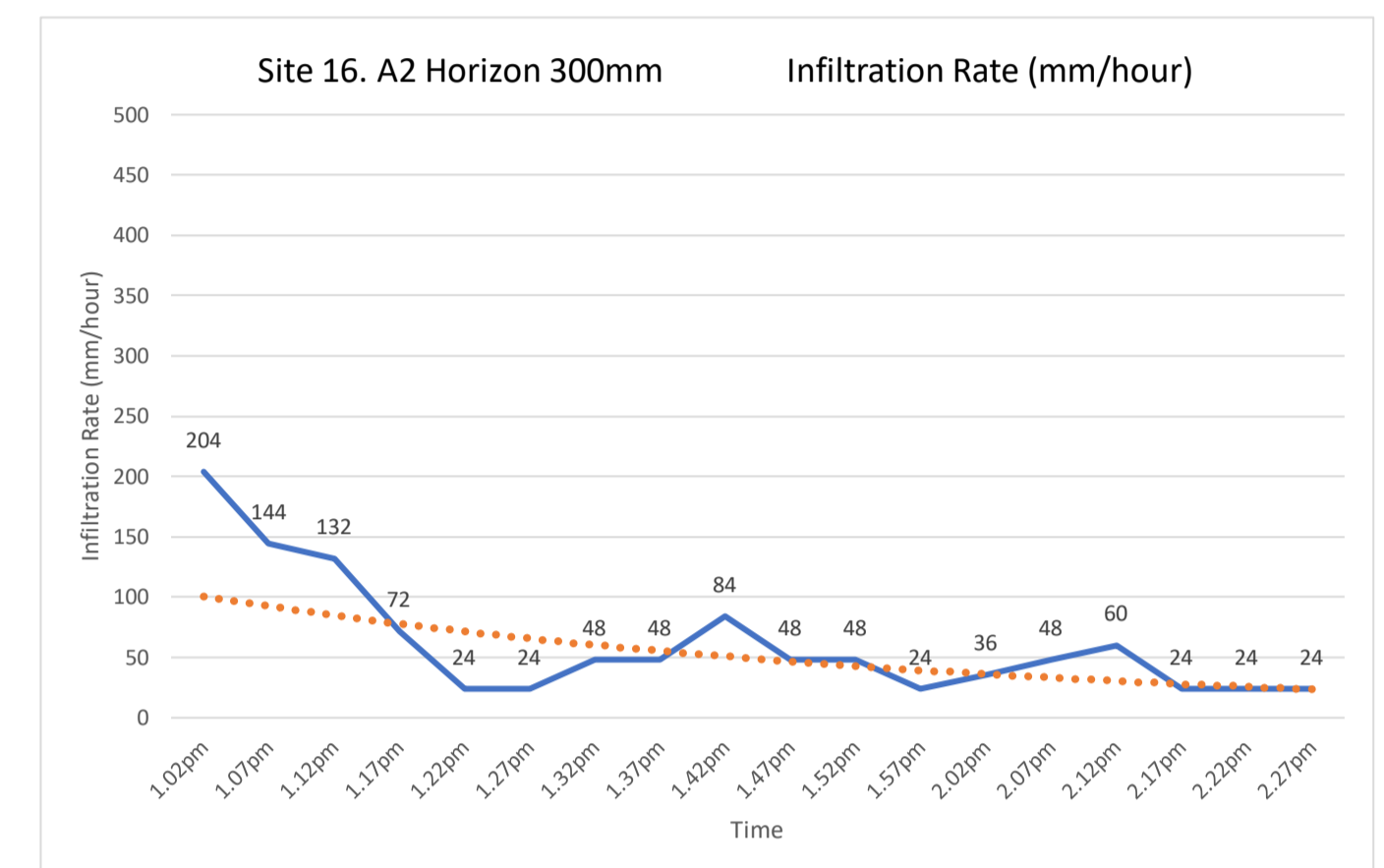
TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
12.55pm	Start	27	0	0	0	0	1.00pm	276
1.00pm		50	23	5	4.6	276	1.05pm	168
1.05pm		64	14	5	2.8	168	1.10pm	96
1.10pm		72	8	5	1.6	96	1.15pm	96
1.15pm		80	8	5	1.6	96	1.20pm	108
1.20pm		89	9	5	1.8	108	1.25pm	108
1.25pm		98	9	5	1.8	108	1.30pm	96
1.30pm		107	9	5	1.8	108	1.35pm	96
1.35pm		115	8	5	1.6	96	1.40pm	108
1.40pm		124	9	5	1.8	108	1.45pm	96
1.45pm		132	8	5	1.6	96	1.50pm	96
1.50pm		140	8	5	1.6	96	1.55pm	96
1.55pm		148	8	5	1.6	96	2.00pm	60
2.00pm		153	5	5	1.0	60	2.05pm	72
2.05pm		159	6	5	1.2	72	2.10pm	96
2.10pm		167	8	5	1.6	96	2.15pm	84
2.15pm		174	7	5	1.4	84	2.20pm	72
2.20pm		180	6	5	1.2	72	2.25pm	60
2.25pm		185	5	5	1.0	60		
Total water infiltrated into profile (mm):			158					
Total Time Elapsed (hours):			1.50					



DATE: 26/11/2020 GPS COORDINATES
 SESW SITE NO: Site 16. A2 Horizon 300mm Coarse Loamy Sand anc ZONE: 55H
 KALBAR SITE NO: McMahon Valley Slopes S8 GPS EASTING: 530497
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5817178
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
12.57pm	Start	22	0	0	0	0	1.00pm	204
1.00pm		39	17	5	3.4	204	1.05pm	144
1.05pm		51	12	5	2.4	144	1.10pm	132
1.12pm		62	11	5	2.2	132	1.17pm	72
1.17pm		68	6	5	1.2	72	1.22pm	24
1.22pm		70	2	5	0.4	24	1.27pm	24
1.27pm		72	2	5	0.4	24	1.32pm	48
1.32pm		76	4	5	0.8	48	1.37pm	48
1.37pm		80	4	5	0.8	48	1.42pm	84
1.42pm		87	7	5	1.4	84	1.47pm	48
1.47pm		91	4	5	0.8	48	1.52pm	48
1.52pm		95	4	5	0.8	48	1.57pm	24
1.57pm		97	2	5	0.4	24	2.02pm	36
2.02pm		100	3	5	0.6	36	2.07pm	48
2.07pm		104	4	5	0.8	48	2.12pm	60
2.12pm		109	5	5	1.0	60	2.17pm	24
2.17pm		111	2	5	0.4	24	2.22pm	24
2.22pm		113	2	5	0.4	24	2.27pm	24
2.27pm		115	2	5	0.4	24		
Total water infiltrated into profile (mm):			93					
Total Time Elapsed (hours):			1.50					



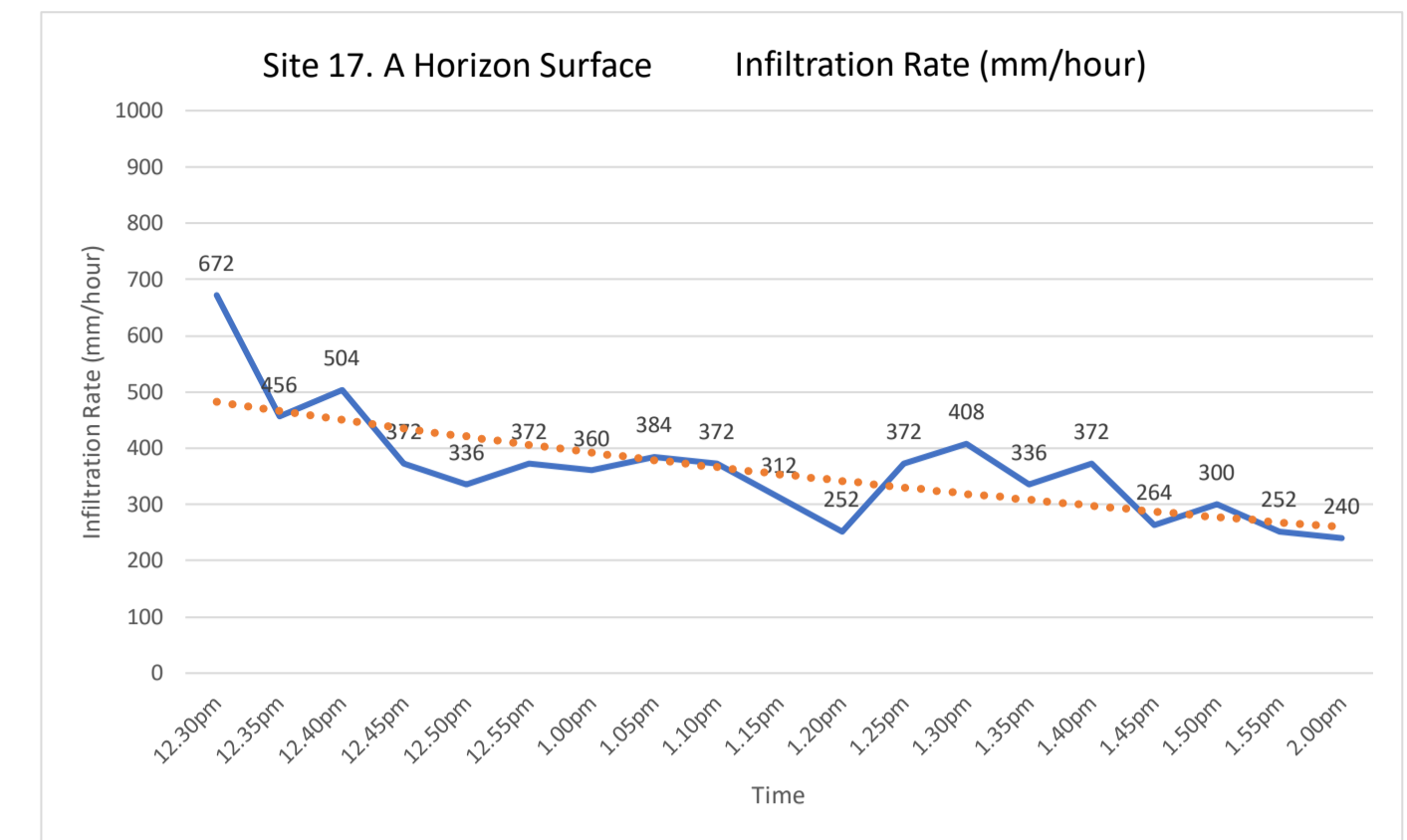
Check next morning, bucket was empty.
 Results were slower than expected for sand and gravel.

**KALBAR OPERATIONS - FINGERBOARDS PROJECT.
INFILTRATION TESTING.**

DATE: 1/12/2020 GPS COORDINATES
 SESW SITE NO: Site 17. A Horizon Surface ZONE: 55H
 KALBAR SITE NO: Davidson Valley Slopes S1 GPS EASTING: 532964
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5815957
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

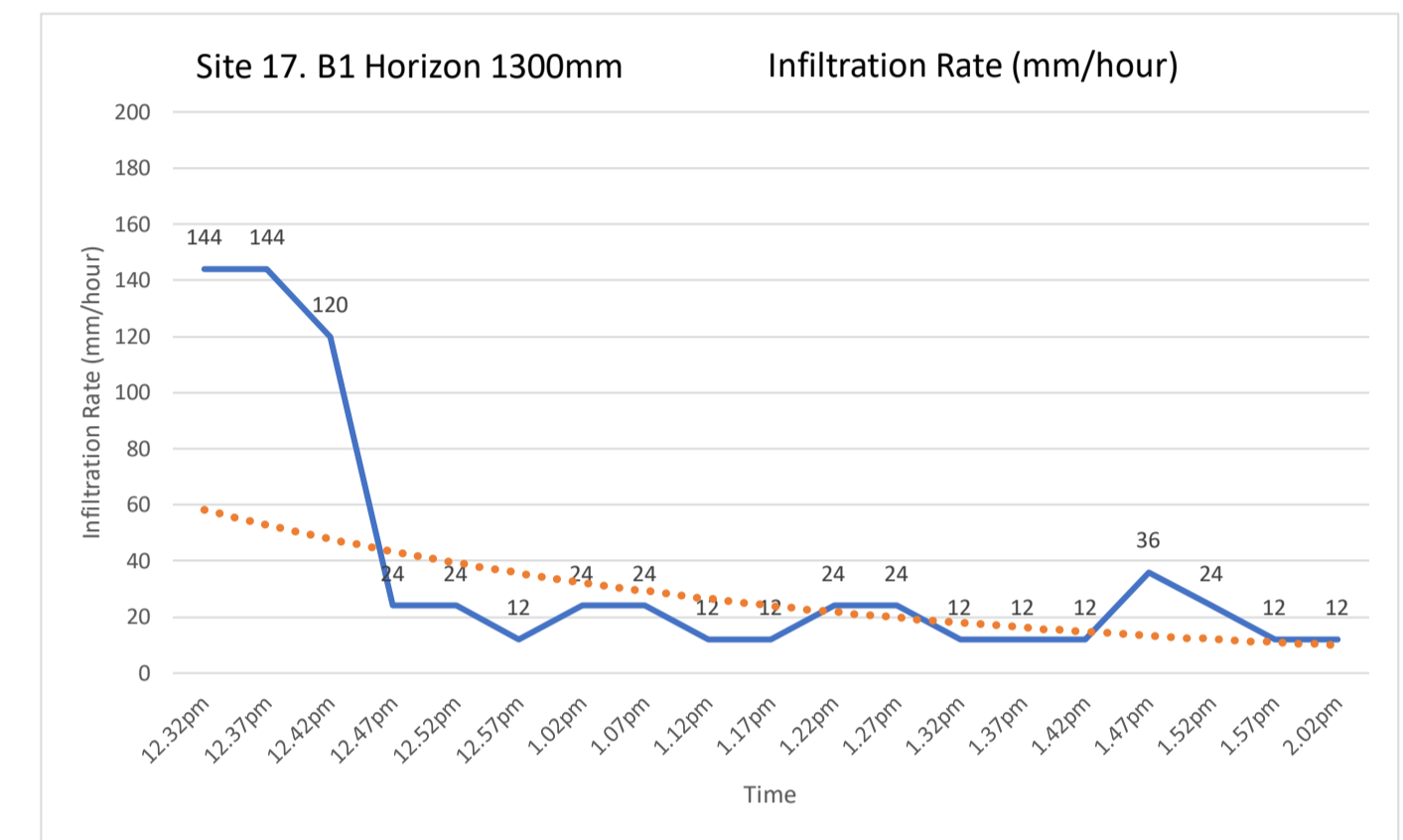
TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
12.25pm	Start	7	0	0			12.30pm	672
12.30pm		63	56	5	11.2	672	12.35pm	456
12.35pm		101	38	5	7.6	456	12.40pm	504
12.40pm		143	42	5	8.4	372	12.45pm	372
12.45pm		174	31	5	6.2	372	12.50pm	336
12.50pm		202	28	5	5.6	336	12.55pm	372
	Refill	22	0	0	0.0	0	1.00pm	360
12.55pm		53	31	5	6.2	372	1.05pm	384
1.00pm		83	30	5	6.0	360	1.10pm	372
1.05pm		115	32	5	6.4	384	1.15pm	312
1.10pm		146	31	5	6.2	372	1.20pm	252
1.15pm		172	26	5	5.2	312	1.25pm	372
1.20pm		193	21	5	4.2	252	1.30pm	408
	Refill	15	0	0	0.0	0	1.35pm	336
1.25pm		46	31	5	6.2	372	1.40pm	372
1.30pm		80	34	5	6.8	408	1.45pm	264
1.35pm		108	28	5	5.6	336	1.50pm	300
1.40pm		139	31	5	6.2	372	1.55pm	252
1.45pm		161	22	5	4.4	264	2.00pm	240
1.50pm		186	25	5	5.0	300		
1.55pm		207	21	5	4.2	252		
2.00pm		227	20	5	4.0	240		
Total water infiltrated into profile (mm):			578					
Total Time Elapsed (hours):			1.58					



DATE: 1/12/2020 GPS COORDINATES
 SESW SITE NO: Site 17. B1 Horizon 1300mm Base of Pit. ZONE: 55H
 KALBAR SITE NO: Davidson Valley Slopes S1 GPS EASTING: 532964
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5815957
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
12.27pm	Start	0	0	0			12.32pm	144
12.32pm		12	12	5	2.4	144	12.37pm	144
12.37pm		24	24	5	2.4	144	12.42pm	120
12.42pm		34	10	5	2.0	120	12.47pm	24
12.47pm		36	2	5	0.4	24	12.52pm	24
12.52pm		38	2	5	0.4	24	12.57pm	12
12.57pm		39	1	5	0.2	12	1.02pm	24
1.02pm		41	2	5	0.4	24	1.07pm	24
1.07pm		43	2	5	0.4	24	1.12pm	12
1.12pm		44	1	5	0.2	12	1.17pm	12
1.17pm		45	1	5	0.2	12	1.22pm	24
1.22pm		47	2	5	0.4	24	1.27pm	24
1.27pm		49	2	5	0.4	24	1.32pm	12
1.32pm		50	1	5	0.2	12	1.37pm	12
1.37pm		51	1	5	0.2	12	1.42pm	12
1.42pm		52	1	5	0.2	12	1.47pm	36
1.47pm		55	3	5	0.6	36	1.52pm	24
1.52pm		57	2	5	0.4	24	1.57pm	12
1.57pm		58	1	5	0.2	12	2.02pm	12
2.02pm		59	1	5	0.2	12		
Total water infiltrated into profile (mm):			59					
Total Time Elapsed (hours):			1.58					

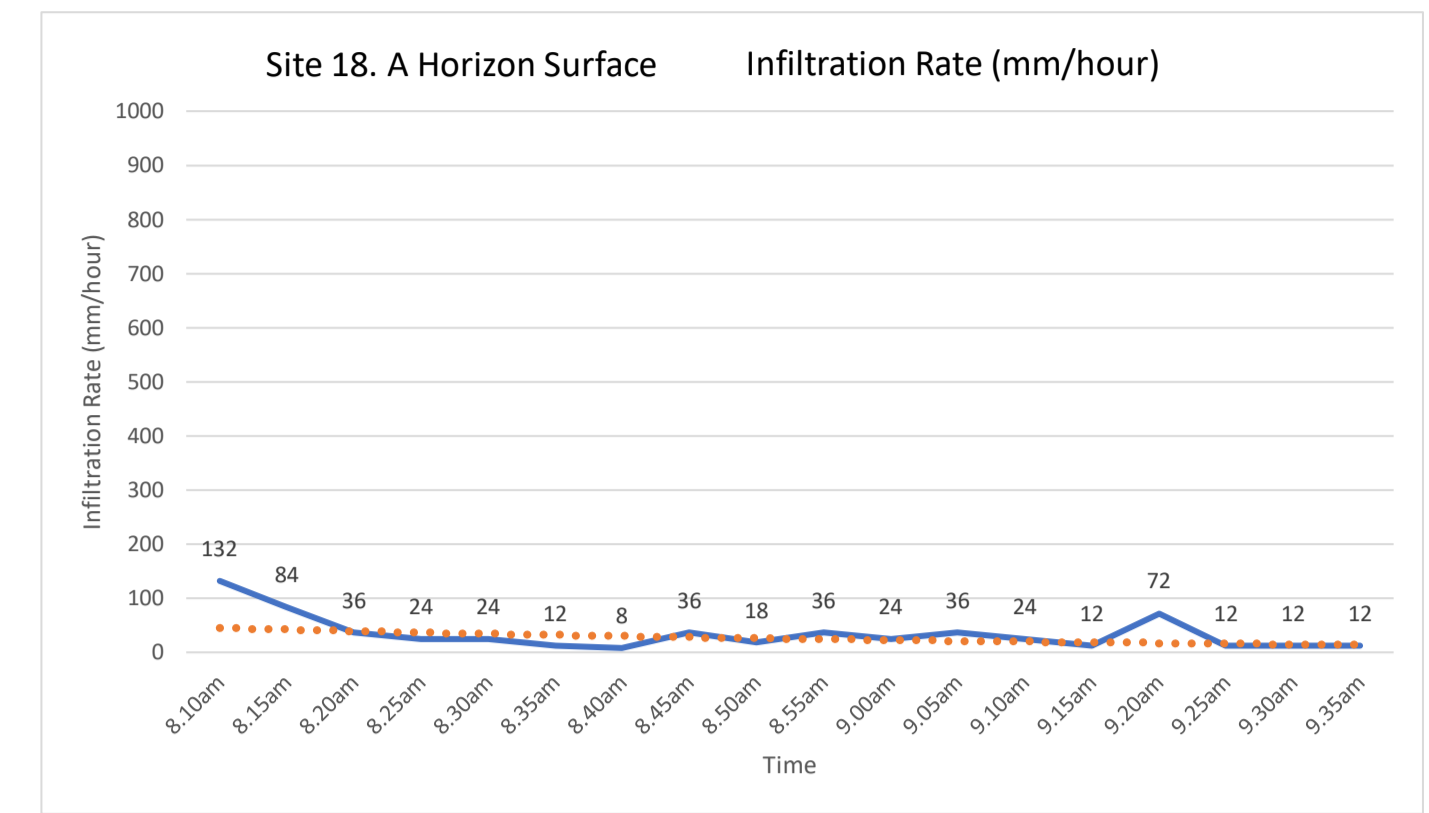


**KALBAR OPERATIONS - FINGERBOARDS PROJECT.
INFILTRATION TESTING.**

DATE: 26/11/2020 GPS COORDINATES
 SESW SITE NO: Site 18. A Horizon Surface ZONE: 55H
 KALBAR SITE NO: McMahon Valley Slopes - Additional Site 2 GPS EASTING: 530181
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5817427
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

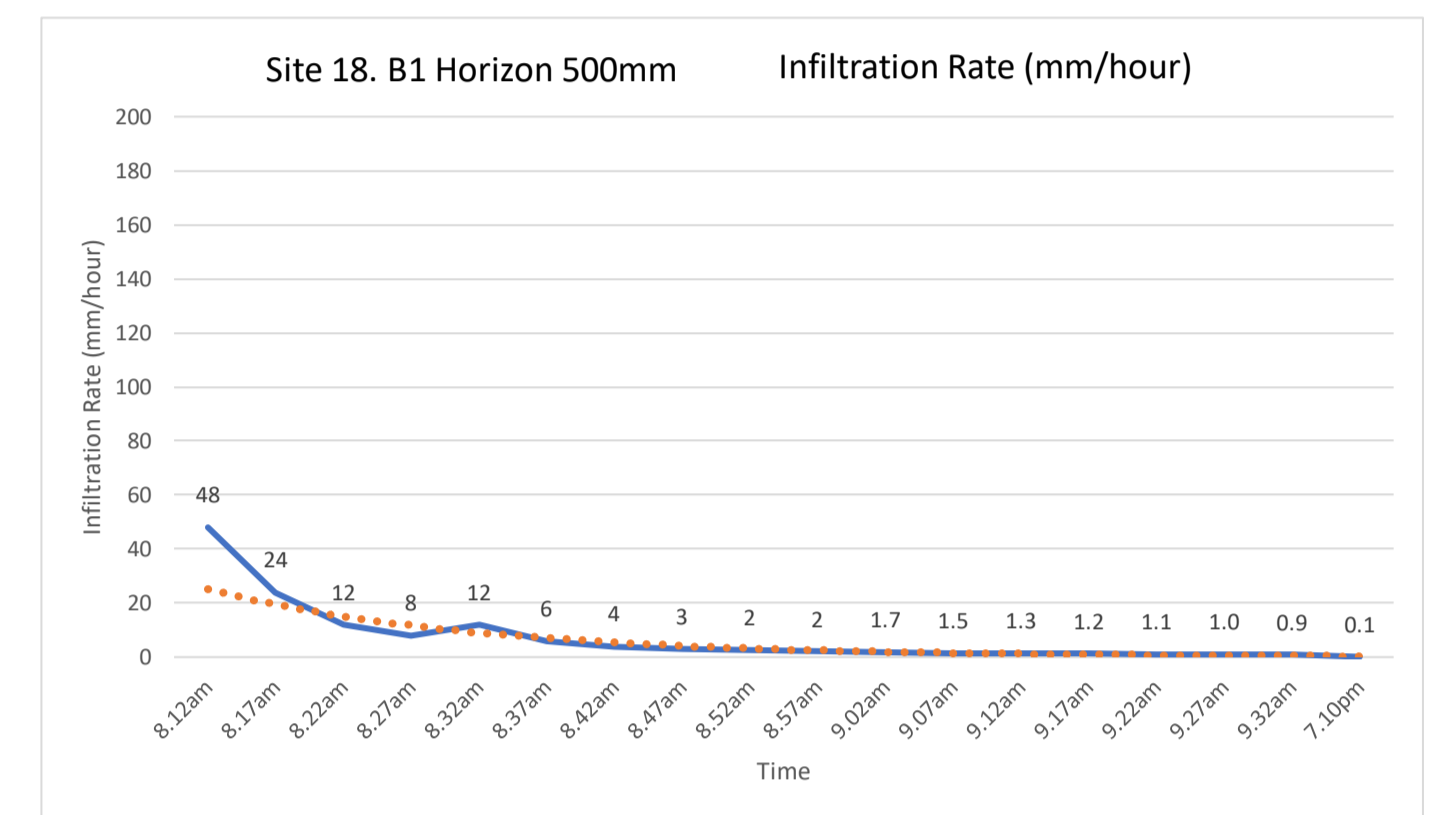
TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
8:05am	Start	21	0	0	0.00	0	8:10am	132
8:10am		32	11	5	2.20	132	8:15am	84
8:15am		39	7	5	1.40	84	8:20am	36
8:20am		42	3	5	0.60	36	8:25am	24
8:25am		44	2	5	0.40	24	8:30am	24
8:30am		46	2	5	0.40	24	8:35am	12
8:35am		50	0	5	0.20	12	8:40am	8
8:40am		50	0	5	0.13	8	8:45am	36
8:45am		53	3	5	0.60	36	8:50am	18
8:50am		53	0	5	0.30	18	8:55am	36
8:55am		56	3	5	0.60	36	9:00am	24
9:00am		58	2	5	0.40	24	9:05am	36
9:05am		61	3	5	0.60	36	9:10am	24
9:10am		63	2	5	0.40	24	9:15am	12
9:15am		63	0	5	0.20	12	9:20am	72
9:20am		69	6	5	1.20	72	9:25am	12
9:25am		70	1	5	0.20	12	9:30am	12
9:30am		71	1	5	0.20	12	9:35am	12
9:35am		72	1	5	0.20	12		
Total water infiltrated into profile (mm):			47					
Total Time Elapsed (hours):			1.50					



DATE: 26/11/2020 GPS COORDINATES
 SESW SITE NO: Site 18. B1 Horizon 500mm. ZONE: 55H
 KALBAR SITE NO: McMahon Valley Slopes - Additional Site 1 GPS EASTING: 530181
 ASSESSOR: Christian Bannan, SESW. GPS NORTHING: 5817427
 RING DIAMETER: 350mm diameter
 RING HEIGHT ABOVE SURFACE AFTER INSTALLATION: 250 mm

Data for Graphing:

TIME	Notes	WATER HEIGHT FROM TOP OF RING (mm)	INFILTRATION (mm)	Time Elapsed (mins)	Infiltration Rate (mm/min)	Infiltration Rate (mm/hour)	TIME	Infiltration Rate (mm/hour)
8:07am	Start	21	0	0	0	0.0	8:12am	48
8:12am		25	4	5	0.8	48.0	8:17am	24
8:17am		27	2	5	0.4	24.0	8:22am	12
8:22am		27	0	5	0.20	12.0	8:27am	8
8:27am		27	0	5	0.13	8.0	8:32am	12
8:32am		28	1	5	0.2	12.0	8:37am	6
8:37am		28	0	5	0.100	6.0	8:42am	4
8:42am		28	0	5	0.067	4.0	8:47am	3
8:47am		28	0	5	0.050	3.0	8:52am	2
8:52am		28	0	5	0.040	2.4	8:57am	2
8:57am		28	0	5	0.033	2.0	9:02am	1.7
9:02am		28	0	5	0.029	1.71	9:07am	1.5
9:07am		28	0	5	0.025	1.50	9:12am	1.3
9:12am		28	0	5	0.022	1.33	9:17am	1.2
9:17am		28	0	5	0.020	1.20	9:22am	1.1
9:22am		28	0	5	0.018	1.09	9:27am	1.0
9:27am		28	0	5	0.017	1.00	9:32am	0.9
9:32am		28	0	5	0.015	0.92	7:10pm	0.1
7:10pm		28	0	578	0.002	0.09		
Total water infiltrated into profile (mm):			7					
Total Time Elapsed (hours):			11.05					



KALBAR OPERATIONS - FINGERBOARDS PROJECT.
 INFILTRATION TESTING.
 SUMMARY OF RESULTS AT FINAL MEASUREMENT.
 NOVEMBER / DECEMBER 2020.

A Horizon Surface Soils	A Horizon Surface Soils	Time elapsed after measurement (hours)	A Horizon Surface Infiltration Rate (mm/hour) at final measurement
Kalbar Grassy Woodland Plateau S6	Site 1. A Horizon Surface	1.58	420
Kalbar Grassy Woodland Plateau S10	Site 2. A Horizon Surface	1.75	144
Kalbar Grassy Woodland Plateau S11	Site 3. A Horizon Surface	1.58	192
Kalbar Grassy Woodland Plateau S4	Site 4. A Horizon Surface	1.58	48
Kalbar Grassy Woodland Plateau S12	Site 5. A Horizon Surface	1.58	36
Kalbar Grassy Woodland Plateau S14	Site 6. A Horizon Surface	1.58	48
McMahon Plateau Grazing S1	Site 7. A Horizon Surface	1.50	168
McMahon Plateau Grazing S2	Site 8. A Horizon Surface	1.50	108
McMahon Plateau Grazing S4	Site 9. A Horizon Surface	1.50	132
McMahon Plateau Grazing S6	Site 10. A Horizon Surface	2.20	27
Davidson Plateau Grazing S1	Site 11. A Horizon Surface	1.58	48
Davidson Plateau Grazing S2	Site 12. A Horizon Surface	1.58	312
McMahon Valley Slopes S1	Site 13. A Horizon Surface	1.50	108
McMahon Valley Slopes - Additional Site 1	Site 14. A Horizon Surface	1.50	96
McMahon Valley Slopes S6	Site 15. A Horizon Surface	1.50	48
McMahon Valley Slopes S8	Site 16. A Horizon Surface	1.50	60
Davidson Valley Slopes S1	Site 17. A Horizon Surface	1.58	240
McMahon Valley Slopes - Additional Site 2	Site 18. A Horizon Surface	1.50	12

Deeper Infiltration Samples	Time elapsed after measurement (hours)	Subsurface or B Horizon Infiltration Rate (mm/hour) at final measurement
Site 1. A3 Horizon 550mm	1.58	240
Site 2. B1 Horizon. 650mm	23.7	0.06
Site 3. B1 Horizon 1100mm	21.5	0.14
Site 4. B1 horizon 250mm.	4.38	0.26
Site 5. B2 horizon 800mm.	5.88	0.22
Site 6. B1 Horizon 250mm	19.72	0.07
Site 7. B1 Horizon 500mm	20.97	2.62
Site 8. B1 Horizon 500mm	1.58	1.50
Site 9. A3 Horizon 500mm	2.47	37.2
Site 10. B1 Horizon 250mm	2.17	1.64
Site 11. B1 Horizon 300mm	1.58	2.40
Site 12. A3 Horizon 650mm	1.58	288
Site 13. B Horizon 1100mm Medium Clay with Gravel	1.50	3.00
Site 14. A3 Horizon 1.0m Coarse Loamy Sand & Gravel	23.37	1.91
Site 15. B2 Horizon 850mm	1.50	1.85
Site 16. A2 Horizon 300mm Coarse Loamy Sand and Gravel	1.50	24.0
Site 17. B1 Horizon 1300mm Base of Pit.	1.58	12.0
Site 18. B1 Horizon 500mm.	11.05	0.09

Very high infiltration rate
 High infiltration rate

Sample Name	Paddock Name	Sample Depth From	Sample Depth To	pH (1:5 Water)	pH (1:5 CaCl2)	Electrical Conductivity (1:5 water) dS/m	Elec. Cond. (Sat. Ext.) dS/m	Chloride mg/kg	Nitrate Nitrogen mg/kg	Ammonium Nitrogen mg/kg	Phosphorus Total N (Olsen) mg/kg	Phosphorus (PBI-Col) mg/kg	Phosphorus Available mg/kg	Calcium (Amm-act.) cmol(+)/kg	Potassium (Amm-act.) cmol(+)/kg	Magnesium (Amm-act.) cmol(+)/kg	Sodium (Amm-act.) cmol(+)/kg	Calcium / Magnesium Ratio	Aluminium (KCl) cmol(+)/kg	Cation Exch. Cap. cmol(+)/kg	Sodium % of Cations (ESP) %	Aluminium Saturation %	Copper (DTPA) mg/kg	Iron (DTPA) mg/kg	Manganese (DTPA) mg/kg	Zinc (DTPA) mg/kg	Boron (Hot CaCl2) mg/kg	Sulphur (KCl40) mg/kg	Organic Carbon (W&B) %	Soil Colour	Soil Texture	Aluminium (KCl) mg/kg	Calcium (Amm-act.) %	Magnesium (Amm-act.) %	Potassium (Amm-act.) %	Matter (W&B * 1.72) %	Phosphorus (Colwell) mg/kg	Phosphorus (Colwell) mg/kg	Phosphorus Environmental Risk Index		
																																								4 <4.5	2
PP_5_1A	PINE PLANTATION	0	300	5.7	4.5	0.02	0.2 <10	0.5	0.6	1.7	2.3	3	45	25	0.8	0.06	0.4	<0.02	2.1	0.4	1.6	<1.00	21	0.09	100	7.6	0.32	0.2	3	0.7	Brown	Sand	32	51	24	3.8	1.1	9	26	0.19	
PP_5_1B	PINE PLANTATION	300	600	6.2	5.2	0.02	0.2 <10	0.3	0.6	1.7	2.3	2	260	15	0.3	0.04	0.7	0.16	0.4	0.1	1.3	13	10	0.05	44	0.5	0.16	0.2	14	0.3	Orange/Yellow	Sandy Loam	12	19	55	3	0.5	6	<20	0.02	
PP_5_2A	PINE PLANTATION	0	300	5	4	0.04	0.4	23	3.8	2.8	6.6	3	69	21	0.5	0.05	0.5	0.12	1	0.9	2.1	5.9	43	0.4	390	3	0.33	0.4	3	1.5	Grey	Sandy Loam	81	24	24	2.5	2.5	10	<20	0.14	
PP_5_2B	PINE PLANTATION	300	600	6.3	4.7	0.03	0.3	19	1	1.3	2.3	2	26	12	0.1	0.03	1.3	0.34	0	0.2	1.9	18	8.6	0.07	41	0.3	0.38	0.3 <1	0.2	Brown	Sandy Loam	15	3.2	69	1.6	0.3	6	<20	0.23		
PP_5_3A	PINE PLANTATION	0	300	5.4	4.1	0.01	0.1 <10	0.5	0.5	0.9	1.4	9	21	12	1.1	0.03	0.7	0.03	1.5	0.3	2.2	1.5	14	0.7	67	3.6	0.73	0.1 <1	0.7	Grey	Sand	27	51	33	1.3	1.2	18	<20	0.86		
PP_5_3B	PINE PLANTATION	300	600	4.9	3.7	0.02	0.2	12	1.2	1.9	3.1	7	29	<5	0.9	<0.01	0.3	0.02	3.3	0.7	1.9	1.3	37	0.06	67	0.5	0.58	0.1	2	0.8	Grey	Sand	65	47	14	<1.00	1.4	14	<20	0.48	
PP_5_4A	PINE PLANTATION	0	300	6.1	4.8	0.02	0.2 <10	0.7	0.7	3	3.7	5	57	23	2.5	0.06	1.3	0.07	1.9	0.2	4	1.8	3.8	0.17	140	11	0.48	0.2	1	1.6	Brown	Sandy Loam	14	62	31	1.4	2.7	9	39	0.16	
PP_5_4B	PINE PLANTATION	300	600	6.3	4.5	0.02	0.2 <10	0.7	0.7	1.1	1.8	3	30	9	0.3	0.02	0.3	0.08	1.1	0.4	1.1	7.7	32	0.06	74	1.3	0.49	0.1	2	0.2	Brown	Sandy Loam	32	31	27	2.1	0.4	6	<20	0.21	
Grassy Woodland plateau s1_A	Pasture	0	300	6	4.6	0.02	0.2 <10	0.5	0.5	0.9	1.4	3	54	6	0.4	0.02	0.3	0.09	1.1	0.4	1.2	7.4	31	0.06	150	0.3	0.21	0.2	2	0.3	Brown	Sandy Loam	34	33	28	1.2	0.5	7	<20	0.13	
Grassy Woodland plateau s1_B	Pasture	300	600	5.6	4.5	0.03	0.3	16	1.4	1.9	3.3	5	62	14	1.5	0.04	0.6	0.14	2.7	0.5	2.7	5.1	17	0.12	200	4.8	0.52	0.2	4	1.4	Grey	Sandy Loam	41	57	20	1.3	2.3	13	<20	0.21	
Grassy Woodland plateau s2_A	Pasture	0	300	5.6	4.4	0.04	0.4	14	1.6	2.8	4.4	4	61	17	0.8	0.04	0.3	0.19	2.9	0.5	1.8	11	26	0.12	300	18	0.74	0.3	3	1.4	Grey	Sandy Loam	42	45	16	2.4	2.4	10	<20	0.16	
Grassy Woodland plateau s2_B	Pasture	300	600	6.3	4.6	0.09	0.6	38	0.9	4.1	5 <2	4	130	42	0.7	0.11	7	2	0.1	0.6	10.3	19	5.5	0.17	50	0.5	0.89	0.9	4	0.3	Brown	Clay	51	6.6	68	1.1	0.5 <5	36	36	0.04	
Grassy Woodland plateau s3_A	Pasture	0	300	5.4	4.2	0.02	0.2 <10	0.7	2.7	1.2	3.9	4	26	12	1.2	0.03	0.4	0.05	3.2	0.4	2	2.5	19	0.06	96	5.8	0.64	0.2	3	1	Grey	Sand	34	59	19	1.6	1.6	11	<20	0.42	
Grassy Woodland plateau s3_B	Pasture	300	600	5.6	4.7	0.04	0.5	31 <0.5	1.4	<1.9	3	63	<5	0.3	0.09	1.1	0.4	1.3	7.5	35	0.22	8.3	7.5	35	0.22	83	0.8	0.38	0.1	3	0.4	Brown	Sand	39	30	28	<1.00	0.7	7	<20	0.12
Grassy Woodland plateau s4_A	Pasture	0	300	5.9	4.5	0.05	0.4	33	2.8	1.4	4.2	4	24	14	0.6	0.04	0.5	0.32	1.4	0.2	1.6	19	11	0.7	130	18	0.48	0.2	5	0.7	Brown	Clay Loam	17	39	29	2.2	1.2	12	20	0.5	
Grassy Woodland plateau s4_B	Pasture	300	600	6.5	4.9	0.1	0.6	91 <0.5	1.2	<1.7	2	44	26	0.3	0.07	4.2	1.5	0.1	0.2	6.3	24	2.4	0.28	40	2.9	0.25	0.3	7	0.3	Brown	Clay	13	5.4	67	1.1	0.5	6	24	0.14		
Grassy Woodland plateau s5_A	Pasture	0	300	5.3	4.1	0.05	0.5	31	0.9	1.5	15.9	7	63	27	1	0.07	0.6	0.18	1.6	0.7	2.6	6.8	2.6	0.08	170	4.7	0.57	0.2	7	1.7	Grey	Sandy Loam	60	40	25	2.6	2.8	12	29	0.19	
Grassy Woodland plateau s5_B	Pasture	300	600	5.8	4.4	0.02	0.2 <10	0.7	0.8	1.5	3	52	<5	0.1	<0.01	0.3	0.11	0.5	0.6	1.1	10	54	0.05	86	0.3	0.17	0.2	2	0.4	Grey	Sand	54	12	24	<1.00	0.8	8	<20	0.14		
Grassy Woodland plateau s6_A	Pasture	0	300	5.6	4.2	0.02	0.2 <10	0.2	2.4	4.6	6	19	33	0.7	0.08	0.3	0.03	2.8	0.2	1.3	2.6	18	0.09	55	5.5	0.71	0.1	1	0.6	Grey	Sand	21	54	19	6.4	1	13	48	0.68		
Grassy Woodland plateau s6_B	Pasture	300	600	6	4.8	0.02	0.2 <10	0.7	0.7	0.8	1.5	3	52	<5	0.1	<0.01	0.3	0.11	0.5	0.6	1.1	10	54	0.05	86	0.3	0.17	0.2	2	0.4	Grey	Sand	54	12	24	<1.00	0.8	8	<20	0.14	
Grassy Woodland plateau s7_A	Pasture	0	300	5.6	4.4	0.04	0.3	14	9.5	2.6	12.1	6	84	53	2.4	0.14	0.8	0.16	2.9	0.4	4	4.1	11	0.16	180	14	0.69	0.3	2	2.1	Grey	Clay Loam	40	60	21	3.4	0.6	14	66	0.17	
Grassy Woodland plateau s7_B	Pasture	300	600	6.5	4.8	0.08	0.5	63	1.2	1.3	2.5 <2	110	60	1.4	0.15	7.2	1.6	0.2	0.4	10.9	15	3.9	0.16	36	0.4	0.36	1.3	6	0.3	Orange/Yellow	Clay	39	13	66	1.4	0.6 <5	59	59	0.05		
Grassy Woodland plateau s8_A	Pasture	0	300	5.2	4	0.05	0.4	18	5.1	2.5	7.6	8	76	52	0.6	0.13	1	0.29	0.7	1.1	3.1	9.3	35	0.18	810	11	1.3	0.2	5	1.8	Grey	Clay Loam	98	20	32	4.2	3.1	19	48	0.25	
Grassy Woodland plateau s8_B	Pasture	300	600	5.6	4.1	0.09	0.6	41	0.8	1.1	1.9 <2	14	290	88	0.1	0.23	6.5	1.6	0	4.3	12.7	13	34	<0.01	34	0.3	0.14	0.9	9	0.3	Orange/Yellow	Clay Loam	380	0.5	51	1.8	0.6	6	72	0.02	
Grassy Woodland plateau s9_A	Pasture	0	300	5.8	4.7	0.06	0.5	23	7.4	1.1	8.5	14	41	80	2.7	0.2	1.2	0.27	2.3	0.1	4.4	6	2.3	0.28	280	18	1.6	0.4	6	1.7	Brown	Clay Loam	9.1	60	27	4.6	2.9	29	83	0.71	
Grassy Woodland plateau s9_B	Pasture	300	600	5.2	4.2	0.25	1.6	210	0.7	2.2	2.9 <2	330	180	1.1	0.47	12	2.3	0.1	3	18.9	12	16	0.05	33	0.3	0.2	1	33	0.4	Brown	Clay	270	5.6	64	2.5	0.7 <5	15	160	0.02		
Grassy Woodland plateau s10A	Pasture	0	300	4.9	3.9	0.03	0.4	<10	4.1	1.3	5.4	6	41	26	0.9	0.07	0.3	0.07	3.2	1	2.2	3.2	44	0.08	160	11	0.6	0.2	3	1.5	Grey	Sand	88	38	12	2.9	2.6	15	28	0.37	
Grassy Woodland plateau s10_B	Pasture	300	600	5.3	4.2	0.02	0.2 <10	1.2	0.9	2.1	5	34	17	0.5	0.04	0.2	0.05	2.4	0.8	1.6	2.9	49	0.05	180	0.6	0.29	0.2	3	0.5	Brown	Sand	68	32	14	2.8	0.9	11	21	0.32		
Grassy Woodland plateau s11_A	Pasture	0	300	5.3	4.1	0.03	0.4	22	2.4	<0.6	5	27	41	0.9	0.1	0.2	0.06	3.5	0.3	1.6	3.7	21	0.08	66	4.4	0.67	0.1	3	0.7	Grey	Sand	30	53	15	6.6	1.3	13	46	0.48		
Grassy Woodland plateau s11_B	Pasture	300	600	5.5	4.3	0.02	0.2	37	1.1	0.6	1.7	4	28	16	0.5	0.04	0.2	0.05	2.7	0.3	1.1	4.5	31	0.06	60	0.2	0.31	0.1	1	0.4	Brown	Sand	31	44	17	3.7	0.7	10	30	0.35	
Grassy Woodland plateau s12_A	Pasture	0	300	4.9	4	0.07	0.7	33	1.8	5.7	23.7	7	48	25	0.9	0.06	0.4	0.18	2.2	0.6	2.2	8.4	25	0.1	310	13															

Sample Name	Paddock Name	Sample Depth From	pH (1:5 Water)	pH (1:5 CaCl2)	Electrical Conductivity (1:5 water) dS/m	Elec. Cond. (Sat. Ext.) dS/m	Chloride mg/kg	Nitrate Nitrogen mg/kg	Ammonium Nitrogen mg/kg	Total N mg/kg	Phosphorus (Olsen) mg/kg		Phosphorus Buffer Index (PBI-Col)		Available Potassium mg/kg	Calcium (Ammonium) mg/kg	Potassium (Ammonium) mg/kg	Magnesium (Ammonium) mg/kg	Sodium (Ammonium) mg/kg	Calcium / Magnesium Ratio	Aluminium (KCl) cmol(+) / kg	Cation Exch. Cap. cmol(+) / kg	Sodium % of Cations (ESP) %	Aluminium Saturation (%)	Copper (DTPA) mg/kg	Iron (DTPA) mg/kg	Manganese (DTPA) mg/kg	Zinc (DTPA) mg/kg	Boron (Hot CaCl2) mg/kg	Sulphur (KCl40) mg/kg	Organic Carbon (W&B) %	Soil Colour	Soil Texture	Aluminium (KCl) mg/kg	Calcium (Ammonium) mg/kg	Magnesium (Ammonium) mg/kg	Potassium (Ammonium) mg/kg	Organic Matter (W&B * 1.72) %	Phosphorus (Colwell) mg/kg	Potassium (Colwell) mg/kg	Phosphorus Environment Risk Index	
											3	45	25	0.8																												0.06
PP_S_1A	PINE PLANTATION	0	300	5.7	4.5	0.02	0.2	0	0	4	0	3	45	25	0.8	0.06	0.4	0	2.1	0.4	1.6	0	21	0.09	100	7.6	0.32	0.2	3	0.7	Brown	Sand	32	51	24	3.8	1.1	9	26	0.19		
PP_S_1B	PINE PLANTATION	300	600	6.2	5.2	0.02	0.2	0	0.6	1.7	2.3	2	260	15	0.3	0.04	0.7	0.16	0.4	0.1	1.3	19	0.05	44	0.5	0.16	0.2	14	0.3	Orange/Yellow	Sand	12	19	55	2.5	0.5	6	0	0.02			
PP_S_2A	PINE PLANTATION	0	300	5	4	0.04	0.4	23	3.8	2.8	6.6	3	60	21	0.5	0.05	0.4	0.7	0.12	1	0.9	2.1	5.9	43	0.4	390	3	0.33	0.4	3	1.5	Grey	Sandy Loam	81	24	24	2.5	2.5	10	0	0.14	
PP_S_2B	PINE PLANTATION	300	600	6.3	4.7	0.03	0.3	19	1	1.3	2.3	2	26	12	0.1	0.03	0.3	0.34	0	0.2	1.5	19	0.03	38	8.6	0.07	41	0.3	0.38	0.3	0	0.2	Brown	Sandy Loam	15	3.2	69	1.6	0.3	6	0	0.28
PP_S_3A	PINE PLANTATION	0	300	5.4	4.1	0.01	0.1	0	0.5	0.9	1.4	9	29	12	1.1	0.03	0.7	0.03	1.5	0.3	2.2	1.5	14	0.7	67	3.6	0.73	0.1	0	0.7	Grey	Sand	27	51	33	1.2	1.2	18	0	0.86		
PP_S_3B	PINE PLANTATION	300	600	4.9	3.7	0.02	0.2	12	1.2	1.9	3.1	7	29	0	0.9	0	0.3	0.02	3.3	0.7	1.9	1.3	37	0.06	67	0.5	0.58	0.1	2	0.8	Grey	Sand	65	47	14	0	1.4	14	0	0.43		
PP_S_4A	PINE PLANTATION	0	300	6.1	4.8	0.02	0.2	0	0.7	3	3.7	5	57	23	2.5	0.06	1.3	0.07	1.9	0.2	4	1.8	3.8	0.17	140	1.1	0.48	0.2	1	1.6	Brown	Sandy Loam	14	62	31	1.4	2.7	9	39	0.16		
PP_S_4B	PINE PLANTATION	300	600	5.8	4.5	0.02	0.2	0	0.7	1.1	1.8	3	30	9	0.3	0.02	0.3	0.08	1.1	0.4	1.1	7.7	32	0.06	74	1.3	0.49	0.1	2	0.2	Brown	Sandy Loam	32	31	27	2.1	0.4	6	0	0.21		
				5.55	4.35	0.0225	0.225	5.75	1.25	2.675	2.925	5	48	20.25	1.225	0.05	0.725	0.955	1.625	0.45	2.475	2.3	20.45	0.34	174.25	0.63	0.465	0.225	1.75	1.125	#VALUE!	#VALUE!	38.5	47	28	2.25	1.875	11.5	16.25	0.3375		
				5.8	4.525	0.0225	0.225	7.75	0.875	1.5	2.375	3.5	86.25	9	0.4	0.0225	0.65	0.15	1.2	0.5	1.55	2.0	21.9	0.06	56.5	0.65	0.4025	0.175	4.5	1.375	#VALUE!	#VALUE!	31	25.05	41.25	1.675	0.65	8	0	0.235		
Grassy Woodland plateau s1_A	Pasture	0	300	6	4.6	0.02	0.2	0	0.5	0.9	1.4	3	54	6	0.4	0.02	0.3	0.09	1.1	0.4	1.2	7.4	31	0.06	150	0.3	0.21	0.2	2	0.3	Brown	Sandy Loam	34	33	28	1.2	0.5	7	0	0.13		
Grassy Woodland plateau s1_B	Pasture	300	600	5.6	4.5	0.03	0.3	16	1.4	1.9	3.3	5	62	14	1.5	0.04	0.6	0.14	2.7	0.5	2.7	5.1	17	0.12	200	4.8	0.52	0.2	4	1.4	Grey	Sandy Loam	41	57	20	1.3	2.3	13	0	0.21		
Grassy Woodland plateau s2_A	Pasture	0	300	5.6	4.4	0.04	0.4	14	1.6	2.8	4.4	4	61	17	0.8	0.04	0.3	0.19	2.9	0.9	0.5	1.9	26	0.12	300	18	0.74	0.3	3	1.4	Grey	Sandy Loam	42	45	16	1.6	2.4	10	0	0.16		
Grassy Woodland plateau s2_B	Pasture	300	600	6.3	4.6	0.09	0.6	38	0.9	4.1	5	0	130	42	0.7	0.11	7	2	0.1	0.6	10.3	18	5.5	0.17	50	0.5	0.89	0.9	4	0.3	Brown	Clay	51	6.6	68	1.1	0.5	0	36	0.04		
Grassy Woodland plateau s3_A	Pasture	0	300	5.4	4.2	0.02	0.2	0	2.7	1.2	3.9	4	26	12	1.2	0.03	0.4	0.05	3.2	0.4	2	2.5	19	0.06	96	5.8	0.64	0.2	3	1	Grey	Sand	34	59	19	1.6	1.6	11	0	0.42		
Grassy Woodland plateau s3_B	Pasture	300	600	5.6	4.7	0.04	0.5	31	0	1.4	0	3	63	0	0.4	0	0.3	0.09	1.1	0.4	1.3	7.5	35	0.22	83	0.8	0.38	0.1	3	0.4	Brown	Sand	39	30	28	0	0.7	7	0	0.12		
Grassy Woodland plateau s4_A	Pasture	0	300	5.9	4.5	0.05	0.4	33	2.8	1.4	4.2	4	24	14	0.6	0.04	0.5	0.32	1.4	0.2	6.3	18	11	0.7	130	18	0.48	0.2	5	0.7	Brown	Clay Loam	17	39	29	2.2	1.2	12	20	0.5		
Grassy Woodland plateau s4_B	Pasture	300	600	6.5	4.9	0.1	0.6	91	0	1.2	0	2	44	26	0.3	0.07	4.2	1.5	0.1	0.2	1.6	24	2.4	0.28	40	2.9	0.25	0.3	7	0.3	Brown	Clay	13	5.4	67	1.3	0.5	6	24	0.14		
Grassy Woodland plateau s5_A	Pasture	0	300	5.3	4.1	0.05	0.5	31	0.9	1.5	15.9	7	63	27	1	0.07	0.6	0.18	1.6	0.7	2.6	6.8	26	0.08	170	4.7	0.57	0.2	7	1.7	Grey	Sandy Loam	60	40	25	2.6	2.8	12	29	0.19		
Grassy Woodland plateau s5_B	Pasture	300	600	5.8	4.4	0.02	0.2	0	0.7	0.8	0	0.7	52	0	0.1	0	0.3	0.11	0.5	0.6	1.1	10	54	0.05	86	0.3	0.17	0.2	2	0.4	Grey	Sand	50	12	24	0	0.8	8	0	0.14		
Grassy Woodland plateau s6_A	Pasture	0	300	5.6	4.2	0.02	0.2	0	2.2	2.4	4.6	6	19	33	0.7	0.08	0.3	0.03	2.8	0.2	1.3	2.6	18	0.09	55	5.5	0.71	0.1	1	0.6	Grey	Sand	21	54	19	6.4	3	13	48	0.68		
Grassy Woodland plateau s6_B	Pasture	300	600	6	4.8	0.03	0.3	22	2.4	0	0	0	4	28	0.6	0.03	0.3	0.02	1.9	0.2	1.1	2	16	0.04	53	0.5	0.49	0.1	1	0.3	Brown	Sand	16	52	27	3	0.6	11	24	0.39		
Grassy Woodland plateau s7_A	Pasture	0	300	5.6	4.4	0.04	0.3	14	9.5	2.6	12.1	6	84	53	2.4	0.14	0.8	0.16	2.9	0.4	4	4.1	11	0.16	180	14	0.69	0.3	2	2.1	Grey	Clay Loam	40	60	21	3.4	3.6	14	66	0.17		
Grassy Woodland plateau s7_B	Pasture	300	600	6.5	4.8	0.08	0.5	63	1.2	1.3	2.5	0	110	60	1.4	0.15	7.2	1.6	0.2	0.4	10.9	13	3.9	0.16	36	0.4	0.36	1.3	6	0.3	Orange/Yellow	Clay	39	13	66	1.4	0.6	0	59	0.05		
Grassy Woodland plateau s8_A	Pasture	0	300	5.2	4	0.05	0.4	18	5.1	2.5	7.6	8	76	52	0.6	0.13	1	0.29	0.7	1.1	3.1	9.3	35	0.18	810	11	1.3	0.2	5	1.8	Grey	Clay Loam	98	20	32	4.2	3.1	19	48	0.25		
Grassy Woodland plateau s8_B	Pasture	300	600	5.6	4.1	0.09	0.6	41	0.8	1.1	1.9	0	290	88	0.1	0.23	6.5	1.6	0	4.3	12.7	13	34	0	34	0.3	0.14	0.9	9	0.3	Orange/Yellow	Clay	380	0.5	51	1.8	0.6	6	72	0.02		
Grassy Woodland plateau s9_A	Pasture	0	300	5.8	4.7	0.06	0.5	23	7.4	1.1	8.5	14	41	80	2.7	0.2	1.2	0.27	2.3	0.1	4.4	6	2.3	0.28	280	18	1.6	0.4	6	1.7	Brown	Clay Loam	91	60	27	4.6	2.9	29	83	0.71		
Grassy Woodland plateau s9_B	Pasture	300	600	5.2	4.2	0.25	1.6	210	0.7	2.2	2.9	0	330	180	1.1	0.47	12	2.3	0.1	3	18.9	13	16	0.05	33	0.3	0.2	1	33	0.4	Brown	Clay	270	5.6	64	2.5	0.7	0	160	0.02		
Grassy Woodland plateau s10A	Pasture	0	300	4.9	3.9	0.03	0.4	0	4.1	1.3	5.4	6	41	26	0.9	0.07	0.3	0.07	3.2	1	2.2	3.2	44	0.08	160	11	0.6	0.2	3	1.5	Grey	Sand	88	38	12	2.9	2.6	15	28	0.37		
Grassy Woodland plateau s10_B	Pasture	300	600	5.3	4.2	0.02	0.2	0	1.2	0.9	2.1	5	34	17	0.5	0.04	0.2	0.05	2.4	0.8	1.6	2.9	49	0.05	180	0.6	0.29	0.2	3	0.5	Brown	Sand	68	32	14	2.8	0.9	11	21	0.32		
Grassy Woodland plateau s11_A	Pasture	0	300	5.3	4.1	0.03	0.4	22	2.4	0	0	0	41	17	0.1	0.06	0.5	0.2	0.6	3.5	3.7	21	0.08	66	4.4	0.67	0.3	1	0.7	Grey	Sand	30	13	15	6.9	1.3	13	46	0.48			
Grassy Woodland plateau s11_B	Pasture	300	600	5.5																																						

Sample Name	Paddock Name	GPS Long	GPS Lat	SODIUM SAMPLES / SITES		pH (1:5 Water)	Electrical Conductivity (µS/cm)	Elec. Cond. (Sat. Ext.)	Chloride mg/kg	Nitrate Nitrogen mg/kg	Ammonium Nitrogen mg/kg	Total N mg/kg	Phosphorus (Olsen) mg/kg	Phosphorus Buffer Index (PBI-Col)	Available Potassium mg/kg	Calcium (Ammonium-acet) cmol(+) /kg	Potassium (Ammonium-acet) cmol(+) /kg	Magnesium (Ammonium-acet) cmol(+) /kg	Sodium (Ammonium-acet) cmol(+) /kg	Calcium / Magnesium Ratio	Aluminum (KCl) cmol(+) /kg	Cation Exch. Cap. cmol(+) /kg	Aluminum Saturation %	Copper (DTPA) mg/kg	Iron (DTPA) mg/kg	Manganese (DTPA) mg/kg	Zinc (DTPA) mg/kg	Boron (Hot CaCl2) mg/kg	Sulphur (KCl40) mg/kg	Organic Carbon (WBB) %	Soil Colour	Soil Texture	Aluminium (KCl) mg/kg	Calcium (Ammonium-acet) %	Magnesium (Ammonium-acet) %	Potassium (Ammonium-acet) %	Organic Matter (WBB * 1.72) %	Phosphorus (Colwell) mg/kg	Potassium (Colwell) mg/kg	Phosphorus Environmental Risk Index		
				Depth From	Depth To																																				% Cations (ESP)	
Grassy Woodland plateau s1_A	Pasture	528,622.16	5,816,447.55	0	300	7.4	6	4.6	0.02	0.2	0	0.5	0.9	1.4	3	54	16	0.4	0.02	0.3	0.09	1.1	0.4	1.2	31	0.06	150	0.3	0.21	0.2	0.2	4	0.3 Brown	Sandy Loam	44	37	28	1.2	2.3	13	0	0.13
Grassy Woodland plateau s1_B	Pasture	528,743.55	5,816,766.35	0	300	5.1	5.6	4.5	0.03	0.5	31	0.9	1.6	1.4	3	62	14	0.5	0.04	0.6	0.18	2.7	0.5	2.7	17	0.12	200	4.8	0.52	0.2	0.4	1.4 Grey	Sandy Loam	41	53	20	1.3	0.5	7	0	0.21	
Grassy Woodland plateau s2_A	Pasture	528,743.55	5,816,766.35	0	300	11	5.6	4.4	0.04	0.4	14	1.6	2.8	4.4	4	61	17	0.8	0.04	0.3	0.19	2.9	0.5	1.8	26	0.17	300	18	0.74	0.3	0.3	1.4 Grey	Sandy Loam	41	45	16	2.4	2.4	10	0	0.16	
Grassy Woodland plateau s2_B	Pasture	528,649.09	5,817,014.43	0	300	2.5	6.3	4.6	0.02	0.6	38	0.9	4.1	2	5	130	42	0.7	0.11	0.7	0.2	0.1	0.6	10.3	5.5	0.12	50	0.5	0.89	0.9	0.4	0.3 Brown	Clay	52	6.6	68	2.1	0.4	10	0	0.36	
Grassy Woodland plateau s3_A	Pasture	528,649.09	5,817,014.43	0	300	7.5	5.4	4.2	0.02	0.2	0	2.7	1.2	4	26	12	0.4	0.03	0.4	0.05	3.2	0.4	0.4	2	19	0.06	96	0.8	0.64	0.2	0.2	1.1 Grey	Sand	34	54	16	1.6	1.6	11	0	0.42	
Grassy Woodland plateau s3_B	Pasture	528,649.09	5,817,014.43	0	300	7.5	5.6	4.7	0.04	0.5	31	0	1.4	0	3	63	0	0.4	0	0.3	0.09	1.1	0.4	1.3	35	0.22	83	0.8	0.38	0.1	0.3	0.4 Brown	Sand	39	30	28	0	0.7	7	0	0.32	
Grassy Woodland plateau s4_A	Pasture	528,237.15	5,816,444.18	0	300	19	5.9	4.5	0.05	0.4	33	2.8	1.4	4.2	4	24	14	0.6	0.04	0.5	0.32	1.4	0.2	1.6	11	0.7	130	1.8	0.48	0.2	0.5	0.7 Brown	Clay Loam	17	39	29	2.2	1.2	12	20	0.5	
Grassy Woodland plateau s4_B	Pasture	528,237.15	5,816,444.18	0	300	26	6.5	4.9	0.1	0.6	91	0	1.2	0	2	44	26	0.3	0.07	0.4	1.5	0.1	0.2	6.3	24	0.28	40	2.9	0.25	0.3	0.7	0.3 Brown	Clay	13	5.4	67	1.1	0.5	6	24	0.14	
Grassy Woodland plateau s5_A	Pasture	528,237.59	5,816,752.37	0	300	6.8	5.3	4.1	0.05	0.5	31	0.9	1.5	7	63	27	0.1	0.07	0.6	0.18	1.6	0.7	2.6	26	0.08	170	2.6	0.57	0.2	0.7	1.2 Grey	Sandy Loam	60	40	25	0.6	2.8	12	29	0.19		
Grassy Woodland plateau s5_B	Pasture	528,237.59	5,816,752.37	0	300	6.8	5.8	4.4	0.02	0.2	0	0.7	0.8	1.5	3	52	0	0.1	0	0.3	0.11	0.5	0.6	1.1	54	0.05	86	0.3	0.17	0.2	0.2	0.4 Grey	Sand	54	12	24	0	0.8	8	0	0.14	
Grassy Woodland plateau s6_A	Pasture	528,249.74	5,817,066.66	0	300	2.6	5.6	4.2	0.02	0.2	0	2.2	2.4	4.6	6	19	33	0.7	0.08	0.3	0.03	2.8	0.2	1.3	18	0.09	55	5.5	0.71	0.1	0.1	0.6 Grey	Sand	21	54	19	6.4	1	13	48	0.68	
Grassy Woodland plateau s6_B	Pasture	528,249.74	5,817,066.66	0	300	2.6	6	4.8	0.02	0.2	0	2.2	2.4	4.6	6	19	33	0.7	0.08	0.3	0.03	2.8	0.2	1.3	16	0.04	53	5.5	0.49	0.1	0.1	0.3 Brown	Sand	21	52	27	3	0.6	11	24	0.39	
Grassy Woodland plateau s7_A	Pasture	527,569.63	5,816,099.71	0	300	4.1	5.6	4.4	0.04	0.3	14	9.5	2.6	12.1	6	84	53	2.4	0.14	0.8	0.16	2.9	0.4	4	11	0.16	180	14	0.69	0.3	0.2	2.1 Grey	Clay Loam	40	60	21	3.4	3.6	14	66	0.17	
Grassy Woodland plateau s7_B	Pasture	527,569.63	5,816,099.71	0	300	4.1	6.5	4.8	0.08	0.5	69	1.2	1.3	2.5	0	110	60	1.4	0.15	7.2	1.6	0.2	0.4	10.9	3.9	0.16	36	0.4	0.36	1.3	6	0.3 Orange/Yellow	Clay	14	66	14	0.6	0	59	0.05		
Grassy Woodland plateau s8_A	Pasture	527,568.54	5,816,347.81	0	300	9.3	5.2	4	0.05	0.3	18	5.1	2.5	7.6	8	76	52	0.6	0.13	1	0.29	0.7	1.1	3.1	35	0.18	810	11	1.3	0.2	0.5	1.8 Grey	Clay Loam	98	20	32	4.2	3.1	19	48	0.25	
Grassy Woodland plateau s8_B	Pasture	527,568.54	5,816,347.81	0	300	13	5.6	4.1	0.09	0.6	41	0.8	1.1	1.9	0	290	88	0.1	0.23	6.5	1.6	0	4.3	12.7	34	0	34	0.3	0.14	0.9	0.9	0.3 Orange/Yellow	Clay	380	0.5	51	1.8	0.6	6	72	0.02	
Grassy Woodland plateau s9_A	Pasture	527,670.39	5,816,564.36	0	300	6	5.8	4.7	0.06	0.5	23	7.4	1.1	8.5	14	41	80	0.7	0.2	1.2	0.27	2.3	0.1	4.4	23	0.28	280	18	1.6	0.4	0.6	1.5 Grey	Sand	9.1	60	27	4.6	2.9	29	83	0.71	
Grassy Woodland plateau s9_B	Pasture	527,670.39	5,816,564.36	0	300	6	5.2	4.2	0.25	1.6	210	0.7	2.2	2.9	0	330	180	1.1	0.47	12	2.3	0.1	3	18.9	16	0.05	33	0.3	0.2	1	35	0.4 Brown	Clay	270	5.6	64	2.5	0.7	0	160	0.02	
Grassy Woodland plateau s10_A	Pasture	527,720.44	5,816,850.71	0	300	3.2	4.9	3.9	0.03	0.4	0	4.1	1.3	5.4	6	41	26	0.9	0.07	0.3	0.07	3.2	0.1	2.2	44	0.08	160	11	0.6	0.2	0.3	1.5 Grey	Sand	88	38	12	2.9	2.6	15	28	0.37	
Grassy Woodland plateau s10_B	Pasture	527,720.44	5,816,850.71	0	300	2.9	5.3	4.2	0.02	0.2	0	1.2	0.9	2.1	5	34	17	0.5	0.04	0.2	0.05	2.4	0.8	1.6	49	0.05	180	0.6	0.29	0.2	0.3	0.5 Brown	Sand	68	32	14	2.8	0.9	11	21	0.32	
Grassy Woodland plateau s11_A	Pasture	527,691.48	5,817,176.68	0	300	3.7	5.3	4.1	0.03	0.4	27	2.4	0	0	5	27	41	0.9	0.1	0.2	0.06	3.5	0.3	1.6	21	0.08	66	4.4	0.67	0.1	0.3	0.7 Grey	Sand	30	53	15	6.6	1.3	13	46	0.48	
Grassy Woodland plateau s11_B	Pasture	527,691.48	5,817,176.68	0	300	4.5	5.5	4.3	0.02	0.2	37	1.1	0.6	0	2	16	0.5	0.04	0.2	0.05	2.7	0.3	1.1	31	0.06	60	0.2	0.31	0.1	0.1	0.4 Brown	Sand	31	44	17	3.7	1.0	10	30	0.35		
Grassy Woodland plateau s12_A	Pasture	527,039.02	5,816,323.30	0	300	10	4.9	4.4	0.11	0.7	44	0.9	1.1	2	0	58	0.9	0.15	0.8	0.4	0.1	0.01	1.7	18	0.1	210	2.7	0.2	0.2	0.2	0.9	0.3 Orange/Yellow	Sandy Loam	380	5.6	53	0.91	0.6	0	47	0.01	
Grassy Woodland plateau s12_B	Pasture	527,039.02	5,816,323.30	0	300	10	5.9	4.2	0.05	0.3	28	2.7	0.9	3.6	2	110	20	0.1	0.05	2.3	0.62	0.1	1.5	4.6	34	0.05	89	0.4	0.41	0.5	0.3	0.3 Orange/Yellow	Clay	140	2.6	49	1.1	0.5	0	21	0.05	
Grassy Woodland plateau s13_A	Pasture	527,183.71	5,816,633.92	0	300	6.3	5.3	4.2	0.05	0.5	18	5.4	3	8.4	4	140	34	1.5	0.09	1.1	0.26	1.4	1.3	4.3	34	0.19	480	12	0.62	0.3	0.7	2.2 Brown	Sandy Loam	120	3.5	26	2.1	3.7	11	41	0.08	
Grassy Woodland plateau s13_B	Pasture	527,183.71	5,816,633.92	0	300	11	5.8	4.1	0.04	0.2	0	1.7	1.5	3.2	3	180	18	0.4	0.05	1.1	0.42	0.4	1.9	3.9	48	0.2	240	0.8	0.4	0.4	0.3	0.9 Brown	Clay	170	10	29	1.2	1.6	8	25	0.05	
Grassy Woodland plateau s14_A	Pasture	527,063.49	5,817,033.33	0	300	11	5.5	4.2	0.05	0.4	35	2.1	1.6	3.7	5	51	37	0.6	0.1	0.7	0.36	0.9	0.6	2.4	25	0.16	340	12	0.84	0.2	0.4	1.1 Brown	Clay Loam	53	26	30	3.9	1.7	10	50	0.19	
Grassy Woodland plateau s14_B	Pasture	527,063.49	5,817,033.33	0	300	11	6.9	5.8	0.07	1.7	290	0.8	1.6	2	0	87	51	0.5	0.13	6.8	3.2	0.1	0.1	10.7	1.2	0.21	33	0.3	0.26	0.8	1.4	0.3 Orange/Yellow	Clay	12	4.3	64	2.6	0.5	0	49	0.04	
Grassy Woodland plateau s15_A	Pasture	527,151.57	5,817,351.55	0	300	7.7	5.8	4.5	0.06	0.5	28	5.4	2	7.4	4	150	68	2.3	0.17	2.8	0.52	0.8	1	6.8	14	0.16	590	6.3	1.1	0.3	0.3	2.8 Brown	Clay Loam	88	35	41	2.6	4.8	11	110	0.07	
Grassy Woodland plateau s15_B	Pasture	527,151.57	5,817,351.55	0	300	7.7	5.8	4.5	0.1	0.6	64	1.1	1.3	2.4	0	270																										

SEW INSPECTION PIT & INFILTRATION SITE NO 116 SITES IN TOTAL										SOIL SAMPLES / SITES																																	
Sample Name	Paddock Name	GPS Long	GPS Lat	Sample Depth From	Sample Depth To	Sodium % of Cations (ESP) %	pH (1.5 Water)	pH (1.5 CaCl2)	Electrical Conductivity (1.5 water) dS/m	Elec. Cond. (Sat. Excl.) dS/m	Chloride mg/kg	Nitrate Nitrogen mg/kg	Ammonium Nitrogen mg/kg	Total N mg/kg	Phosphorus (Olsen) mg/kg	Phosphorus Buffer Index (PBI-Col)	Available Potassium mg/kg	Calcium (Amm-acet) cmol(+)/kg	Potassium (Amm-acet) cmol(+)/kg	Magnesium (Amm-acet) cmol(+)/kg	Sodium (Amm-acet) cmol(+)/kg	Calcium / Magnesium Ratio	Aluminium (KCl) cmol(+)/kg	Cation Exch. Cap. cmol(+)/kg	Aluminium Saturation %	Copper (DTPA) mg/kg	Iron (DTPA) mg/kg	Manganese (DTPA) mg/kg	Zinc (DTPA) mg/kg	Boron (Hot CaCl2) mg/Kg	Sulphur (KCl40) mg/kg	Organic Carbon (WBB) %	Soil Colour	Soil Texture	Aluminium (KCl) mg/Kg	Calcium (Amm-acet) %	Magnesium (Amm-acet) %	Potassium (Amm-acet) %	Organic Matter (WBB * 1.72) mg/Kg	Phosphorus (Colwell) mg/Kg	Potassium (Colwell) mg/Kg	Phosphorus Environmental Risk Index	
30130719 Grassy Woodland plateau s1_A	Pasture	Grassy Woodland s1	528,662.16	5,816,447.55	0	300	7.4	6	4.6	0.02	0.2	0	0.5	0.9	14	3	54	6	0.4	0.02	0.3	0.09	1.1	0.2	0.4	0.1	31	0.06	150	0.3	0.21	0.2	2	0.3 Brown	Sandy Loam	34	33	28	1.2	0.5	7	0	0.13
30130720 Grassy Woodland plateau s1_B	Pasture	Grassy Woodland s1	528,662.16	5,816,447.55	300	600	5.1	5.6	4.5	0.03	0.3	16	1.4	1.9	3.3	5	62	14	1.5	0.04	0.6	0.14	2.7	0.5	2.7	0.1	17	0.12	200	4.8	0.52	0.2	4	1.4 Grey	Sandy Loam	41	37	20	1.3	2.3	13	0	0.16
30130721 Grassy Woodland plateau s2_A	Pasture	Grassy Woodland s2	528,743.55	5,816,766.35	0	300	11	5.6	4.4	0.04	0.4	14	1.6	2.8	4.4	4	61	17	0.8	0.04	0.7	0.19	2.9	0.5	1.8	0.1	26	0.11	30	18	0.74	0.3	3	1.4 Grey	Sandy Loam	42	45	16	2.4	2.4	10	0	0.42
30130722 Grassy Woodland plateau s2_B	Pasture	Grassy Woodland s2	528,743.55	5,816,766.35	300	600	8	6.5	4.9	0.1	0.6	91	0	1.2	0	0	2	44	26	0.3	0.07	0.2	0.4	0.2	6.3	0.1	2.4	0.28	40	2.9	0.25	0.3	7	0.3 Brown	Clay	13	64	0.8	1.1	0.5	6	24	0.14
30130723 Grassy Woodland plateau s3_A	Pasture	Grassy Woodland s3	528,649.09	5,817,014.43	0	300	2.5	5.4	4.2	0.02	0.2	0	0.7	1.2	3.9	4	26	12	1.2	0.03	0.4	0.05	3.2	0.4	2	0.1	19	0.06	96	5.8	0.64	0.2	3	1 Grey	Sand	34	59	19	1.6	1.6	11	0	0.16
30130724 Grassy Woodland plateau s3_B	Pasture	Grassy Woodland s3	528,649.09	5,817,014.43	300	600	7.5	5.6	4.7	0.04	0.5	31	0	1.4	0	3	63	0	0.4	0	0.3	0.09	1.1	0.4	1.3	0.1	35	0.22	83	0.8	0.38	0.1	3	0.4 Brown	Sand	39	30	28	0	0.7	7	0	0.12
30130725 Grassy Woodland plateau s4_A	Pasture	Grassy Woodland s4	528,237.15	5,816,444.18	0	300	10	5.9	4.5	0.05	0.5	33	2.8	1.4	4.2	4	24	14	0.6	0.04	0.5	0.32	1.4	0.2	1.6	0.1	11	0.7	130	18	0.48	0.2	5	0.7 Brown	Clay Loam	39	39	29	2.2	1.2	12	20	0.5
30130726 Grassy Woodland plateau s4_B	Pasture	Grassy Woodland s4	528,237.15	5,816,444.18	300	600	8.4	6.5	4.8	0.07	0.6	91	0	1.2	0	0	2	44	26	0.3	0.07	0.2	0.4	0.2	6.3	0.1	2.4	0.28	40	2.9	0.25	0.3	7	0.3 Brown	Clay	13	64	0.8	1.1	0.5	6	24	0.14
30130727 Grassy Woodland plateau s5_A	Pasture	Grassy Woodland s5	528,237.59	5,816,752.37	0	300	6.8	5.3	4.1	0.05	0.5	31	0.9	1.5	15.9	7	63	27	1	0.07	0.6	0.18	1.6	0.7	2.6	0.1	26	0.08	170	4.7	0.57	0.2	7	1.7 Grey	Sandy Loam	60	40	25	2.6	2.8	12	29	0.19
30130728 Grassy Woodland plateau s5_B	Pasture	Grassy Woodland s5	528,237.59	5,816,752.37	300	600	10	5.8	4.4	0.02	0.2	0	0.7	0.8	0	3	52	0	0.1	0	0.3	0.11	0.5	0.6	1.1	0.1	54	0.05	86	0.3	0.17	0.2	2	0.4 Grey	Sand	54	12	24	0	0.8	8	0	0.14
30130729 Grassy Woodland plateau s6_A	Pasture	Grassy Woodland s6	528,249.74	5,817,066.66	0	300	2.6	5.6	4.2	0.02	0.2	0	2.2	2.4	4.6	6	19	33	0.7	0.08	0.3	0.03	2.8	0.2	1.3	0.1	18	0.09	55	5.5	0.71	0.1	1	0.6 Grey	Sand	21	54	19	6.4	1	13	48	0.68
30130730 Grassy Woodland plateau s6_B	Pasture	Grassy Woodland s6	528,249.74	5,817,066.66	300	600	8.4	6.4	4.8	0.02	0.2	0	0.7	0.3	0	4	28	13	0.6	0.03	0.5	0.12	1.9	0.2	1.1	0.1	16	0.04	53	0.5	0.49	0.1	2	0.3 Brown	Clay	16	52	37	1.6	1.1	24	11	0.24
30130731 Grassy Woodland plateau s7_A	Pasture	Grassy Woodland s7	527,569.63	5,816,099.71	0	300	4.1	5.6	4.4	0.04	0.3	14	9.5	2.6	12.1	6	84	53	2.4	0.14	0.8	0.16	2.9	0.4	4	0.1	11	0.16	180	14	0.69	0.3	2	2.1 Grey	Clay Loam	40	60	21	3.4	3.6	14	66	0.17
30130732 Grassy Woodland plateau s7_B	Pasture	Grassy Woodland s7	527,569.63	5,816,099.71	300	600	15	6.5	4.8	0.08	0.5	63	1.2	1.3	2.5	0	110	60	1.4	0.15	7.2	1.6	0.2	0.4	10.9	0.1	3.9	0.16	36	0.4	0.36	1.3	6	0.3 Orange/Yellow Clay	39	13	66	1.4	0.6	0	59	0.05	
30130733 Grassy Woodland plateau s8_A	Pasture	Grassy Woodland s8	527,568.54	5,816,347.81	0	300	9.3	5.2	4	0.05	0.4	18	5.1	2.5	7.6	8	76	52	0.6	0.13	1	0.29	0.7	1.1	3.1	0.1	35	0.18	810	11	1.3	0.2	5	1.8 Grey	Clay Loam	98	20	32	4.2	3.1	19	48	0.25
30130734 Grassy Woodland plateau s8_B	Pasture	Grassy Woodland s8	527,568.54	5,816,347.81	300	600	18	5.6	4.1	0.09	0.6	41	0.8	1.1	1.9	0	290	88	0.1	0.23	0.5	1.6	0	4.3	12.7	0.1	34	0	34	0.3	0.14	0.9	9	0.3 Orange/Yellow Clay	380	0.5	51	1.8	0.6	6	72	0.02	
30130735 Grassy Woodland plateau s9_A	Pasture	Grassy Woodland s9	527,670.39	5,816,564.36	0	300	6	5.8	4.7	0.06	0.5	23	7.4	1.1	8.5	14	41	80	2.7	0.2	1.2	0.27	2.3	0.1	4.4	0.1	3.2	0.28	280	18	1.6	0.4	6	1.7 Brown	Clay Loam	9.1	60	27	4.5	2.9	29	83	0.71
30130736 Grassy Woodland plateau s9_B	Pasture	Grassy Woodland s9	527,670.39	5,816,564.36	300	600	13	5.2	4.2	0.25	1.6	210	0.7	2.2	2.9	0	330	180	1.1	0.47	1.2	0.23	0.1	3	18.9	0.1	16	0.05	33	0.3	0.2	1	33	0.4 Brown	Clay	270	5.6	64	2.6	0.7	0	160	0.02
30130737 Grassy Woodland plateau s10A	Pasture	Grassy Woodland s10	527,720.44	5,816,850.71	0	300	3.2	4.9	3.9	0.03	0.4	0	4.1	1.3	5.4	6	41	26	0.9	0.07	0.3	0.07	3.2	1	2.2	0.1	44	0.08	160	11	0.6	0.2	3	1.5 Grey	Sand	88	38	12	2.6	1.5	28	37	0.37
30130738 Grassy Woodland plateau s10B	Pasture	Grassy Woodland s10	527,720.44	5,816,850.71	300	600	8	5.9	4.2	0.02	0.2	0	1.2	0.9	2.1	5	34	17	0.5	0.04	0.2	0.05	2.4	0.6	1.6	0.1	49	0.05	180	0.6	0.29	0.2	3	0.5 Brown	Sand	68	14	2.8	0.9	11	21	32	0.32
22180087 Grassy Woodland plateau s11_A	Pasture	Grassy Woodland s11	527,691.48	5,817,176.68	0	300	3.7	5.3	4.1	0.03	0.4	22	2.4	1	0	5	27	41	0.9	0.1	0.2	0.06	3.5	0.3	1.6	0.1	21	0.08	66	4.4	0.67	0.1	3	0.7 Grey	Sand	30	53	15	6.6	1.3	13	46	0.48
30130739 Grassy Woodland plateau s11_B	Pasture	Grassy Woodland s11	527,691.48	5,817,176.68	300	600	4.5	5.5	4.3	0.02	0.2	37	1.1	0.6	1.7	4	28	16	0.5	0.04	0.2	0.05	2.7	0.3	1.1	0.1	31	0.06	60	0.2	0.31	0.1	1	0.4 Brown	Sand	41	44	17	3.7	2.0	10	30	0.35
30130740 Grassy Woodland plateau s12_A	Pasture	Grassy Woodland s12	527,039.02	5,816,323.30	0	300	8.8	4.9	4	0.07	0.7	33	1.8	5.7	23.7	7	48	25	0.9	0.06	0.4	0.18	2.2	0.6	2.2	0.1	25	0.1	310	13	0.66	0.2	5	1.6 Grey	Sandy Loam	39	43	17	2.9	2.8	14	30	0.29
30130741 Grassy Woodland plateau s12_B	Pasture	Grassy Woodland s12	527,039.02	5,816,323.30	300	600	14	5.9	4.2	0.05	0.3	28	1.7	0.9	3.6	2	110	64	0.2	0.1	2.3	0.62	0.1	1.5	4.6	0.1	34	0.05	49	0.4	0.41	0.5	3	0.3 Orange/Yellow Clay	140	2.6	49	1.1	0.5	0	21	0.05	
30130742 Grassy Woodland plateau s13_A	Pasture	Grassy Woodland s13	527,183.71	5,816,633.92	0	300	6.1	5.3	4.2	0.05	0.5	18	5.4	3	8.4	4	140	34	1.5	0.09	1.1	0.26	1.4	1.3	4.3	0.1	30	0.19	480	12	0.62	0.3	7	2.2 Brown	Sandy Loam	120	35	26	2.1	3.7	11	41	0.08
30130743 Grassy Woodland plateau s13_B	Pasture	Grassy Woodland s13	527,183.71	5,816,633.92	300	600	11	5.8	4.1	0.04	0.2	0	1.7	1.5	3.2	3	180	18	0.4	0.05	1.1	0.42	0.4	1.9	3.9	0.1	48	0.2	240	0.8	0.4	0.4	3	0.9 Brown	Clay	170	10	29	1.2	1.6	8	25	0.05
22180091 Grassy Woodland plateau s14_A	Pasture	Grassy Woodland s14	527,063.49	5,817,032.33	0	300	13	5.5	4.2	0.05	0.4	35	2.1	1.6	3.7	5	51	37	0.6	0.1	0.7	0.36	0.9	0.6	2.4	0.1	25	0.16	340	12	0.84	0.2	4	1 Brown	Clay Loam	53	26	30	3.9	1.7	10	50	0.19
22180092 Grassy Woodland plateau s14_B	Pasture	Grassy Woodland s14	527,063.49	5,817,032.33	300	600	18	6.4	4.8	0.02	0.3	1.7	0.8	1.2	6.8	3.2	0.1	8.7	0.7	0.8	0.2	1.9	0.2	1.4	0.1	16	0.04																

