San Francisco Dune Sheet, California

UTM Sector and Datum (xx/yr), Northing, Easting, Estimated Error (EPE +-m), DEM Altitude (Alt m MSL). Exposure Type: Active (AC), Trench (TR), Auger (AU), Road Cut (RC), Creek Cut (CC), Sea Cliff (SC), Slope (SL).

Units: Age: Tertiary (T), Pleistocene (P), Holocene (H), Wave-cut Platform (W); Parent Material; Soil Horizon

Parent Material: Eolian Dune (D), Loess (L), Colluvium (U), Peat (P), Alluvial/Fluvial (V), Lagoonal/Estuary (N),

Beach Shoreface (S), Basal Conglomerate (M).

Note: Loess (L) is designated where it overlies bedrock, colluvium, or pre-existing Bw/Bt horizons.

Soil Horizon: Organic (A), Leached (E), Accumulation (B), Fe+3 Accumulation (Bw),

Incipient Clay Accumulation (Btj), Clay Accumulation (Bt), Humate Accumulation (Bh),

Calcrete (Bk), Silcrete (Bq), Reduced Glade Layer (Bg), Subsoil Calcrete (K),

Dune Parent (C), Oxidized Parent (Cox).

Subsurface depth (cm); Dominant Grain Size: Silt, Sand, Pebbles, Cobbles (default is sand)

Sand sizes (Coarse U/L, Medium U/L, Fine U/L, VeryFine U/L)

Bedding: Cross Beds (XB,dipxx), Planar Beds (PB), Fluidization (FL), Heavy Mineral Laminae (HM)

Munsel Maximum Color (field condition: moist)

Penetrometer: (P. kg/square cm) unconfined compressive strength.

Structure: loose, very weak blocky, weak blocky, strong blocky, columnar/prismatic.

Diagenesis: Fe-ortstein, Fe-humate, allophane, gibbsite, calcrete, silcrete

Dune Sheet SANF1	Zone/NAD 10S/83	UTM-N 4185120	UTM-E) 55584(EPE (m)	Alt (m) 10	53	Date 2/9/03	Exposure RC
		t halfway to th						
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cr		Structure	Diagensis
Disturbed	0-50							
HDCox	50-200	FU		2.5y7/4		0.5	VeryWeak B.	
HDBw	200-215	FU					Weak Blocky	
HDCox	215-250	FU					Very Weak B.	
HDBw	250-275	FU		10yr5/6			Weak Bocky	
HDCox	275-350	FU				1	Very Weak B.	
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)		Date	Exposure
SANF2	10S/1927	4184240	563660)	9	11		AU
		topsoil profile a				-		
Pardee home	dates from 18	00's so this sit					e downtown Oa	
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cr	n^2	Structure	Diagenesis
Disturbed	0-20							
PDBw	20-40	Size						
PDBtj	40-60					2.75	Weak Blocky	
PDCox	60-150	Size						
PDBtj	150-160						Weak Blocky	
PDCox	160-175	FU					Very Weak B.	
PDE	175-205							
PDBtj	205-220						Weak Blocky	
PDCox	220-230	FU					Very Weak B.	
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)		Date	Exposure
SANF3	10S/83	4183500		-	5	31	2/15/03	SC
		ed at the NE er						
-		it (830-850 cm	· ·					
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cr	n^2	Structure	Diagenesis
HDA	0-3							
HDC	3-55	FU		10YR6/4			Loose	
HDBw	55-68			7.5YR/4/6			Very Weak B.	
HDCox	68-210	FU				0.5	Very Weak B.	

HDBw HDC	210-235 235-335			7.5YR5/4		1.5 0.5	Very Weak B.	
HDC	335-375	FU		7.5YR5/8			Very Weak B.	
HDCox	375-410	10		1.511(5) 0		0.5	-	
HDA	410-415					0.5		
HDBw	415-420					1		
HDCox	420-500					0.5		
HDBw	500-540	FU		7.5YR4/6		2.25	Weak Blocky	
HDCox	540-730							
LBw	730-750	Silty						
PD/UBtj	750-780			7.5YR5/6		4	Weak Blocky	
PDBw	780-830	FU		10YR5/6				
PDCox	830-1370							
PDBw	1370-1410						Strong Blocky	
PDCox PDBw	1410-1650					4.5		
PDBw PDCox	1650-1700 1700-2000					4.5 4.5		aibbaita
Cover	2000-2500					4.3		gibbsite
Cover	2000-2300							
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	ΔI	t (m)	Date	Exposure
SANF4	10S/1927	4180220			10	81		•
		, in bottom of i				-		
		50 cm might re	-					,
Units	Depth cm	Grain Size	Bedding	Color		kg/cm^2	Structure	Diagenesis
Disturbed	0-300							
HDCox	300-540							
PDBtj	540-560							
PDCox	560-700	ML						
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Al	t (m)	Date	Exposure
Dune Sheet SANF5	Zone/NAD 10S/1927	UTM-N 4180106	UTM-E 543300	EPE (m)	Al 6	t (m) 10	Date 2/15/03	Exposure AU
SANF5	10S/1927	4180106	543300)	6	10	2/15/03	•
SANF5	10S/1927		543300)	6 ern Win	10	2/15/03	•
SANF5 Site Notes: Lo	10S/1927 ocated at NW o	4180106 corner of socce	543300 field, just sou) th of northe	6 ern Win	10 dmill TL Sar	2/15/03 nple 400 cm).	AU
SANF5 Site Notes: Lo Units	10S/1927 ocated at NW c Depth cm	4180106 corner of socce	543300 field, just sou) th of northe	6 ern Win	10 dmill TL Sar kg/cm^2	2/15/03 nple 400 cm).	AU
SANF5 Site Notes: Lo Units HDA	10S/1927 ocated at NW o Depth cm 0-20	4180106 corner of soccer Grain Size	543300 field, just sou) th of northe	6 ern Win	10 dmill TL Sar kg/cm^2	2/15/03 nple 400 cm). Structure	AU
SANF5 Site Notes: Lo Units HDA HDBw	10S/1927 ocated at NW o Depth cm 0-20 20-40	4180106 corner of soccer Grain Size ML	543300 field, just sou) th of northe	6 ern Win	10 dmill TL Sar kg/cm^2	2/15/03 nple 400 cm). Structure	AU
SANF5 Site Notes: Lo Units HDA HDBw HDCox HDC	10S/1927 ocated at NW o Depth cm 0-20 20-40 40-280 280-420	4180106 corner of soccer Grain Size ML ML	543300 field, just sou Bedding) th of northe Color	6 ern Win P.I	1C dmill TL Sar kg/cm^2 1.25	2/15/03 nple 400 cm). Structure Loose	AU Diagenesis
SANF5 Site Notes: Lo Units HDA HDBw HDCox HDC Dune Sheet	10S/1927 ocated at NW of Depth cm 0-20 20-40 40-280 280-420 Zone/NAD	4180106 corner of soccer Grain Size ML ML UTM-N	543300 field, just sou Bedding UTM-E) th of northe Color EPE (m)	6 ern Win P.I	10 dmill TL Sar kg/cm^2 1.25 t (m)	2/15/03 nple 400 cm). Structure Loose Date	AU Diagenesis Exposure
SANF5 Site Notes: Lo Units HDA HDBw HDCox HDC Dune Sheet SANF6	10S/1927 ocated at NW of Depth cm 0-20 20-40 40-280 280-420 Zone/NAD 10S/83	4180106 corner of soccer Grain Size ML ML UTM-N 4178930	543300 field, just sou Bedding UTM-E 546520) th of northe Color EPE (m)	6 ern Win P.l Al	10 dmill TL Sar kg/cm^2 1.25 t (m) 181	2/15/03 nple 400 cm). Structure Loose Date 2/15/03	AU Diagenesis Exposure SL
SANF5 Site Notes: Lo Units HDA HDBw HDCox HDC Dune Sheet SANF6 Site Notes: TI	10S/1927 ocated at NW of Depth cm 0-20 20-40 40-280 280-420 Zone/NAD 10S/83 his measured so	4180106 corner of soccer Grain Size ML ML UTM-N 4178930 ection site is loc	543300 field, just sou Bedding UTM-E 546520 cated on the n) th of northe Color EPE (m)) orth side of	6 ern Win P.I Al 6 Grandv	10 dmill TL Sar kg/cm^2 1.25 t (m) t (m) 181 view Hill (ne	2/15/03 nple 400 cm). Structure Loose Date 2/15/03 ar chert outcro	AU Diagenesis Exposure SL p).
SANF5 Site Notes: Lo Units HDA HDBw HDCox HDC Dune Sheet SANF6 Site Notes: Th Units	10S/1927 ocated at NW of Depth cm 0-20 20-40 40-280 280-420 Zone/NAD 10S/83 his measured so Depth cm	4180106 corner of soccer Grain Size ML ML UTM-N 4178930	543300 field, just sou Bedding UTM-E 546520) th of northe Color EPE (m)	6 ern Win P.I Al 6 Grandv	10 dmill TL Sar kg/cm^2 1.25 t (m) 181	2/15/03 nple 400 cm). Structure Loose Date 2/15/03	AU Diagenesis Exposure SL
SANF5 Site Notes: Lo Units HDA HDBw HDCox HDC Dune Sheet SANF6 Site Notes: TH Units Disturbed	10S/1927 ocated at NW of Depth cm 0-20 20-40 40-280 280-420 Zone/NAD 10S/83 his measured so Depth cm 0-20	4180106 corner of soccer Grain Size ML ML UTM-N 4178930 ection site is loc	543300 field, just sou Bedding UTM-E 546520 cated on the n) th of northe Color EPE (m)) orth side of	6 ern Win P.I Al 6 Grandv	10 dmill TL Sar kg/cm^2 1.25 t (m) t (m) view Hill (ne kg/cm^2	2/15/03 nple 400 cm). Structure Loose Date 2/15/03 ar chert outcro Structure	AU Diagenesis Exposure SL p).
SANF5 Site Notes: Lo Units HDA HDBw HDCox HDC Dune Sheet SANF6 Site Notes: TH Units Disturbed HDA	10S/1927 ocated at NW of Depth cm 0-20 20-40 40-280 280-420 Zone/NAD 10S/83 his measured so Depth cm 0-20 20-35	4180106 corner of soccer Grain Size ML ML UTM-N 4178930 ection site is loc	543300 field, just sou Bedding UTM-E 546520 cated on the n) th of northe Color EPE (m)) orth side of Color	6 ern Win P.I Al 6 Grandv	10 dmill TL Sar kg/cm^2 1.25 t (m) 181 view Hill (ne kg/cm^2 0.5	2/15/03 nple 400 cm). Structure Loose Date 2/15/03 ar chert outcro Structure	AU Diagenesis Exposure SL p).
SANF5 Site Notes: Lo Units HDA HDBw HDCox HDC Dune Sheet SANF6 Site Notes: TI Units Disturbed HDA HDBw	10S/1927 ocated at NW of Depth cm 0-20 20-40 40-280 280-420 Zone/NAD 10S/83 his measured so Depth cm 0-20 20-35 35-55	4180106 corner of soccer Grain Size ML ML UTM-N 4178930 ection site is loc	543300 field, just sou Bedding UTM-E 546520 cated on the n) th of northe Color EPE (m)) orth side of Color 7.5YR5/6	6 ern Win P.I Al 6 Grandv	10 dmill TL Sar kg/cm^2 1.25 t (m) 181 view Hill (ne kg/cm^2 0.5 1	2/15/03 nple 400 cm). Structure Loose Date 2/15/03 ar chert outcro Structure Loose Very Weak B.	AU Diagenesis Exposure SL p).
SANF5 Site Notes: Lo Units HDA HDBW HDCox HDC Dune Sheet SANF6 Site Notes: TI Units Disturbed HDA HDBW HDCox	10S/1927 ocated at NW of Depth cm 0-20 20-40 40-280 280-420 Zone/NAD 10S/83 his measured so Depth cm 0-20 20-35 35-55 55-115	4180106 corner of soccer Grain Size ML ML UTM-N 4178930 ection site is loc	543300 field, just sou Bedding UTM-E 546520 cated on the n) th of northe Color EPE (m)) orth side of Color	6 ern Win P.I Al 6 Grandv	10 dmill TL Sar kg/cm^2 1.25 t (m) 181 view Hill (ne kg/cm^2 0.5 1 0.5	2/15/03 nple 400 cm). Structure Loose Date 2/15/03 ar chert outcro Structure Loose Very Weak B. Loose	AU Diagenesis Exposure SL p).
SANF5 Site Notes: Lo Units HDA HDBW HDCox HDC Dune Sheet SANF6 Site Notes: TI Units Disturbed HDA HDBW HDCox HDA	10S/1927 ocated at NW of Depth cm 0-20 20-40 40-280 280-420 Zone/NAD 10S/83 his measured so Depth cm 0-20 20-35 35-55 55-115 115-120	4180106 corner of soccer Grain Size ML ML UTM-N 4178930 ection site is loc	543300 field, just sou Bedding UTM-E 546520 cated on the n) th of northe Color EPE (m)) orth side of Color 7.5YR5/6	6 ern Win P.I Al 6 Grandv	10 dmill TL Sar kg/cm^2 1.25 t (m) 181 view Hill (ne kg/cm^2 0.5 1	2/15/03 nple 400 cm). Structure Loose Date 2/15/03 ar chert outcro Structure Loose Very Weak B. Loose	AU Diagenesis Exposure SL p).
SANF5 Site Notes: Lo Units HDA HDBW HDCox HDC Dune Sheet SANF6 Site Notes: TI Units Disturbed HDA HDBW HDCox	10S/1927 ocated at NW of Depth cm 0-20 20-40 40-280 280-420 Zone/NAD 10S/83 his measured so Depth cm 0-20 20-35 35-55 55-115	4180106 corner of soccer Grain Size ML ML UTM-N 4178930 ection site is loc	543300 field, just sou Bedding UTM-E 546520 cated on the n) th of northe Color EPE (m)) orth side of Color 7.5YR5/6	6 ern Win P.I Al 6 Grandv	10 dmill TL Sar kg/cm^2 1.25 t (m) 181 view Hill (ne kg/cm^2 0.5 1 0.5	2/15/03 nple 400 cm). Structure Loose Date 2/15/03 ar chert outcro Structure Loose Very Weak B. Loose	AU Diagenesis Exposure SL p).
SANF5 Site Notes: Lo Units HDA HDBW HDCox HDC Dune Sheet SANF6 Site Notes: TI Units Disturbed HDA HDBW HDCox HDA	10S/1927 ocated at NW of Depth cm 0-20 20-40 40-280 280-420 Zone/NAD 10S/83 his measured so Depth cm 0-20 20-35 35-55 55-115 115-120	4180106 corner of soccer Grain Size ML ML UTM-N 4178930 ection site is loc	543300 field, just sou Bedding UTM-E 546520 cated on the n) th of northe Color EPE (m)) orth side of Color 7.5YR5/6	6 ern Win P.I 6 Grandv P.I	10 dmill TL Sar kg/cm^2 1.25 t (m) 181 view Hill (ne kg/cm^2 0.5 1 0.5 0.5	2/15/03 nple 400 cm). Structure Loose Date 2/15/03 ar chert outcro Structure Loose Very Weak B. Loose	AU Diagenesis Exposure SL p). Diagenesis
SANF5 Site Notes: Lo Units HDA HDBw HDCox HDC Dune Sheet SANF6 Site Notes: TI Units Disturbed HDA HDBw HDCox HDA HDC	10S/1927 ocated at NW of Depth cm 0-20 20-40 40-280 280-420 Zone/NAD 10S/83 his measured so Depth cm 0-20 20-35 35-55 55-115 115-120 120-150	4180106 corner of soccer Grain Size ML ML UTM-N 4178930 ection site is loo Grain Size	UTM-E 546520 cated on the n Bedding	EPE (m) color EPE (m) orth side of Color 7.5YR5/6 10YR6/4 EPE (m)	6 ern Win P.I 6 Grandv P.I	10 dmill TL Sar kg/cm^2 1.25 t (m) 181 view Hill (ne kg/cm^2 0.5 1 0.5	2/15/03 nple 400 cm). Structure Loose Date 2/15/03 ar chert outcro Structure Loose Very Weak B. Loose Date	AU Diagenesis Exposure SL p). Diagenesis
SANF5 Site Notes: Lo Units HDA HDBw HDCox HDC Dune Sheet SANF6 Site Notes: TI Units Disturbed HDA HDBw HDCox HDA HDC HDA HDC Dune Sheet SANF7	10S/1927 Depth cm 0-20 20-40 40-280 280-420 Zone/NAD 10S/83 his measured si Depth cm 0-20 20-35 35-55 55-115 115-120 120-150 Zone/NAD 10S/83	4180106 corner of soccer Grain Size ML ML UTM-N 4178930 ection site is loo Grain Size	UTM-E 546520 cated on the n Bedding UTM-E 546750	EPE (m) color FPE (m) orth side of Color 7.5YR5/6 10YR6/4 EPE (m)	6 ern Win P.I 6 Grandv P.I 8	10 dmill TL Sar kg/cm^2 1.25 t (m) 181 view Hill (ne kg/cm^2 0.5 0.5 1 0.5 0.5 t (m) 191	2/15/03 nple 400 cm). Structure Loose Date 2/15/03 ar chert outcro Structure Loose Very Weak B. Loose Date 2/15/03	AU Diagenesis Exposure SL p). Diagenesis
SANF5 Site Notes: Lo Units HDA HDBw HDCox HDC Dune Sheet SANF6 Site Notes: TI Units Disturbed HDA HDBw HDCox HDA HDC HDA HDC Dune Sheet SANF7	10S/1927 Depth cm 0-20 20-40 40-280 280-420 Zone/NAD 10S/83 his measured si Depth cm 0-20 20-35 35-55 55-115 115-120 120-150 Zone/NAD 10S/83	4180106 corner of soccer Grain Size ML ML UTM-N 4178930 ection site is lor Grain Size UTM-N 4177860	UTM-E 546520 cated on the n Bedding UTM-E 546750	EPE (m) color FPE (m) orth side of Color 7.5YR5/6 10YR6/4 EPE (m)	6 ern Win P.I 6 Grandv P.I 9 4	10 dmill TL Sar kg/cm^2 1.25 t (m) 181 view Hill (ne kg/cm^2 0.5 0.5 1 0.5 0.5 t (m) 191	2/15/03 nple 400 cm). Structure Loose Date 2/15/03 ar chert outcro Structure Loose Very Weak B. Loose Date 2/15/03	AU Diagenesis Exposure SL p). Diagenesis
SANF5 Site Notes: Lo Units HDA HDBW HDCox HDC Dune Sheet SANF6 Site Notes: TI Units Disturbed HDA HDBW HDCox HDA HDC HDA HDC Dune Sheet SANF7 Site Notes: TI Units HDA	10S/1927 ocated at NW of Depth cm 0-20 20-40 40-280 280-420 Zone/NAD 10S/83 his measured so Depth cm 0-20 20-35 35-55 55-115 115-120 120-150 Zone/NAD 10S/83 his site is locat Depth cm 0-5	4180106 corner of soccer Grain Size ML ML UTM-N 4178930 ection site is loo Grain Size UTM-N 4177860 ed on the west Grain Size	UTM-E 546520 cated on the n Bedding UTM-E UTM-E 546750 side of Hawk H	th of northe Color EPE (m) orth side of Color 7.5YR5/6 10YR6/4 EPE (m) iill, 6 blocks Color	6 ern Win P.I 6 Grandv P.I 9 s east c P.I	10 dmill TL Sar kg/cm^2 1.25 t (m) 181 view Hill (ne kg/cm^2 0.5 0.5 t (m) 191 of 19th Ave kg/cm^2	2/15/03 nple 400 cm). Structure Loose Date 2/15/03 ar chert outcro Structure Loose Very Weak B. Loose Date 2/15/03 Structure	AU Diagenesis Exposure SL p). Diagenesis Exposure SL
SANF5 Site Notes: Lo Units HDA HDBW HDCox HDC Dune Sheet SANF6 Site Notes: TI Units Disturbed HDA HDBW HDCox HDA HDCox HDA HDC Dune Sheet SANF7 Site Notes: TI Units	10S/1927 ocated at NW of Depth cm 0-20 20-40 40-280 280-420 Zone/NAD 10S/83 his measured so Depth cm 0-20 20-35 35-55 55-115 115-120 120-150 Zone/NAD 10S/83 his site is locat Depth cm	4180106 corner of soccer Grain Size ML ML UTM-N 4178930 ection site is lor Grain Size UTM-N 4177860 ed on the west	UTM-E 546520 cated on the n Bedding UTM-E UTM-E 546750 side of Hawk H) th of northe Color EPE (m)) orth side of Color 7.5YR5/6 10YR6/4 EPE (m)) Hill, 6 blocks	6 ern Win P.I 6 Grandv P.I 9 s east c P.I	10 dmill TL Sar kg/cm^2 1.25 t (m) 181 view Hill (ne kg/cm^2 0.5 0.5 t (m) 191 of 19th Ave kg/cm^2	2/15/03 nple 400 cm). Structure Loose Date 2/15/03 ar chert outcro Structure Loose Very Weak B. Loose Date 2/15/03	AU Diagenesis Exposure SL p). Diagenesis Exposure SL

HDCox	30-50	FU				0.5	Loose	
Dune Sheet SANF8 Site Notes: Si	Zone/NAD 10S/1927 te is south of r	UTM-N 4175310 parking lot, and			Alt (m) 7 section.	23	Date	Exposure SC
Holocene dun	es 0-200 cm d	lepth overlie Co	lma dune strata	a 200-400 cn	n depth (Unit			
		ox, and PDBw) substantial tru						
		y Clifton and Hu						
-		s submitted by				-		
	-	e sample (T419			-			
		s were identifie Kuhn, PhD The			-			2000.
		450-1000 cm)		-				
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2		Structure	Diagenesis
HD	0-200	ML	Tuunaatad	7 5			Loose	
PDBh PDCox	200-250 250-400	MU CL	Truncated	7.5yr4/2	I	.25	Very Weak B.	
PDBw	400-450	ML	Truncated	7.5yr4/6	3		Very Weak B.	
PSCox	450-600	ML		·) · · ·		.75	-)	
PSC	600-1000	CL			2	.75		
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)		Date	Exposure
SANF9	10S/83	4162380	544150		7	17	2/15/03	-
SANF9 Site Notes: T	10S/83 his site is on th	4162380 le northside of l	544150 Rockaway Hill, a	at the south e	7 end of Rockav	17 way E	2/15/03 Beach.	SC
SANF9 Site Notes: T These perche	10S/83 his site is on th d dunes are isc	4162380 le northside of l plated from the	544150 Rockaway Hill, a dune ramp (tru	at the south e incated) that	7 end of Rockav once supplie	17 way E d sar	2/15/03 Beach. nd to the terra	SC ice top.
SANF9 Site Notes: T	10S/83 his site is on th	4162380 le northside of l	544150 Rockaway Hill, a	at the south e	7 end of Rockav once supplie P.kg/cm^2	17 way E d sar <u>2</u>	2/15/03 Beach.	SC
SANF9 Site Notes: T These perche Units	10S/83 his site is on th d dunes are iso Depth cm	4162380 le northside of l plated from the	544150 Rockaway Hill, a dune ramp (tru	at the south e incated) that Color	7 end of Rockav once supplie P.kg/cm^2	17 way E d sar 2 0.5	2/15/03 Beach. nd to the terra Structure	SC ice top.
SANF9 Site Notes: T These perche Units HDA	10S/83 his site is on th d dunes are isc Depth cm 0-5	4162380 he northside of blated from the Grain Size	544150 Rockaway Hill, a dune ramp (tru	at the south e incated) that Color 10YR3/3	7 end of Rockav once supplie P.kg/cm^2	17 way E d sar 2 0.5 0.5	2/15/03 Beach. nd to the terra Structure Loose	SC ice top.
SANF9 Site Notes: T These perche Units HDA HDBw HDCox PUA	10S/83 his site is on th d dunes are iso Depth cm 0-5 5-10 10-50 50-97	4162380 he northside of blated from the Grain Size	544150 Rockaway Hill, a dune ramp (tru	at the south e incated) that Color 10YR3/3 10YR5/4 2.5Y5/4 5YR3/1	7 ond of Rockav once supplie P.kg/cm^2	17 way E d sar 2 0.5 0.5 0.5 4.5	2/15/03 Beach. Ind to the terra Structure Loose Loose Loose Strong Blocky	SC ice top.
SANF9 Site Notes: These perche Units HDA HDBw HDCox PUA PUBw	10S/83 his site is on th d dunes are iso Depth cm 0-5 5-10 10-50 50-97 97-167	4162380 he northside of blated from the Grain Size	544150 Rockaway Hill, a dune ramp (tru	at the south e incated) that Color 10YR3/3 10YR5/4 2.5Y5/4 5YR3/1 10YR5/4	7 end of Rockav once supplie P.kg/cm^2	17 way E d sar 2 0.5 0.5 0.5 4.5 4.5	2/15/03 Beach. Ind to the terra Structure Loose Loose Strong Blocky Strong Blocky	SC ice top.
SANF9 Site Notes: T These perche Units HDA HDBw HDCox PUA	10S/83 his site is on th d dunes are iso Depth cm 0-5 5-10 10-50 50-97	4162380 he northside of blated from the Grain Size	544150 Rockaway Hill, a dune ramp (tru	at the south e incated) that Color 10YR3/3 10YR5/4 2.5Y5/4 5YR3/1	7 end of Rockav once supplie P.kg/cm^2	17 way E d sar 2 0.5 0.5 0.5 4.5 4.5	2/15/03 Beach. Ind to the terra Structure Loose Loose Loose Strong Blocky	SC ice top.
SANF9 Site Notes: These perche Units HDA HDBw HDCox PUA PUBw	10S/83 his site is on th d dunes are iso Depth cm 0-5 5-10 10-50 50-97 97-167	4162380 he northside of blated from the Grain Size	544150 Rockaway Hill, a dune ramp (tru	at the south e incated) that Color 10YR3/3 10YR5/4 2.5Y5/4 5YR3/1 10YR5/4	7 end of Rockav once supplie P.kg/cm^2	17 way E d sar 2 0.5 0.5 0.5 4.5 4.5 4.5	2/15/03 Beach. Ind to the terra Structure Loose Loose Strong Blocky Strong Blocky	SC ice top.
SANF9 Site Notes: Ti These perche Units HDA HDBW HDCox PUA PUBW PUC	10S/83 his site is on th d dunes are isc Depth cm 0-5 5-10 10-50 50-97 97-167 167-250	4162380 he northside of b blated from the Grain Size Truncated	0 544150 Rockaway Hill, a dune ramp (tru Bedding UTM-E	at the south e incated) that Color 10YR3/3 10YR5/4 2.5Y5/4 5YR3/1 10YR5/4 2.5Y6/4 EPE (m)	7 end of Rockav once supplie P.kg/cm^2	17 way E d sar 2 0.5 0.5 0.5 4.5 4.5 4.5	2/15/03 Beach. Ind to the terra Structure Loose Loose Strong Blocky Strong Blocky Weak Blocky	SC nce top. Diagenesis Exposure
SANF9 Site Notes: These percher Units HDA HDBw HDCox PUA PUBw PUC Dune Sheet SANF10 Site Notes: These States	10S/83 his site is on th d dunes are iso Depth cm 0-5 5-10 10-50 50-97 97-167 167-250 Zone/NAD 10S/83 his site is abou	4162380 he northside of l blated from the Grain Size Truncated UTM-N 4162380 t halfway up th	0 544150 Rockaway Hill, a dune ramp (tru Bedding UTM-E 0 544120 e north side of	at the south e incated) that Color 10YR3/3 10YR5/4 2.5Y5/4 5YR3/1 10YR5/4 2.5Y6/4 EPE (m) Rockaway Hill	7 end of Rockav once supplie P.kg/cm^2 Alt (m) 6	17 way E d sar 2 0.5 0.5 4.5 4.5 4.5 4.5 26	2/15/03 Beach. Ind to the terra Structure Loose Loose Strong Blocky Strong Blocky Weak Blocky Date 2/15/03	SC nce top. Diagenesis Exposure SL
SANF9 Site Notes: These percher Units HDA HDBw HDCox PUA PUBw PUC Dune Sheet SANF10 Site Notes: The Units	10S/83 his site is on th d dunes are iso Depth cm 0-5 5-10 10-50 50-97 97-167 167-250 Zone/NAD 10S/83 his site is abou Depth cm	4162380 he northside of l blated from the Grain Size Truncated UTM-N 4162380	0 544150 Rockaway Hill, a dune ramp (tru Bedding UTM-E 0 544120	at the south e incated) that Color 10YR3/3 10YR5/4 2.5Y5/4 5YR3/1 10YR5/4 2.5Y6/4 EPE (m)	7 end of Rockav once supplie P.kg/cm^2 Alt (m) 6	17 way E d sar 2 0.5 0.5 4.5 4.5 4.5 4.5 26	2/15/03 Beach. Ind to the terra Structure Loose Loose Strong Blocky Strong Blocky Weak Blocky Date	SC nce top. Diagenesis Exposure
SANF9 Site Notes: Ti These perche Units HDA HDBw HDCox PUA PUBw PUC Dune Sheet SANF10 Site Notes: Ti Units HDA	10S/83 his site is on th d dunes are isc Depth cm 0-5 5-10 10-50 50-97 97-167 167-250 Zone/NAD 10S/83 his site is abou Depth cm 0-5	4162380 he northside of l plated from the Grain Size Truncated UTM-N 4162380 t halfway up th Grain Size	0 544150 Rockaway Hill, a dune ramp (tru Bedding UTM-E 0 544120 e north side of	at the south e incated) that Color 10YR3/3 10YR5/4 2.5Y5/4 5YR3/1 10YR5/4 2.5Y6/4 EPE (m) Rockaway Hill Color	7 end of Rockav once supplie P.kg/cm^2 Alt (m) 6 P.kg/cm^2	17 way E d sar 2 0.5 0.5 4.5 4.5 4.5 4.5 26 2	2/15/03 Beach. Ind to the terra Structure Loose Loose Strong Blocky Strong Blocky Weak Blocky Date 2/15/03 Structure	SC nce top. Diagenesis Exposure SL
SANF9 Site Notes: Ti These perche Units HDA HDBW HDCox PUA PUBW PUC Dune Sheet SANF10 Site Notes: Ti Units HDA HDBW	10S/83 his site is on th d dunes are isc Depth cm 0-5 5-10 10-50 50-97 97-167 167-250 Zone/NAD 10S/83 his site is abou Depth cm 0-5 10-May	4162380 he northside of l plated from the Grain Size Truncated UTM-N 4162380 t halfway up th Grain Size	0 544150 Rockaway Hill, a dune ramp (tru Bedding UTM-E 0 544120 e north side of	at the south e incated) that Color 10YR3/3 10YR5/4 2.5Y5/4 5YR3/1 10YR5/4 2.5Y6/4 EPE (m) Rockaway Hill Color 10YR5/6	7 end of Rockav once supplie P.kg/cm^2 Alt (m) 6 P.kg/cm^2	17 way E d sar 2 0.5 0.5 4.5 4.5 4.5 26 2 0.5	2/15/03 Beach. Ind to the terra Structure Loose Loose Strong Blocky Strong Blocky Weak Blocky Date 2/15/03 Structure Loose	SC nce top. Diagenesis Exposure SL
SANF9 Site Notes: TI These perche Units HDA HDBW HDCox PUA PUBW PUC Dune Sheet SANF10 Site Notes: TI Units HDA HDBW HDCox	10S/83 his site is on th d dunes are isc Depth cm 0-5 5-10 10-50 50-97 97-167 167-250 Zone/NAD 10S/83 his site is abou Depth cm 0-5 10-May 10-120	4162380 he northside of l plated from the Grain Size Truncated UTM-N 4162380 t halfway up th Grain Size	0 544150 Rockaway Hill, a dune ramp (tru Bedding UTM-E 0 544120 e north side of	at the south e incated) that Color 10YR3/3 10YR5/4 2.5Y5/4 5YR3/1 10YR5/4 2.5Y6/4 EPE (m) Rockaway Hill Color 10YR5/6 10YR5/6 10YR6/6	7 end of Rockav once supplie P.kg/cm^2 Alt (m) 6 P.kg/cm^2	17 way E d sar 2 0.5 0.5 4.5 4.5 4.5 26 2 0.5 0.5	2/15/03 Beach. Ind to the terra Structure Loose Loose Strong Blocky Weak Blocky Weak Blocky Date 2/15/03 Structure Loose Loose	SC nce top. Diagenesis Exposure SL
SANF9 Site Notes: TI These perche Units HDA HDBW HDCox PUA PUBW PUC Dune Sheet SANF10 Site Notes: TI Units HDA HDBW HDCox HDBW	10S/83 his site is on th d dunes are isc Depth cm 0-5 5-10 10-50 50-97 97-167 167-250 Zone/NAD 10S/83 his site is abou Depth cm 0-5 10-May 10-120 120-135	4162380 he northside of l plated from the Grain Size Truncated UTM-N 4162380 t halfway up th Grain Size	0 544150 Rockaway Hill, a dune ramp (tru Bedding UTM-E 0 544120 e north side of	at the south e incated) that Color 10YR3/3 10YR5/4 2.5Y5/4 5YR3/1 10YR5/4 2.5Y6/4 EPE (m) Rockaway Hill Color 10YR5/6	7 end of Rockav once supplie P.kg/cm^2 Alt (m) 6 P.kg/cm^2	17 way E d sar 2 0.5 0.5 4.5 4.5 4.5 2 2 0.5 0.5 1	2/15/03 Beach. Ind to the terra Structure Loose Loose Strong Blocky Weak Blocky Date 2/15/03 Structure Loose Loose Loose Very Weak B.	SC nce top. Diagenesis Exposure SL
SANF9 Site Notes: TI These perche Units HDA HDBW HDCox PUA PUBW PUC Dune Sheet SANF10 Site Notes: TI Units HDA HDBW HDCox HDBW HDCox	10S/83 his site is on th d dunes are isc Depth cm 0-5 5-10 10-50 50-97 97-167 167-250 Zone/NAD 10S/83 his site is abou Depth cm 0-5 10-May 10-120 120-135 135-160	4162380 he northside of l plated from the Grain Size Truncated UTM-N 4162380 t halfway up th Grain Size	0 544150 Rockaway Hill, a dune ramp (tru Bedding UTM-E 0 544120 e north side of	at the south e incated) that Color 10YR3/3 10YR5/4 2.5Y5/4 5YR3/1 10YR5/4 2.5Y6/4 EPE (m) Rockaway Hill Color 10YR5/6 10YR5/6 10YR6/6	7 end of Rockav once supplie P.kg/cm^2 Alt (m) 6 P.kg/cm^2	17 way E d sar 2 0.5 0.5 4.5 4.5 4.5 2 2 0.5 0.5 0.5 1 1	2/15/03 Beach. Ind to the terra Structure Loose Loose Strong Blocky Strong Blocky Weak Blocky Date 2/15/03 Structure Loose Loose Very Weak B. Very Weak B.	SC nce top. Diagenesis Exposure SL
SANF9 Site Notes: TI These perche Units HDA HDBW HDCox PUA PUBW PUC Dune Sheet SANF10 Site Notes: TI Units HDA HDBW HDCox HDBW	10S/83 his site is on th d dunes are isc Depth cm 0-5 5-10 10-50 50-97 97-167 167-250 Zone/NAD 10S/83 his site is abou Depth cm 0-5 10-May 10-120 120-135	4162380 he northside of l plated from the Grain Size Truncated UTM-N 4162380 t halfway up th Grain Size	0 544150 Rockaway Hill, a dune ramp (tru Bedding UTM-E 0 544120 e north side of	at the south e incated) that Color 10YR3/3 10YR5/4 2.5Y5/4 5YR3/1 10YR5/4 2.5Y6/4 EPE (m) Rockaway Hill Color 10YR5/6 10YR5/6 10YR6/6	7 end of Rockav once supplie P.kg/cm^2 Alt (m) 6 P.kg/cm^2	17 way E d sar 2 0.5 0.5 4.5 4.5 4.5 2 2 0.5 0.5 0.5 1 1	2/15/03 Beach. Ind to the terra Structure Loose Loose Strong Blocky Weak Blocky Date 2/15/03 Structure Loose Loose Loose Very Weak B.	SC ace top. Diagenesis Exposure SL Diagenesis