

DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap						SMap 1.0
<b>Project/ident</b>	1		<b>Observer</b>		<b>Obsvsn type</b>	Pit
<b>Profile No</b>			<b>Date</b>		<b>NZMS 260 GR</b>	2831310
<b>Grid Ref.</b>			<i>GPS ref</i>			6170510
<b>Slope</b>				<b>Elevation</b>		
<b>Aspect (compass-23°)</b>				<b>Region</b>		
<b>Location</b>	Gimblett Rd					
<b>Soil Name</b>	Omahu (1)					<b>Representative</b>
<b>Management</b>		<b>Landuse</b>				
<b>Landscape</b>		<b>Landform</b>	Uplifted floodplain	<b>Landform adj</b>		<b>Land Elemt</b>
<b>Microtop</b>		<b>Parent material</b>				
<b>Vegetation</b>	Grapes	<b>Vege2</b>				
<b>Notes</b>						
	1	2	3	4	5	6
<b>Functional Horizon</b>	tVAI	VAI				
<b>Hor. Desig.</b>	A	C				
<b>Depth (base) cm</b>	5	100+				
<b>Moisture</b>						
<b>Matrix colour</b>	2.5Y4/3	5Y6/2				
<b>%</b>						
<b>Mottle 1</b>						
<b>Abund %</b>						
<b>Size</b>						
<b>Contrast</b>						
<b>Mottle2</b>						
<b>Abund2</b>						
<b>Size2</b>						
<b>Contrast2</b>						
<b>Texture</b>	LS	S				
<b>%clay</b>	2	2				
<b>%sand</b>	75	92				
<b>%stones</b>	30	70				
<b>Stone size</b>						
<b>Apedal/Pedal type</b>	A - SG	A - SG				
<b>Ped shape</b>	Poly (10%)					
<b>Size class &lt;40mm</b>						
<b>Size range (mm)</b>						
<b>0-10 mm (vF &amp; F)</b>	√					
<b>10-20 mm (M)</b>						
<b>20-60 mm (C)</b>						
<b>60-200 mm (vC&amp;xC)</b>						
<b>&gt;200 mm (G)</b>						
<b>SSize method</b>						
<b>Soil strength</b>	w	w				
<b>Ped strength</b>						
<b>Failure</b>						
<b>Stickiness</b>	non	non				
<b>Coatings - kind</b>	no	no				
<b>Abundance</b>						
<b>Distinctness</b>						
<b>Particle Packing</b>						
<b>Root abund &lt;2mm</b>						
<b>Root abund &gt;2mm</b>						
<b>Permeability Est</b>	vr	vr				
<b>NaF test</b>						
<b>Soil material</b>						
<b>Notes</b>						
<b>Drainage</b>	Well	<b>Subgroup</b>	WF	<b>Soil depth class</b>	vs	<b>Texture</b>
<b>Dpth Slow</b>	999	<b>P Root Depth</b>	90	<b>Root Barrier</b>	N	S
<b>PM Class</b>	Mr	<b>Rok class</b>	Hs	<b>Rok cla - fines</b>	Hs	<b>Texture Gp60</b>
<b>Permeability</b>	vr	<b>PM Origin upper</b>	Al	<b>PM Origin lower</b>	Al	S



DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap							SMap 1.0	
Project/ident				Observer			Obsvsn type	Pit
Profile No				Date			NZMS 260 GR	2836640
Grid Ref.				GPS ref				6178330
Slope						Elevation		
Aspect (compass-23°)						Region		
Location	Omarunui Road							
Soil Name	Esk (3)						Representative	
Management				Landuse				
Landscape				Landform	Floodplain	Landform adj	Levee	Land Elemt
Microtop				Parent material				
Vegetation	Grapes	Vege2						
Notes	Floodplain protected by stopbank							
	1	2	3	4	5	6		
Functional Horizon	tAl	Al	VAI					
Hor. Desig.	Ap	C	2C					
Depth (base) cm	10	80	100+					
Moisture								
Matrix colour	10YR4/2	2.5Y5/3	5Y6/2					
%								
Mottle 1								
Abund %								
Size								
Contrast								
Mottle2								
Abund2								
Size2								
Contrast2								
Texture	SL	S	S					
%clay	10	2	2					
%sand	65	92	92					
%stones	0	0	65					
Stone size								
Apedal/Pedal type	P	A - SG	A - SG					
Ped shape	Poly (25%)							
Size class <40mm								
Size range (mm)								
0-10 mm (vF & F)	√							
10-20 mm (M)								
20-60 mm (C)								
60-200 mm (vC&xC)								
>200 mm (G)								
Ssize method								
Soil strength	w	w	w					
Ped strength								
Failure								
Stickiness	non	non	non					
Coatings - kind	no	no	no					
Abundance								
Distinctness								
Particle Packing								
Root abund <2mm								
Root abund >2mm								
Permeability Est	vr	r	vr					
NaF test								
Soil material								
Notes								
Drainage	Well	Subgroup	RFT	Soil depth class	MD	Texture		
Dpth Slow	999	P Root Depth	90	Root Barrier	N	L/S		
PM Class	Ms	Rok class		Rok cla - fines	Hs	TextureGp60		
Permeability	r	PM Origin upper	Al	PM Origin lower	Al	L/S		





DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap						SMap 1.0
<b>Project/ident</b>		<b>Observer</b>		<b>Obsvsn type</b>		Pit
<b>Profile No</b>		<b>Date</b>		<b>NZMS 260 GR</b>		2832910
<b>Grid Ref.</b>		<i>GPS ref</i>				6163215
<b>Slope</b>				<b>Elevation</b>		
<b>Aspect (compass-23°)</b>				<b>Region</b>		
Location	Rosser Road					
Soil Name	Te Awa (9)					Representative
<b>Management</b>		<b>Landuse</b>				
Landscape		<b>Landform</b>	Floodplain	<b>Landform adj</b>		<b>Land Elemt</b>
Microtop		<b>Parent material</b>				
Vegetation	Pasture	<b>Vege2</b>				
Notes						
	1	2	3	4	5	6
Functional Horizon	tLw	Lw	Lw	Al		
<b>Hor. Desig.</b>	Ap	Ap/Bgp	Bgp	2C		
<b>Depth (base) cm</b>	15	35	55	100+		
Moisture						
Matrix colour	10YR5/2	10YR5/2	2.5Y6/3	5Y6/2		
%						
Mottle 1		5Y6/2	7.5YR5/8	7.5YR5/8		
Abund %		25	10	10		
Size		2-8	5-10	5-10		
Contrast						
Mottle2			2.5Y5/4			
Abund2			35			
Size2			5-20			
Contrast2						
Texture	ZL	ZL	ZL	S		
%clay	22	22	22	5		
%sand	8	8	8	95		
%stones	0	0	0	2		
Stone size				10mm		
<b>Apedal/Pedal type</b>	P (75%)	P (70%)	P (55%)			
Ped shape	Poly	Poly & blocky	Prism & block			
<b>Size class &lt;40mm</b>						
Size range (mm)						
0-10 mm (vF & F)	√	√ (60%)				
10-20 mm (M)		√ (40%)	√ (70%)			
20-60 mm (C)			√ (30%)			
60-200 mm (vC&xC)						
>200 mm (G)						
Ssize method						
<b>Soil strength</b>	w	w	w	w		
Ped strength						
Failure						
Stickiness	non	slight	slight	non		
Coatings - kind	no	no	no	no		
Abundance						
Distinctness						
Particle Packing						
Root abund <2mm						
Root abund >2mm						
Permeability Est	vr	m	m	s		
NaF test						
Soil material						
Notes						
<b>Drainage</b>	Poor (perched)	<b>Subgroup</b>	GOT	<b>Soil depth class</b>	D	<b>Texture</b>
<b>Dpth Slow</b>	55	<b>P Root Depth</b>	90	<b>Root Barrier</b>	N	L/S
<b>PM Class</b>	Ms	<b>Rok class</b>		<b>Rok cla - fines</b>	Hs	<b>TextureGp60</b>
<b>Permeability</b>	m/s	PM Origin upper	Al	PM Origin lower	Rh	L/S



DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap						SMap 1.0
Project/ident					Observer	
Profile No					Date	
Grid Ref.					GPS ref	
Slope					Elevation	
Aspect (compass-23°)					Region	
Location	Dartmoor Road					
Soil Name	Irongate (20s)					Representative
Management						
Landscape		Landuse		Floodplain	Landform adj	Basin
Microtop	Parent material					Land Elemt
Vegetation	Grapes	Vege2	<i>Sequoia sempivirens</i>			
Notes	Beside a drain. Cr horizon below drain level. Behind a stopbank.					
	1	2	3	4	5	6
Functional Horizons	tLw	Lw	Lw	Al	Al	VAI
Hor. Desig.	Ap	Cg1	Cg2	Cg3	Cr	2C
Depth (base) cm	15	30	50	80	105	120+
Moisture						
Matrix colour	10YR4/2	5Y7/2	5Y6/2	5Y6/2	5B4/1	
%						
Mottle 1		7.5YR5/8	7.5YR5/8	7.5YR5/8		
Abund %		15	15	5		
Size		2-6	2-6	2-4		
Contrast						
Mottle2						
Abund2						
Size2						
Contrast2						
Texture	ZL	ZL	SL	LS	LS	LS
%clay	18	18	15	2	2	2
%sand	30	30	55	70	70	92
%stones	0	0	0	0	0	65
Stone size						
Apedal/Pedal type	P (70%)	A - SG	A - SG	A - SG	A - SG	A - SG
Ped shape	Poly					
Size class <40mm						
Size range (mm)						
0-10 mm (vF & F)	√					
10-20 mm (M)						
20-60 mm (C)						
60-200 mm (vC&xC)						
>200 mm (G)						
Ssize method						
Soil strength	w	w	w	w	w	
Ped strength						
Failure						
Stickiness						
Coatings - kind						
Abundance						
Distinctness						
Particle Packing						
Root abund <2mm						
Root abund >2mm						
Permeability Est	vr	m	m	r	r	vr
NaF test						
Soil material						
Notes						
Drainage	Poor	Subgroup	GRT	Soil depth class	D	Texture
Dpth Slow	999	P Root Depth	15	Root Barrier	A	L/S
PM Class	Md	Rok class		Rok cla - fines	Hs	TextureGp60
Permeability	m/r	PM Origin upper	Al	PM Origin lower	Al	L/S

DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap						SMap 1.0
Project/ident		Observer		Obsvsn type		Pit
Profile No		Date		NZMS 260 GR		2832470
Grid Ref.		GPS ref				6161955
Slope			Elevation			
Aspect (compass-23°)			Region			
Location	Near end of Turamoe Road					
Soil Name	Turamoe (22)					Representative
Management		Landuse				
Landscape		Landform	Bog	Landform adj	Flood-basin	Land Elemt
Microtop		Parent material				
Vegetation	Market gardens	Vege2				
Notes						
	1	2	3	4	5	6
Functional Horizons		Al				
Hor. Desig.	OhA	2Cr				
Depth (base) cm	25	100+				
Moisture						
Matrix colour	7.5YR4/3	5Y6/2				
%						
Mottle 1		7.5YR5/8				
Abund %		2				
Size		2-4				
Contrast						
Mottle2						
Abund2						
Size2						
Contrast2						
Texture	Tl	S				
%clay		2				
%sand		92				
%stones	0	0				
Stone size						
Apedal/Pedal type	P (60%)	A - SG				
Ped shape	nutty					
Size class <40mm						
Size range (mm)						
0-10 mm (vF & F)	√					
10-20 mm (M)						
20-60 mm (C)						
60-200 mm (vC&xC)						
>200 mm (G)						
SSize method						
Soil strength	w	w				
Ped strength						
Failure						
Stickiness	non	non				
Coatings - kind	no	no				
Abundance						
Distinctness						
Particle Packing						
Root abund <2mm						
Root abund >2mm						
Permeability Est	vr	vr				
NaF test						
Soil material						
Notes						
Drainage	Very Poor	Subgroup	OHM	Soil depth class	D	Texture
Dpth Slow	999	P Root Depth	α : drain depth	Root Barrier	A	Tl
PM Class	Sh	Rok class	Hm	Rok cla - fines	Hs	TextureGp60
Permeability	r	PM Origin upper	Pt	PM Origin lower	Al	Tl





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<b>Project/ident</b>			<b>Observer</b>		<b>Obsvn type</b>		Auger
<b>Grid Ref.</b>			<i>GPS ref</i>	2840887 6187608	<b>Projection</b>		NZMG
<b>Slope</b>				Elevation			
<b>Aspect (compass-23°)</b>				<b>Region</b>			
Location							
Soil Name	Ahuriri, 69a						Representative
Management		Landuse					
Landscape		Landform	Old lagoon	Landform adj	Basin		Land Elemt
Microtop		Parent material	Lacustrine sediments				
Vegetation	Pasture grass	Vege2					
Notes							
	1	2	3	4	5	6	
Functional horizon	tLw	LFs	SAI				
<b>Hor. Desig.</b>	App	BCr	2Cr				
<b>Depth (base) cm</b>	10	30	100+				
Moisture							
Matrix colour	10YR5/2	7.5GY5/1	N4/6				
%							
Mottle 1							
Abund %							
Size							
Contrast							
Mottle2							
Abund2							
Size2							
Contrast2							
Texture	CL	CL	S				
<b>%clay</b>	22	22	2				
<b>%sand</b>	40	50	92				
<b>%stones</b>	0	0	65				
Stone size							
<b>Apedal/Pedal type</b>	P - 30%	P - 30%	A - SG				
Ped shape	Blocky	Prism					
<b>Size class &lt;40mm</b>							
Size range (mm)							
0-10 mm (vF & F)							
10-20 mm (M)	√						
20-60 mm (C)		√					
60-200 mm (vC&xC)							
>200 mm (G)							
Ssize method							
<b>Soil strength</b>	w	w					
Ped strength							
Failure							
Stickiness							
Coatings - kind							
Abundance							
Distinctness							
Particle Packing			Loose				
Root abund <2mm							
Root abund >2mm							
Permeability Est	vr	m	vr				
NaF test							
Soil material							
Notes SAI (Horizon 3) consists of shelly sand							
<b>Drainage</b>	Poor	<b>Subgroup</b>	GRQ	<b>Soil depth class</b>	s	<b>Texture</b>	
<b>Dpth Slow</b>	999	<b>P Root Depth</b>	999	<b>Root Barrier</b>	N		L/S
<b>PM Class</b>	Mr	<b>Rok class</b>	Hs	<b>Rok cla - fines</b>			<b>TextureGp60</b>
<b>Permeability</b>	m	PM Origin upper	AI	PM Origin lower	AI		L/S

DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap						SMap 1.0
<b>Project/ident</b>			<b>Observer</b>		<b>Obsvsn type</b>	Auger
<b>Grid Ref.</b>			<i>GPS ref</i>	2841004 6187989	<b>Projection</b>	NZMG <i>GPS/Map/Alti meter</i>
<b>Slope</b>				<b>Elevation</b>		
<b>Aspect (compass-23°)</b>				<b>Region</b>		
Location						
Soil Name	Ahuriri, 69d					Representative
Management		Landuse	Sheep & beef			
Landscape		Landform	Old lagoon	Landform adj	Large mound	Land Elemt
Microtop		Parent material	Lacustrine sediments			
Vegetation	Pasture grass	Vege2				
Notes						
	1	2	3	4	5	6
Sampled (tick)	tSAw	SAw	SAI			
<b>Hor. Desig.</b>	Apg	Cr	2Cr			
<b>Depth (base) cm</b>	10	30	100+			
Moisture						
Matrix colour	10YR5/2	7.5GY5/1	N4/6			
%						
Mottle 1						
Abund %						
Size						
Contrast						
Mottle2						
Abund2						
Size2						
Contrast2						
Texture	LS	S	S			
<b>%clay</b>	5	2	2			
<b>%sand</b>	65	92	92			
<b>%stones</b>	0	0	65			
Stone size						
<b>Apedal/Pedal type</b>	P - 30%	A - SG	A - SG			
Ped shape	Blocky					
<b>Size class &lt;40mm</b>						
Size range (mm)						
0-10 mm (vF & F)						
10-20 mm (M)	√					
20-60 mm (C)						
60-200 mm (vC&xC)						
>200 mm (G)						
SSize method						
<b>Soil strength</b>	v. weak	weak				
Ped strength						
Failure						
Stickiness						
Coatings - kind						
Abundance						
Distinctness						
Particle Packing			loose			
Root abund <2mm						
Root abund >2mm						
Permeability Est	vr	r	r			
NaF test						
Soil material						
Notes						
<b>Drainage</b>	Poor	<b>Subgroup</b>	GST	<b>Soil depth class</b>	S	<b>Texture</b>
<b>Dpth Slow</b>	999	<b>P Root Depth</b>	999	<b>Root Barrier</b>	N	S
<b>PM Class</b>	Mr	<b>Rok class</b>	Hs	<b>Rok cla - fines</b>	Hs	<b>TextureGp60</b>
<b>Permeability</b>	r	PM Origin upper	Al	PM Origin lower	Al	S

DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap							SMap 1.0
<b>Project/ident</b>			<b>Observer</b>			<b>Obsvn type</b>	Auger
<b>Grid Ref.</b>	2840917	6187736	<i>GPS ref</i>			<b>Projection</b>	NZMG
<b>Slope</b>					Elevation	GPS/Map/Alti meter	
<b>Aspect (compass-23°)</b>					<b>Region</b>		
Location							
<b>Soil Name</b>	Ahuriri, 69c						<b>Representative</b>
<b>Management</b>			<b>Landuse</b>	Sheep & beef			
<b>Landscape</b>			<b>Landform</b>	Old lagoon	<b>Landform adj</b>	<b>Backplain</b>	<b>Land Elemt</b>
<b>Microtop</b>			<b>Parent material</b>	Lacustrine sediments			
<b>Vegetation</b>	Pasture grass	<b>Vege2</b>					
Notes							
	1	2	3	4	5	6	
Sampled (tick)	tLw	LFs	SAI				
<b>Hor. Desig.</b>	App	BCr	2Cr				
<b>Depth (base) cm</b>	8	40	100+				
Moisture							
<b>Matrix colour</b>	10YR5/2	7.5Y7/1	5Y6/2				
%							
<b>Mottle 1</b>							
<b>Abund %</b>							
<b>Size</b>							
<b>Contrast</b>							
<b>Mottle2</b>							
<b>Abund2</b>							
<b>Size2</b>							
<b>Contrast2</b>							
<b>Texture</b>	ZL	ZL	S				
<b>%clay</b>	22	22	2				
<b>%sand</b>	40	50	92				
<b>%stones</b>	0	0	65				
<b>Stone size</b>							
<b>Apedal/Pedal type</b>	P - 30%	P - 30%	A - SG				
<b>Ped shape</b>	Poly	Prism					
<b>Size class &lt;40mm</b>							
<b>Size range (mm)</b>							
<b>0-10 mm (vF &amp; F)</b>							
<b>10-20 mm (M)</b>	√						
<b>20-60 mm (C)</b>		√					
<b>60-200 mm (vC&amp;xC)</b>							
<b>&gt;200 mm (G)</b>							
<b>SSize method</b>							
<b>Soil strength</b>	w	w					
<b>Ped strength</b>							
<b>Failure</b>							
<b>Stickiness</b>							
<b>Coatings - kind</b>							
<b>Abundance</b>							
<b>Distinctness</b>							
<b>Particle Packing</b>			Loose				
<b>Root abund &lt;2mm</b>							
<b>Root abund &gt;2mm</b>							
<b>Permeability Est</b>	vr	m	vr				
<b>NaF test</b>							
<b>Soil material</b>							
Notes							
<b>Drainage</b>	Poor	<b>Subgroup</b>	GRQ	<b>Soil depth class</b>	S	<b>Texture</b>	
<b>Dpth Slow</b>	999	<b>P Root Depth</b>	999	<b>Root Barrier</b>	N	<b>Z/S</b>	
<b>PM Class</b>	Mr	<b>Rok class</b>	Hs	<b>Rok cla - fines</b>	Hs	<b>TextureGp60</b>	
<b>Permeability</b>	m	<b>PM Origin upper</b>	Al	<b>PM Origin lower</b>	Al	<b>Z/S</b>	



DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap							SMap 1.0	
<b>Project/ident</b>				<b>Observer</b>			<b>Obsvsn type</b>	Cutting
<b>Profile No</b>				<b>Date</b>			<b>Map sheet</b>	
<b>Grid Ref.</b>	2843447	6191447		GPS ref			<b>Projection</b>	NZMG
<b>Slope</b>						Elevation		
<b>Aspect (compass-23°)</b>						<b>Region</b>		
Location								
Soil Name	Flaxmere, 2a						Representative	
Management	Roadside. Amongst table grape vineyards and citrus orchards.							
Landscape		Landuse		Floodplain	Landform adj		Land Elemt	
Microtop		Parent material	Alluvium					
Vegetation	Grass	Vege2						
Notes								
	1	2	3	4	5	6		
Sampled (tick)	tLw	Lw	Lw					
<b>Hor. Desig.</b>	Ap	Bw(g)	BCg					
<b>Depth (base) cm</b>	15	40	100+					
Moisture								
Matrix colour	10YR4/2	2.5Y5/4	7.5Y7/1					
%								
Mottle 1		7.5YR5/8	5YR4/6					
Abund %		2	30					
Size								
Contrast								
Mottle2		2.5Y7/2						
Abund2		10						
Size2								
Contrast2								
Texture	SL	SL	SL					
%clay	15	15	15					
%sand	60	60	60					
%stones	0	0	0					
Stone size								
<b>Apedal/Pedal type</b>	P - 65%	A - mass	A - mass					
Ped shape	Blocky	Prism - 10%						
<b>Size class &lt;40mm</b>								
Size range (mm)								
0-10 mm (vF & F)	√							
10-20 mm (M)								
20-60 mm (C)		√						
60-200 mm (vC&xC)								
>200 mm (G)								
Ssize method								
<b>Soil strength</b>	w	w	w					
Ped strength								
Failure								
Stickiness								
Coatings - kind								
Abundance								
Distinctness								
Particle Packing								
Root abund <2mm								
Root abund >2mm								
Permeability Est	vr	m	m					
NaF test								
Soil material								
Notes								
<b>Drainage</b>	Imp	<b>Subgroup</b>	BOM	<b>Soil depth class</b>	D	<b>Texture</b>		
<b>Dpth Slow</b>	999	<b>P Root Depth</b>	40	<b>Root Barrier</b>	A	<b>L</b>		
<b>PM Class</b>	Md	<b>Rok class</b>	NA	<b>Rok cla - fines</b>	Hs	<b>TextureGp60</b>		
<b>Permeability</b>	m	PM Origin upper	Al	PM Origin lower	Al	L		

DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap							SMap 1.0	
<b>Project/ident</b>				<b>Observer</b>			<b>Obsvsn type</b>	Cutting
<b>Profile No</b>				<b>Date</b>			<b>Map sheet</b>	
<b>Grid Ref.</b>	2846341	6177901		GPS ref			<b>Projection</b>	NZMG
<b>Slope</b>						Elevation		
<b>Aspect (compass-23°)</b>						<b>Region</b>		
Location								
Soil Name	Meeanee, 26						Representative	
Management			Landuse					
Landscape			Landform		Landform adj		Land Elemt	
Microtop			Parent material					
Vegetation			Vege2					
Notes								
	1	2	3	4	5	6		
Sampled (tick)	tLw	Lw	Lw					
<b>Hor. Desig.</b>	Ap	Cg	2Cr					
<b>Depth (base) cm</b>	10	55	100+					
Moisture								
Matrix colour	10YR4/2	7.5Y7/1	7.5Y7/1					
%								
Mottle 1	7.5YR5/8							
Abund %	2-4							
Size	15							
Contrast								
Mottle2								
Abund2								
Size2								
Contrast2								
Texture	ZL	ZL	CL					
<b>%clay</b>	20	20	20					
<b>%sand</b>	15	15	45					
<b>%stones</b>	0	0	0					
Stone size								
<b>Apedal/Pedal type</b>	P - 20%	A - mass	A - mass					
Ped shape	Poly							
<b>Size class &lt;40mm</b>								
Size range (mm)								
0-10 mm (vF & F)								
10-20 mm (M)	√							
20-60 mm (C)								
60-200 mm (vC&xC)								
>200 mm (G)								
Ssize method								
<b>Soil strength</b>	w	w	w					
Ped strength								
Failure	semi	semi	semi					
Stickiness								
Coatings - kind								
Abundance								
Distinctness								
Particle Packing								
Root abund <2mm								
Root abund >2mm								
Permeability Est	vr	m	m					
NaF test								
Soil material								
Notes								
<b>Drainage</b>	Poor	<b>Subgroup</b>	GRQ	<b>Soil depth class</b>	D	<b>Texture</b>		
<b>Dpth Slow</b>	999	<b>P Root Depth</b>	999	<b>Root Barrier</b>	NA	<b>Z/L</b>		
<b>PM Class</b>	Md	<b>Rok class</b>	NA	<b>Rok cla - fines</b>	Hs	<b>TextureGp60</b>		
<b>Permeability</b>	m	PM Origin upper	Al	PM Origin lower	Al	Z/L		

DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap						SMap 1.0
<b>Project/ident</b>					<b>Observer</b>	
<b>Profile No</b>					<b>Date</b>	
<b>Grid Ref.</b>	2844534	6176683	GPS ref		<b>Obsv type</b>	Map sheet
<b>Slope</b>					Elevation	
<b>Aspect (compass-23°)</b>					<b>Region</b>	
Location	Brookfields Rd, Meeanee					
Soil Name	Farndon, 25					Representative
Management		Landuse	Roadside			
Landscape		Landform		Landform adj		Land Elemt
Microtop		Parent material				
Vegetation		Vege2				
Notes						
	1	2	3	4	5	6
Sampled (tick)	tLw	Lw	Lw	Al		
<b>Hor. Desig.</b>	Ap	Bg	2Cg	3Cr		
<b>Depth (base) cm</b>	15	30	45	100+		
Moisture						
Matrix colour	10YR4/2	5Y7/2	7.5Y7/1	7.5Y7/1		
%						
Mottle 1		7.5YR5/8	7.5YR5/8			
Abund %		15	10			
Size						
Contrast						
Mottle2						
Abund2						
Size2						
Contrast2						
Texture	SL	SL	CL	S		
%clay	10	10	20	2		
%sand	65	65	45	92		
%stones	0	0	0	0		
Stone size						
<b>Apedal/Pedal type</b>	P - 65%	P - 50%	A - mass	A - SG		
Ped shape	Poly	Prism				
<b>Size class &lt;40mm</b>						
Size range (mm)						
0-10 mm (vF & F)	√					
10-20 mm (M)						
20-60 mm (C)		√				
60-200 mm (vC&xC)						
>200 mm (G)						
Ssize method						
<b>Soil strength</b>	w	w	w	w		
Ped strength						
Failure	semi	semi	semi	semi		
Stickiness						
Coatings - kind						
Abundance						
Distinctness						
Particle Packing						
Root abund <2mm						
Root abund >2mm						
Permeability Est	vr	m	m	r		
NaF test						
Soil material						
Notes						
<b>Drainage</b>	Poor	<b>Subgroup</b>	GOQ	<b>Soil depth class</b>	D	<b>Texture</b>
<b>Dpth Slow</b>	999	<b>P Root Depth</b>	999	<b>Root Barrier</b>	NA	<b>L/S</b>
<b>PM Class</b>	Md	<b>Rok class</b>	NA	<b>Rok cla - fines</b>	Hs	<b>TextureGp60</b>
<b>Permeability</b>	m/r	PM Origin upper	Al	PM Origin lower	Al	L/S

DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap							SMap 1.0
<b>Project/ident</b>				<b>Observer</b>			<i>Auger</i>
<b>Profile No</b>				<b>Date</b>			Map sheet
<b>Grid Ref.</b>	2843972	6177741	GPS ref			<b>Projection</b>	NZMG
<b>Slope</b>				Elevation			
<b>Aspect (compass-23°)</b>				<b>Region</b>			
Location	Grassmere Road, Meeanee						
Soil Name	Farndon, 24						Representative
Management		Landuse	Arable				
Landscape		Landform		Landform adj			Land Elemt
Microtop	Parent material						
Vegetation		Vege2	Short-rotation Italian ryegrass				
Notes							
	1	2	3	4	5	6	
Sampled (tick)	tLw	Lw	Al				
<b>Hor. Desig.</b>	Ap	Bg	2Cr				
<b>Depth (base) cm</b>	15	80	100+				
Moisture							
Matrix colour	10YR4/2	5Y7/2	5Y6/2				
%							
Mottle 1		7.5YR5/8					
Abund %		10					
Size		2-4					
Contrast							
Mottle2							
Abund2							
Size2							
Contrast2							
Texture	LZ	LZ	S				
<b>%clay</b>	15	15	2				
<b>%sand</b>	30	30	92				
<b>%stones</b>	0	0	0				
Stone size							
<b>Apedal/Pedal type</b>	P - 75%	P - 40%	A - SG				
Ped shape	Poly	Prism					
<b>Size class &lt;40mm</b>							
Size range (mm)							
0-10 mm (vF & F)	√						
10-20 mm (M)		√					
20-60 mm (C)							
60-200 mm (vC&xC)							
>200 mm (G)							
Ssize method							
<b>Soil strength</b>	w	w	w				
Ped strength							
Failure							
Stickiness							
Coatings - kind							
Abundance							
Distinctness							
Particle Packing							
Root abund <2mm							
Root abund >2mm							
Permeability Est	vr	m	r				
NaF test							
Soil material							
Notes							
<b>Drainage</b>	Poor	<b>Subgroup</b>	GOQ	<b>Soil depth class</b>	D	<b>Texture</b>	
<b>Dpth Slow</b>	999	<b>P Root Depth</b>	999	<b>Root Barrier</b>	NA	<b>Z/S</b>	
<b>PM Class</b>	Md	<b>Rok class</b>	NA	<b>Rok cla - fines</b>	Hs	<b>TextureGp60</b>	
<b>Permeability</b>	m/r	PM Origin upper	Al	PM Origin lower	Al	Z	

DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap						SMap 1.0
<b>Project/ident</b>				<b>Observer</b>		<b>Obsvsn type</b>
<b>Profile No</b>				<b>Date</b>		<i>Cutting</i>
<b>Grid Ref.</b>	2842843	6177064	GPS ref		<b>Projection</b>	NZMG
<b>Slope</b>				Elevation		
<b>Aspect (compass-23°)</b>				<b>Region</b>		
Location	Pwdrrell Road					
Soil Name	Farndon, 23s					Representative
<b>Management</b>		<b>Landuse</b>	<b>Drain</b>			
<b>Landscape</b>		<b>Landform</b>		<b>Landform adj</b>		<b>Land Elemt</b>
<b>Microtop</b>		<b>Parent material</b>				
<b>Vegetation</b>		<b>Vege2</b>				
<b>Notes</b>						
	1	2	3	4	5	6
Sampled (tick)	tLw	Al	Lw			
<b>Hor. Desig.</b>	Ap	2Bg	3Cg			
<b>Depth (base) cm</b>	15	50	100+			
<b>Moisture</b>						
<b>Matrix colour</b>	10YR4/2	7.5YR7/1	7.5Y7/1			
%						
<b>Mottle 1</b>		2.5Y5/4	5YR4/6			
<b>Abund %</b>		40	35			
<b>Size</b>						
<b>Contrast</b>						
<b>Mottle2</b>						
<b>Abund2</b>						
<b>Size2</b>						
<b>Contrast2</b>						
<b>Texture</b>	SL	S	SL			
<b>%clay</b>	10	2	10			
<b>%sand</b>	60	92	60			
<b>%stones</b>	0	0	0			
<b>Stone size</b>						
<b>Apedal/Pedal type</b>	P - 75%	P - 65%				
<b>Ped shape</b>	Poly	Prism				
<b>Size class &lt;40mm</b>						
<b>Size range (mm)</b>						
0-10 mm (vF & F)	√					
10-20 mm (M)	√					
20-60 mm (C)		√				
60-200 mm (vC&xC)						
>200 mm (G)						
<b>Ssize method</b>						
<b>Soil strength</b>	w	w	w			
<b>Ped strength</b>	semi	semi	semi			
<b>Failure</b>						
<b>Stickiness</b>						
<b>Coatings - kind</b>						
<b>Abundance</b>						
<b>Distinctness</b>						
<b>Particle Packing</b>						
<b>Root abund &lt;2mm</b>						
<b>Root abund &gt;2mm</b>						
<b>Permeability Est</b>	vr	r	m			
<b>NaF test</b>						
<b>Soil material</b>						
<b>Notes</b>						
<b>Drainage</b>	Poor	<b>Subgroup</b>	GOQ	<b>Soil depth class</b>	D	<b>Texture</b>
<b>Dpth Slow</b>	999	<b>P Root Depth</b>	999	<b>Root Barrier</b>	N	<b>L/S</b>
<b>PM Class</b>	Md	<b>Rok class</b>	NA	<b>Rok cla - fines</b>	Hs	<b>TextureGp60</b>
<b>Permeability</b>	r/m	PM Origin upper	Al	PM Origin lower	Al	L/S



DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap							SMap 1.0	
<b>Project/ident</b>				<b>Observer</b>			<b>Obsvsn type</b>	Cutting
<b>Profile No</b>				<b>Date</b>			<b>Map sheet</b>	
<b>Grid Ref.</b>	2846745	6171676		GPS ref			<b>Projection</b>	NZMG
<b>Slope</b>					Elevation			
<b>Aspect (compass-23°)</b>					<b>Region</b>			
Location	Richmond Road, north of Mill Road, Clive							
Soil Name	Mangateretere, 71						Representative	
Management		Landuse	Roadside					
Landscape		Landform		Landform adj			Land Elemt	
Microtop				Parent material				
Vegetation				Vege2	Pasture & apples			
Notes								
	1	2	3	4	5	6		
Sampled (tick)	tLw	Lw	YC					
<b>Hor. Desig.</b>	Ap	Bgp	BCtg(x)					
<b>Depth (base) cm</b>	15	40	100+					
Moisture								
Matrix colour	10YR3/2	5Y7/2	7.5Y7/1					
%								
Mottle 1		7.5YR5/8	7.5YR5/8					
Abund %		20	30					
Size		2-6	5-15					
Contrast								
Mottle2			5B6/1					
Abund2			10					
Size2								
Contrast2								
Texture	ZL	ZL	ZC					
%clay	24	24	38					
%sand	12	12	5					
%stones	0	0	0					
Stone size								
<b>Apedal/Pedal type</b>	P - 85%	P - 60%	A - mass					
Ped shape	Poly	Poly & prism						
<b>Size class &lt;40mm</b>								
Size range (mm)								
0-10 mm (vF & F)	√							
10-20 mm (M)		√ - Poly (60%)						
20-60 mm (C)		√ - Prism (40%)						
60-200 mm (vC&xC)								
>200 mm (G)								
Ssize method								
<b>Soil strength</b>	W	W	SF					
Ped strength	semi	semi	brittle					
Failure								
Stickiness		slightly	moderately					
Coatings - kind		<1% MnFe SG						
Abundance								
Distinctness								
Particle Packing								
Root abund <2mm								
Root abund >2mm								
Permeability Est	vr	m	s					
NaF test								
Soil material								
Notes								
<b>Drainage</b>	Poor	<b>Subgroup</b>	PPJ	<b>Soil depth class</b>	S	<b>Texture</b>		
<b>Dpth Slow</b>	40	<b>P Root Depth</b>	40	<b>Root Barrier</b>	Pn	<b>Z/C</b>		
<b>PM Class</b>	Md	<b>Rok class</b>	NA	<b>Rok cla - fines</b>	Hs	<b>TextureGp60</b>		
<b>Permeability</b>	m/s	PM Origin upper	Al	PM Origin lower	Al	Z/C		

DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap							SMap 1.0	
<b>Project/ident</b>				<b>Observer</b>			<b>Obsvsn type</b>	Cutting
<b>Profile No</b>				<b>Date</b>			<b>Map sheet</b>	
<b>Grid Ref.</b>	2847383	6164000		GPS ref			<b>Projection</b>	NZMG
<b>Slope</b>						Elevation		
<b>Aspect (compass-23°)</b>						<b>Region</b>		
Location								
Soil Name	Waipukurau soil, 30						Representative	
Management		Landuse	Roadside					
Landscape		Landform	Terrace	Landform adj			Land Elemt	
Microtop		Parent material	Loess					
Vegetation	Grass & weeds	Vege2						
Notes								
	1	2	3	4	5	6		
Sampled (tick)	tLw	Lw	LCf	LCs				
<b>Hor. Desig.</b>	Ah	Bgp	BCx	C				
<b>Depth (base) cm</b>	15	45	65	100+				
Moisture								
Matrix colour	10YR3/2	2.5Y7/2	2.5Y5/4	2.5Y6/3				
%								
Mottle 1		7.5YR5/8						
Abund %		5						
Size								
Contrast								
Mottle2								
Abund2								
Size2								
Contrast2								
Texture	SL	SL	?	SL				
%clay	15	10	?	5				
%sand	55	65	?	70				
%stones	0	0	0	0				
Stone size								
<b>Apedal/Pedal type</b>	P - 85%	P - 65%	A - mass	A - mass				
Ped shape	Poly	Prism						
<b>Size class &lt;40mm</b>								
Size range (mm)								
0-10 mm (vF & F)	√ - vF							
10-20 mm (M)								
20-60 mm (C)		√						
60-200 mm (vC&xC)								
>200 mm (G)				√				
Ssize method								
<b>Soil strength</b>	W	W	Very hard	SF				
Ped strength								
Failure	Semi	Semi	Ha ha!	Semi				
Stickiness								
Coatings - kind			cutans					
Abundance								
Distinctness								
Particle Packing								
Root abund <2mm								
Root abund >2mm								
Permeability Est	vr	m	s	s				
NaF test								
Soil material								
Notes	BCx contains a strongly developed duripan							
<b>Drainage</b>	Poor	<b>Subgroup</b>	PUT	<b>Soil depth class</b>	S	<b>Texture</b>		
<b>Dpth Slow</b>	45	<b>P Root Depth</b>	45	<b>Root Barrier</b>	Pn	<b>L</b>		
<b>PM Class</b>	Md	<b>Rok class</b>	NA	<b>Rok cla - fines</b>	Hs	<b>TextureGp60</b>		
<b>Permeability</b>	m/s	PM Origin upper	Lo	PM Origin lower	Lo	<b>L</b>		

DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap							SMap 1.0	
<b>Project/ident</b>				<b>Observer</b>			<b>Obsvsn type</b>	Pit
<b>Profile No</b>				<b>Date</b>			<b>Map sheet</b>	
<b>Grid Ref.</b>	2841830	6162780	<i>GPS ref</i>			<b>Projection</b>	NZMG	
<b>Slope</b>				<b>Elevation</b>				
<b>Aspect (compass-23°)</b>				<b>Region</b>				
<b>Location</b>	Middle Road, near Havelock North urban rural interface							
<b>Soil Name</b>	Havelock, 12h						<b>Representative</b>	
<b>Management</b>			<b>Landuse</b>	Pastoral				
<b>Landscape</b>			<b>Landform</b>	Low terrace	<b>Landform adj</b>			<b>Land Elemt</b>
<b>Microtop</b>			<b>Parent material</b>	Limestone-rich alluvium over redistributed loess and pumice gravels				
<b>Vegetation</b>	Grass	<b>Vege2</b>						
<b>Notes</b>								
	1	2	3	4	5	6		
<b>Sampled (tick)</b>	tLw	Lw	LCs	LCs	VLI			
<b>Hor. Desig.</b>	Ap	Bw(g)	Bt(g)(h)	BC(x)	2C			
<b>Depth (base) cm</b>	21	43	67	95	100+			
<b>Moisture</b>								
<b>Matrix colour</b>	7.5YR3/1	2.5Y5/3	2.5Y5/3	2.5Y5/3	10YR8/3			
<b>%</b>			7.5YR5/6					
<b>Mottle 1</b>			2.5Y6/2					
<b>Abund %</b>			2	2				
<b>Size</b>								
<b>Contrast</b>								
<b>Mottle2</b>			2.5Y6/2					
<b>Abund2</b>			5					
<b>Size2</b>								
<b>Contrast2</b>								
<b>Texture</b>	ZL	ZL	ZL	ZL	SL			
<b>%clay</b>	24	24	30	24	8			
<b>%sand</b>	20	20	10	15	65			
<b>%stones</b>						65		
<b>Stone size</b>								
<b>Apedal/Pedal type</b>	P - 85%	P - 80%	P - 30%	A - massive	A - SG			
<b>Ped shape</b>	Blocky	Blocky	Prism					
<b>Size class &lt;40mm</b>								
<b>Size range (mm)</b>								
<b>0-10 mm (vF &amp; F)</b>								
<b>10-20 mm (M)</b>	√							
<b>20-60 mm (C)</b>			√					
<b>60-200 mm (vC&amp;xC)</b>			√					
<b>&gt;200 mm (G)</b>				√				
<b>Ssize method</b>								
<b>Soil strength</b>	Weak	Weak	Slightly firm	Slightly firm-firm				
<b>Ped strength</b>								
<b>Failure</b>				Brittle				
<b>Stickiness</b>								
<b>Coatings - kind</b>			Organic coats					
<b>Abundance</b>			lots					
<b>Distinctness</b>								
<b>Particle Packing</b>						Loose		
<b>Root abund &lt;2mm</b>	Many	Common	Common	Few				
<b>Root abund &gt;2mm</b>								
<b>Permeability Est</b>	vr	m	s	s	m			
<b>NaF test</b>								
<b>pH</b>			7.5	7.5				
<b>Notes</b>								
<b>Drainage</b>	Imperfect	<b>Subgroup</b>	EOC	<b>Soil depth class</b>	MD	<b>Texture</b>		
<b>Dpth Slow</b>	35	<b>P Root Depth</b>	67	<b>Root Barrier</b>	Ln	<b>Z</b>		
<b>PM Class</b>	Ms	<b>Rok class</b>		<b>Rok cla - fines</b>	Hs/Rh	<b>TextureGp60</b>		
<b>Permeability</b>	m/s	PM Origin upper	Al	PM Origin lower	Al	<b>Z</b>		

DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap							SMap 1.0	
<b>Project/ident</b>				<b>Observer</b>			<b>Obsvsn type</b>	Pit
<b>Profile No</b>				<b>Date</b>			<b>Map sheet</b>	
<b>Grid Ref.</b>	NA	NA		<b>GPS ref</b>			<b>Projection</b>	NZMG
<b>Slope</b>						<b>Elevation</b>		
<b>Aspect (compass-23°)</b>						<b>Region</b>		
<b>Location</b>	NW side of Havelock North - Brookvale Road							
<b>Soil Name</b>	Otane, 11						<b>Representative</b>	
<b>Management</b>			<b>Landuse</b>	Horse paddock				
<b>Landscape</b>			<b>Landform</b>		<b>Landform adj</b>			<b>Land Elemt</b>
<b>Microtop</b>			<b>Parent material</b>	Alluvium from mudstone				
<b>Vegetation</b>	Grass		<b>Vege2</b>					
<b>Notes</b>								
	1	2	3	4	5	6		
<b>Sampled (tick)</b>	tLw	Lw	LCf					
<b>Hor. Desig.</b>	Ap	Bt	BCx					
<b>Depth (base) cm</b>	26	52	100+					
<b>Moisture</b>								
<b>Matrix colour</b>	10YR4/2	10YR5/4	10YR6/4					
<b>%</b>								
<b>Mottle 1</b>								
<b>Abund %</b>								
<b>Size</b>								
<b>Contrast</b>								
<b>Mottle2</b>								
<b>Abund2</b>								
<b>Size2</b>								
<b>Contrast2</b>								
<b>Texture</b>	ZL	ZL	SCL					
<b>%clay</b>	22	28	22					
<b>%sand</b>	15	15	70					
<b>%stones</b>	0	0	0					
<b>Stone size</b>								
<b>Apedal/Pedal type</b>	P - 85%	P - 80%	A - massive					
<b>Ped shape</b>	Blocky	Blocky						
<b>Size class &lt;40mm</b>								
<b>Size range (mm)</b>								
<b>0-10 mm (vF &amp; F)</b>	√							
<b>10-20 mm (M)</b>		√						
<b>20-60 mm (C)</b>								
<b>60-200 mm (vC&amp;xC)</b>								
<b>&gt;200 mm (G)</b>								
<b>Ssize method</b>								
<b>Soil strength</b>	Slightly firm	Firm	Very hard					
<b>Ped strength</b>								
<b>Failure</b>								
<b>Stickiness</b>								
<b>Coatings - kind</b>		Clay coats	MnFe SG					
<b>Abundance</b>		80%	5%					
<b>Distinctness</b>								
<b>Particle Packing</b>								
<b>Root abund &lt;2mm</b>	Many	Common	None					
<b>Root abund &gt;2mm</b>								
<b>Permeability Est</b>	vr	m	s					
<b>NaF test</b>								
<b>Soil material</b>								
<b>Notes</b>								
<b>Drainage</b>	Well	<b>Subgroup</b>	BFC	<b>Soil depth class</b>	MD	<b>Texture</b>		
<b>Dpth Slow</b>	52	<b>P Root Depth</b>	52	<b>Root Barrier</b>	Pn	<b>Z/L</b>		
<b>PM Class</b>	Md	<b>Rok class</b>	NA	<b>Rok cla - fines</b>	NA	<b>TextureGp60</b>		
<b>Permeability</b>	m/s	<b>PM Origin upper</b>	Al	<b>PM Origin lower</b>	Al	<b>Z/L</b>		

DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap						SMap 1.0
<b>Project/ident</b>					<b>Observer</b>	
<b>Profile No</b>					<b>Date</b>	
<b>Grid Ref.</b>	NA	NA	GPS ref		<b>Obsvsn type</b>	Pit
<b>Slope</b>					Elevation	
<b>Aspect (compass-23°)</b>					<b>Region</b>	
Location	Near the corner of Napier Road and Romanes Drive					
Soil Name	Karamu, 13					Representative
Management		Landuse	Orchard			
Landscape		Landform	Upper backplain			
Microtop		Parent material	Alluvium			
Vegetation	Apples	Vege2				
Notes						
	1	2	3	4	5	6
Sampled (tick)	tLw	Lw	Lw	Lw	Lw	
<b>Hor. Desig.</b>	Ap	Ap/Bw	Bg	BCg1	BCg2	
<b>Depth (base) cm</b>	15	25	43	80	100+	
Moisture						
Matrix colour	10YR4/2	2.5Y5/4	5Y7/2	5Y7/2	5Y7/2	
%						
Mottle 1		10YR4/2	7.5YR5/8	7.5YR5/8	7.5YR5/8	
Abund %		15	15	20	10	
Size			2-5	5-20	2-5	
Contrast						
Mottle2						
Abund2						
Size2						
Contrast2						
Texture	CL	CL	CL	SL	SL	
%clay	20	20	20	8	8	
%sand	45	45	45	65	65	
%stones	0	0	0	0	0	
Stone size						
<b>Apedal/Pedal type</b>	P - 40	P - 25	A - 15	A - SG	A - SG	
Ped shape	Poly	Poly	Poly			
<b>Size class &lt;40mm</b>						
Size range (mm)						
0-10 mm (vF & F)	√	√				
10-20 mm (M)			√			
20-60 mm (C)						
60-200 mm (vC&xC)						
>200 mm (G)						
Ssize method						
<b>Soil strength</b>	W	W	W	W	W	
Ped strength						
Failure						
Stickiness						
Coatings - kind						
Abundance						
Distinctness						
Particle Packing						
Root abund <2mm						
Root abund >2mm						
Permeability Est	vr	m	m	m	m	
NaF test						
Soil material						
Notes						
<b>Drainage</b>	Imperfect	<b>Subgroup</b>	RFM	<b>Soil depth class</b>	D	<b>Texture</b>
<b>Dpth Slow</b>	999	<b>P Root Depth</b>	90	<b>Root Barrier</b>	N	<b>L</b>
<b>PM Class</b>	Md	<b>Rok class</b>	NA	<b>Rok cla - fines</b>	Hs	<b>TextureGp60</b>
<b>Permeability</b>	m	PM Origin upper	Al	PM Origin lower	Al	L

DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap							SMap 1.0	
<b>Project/ident</b>				<b>Observer</b>			<b>Obsvsn type</b>	<i>Pit</i>
<b>Profile No</b>				<b>Date</b>			<b>Map sheet</b>	
<b>Grid Ref.</b>	NA	NA	<i>GPS ref</i>			<b>Projection</b>	NZMG	
<b>Slope</b>				<b>Elevation</b>				
<b>Aspect (compass-23°)</b>				<b>Region</b>				
<b>Location</b>	Near the corner of Napier Road and Romanes Drive							
<b>Soil Name</b>	Ormond, 16						<b>Representative</b>	
<b>Management</b>			<b>Landuse</b>	Orchard				
<b>Landscape</b>			<b>Landform</b>	Levee	<b>Landform adj</b>			
<b>Microtop</b>			<b>Parent material</b>	Alluvium			<b>Land Elemt</b>	
<b>Vegetation</b>	Apples	<b>Vege2</b>						
<b>Notes</b>								
	1	2	3	4	5	6		
<b>Sampled (tick)</b>	tLw	Lw	Lw	Al	Al			
<b>Hor. Desig.</b>	Ap	Ap/Bw(f)	Bg	2Cg	3Cg			
<b>Depth (base) cm</b>	20	42	65	85	100+			
<b>Moisture</b>								
<b>Matrix colour</b>	10YR4/2	2.5Y5/4	5Y7/2	5Y7/2				
<b>%</b>								
<b>Mottle 1</b>		10YR4/2	7.5YR5/8	7.5YR5/8	7.5YR5/8			
<b>Abund %</b>		25	15	20	10			
<b>Size</b>			2-5	5-20	2-5			
<b>Contrast</b>								
<b>Mottle2</b>		7.5YR5/8						
<b>Abund2</b>		1						
<b>Size2</b>								
<b>Contrast2</b>								
<b>Texture</b>	CL	SL	SL	LS	LS			
<b>%clay</b>	20	5	5	2	2			
<b>%sand</b>	65	65	65	92	92			
<b>%stones</b>	0	0	0	0	0			
<b>Stone size</b>								
<b>Apedal/Pedal type</b>	P - 30%	P - 30%	A - SG	A - SG				
<b>Ped shape</b>	Poly	Poly						
<b>Size class &lt;40mm</b>								
<b>Size range (mm)</b>								
<b>0-10 mm (vF &amp; F)</b>	√	√						
<b>10-20 mm (M)</b>								
<b>20-60 mm (C)</b>								
<b>60-200 mm (vC&amp;xC)</b>								
<b>&gt;200 mm (G)</b>								
<b>Ssize method</b>								
<b>Soil strength</b>	W	W	W	W	W			
<b>Ped strength</b>								
<b>Failure</b>								
<b>Stickiness</b>								
<b>Coatings - kind</b>								
<b>Abundance</b>								
<b>Distinctness</b>								
<b>Particle Packing</b>								
<b>Root abund &lt;2mm</b>								
<b>Root abund &gt;2mm</b>								
<b>Permeability Est</b>	vr	m	m	r	r			
<b>NaF test</b>								
<b>Soil material</b>								
<b>Notes</b>								
<b>Drainage</b>	Imp	<b>Subgroup</b>	RFM	<b>Soil depth class</b>	D	<b>Texture</b>		
<b>Dpth Slow</b>	999	<b>P Root Depth</b>	90	<b>Root Barrier</b>	N	<b>L/S</b>		
<b>PM Class</b>	Md	<b>Rok class</b>	NA	<b>Rok cla - fines</b>	Hs	<b>TextureGp60</b>		
<b>Permeability</b>	m/r	PM Origin upper	Al	PM Origin lower	Al	L		

DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap						SMap 1.0
<b>Project/ident</b>					<b>Observer</b>	
<b>Profile No</b>					<b>Date</b>	
<b>Grid Ref.</b>	NA	NA	<i>GPS ref</i>		<b>Obsv type</b>	<i>Pit</i>
<b>Slope</b>					<b>Elevation</b>	
<b>Aspect (compass-23°)</b>					<b>Region</b>	
<b>Location</b>	Adjacent to Cromby drain, near Romanes Drive					
<b>Soil Name</b>	Flaxmere, 2as					<b>Representative</b>
<b>Management</b>		<b>Landuse</b>	Orchard			
<b>Landscape</b>		<b>Landform</b>	Flood-plain	<b>Landform adj</b>		<b>Land Elemt</b>
<b>Microtop</b>		<b>Parent material</b>	Alluvium			
<b>Vegetation</b>	Apples	<b>Vege2</b>				
<b>Notes</b>						
	1	2	3	4	5	6
<b>Sampled (tick)</b>	tLw	Lw	Lw	Al	Al	
<b>Hor. Desig.</b>	Ap	Bw(g)	Bg	2Cg	3Cg	
<b>Depth (base) cm</b>	23	39	65	85	100+	
<b>Moisture</b>						
<b>Matrix colour</b>	10YR3/2	2.5Y5/4	5Y6/2	5Y6/2	5Y6/2	
<b>%</b>						
<b>Mottle 1</b>		5Y7/2	7.5YR5/8	7.5YR5/8	7.5YR5/8	
<b>Abund %</b>		35	15	15	15	
<b>Size</b>						
<b>Contrast</b>						
<b>Mottle2</b>		7.5YR5/8				
<b>Abund2</b>		10				
<b>Size2</b>						
<b>Contrast2</b>						
<b>Texture</b>	CL	SL	SL	LS	LS	
<b>%clay</b>	20	5	5	2	2	
<b>%sand</b>	65	65	65	92	92	
<b>%stones</b>	0	0	0	0	0	
<b>Stone size</b>						
<b>Apedal/Pedal type</b>	P - 85%	P - 80%	P - 70%	A - SG	A-SG	
<b>Ped shape</b>	Poly	Poly	Poly			
<b>Size class &lt;40mm</b>						
<b>Size range (mm)</b>						
<b>0-10 mm (vF &amp; F)</b>	√	√				
<b>10-20 mm (M)</b>			√			
<b>20-60 mm (C)</b>						
<b>60-200 mm (vC&amp;xC)</b>						
<b>&gt;200 mm (G)</b>						
<b>Ssize method</b>						
<b>Soil strength</b>	W	W	W	W	W	
<b>Ped strength</b>						
<b>Failure</b>						
<b>Stickiness</b>						
<b>Coatings - kind</b>						
<b>Abundance</b>						
<b>Distinctness</b>						
<b>Particle Packing</b>						
<b>Root abund &lt;2mm</b>						
<b>Root abund &gt;2mm</b>						
<b>Permeability Est</b>	vr	m	m	r	r	
<b>NaF test</b>						
<b>Soil material</b>						
<b>Notes</b>						
<b>Drainage</b>	Imp	<b>Subgroup</b>	RFM	<b>Soil depth class</b>	D	<b>Texture</b>
<b>Dpth Slow</b>	999	<b>P Root Depth</b>	90	<b>Root Barrier</b>	N	<b>L/S</b>
<b>PM Class</b>	Md	<b>Rok class</b>	NA	<b>Rok cla - fines</b>	Hs	<b>TextureGp60</b>
<b>Permeability</b>	m/r	<b>PM Origin upper</b>	Al	<b>PM Origin lower</b>	Al	<b>L</b>

DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap						SMap 1.0
<b>Project/ident</b>					<b>Observer</b>	
<b>Profile No</b>					<b>Date</b>	
<b>Grid Ref.</b>	NA	NA	<i>GPS ref</i>		<b>Obsvsn type</b>	<i>Pit</i>
<b>Slope</b>					<b>Elevation</b>	
<b>Aspect (compass-23°)</b>					<b>Region</b>	
Location	Crombie Drain					
Soil Name	Moteo, 18					<b>Representative</b>
<b>Management</b>		<b>Landuse</b>	Orchard			
<b>Landscape</b>		<b>Landform</b>	Backplain	<b>Landform adj</b>		<b>Land Elemt</b>
<b>Microtop</b>		<b>Parent material</b>	Alluvium			
<b>Vegetation</b>	Apples	<b>Vege2</b>				
<b>Notes</b>						
	1	2	3	4	5	6
<b>Sampled (tick)</b>	tLw	Lw	Lw	Al	Al	
<b>Hor. Desig.</b>	Ap	Ap/Bg1	bA	bA/Bg2	Bg2	
<b>Depth (base) cm</b>	18	20	30	35	100+	
<b>Moisture</b>						
<b>Matrix colour</b>	10YR4/2	5Y7/2	10YR5/2	10YR5/2	5Y7/2	
<b>%</b>						
<b>Mottle 1</b>		10YR4/2		7.5YR5/8	7.5YR5/8	
<b>Abund %</b>		25		20	20	
<b>Size</b>				2-5	2-5	
<b>Contrast</b>						
<b>Mottle2</b>		7.5YR5/8		5Y7/2		
<b>Abund2</b>		15				
<b>Size2</b>						
<b>Contrast2</b>						
<b>Texture</b>	ZL	ZL	ZL	ZL	ZL	
<b>%clay</b>	22	20	22	20	20	
<b>%sand</b>	15	15	15	15	15	
<b>%stones</b>	0	0	0	0	0	
<b>Stone size</b>						
<b>Apedal/Pedal type</b>	P - 85%	P - 70%	P - 70%	A - massive	A - massive	
<b>Ped shape</b>	Poly	Poly	Poly			
<b>Size class &lt;40mm</b>						
<b>Size range (mm)</b>						
<b>0-10 mm (vF &amp; F)</b>	√					
<b>10-20 mm (M)</b>		√	√			
<b>20-60 mm (C)</b>						
<b>60-200 mm (vC&amp;xC)</b>						
<b>&gt;200 mm (G)</b>						
<b>Ssize method</b>						
<b>Soil strength</b>	W	W	W	W	W	
<b>Ped strength</b>						
<b>Failure</b>						
<b>Stickiness</b>						
<b>Coatings - kind</b>						
<b>Abundance</b>						
<b>Distinctness</b>						
<b>Particle Packing</b>						
<b>Root abund &lt;2mm</b>						
<b>Root abund &gt;2mm</b>						
<b>Permeability Est</b>	vr	m	ms	m	m	
<b>NaF test</b>						
<b>Soil material</b>						
<b>Notes</b>						
<b>Drainage</b>	Poor	<b>Subgroup</b>	GRT	<b>Soil depth class</b>	D	<b>Texture</b>
<b>Dpth Slow</b>	999	<b>P Root Depth</b>	55	<b>Root Barrier</b>	A	<b>Z</b>
<b>PM Class</b>	Md	<b>Rok class</b>	NA	<b>Rok cla - fines</b>	Hs	<b>TextureGp60</b>
<b>Permeability</b>	m	<b>PM Origin upper</b>	Al	<b>PM Origin lower</b>	Al	<b>Z</b>

DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap							SMap 1.0	
<b>Project/ident</b>				<b>Observer</b>			<b>Obsvsn type</b>	<i>Pit</i>
<b>Profile No</b>				<b>Date</b>			<b>Map sheet</b>	
<b>Grid Ref.</b>	2832788	6180321	<i>GPS ref</i>			<b>Projection</b>	NZMG	
<b>Slope</b>				<b>Elevation</b>				
<b>Aspect (compass-23°)</b>				<b>Region</b>				
<b>Location</b>	Near Puketapu							
<b>Soil Name</b>	Moteo, 18s						<b>Representative</b>	
<b>Management</b>			<b>Landuse</b>	Orchard				
<b>Landscape</b>			<b>Landform</b>	Basin	<b>Landform adj</b>			
<b>Microtop</b>			<b>Parent material</b>	Alluvium & peat				
<b>Vegetation</b>	Apples	<b>Vege2</b>						
<b>Notes</b>								
	1	2	3	4	5	6		
<b>Sampled (tick)</b>	tLw	Al						
<b>Hor. Desig.</b>	Apg	Bg	O					
<b>Depth (base) cm</b>	23	67	100+					
<b>Moisture</b>								
<b>Matrix colour</b>	10YR5/2	5Y7/2	10YR5/2					
<b>%</b>								
<b>Mottle 1</b>		7.5YR5/8						
<b>Abund %</b>		5						
<b>Size</b>								
<b>Contrast</b>								
<b>Mottle2</b>								
<b>Abund2</b>								
<b>Size2</b>								
<b>Contrast2</b>								
<b>Texture</b>	SL	LS	TI					
<b>%clay</b>	15	8	20					
<b>%sand</b>	65	55	15					
<b>%stones</b>	0	0	0					
<b>Stone size</b>								
<b>Apedal/Pedal type</b>	P - 85%	P - 65%	P - 80%					
<b>Ped shape</b>	Poly	Poly	Poly					
<b>Size class &lt;40mm</b>								
<b>Size range (mm)</b>								
<b>0-10 mm (vF &amp; F)</b>	√							
<b>10-20 mm (M)</b>		√	√					
<b>20-60 mm (C)</b>								
<b>60-200 mm (vC&amp;xC)</b>								
<b>&gt;200 mm (G)</b>								
<b>Ssize method</b>								
<b>Soil strength</b>	W	W	W					
<b>Ped strength</b>								
<b>Failure</b>								
<b>Stickiness</b>								
<b>Coatings - kind</b>								
<b>Abundance</b>								
<b>Distinctness</b>								
<b>Particle Packing</b>								
<b>Root abund &lt;2mm</b>								
<b>Root abund &gt;2mm</b>								
<b>Permeability Est</b>	vr	r	s					
<b>NaF test</b>								
<b>Soil material</b>								
<b>Notes</b>								
<b>Drainage</b>	Poor	<b>Subgroup</b>	GRT	<b>Soil depth class</b>	D	<b>Texture</b>		
<b>Dpth Slow</b>	999	<b>P Root Depth</b>	90	<b>Root Barrier</b>	N	<b>L/S</b>		
<b>PM Class</b>	Md	<b>Rok class</b>	NA	<b>Rok cla - fines</b>	Hs	<b>TextureGp60</b>		
<b>Permeability</b>	m	<b>PM Origin upper</b>	Al	<b>PM Origin lower</b>	Al	<b>L/S</b>		

DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap						SMap 1.0
<b>Project/ident</b>					<b>Observer</b>	
<b>Profile No</b>					<b>Date</b>	
<b>Grid Ref.</b>	2837147	6182222	<i>GPS ref</i>		<b>Obsvn type</b>	<i>Cutting</i>
<b>Slope</b>				<b>Elevation</b>		<b>Projection</b>
Location	Near Puketitiri in drain					
Soil Name	Okawa, 29					Representative
Management		Landuse	Sheep			
Landscape	Edge of valley	Landform	Fan on floodplain	Landform adj		Land Elemt
Microtop		Parent material	Alluvium			
Vegetation	Grass	Vege2				
Notes						
	1	2	3	4	5	6
Sampled (tick)	tLw	Lw	LCs	LCf	Lw	
<b>Hor. Desig.</b>	Ap	Bg	BCg1	BCx(g)	BCg2	
<b>Depth (base) cm</b>	15	45	75	90	100+	
Moisture						
Matrix colour	10YR4/2	5Y7/2	2.5Y7/2	10YR5/6	2.5Y7/2	
%						
Mottle 1		7.5YR5/8	7.5YR5/8	10YR8/3	7.5YR5/8	
Abund %		15	5	15	5	
Size						
Contrast						
Mottle2				5Y7/2		
Abund2				10		
Size2						
Contrast2						
Texture	ZL	ZL	SL	SL	SCL	
%clay	22	20	15	15	25	
%sand	15	15	65	65	65	
%stones	0	0	0	0	0	
Stone size						
<b>Apedal/Pedal type</b>	P - 85%	P - 80%	P - 30%	A - massive	A - SG	
Ped shape	Poly	Blocky	Blocky			
<b>Size class &lt;40mm</b>						
Size range (mm)						
0-10 mm (vF & F)	√					
10-20 mm (M)		√				
20-60 mm (C)			√			
60-200 mm (vC&xC)						
>200 mm (G)						
Ssize method						
<b>Soil strength</b>	W	W	SF	H	W	
Ped strength						
Failure						
Stickiness						
Coatings - kind						
Abundance						
Distinctness						
Particle Packing						
Root abund <2mm						
Root abund >2mm						
Permeability Est	vr	m	s	vs	m	
NaF test						
Soil material						
Notes						
<b>Drainage</b>	Poor	<b>Subgroup</b>	PUT	<b>Soil depth class</b>	MD	<b>Texture</b>
<b>Dpth Slow</b>	45	<b>P Root Depth</b>	75	<b>Root Barrier</b>	Pn	<b>Z/L</b>
<b>PM Class</b>	Md	<b>Rok class</b>	NA	<b>Rok cla - fines</b>		<b>TextureGp60</b>
<b>Permeability</b>	m/s	PM Origin upper	AI	PM Origin lower	AI	Z

DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap						SMap 1.0	
<b>Project/ident</b>			<b>Observer</b>			<b>Obsvsn type</b>	<i>Pit</i>
<b>Profile No</b>			<b>Date</b>			<b>Map sheet</b>	
<b>Grid Ref.</b>	2828230	6171038	<i>GPS ref</i>			<b>Projection</b>	NZMG
<b>Slope</b>					<b>Elevation</b>		
<b>Aspect (compass-23°)</b>					<b>Region</b>		
<b>Location</b>	Ohiti Road						
<b>Soil Name</b>	Flaxmere, 2g					<b>Representative</b>	
<b>Management</b>		<b>Landuse</b>	Vineyard				
<b>Landscape</b>		<b>Landform</b>	Backplain	<b>Landform adj</b>			<b>Land Elemt</b>
<b>Microtop</b>			<b>Parent material</b>	Alluvium			
<b>Vegetation</b>	Grapes	<b>Vege2</b>					
<b>Notes</b>							
	1	2	3	4	5	6	
<b>Sampled (tick)</b>	tLw	Al	VAI	VAI			
<b>Hor. Desig.</b>	Ap	Bw	2C	2Cg			
<b>Depth (base) cm</b>	5	30	75	100+			
<b>Moisture</b>							
<b>Matrix colour</b>	10YR4/2	2.5Y5/4	2.5Y6/2	2.5Y6/2			
<b>%</b>							
<b>Mottle 1</b>					7.5YR5/8		
<b>Abund %</b>					10		
<b>Size</b>							
<b>Contrast</b>							
<b>Mottle2</b>							
<b>Abund2</b>							
<b>Size2</b>							
<b>Contrast2</b>							
<b>Texture</b>	SL	LS	LS	LS			
<b>%clay</b>	15	2	2	2			
<b>%sand</b>	65	92	92	92			
<b>%stones</b>	0	0	70	70			
<b>Stone size</b>							
<b>Apedal/Pedal type</b>	P - 80%	P - 20%	A - SG	A - SG			
<b>Ped shape</b>	Poly	Blocky					
<b>Size class &lt;40mm</b>							
<b>Size range (mm)</b>							
0-10 mm (vF & F)	√	√					
10-20 mm (M)							
20-60 mm (C)							
60-200 mm (vC&xC)							
>200 mm (G)							
<b>Ssize method</b>							
<b>Soil strength</b>	W	W	W	W			
<b>Ped strength</b>							
<b>Failure</b>							
<b>Stickiness</b>							
<b>Coatings - kind</b>							
<b>Abundance</b>							
<b>Distinctness</b>							
<b>Particle Packing</b>			Loose	Loose			
<b>Root abund &lt;2mm</b>							
<b>Root abund &gt;2mm</b>							
<b>Permeability Est</b>	vr	r	r	r			
<b>NaF test</b>							
<b>Soil material</b>							
<b>Notes</b>							
<b>Drainage</b>	Moderately well	<b>Subgroup</b>	RST	<b>Soil depth class</b>	D	<b>Texture</b>	
<b>Dpth Slow</b>	999	<b>P Root Depth</b>	90	<b>Root Barrier</b>	N	<b>L/S</b>	
<b>PM Class</b>	Ms	<b>Rok class</b>	NA	<b>Rok cla - fines</b>	Hs	<b>TextureGp60</b>	
<b>Permeability</b>	r	PM Origin upper	Al	PM Origin lower	Al	L/S	

DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap						SMap 1.0
<b>Project/ident</b>					<b>Observer</b>	
<b>Profile No</b>					<b>Date</b>	
<b>Grid Ref.</b>	2835810	6165247	<i>GPS ref</i>		<b>Obsv type</b>	<i>Pit</i>
<b>Slope</b>					<b>Elevation</b>	
<b>Aspect (compass-23°)</b>					<b>Region</b>	
<b>Location</b>	Just South of Hastings ITM & Recycling Yard					
<b>Soil Name</b>	Karamu, 13s					<b>Representative</b>
<b>Management</b>		<b>Landuse</b>	Organic Apple Orchard			
<b>Landscape</b>		<b>Landform</b>	Upper backplain			
<b>Microtop</b>		<b>Parent material</b>	Alluvium			
<b>Vegetation</b>	Apples & grass	<b>Vege2</b>				
<b>Notes</b>						
	1	2	3	4	5	6
<b>Sampled (tick)</b>	tLw	Lw	Al	Al		
<b>Hor. Desig.</b>	Ap	Bw	2Bg	2BC(g)		
<b>Depth (base) cm</b>	5	15	55	100+		
<b>Moisture</b>						
<b>Matrix colour</b>	10YR4/2	7.5YR5/4	5Y7/2	7.5Y7/1		
<b>%</b>						
<b>Mottle 1</b>			7.5YR5/8	7.5YR5/8		
<b>Abund %</b>			10	40		
<b>Size</b>						
<b>Contrast</b>						
<b>Mottle2</b>						
<b>Abund2</b>						
<b>Size2</b>						
<b>Contrast2</b>						
<b>Texture</b>	ZL	ZL	LS	LS		
<b>%clay</b>	22	19	2	2		
<b>%sand</b>	15	20	92	92		
<b>%stones</b>	0	0	0	0		
<b>Stone size</b>						
<b>Apedal/Pedal type</b>	P - 80%	P - 70%	A - SG	A - SG		
<b>Ped shape</b>	Poly	Blocky				
<b>Size class &lt;40mm</b>						
<b>Size range (mm)</b>						
<b>0-10 mm (vF &amp; F)</b>	√					
<b>10-20 mm (M)</b>		√				
<b>20-60 mm (C)</b>						
<b>60-200 mm (vC&amp;xC)</b>						
<b>&gt;200 mm (G)</b>						
<b>Ssize method</b>						
<b>Soil strength</b>	W	W	W	W		
<b>Ped strength</b>						
<b>Failure</b>						
<b>Stickiness</b>						
<b>Coatings - kind</b>						
<b>Abundance</b>						
<b>Distinctness</b>						
<b>Particle Packing</b>						
<b>Root abund &lt;2mm</b>						
<b>Root abund &gt;2mm</b>						
<b>Permeability Est</b>	vr	m	r	r		
<b>NaF test</b>						
<b>Soil material</b>						
<b>Notes</b>						
<b>Drainage</b>	Imperfect	<b>Subgroup</b>	BOT	<b>Soil depth class</b>	D	<b>Texture</b>
<b>Dpth Slow</b>	999	<b>P Root Depth</b>	90	<b>Root Barrier</b>	N	<b>Z/S</b>
<b>PM Class</b>	Md	<b>Rok class</b>	NA	<b>Rok cla - fines</b>	Hs	<b>TextureGp60</b>
<b>Permeability</b>	m/r	PM Origin upper	Al	PM Origin lower	Al	Z/S

DATA SHEET FOR SOIL & REGOLITH CHARACTERISATION - Smap						SMap 1.0	
<b>Project/ident</b>			<b>Observer</b>			<b>Obsvsn type</b>	<i>Pit</i>
<b>Profile No</b>			<b>Date</b>			<b>Map sheet</b>	
<b>Grid Ref.</b>	2835808	6165246	<i>GPS ref</i>			<b>Projection</b>	NZMG
<b>Slope</b>					<b>Elevation</b>		
<b>Aspect (compass-23°)</b>					<b>Region</b>		
<b>Location</b>	Just South of Hastings ITM & Recycling Yard						
<b>Soil Name</b>	Irongate, 21					<b>Representative</b>	
<b>Management</b>			<b>Landuse</b>	Orchard			
<b>Landscape</b>			<b>Landform</b>	Backplain	<b>Landform adj</b>	Hollow	<b>Land Elemt</b>
<b>Microtop</b>			<b>Parent material</b>	Alluvium			
<b>Vegetation</b>	Apples	<b>Vege2</b>					
<b>Notes</b>							
	1	2	3	4	5	6	
<b>Sampled (tick)</b>	tLw	Lw	Al	Al			
<b>Hor. Desig.</b>	Ap	Bg	2Bg	2Cg			
<b>Depth (base) cm</b>	5	20	60	100+			
<b>Moisture</b>							
<b>Matrix colour</b>	10YR5/2	5Y7/2	5Y7/2	7.5YR7/1			
<b>%</b>							
<b>Mottle 1</b>		7.5YR5/8	7.5YR5/8	7.5YR5/8			
<b>Abund %</b>		10	25	45			
<b>Size</b>							
<b>Contrast</b>							
<b>Mottle2</b>							
<b>Abund2</b>							
<b>Size2</b>							
<b>Contrast2</b>							
<b>Texture</b>	ZL	SL	LS	LS			
<b>%clay</b>	20	15	2	2			
<b>%sand</b>	15	65	92	92			
<b>%stones</b>	0	0	0	0			
<b>Stone size</b>							
<b>Apedal/Pedal type</b>	P - 85%	P - 80%	A - SG	A - SG			
<b>Ped shape</b>	Poly	Blocky					
<b>Size class &lt;40mm</b>							
<b>Size range (mm)</b>							
<b>0-10 mm (vF &amp; F)</b>	√						
<b>10-20 mm (M)</b>		√					
<b>20-60 mm (C)</b>							
<b>60-200 mm (vC&amp;xC)</b>							
<b>&gt;200 mm (G)</b>							
<b>Ssize method</b>							
<b>Soil strength</b>	W	W	W	W			
<b>Ped strength</b>							
<b>Failure</b>							
<b>Stickiness</b>							
<b>Coatings - kind</b>							
<b>Abundance</b>							
<b>Distinctness</b>							
<b>Particle Packing</b>							
<b>Root abund &lt;2mm</b>							
<b>Root abund &gt;2mm</b>							
<b>Permeability Est</b>	vr	m	r	r			
<b>NaF test</b>							
<b>Soil material</b>							
<b>Notes</b>							
<b>Drainage</b>	Poor	<b>Subgroup</b>	GOT	<b>Soil depth class</b>	D	<b>Texture</b>	
<b>Dpth Slow</b>	999	<b>P Root Depth</b>	90	<b>Root Barrier</b>	N	<b>L/S</b>	
<b>PM Class</b>	Md	<b>Rok class</b>	NA	<b>Rok cla - fines</b>	Hs	<b>TextureGp60</b>	
<b>Permeability</b>	m/r	PM Origin upper	Al	PM Origin lower	Al	L/S	

