Guerrero Negro Dune Sheet, Baja California Sur, Mexico

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 GNEG1	Zone/NAD N11/1983	UTM-N 309683	UTM-E 0 78785	EPE (m)	Alt (m) 5 5	Date 12/18/00	Exposure
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	•		· ·		sequence) at 130		
					yileds a paleosea		0 ka?
Elevation est	imated from ol	oserved tide lev	vel.				
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
HD	0-50	MU		2.5y7/3	0.5	Loose	
PDE	50-60			10yr7/2	1.25	Very Weak B.	
PDBw	60-130			10yr7/4	1.5		
PNBk	130-150				4		caliche
PNBk	150-500						
PN	500-550						
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
GNEG2	N11/1983	309223			4 5		•
					dunes, on the sa	,	NC
						•	/
		cm) are lavere	d dune sand (/	()%) reworke	nd shells (25%) a	ind rare pebbles	s (5%)
•				'0%), reworke	ed shells (25%), a	ind rare pebbles	s (5%).
Burrows (inse	ects?) extend t	o 70 cm depth	ı.	'0%), reworke	ed shells (25%), a	nd rare pebbles	s (5%).
Burrows (inse	ects?) extend t imated from ol	o 70 cm depth	ı.	(0%), reworke Color		nd rare pebbles Structure	
Burrows (inse Elevation est	ects?) extend t	to 70 cm depth oserved tide lev	n. vel.		ed shells (25%), a P.kg/cm^2	·	s (5%). Diagenesis
Burrows (inse Elevation est Units	ects?) extend t imated from ol Depth cm	to 70 cm depth oserved tide lev	n. vel.	Color	P.kg/cm^2	·	
Burrows (inse Elevation est Units Disturbed	ects?) extend t imated from ol Depth cm 0-30	to 70 cm depth oserved tide lev Grain Size	n. vel.		P.kg/cm^2	Structure	
Burrows (inse Elevation est Units Disturbed HD	ects?) extend t imated from ol Depth cm 0-30 30-85	o 70 cm depth oserved tide lev Grain Size FU	n. vel.	Color 2.5y7/3	P.kg/cm^2 1 0.5	Structure Loose	
Burrows (inse Elevation est Units Disturbed HD HBw	ects?) extend t imated from of Depth cm 0-30 30-85 85-130	FU FU FU FU	n. vel.	Color 2.5y7/3	P.kg/cm^2 1 0.5	Structure Loose Loose	
Burrows (inse Elevation est Units Disturbed HD HBw PNE	ects?) extend t imated from of Depth cm 0-30 30-85 85-130 130-160	FU FU FU FU	n. vel.	Color 2.5y7/3	P.kg/cm^2 1 0.5 1.25	Structure Loose Loose Very Weak B.	
Burrows (inse Elevation est Units Disturbed HD HBw PNE PNBw PNC	ects?) extend t imated from of Depth cm 0-30 30-85 85-130 130-160 160-165 165-170	co 70 cm depth oserved tide lev Grain Size FU FU ML CL	n. vel. Bedding	Color 2.5y7/3 7.5yr7/6	P.kg/cm^2 1 0.5 1.25 2.5	Structure Loose Loose Very Weak B. Very Weak B. Very Weak B.	Diagenesis
Burrows (inse Elevation est Units Disturbed HD HBw PNE PNBw PNC Dune Sheet	ects?) extend t imated from of Depth cm 0-30 30-85 85-130 130-160 160-165 165-170 Zone/NAD	co 70 cm depth oserved tide lev Grain Size FU FU ML CL UTM-N	n. vel. Bedding UTM-E	Color 2.5y7/3 7.5yr7/6 EPE (m)	P.kg/cm^2 1 0.5 1.25 2.5 Alt (m)	Structure Loose Loose Very Weak B. Very Weak B. Very Weak B. Date	Diagenesis Exposure
Burrows (inse Elevation est Units Disturbed HD HBw PNE PNBw PNC Dune Sheet GNEG3	ects?) extend t imated from of Depth cm 0-30 30-85 85-130 130-160 160-165 165-170 Zone/NAD N11/1983	co 70 cm depth oserved tide lev Grain Size FU FU ML CL UTM-N 309007	n. vel. Bedding UTM-E 0 78448	Color 2.5y7/3 7.5yr7/6 EPE (m)	P.kg/cm^2 1 0.5 1.25 2.5	Structure Loose Loose Very Weak B. Very Weak B. Very Weak B. Date	Diagenesis Exposure
Burrows (inse Elevation est Units Disturbed HD HBw PNE PNBw PNC Dune Sheet GNEG3 Site Notes: L	ects?) extend t imated from of Depth cm 0-30 30-85 85-130 130-160 160-165 165-170 Zone/NAD N11/1983 arge modern b	co 70 cm depth oserved tide lev Grain Size FU FU ML CL UTM-N 309007 archans, migra	n. vel. Bedding UTM-E 0 78448 ting over deflat	Color 2.5y7/3 7.5yr7/6 EPE (m)	P.kg/cm^2 1 0.5 1.25 2.5 Alt (m)	Structure Loose Loose Very Weak B. Very Weak B. Very Weak B. Date	Diagenesis Exposure
Burrows (inse Elevation est Units Disturbed HD HBw PNE PNBw PNC Dune Sheet GNEG3 Site Notes: L	ects?) extend t imated from of Depth cm 0-30 30-85 85-130 130-160 160-165 165-170 Zone/NAD N11/1983 arge modern b imated from of	co 70 cm depth oserved tide lev Grain Size FU FU ML CL UTM-N 309007 archans, migra	n. vel. Bedding UTM-E 0 78448 ting over deflat vel.	Color 2.5y7/3 7.5yr7/6 EPE (m)	P.kg/cm^2 1 0.5 1.25 2.5 Alt (m) 4 10	Structure Loose Loose Very Weak B. Very Weak B. Very Weak B. Date	Diagenesis Exposure AC
Burrows (inse Elevation est Units Disturbed HD HBw PNE PNBw PNC Dune Sheet GNEG3 Site Notes: L Elevation est	ects?) extend t imated from of Depth cm 0-30 30-85 85-130 130-160 160-165 165-170 Zone/NAD N11/1983 arge modern b	co 70 cm depth oserved tide lev Grain Size FU FU ML CL UTM-N 309007 archans, migra oserved tide lev	n. vel. Bedding UTM-E 0 78448 ting over deflat	Color 2.5y7/3 7.5yr7/6 EPE (m) 0 ion surface.	P.kg/cm^2 1 0.5 1.25 2.5 Alt (m) 4 10 P.kg/cm^2	Structure Loose Very Weak B. Very Weak B. Very Weak B. Date 12/18/00	Diagenesis Exposure

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m) 4	20	Date	Exposure
GNEG4 Site Notes: Si	N12/1983	3089280 arry Caliche (1			•	30		
Site Notes: Site is in lime quarry. Caliche (1-2 m thick) is widely exposed at subsurface depths of 2-3 m. Reworked dune hummocks (2-3 m in height) are widely separated (100 m) above a Pleistocene deflation surface.								
Pleistocene dune deposits contain multiple DBw (189-240, 280-310 cm) and deflation layers.								
	-	S and 50 m co		,	.,			
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^	2	Structure	Diagenesis
HD	0-180	FU	0		U		Loose	5
PDBw	189-240	FU		7.5yr5/6		4	Very Weak B.	
PDCox	240-280	FU		10yr5/4			2	
PDBw	280-310	FU		7.5yr6/6		4	Weak Blocky	caliche
PDCox	310-350	ML		10yr6/4				
PDK	350-500			10yr8/1		4	Columnar	caliche
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)		Date	Exposure
GNEG5	N12/1983	3077790			4	40		
		uarry (TL Samp) cm depth W	3179 - WP1	6B E	xcavation 307	7791N/B).
		S and 50 m co				_	_	
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^		Structure	Diagenesis
PDE	0-30	MU	Truncated	10yr6/4			Very Weak B.	
PDBw	30-100	ML		10yr5/4			Very Weak B.	Kalaa
PDK	100-150	N 41		10			Columnar	caliche
PDCox	150-180	ML		10yr4/4		4.5	Strong Blocky	
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)		Date	Exposure
GNEG6	N12/1983	3077750	240810)	5	50	12/17/00	AU
		near ridges (2-		-		150	cm depth).	
Remobilized dune ridges are 100's meters in length and contain FU-ML sand.								
	-		-					
Intervening va	alleys contain c	coarser sand (M	U-CL) with defl			cem	ented).	
Intervening va Elevation esti	alleys contain c mated from GF	coarser sand (M PS and 50 m co	U-CL) with defl ntour map.	ation paveme	nts (weakly			
Intervening va Elevation esti Units	alleys contain c mated from GF Depth cm	coarser sand (M 2S and 50 m co Grain Size	U-CL) with defl	ation paveme Color		2	Structure	Diagenesis
Intervening va Elevation esti	alleys contain c mated from GF	coarser sand (M PS and 50 m co	U-CL) with defl ntour map.	ation paveme	nts (weakly	2		Diagenesis
Intervening va Elevation esti Units	alleys contain c mated from GF Depth cm 0-150 Zone/NAD	coarser sand (M 2S and 50 m co Grain Size	U-CL) with defl ntour map.	ation paveme Color	nts (weakly	2	Structure	Diagenesis Exposure
Intervening va Elevation esti Units HD Dune Sheet GNEG7	alleys contain c mated from GF Depth cm 0-150 Zone/NAD N12/1983	coarser sand (M 2S and 50 m col Grain Size ML UTM-N 3048750	U-CL) with defintour map. Bedding UTM-E 238020	ation paveme Color 10yr5/4 EPE (m)	nts (weakly P.kg/cm^ Alt (m) 4	2 0 50	Structure Loose Date 12/18/00	Exposure
Intervening va Elevation esti Units HD Dune Sheet GNEG7 Site Notes: Si	alleys contain o mated from GF Depth cm 0-150 Zone/NAD N12/1983 te is located in	coarser sand (M 2S and 50 m co Grain Size ML UTM-N 3048750 a area of Holoce	U-CL) with defl ntour map. Bedding UTM-E 238020 ne linear dunes	ation pavemen Color 10yr5/4 EPE (m) 5 (1-4 m heigh	nts (weakly P.kg/cm^ Alt (m) 4 nt) trending	2 0 50 NW-:	Structure Loose Date 12/18/00	Exposure
Intervening va Elevation esti Units HD Dune Sheet GNEG7 Site Notes: Si The remobiliz	alleys contain of mated from GF Depth cm 0-150 Zone/NAD N12/1983 te is located in ed ridges are s	coarser sand (M 2S and 50 m co Grain Size ML UTM-N 3048750 area of Holoce eparated 100-3	U-CL) with defintour map. Bedding UTM-E 238020 ne linear dunes 800 m over Plei	ation pavemen Color 10yr5/4 EPE (m) (1-4 m heigh istocene defla	nts (weakly P.kg/cm^ Alt (m) 4 nt) trending ntion surface	2 0 50 NW-:	Structure Loose Date 12/18/00	Exposure
Intervening va Elevation esti Units HD Dune Sheet GNEG7 Site Notes: Si The remobiliz Active dune t	alleys contain of mated from GF Depth cm 0-150 Zone/NAD N12/1983 te is located in ed ridges are s roughs betwee	coarser sand (M 2S and 50 m con Grain Size ML UTM-N 3048750 area of Holoce eparated 100-3 en ridges contai	U-CL) with defintour map. Bedding UTM-E 238020 ne linear dunes 300 m over Plei n MU sand size	ation pavemen Color 10yr5/4 EPE (m) (1-4 m heigh istocene defla	nts (weakly P.kg/cm^ Alt (m) 4 nt) trending ntion surface	2 0 50 NW-:	Structure Loose Date 12/18/00	Exposure
Intervening va Elevation esti Units HD Dune Sheet GNEG7 Site Notes: Si The remobiliz Active dune t Elevation esti	alleys contain of mated from GF Depth cm 0-150 Zone/NAD N12/1983 te is located in ed ridges are s roughs betwee mated from GF	coarser sand (M 2S and 50 m con Grain Size ML UTM-N 3048750 a area of Holoce eparated 100-3 en ridges contai 2S and 50 m con	U-CL) with definition map. Bedding UTM-E 238020 ne linear dunes 300 m over Plei n MU sand size ntour map.	ation pavemen Color 10yr5/4 EPE (m) s (1-4 m heigh istocene defla with 10% CU	nts (weakly P.kg/cm^ Alt (m) 4 nt) trending ntion surface lag.	2 50 NW-: s.	Structure Loose Date 12/18/00 SE.	Exposure RC/TR
Intervening va Elevation esti Units HD Dune Sheet GNEG7 Site Notes: Si The remobiliz Active dune t Elevation esti Units	alleys contain of mated from GF Depth cm 0-150 Zone/NAD N12/1983 te is located in ed ridges are s rroughs betwee mated from GF Depth cm	coarser sand (M 2S and 50 m cou Grain Size ML UTM-N 3048750 a rea of Holoce eparated 100-3 en ridges contai 2S and 50 m cou Grain Size	U-CL) with defintour map. Bedding UTM-E 238020 ne linear dunes 300 m over Plei n MU sand size	ation pavemen Color 10yr5/4 EPE (m) (1-4 m heigh istocene defla	nts (weakly P.kg/cm^ Alt (m) 4 nt) trending ntion surface	2 50 NW-: s. 2	Structure Loose Date 12/18/00 SE. Structure	Exposure
Intervening va Elevation esti Units HD Dune Sheet GNEG7 Site Notes: Si The remobiliz Active dune t Elevation esti Units HDCox	alleys contain of mated from GF Depth cm 0-150 Zone/NAD N12/1983 te is located in ed ridges are s roughs betwee mated from GF Depth cm 0-200	coarser sand (M 2S and 50 m cou Grain Size ML UTM-N 3048750 a rea of Holoce eparated 100-3 en ridges contai 2S and 50 m cou Grain Size FU	U-CL) with definition map. Bedding UTM-E 238020 ne linear dunes 300 m over Plein n MU sand size ntour map. Bedding	ation pavemen Color 10yr5/4 EPE (m) istocene defla with 10% CU Color	nts (weakly P.kg/cm^ Alt (m) 4 nt) trending ntion surface lag.	2 50 NW-: s. 2 0	Structure Loose Date 12/18/00 SE. Structure Loose	Exposure RC/TR
Intervening va Elevation esti Units HD Dune Sheet GNEG7 Site Notes: Si The remobiliz Active dune t Elevation esti Units HDCox PDBw	alleys contain of mated from GF Depth cm 0-150 Zone/NAD N12/1983 te is located in ed ridges are s roughs betwee mated from GF Depth cm 0-200 200-220	coarser sand (M 2S and 50 m cou Grain Size ML UTM-N 3048750 a rea of Holoce eparated 100-3 en ridges contai 2S and 50 m cou Grain Size FU MU	U-CL) with definition map. Bedding UTM-E 238020 ne linear dunes 300 m over Plei n MU sand size ntour map.	ation pavemen Color 10yr5/4 EPE (m) is (1-4 m heigh istocene defla with 10% CU Color 10yr5/4	nts (weakly P.kg/cm^ Alt (m) 4 nt) trending ntion surface lag.	2 50 NW-: s. 2 0 4	Structure Loose Date 12/18/00 SE. Structure Loose Weak Blocky	Exposure RC/TR
Intervening va Elevation esti Units HD Dune Sheet GNEG7 Site Notes: Si The remobiliz Active dune t Elevation esti Units HDCox PDBw PCox	alleys contain of mated from GF Depth cm 0-150 Zone/NAD N12/1983 te is located in ed ridges are s roughs betwee mated from GF Depth cm 0-200 200-220 220-240	coarser sand (M 2S and 50 m cou Grain Size ML UTM-N 3048750 a rea of Holoce eparated 100-3 en ridges contai 2S and 50 m cou Grain Size FU	U-CL) with definition map. Bedding UTM-E 238020 ne linear dunes 300 m over Plein n MU sand size ntour map. Bedding	ation pavemen Color 10yr5/4 EPE (m) istocene defla with 10% CU Color	nts (weakly P.kg/cm^ Alt (m) 4 nt) trending ntion surface lag. P.kg/cm^	2 50 NW-: s. 2 0 4 2.5	Structure Loose Date 12/18/00 SE. Structure Loose Weak Blocky Very Weak B.	Exposure RC/TR Diagenesis
Intervening va Elevation esti Units HD Dune Sheet GNEG7 Site Notes: Si The remobiliz Active dune t Elevation esti Units HDCox PDBw PCox PDBk	alleys contain of mated from GP Depth cm 0-150 Zone/NAD N12/1983 te is located in ed ridges are s roughs betwee mated from GP Depth cm 0-200 200-220 220-240 240-250	coarser sand (M 2S and 50 m cou Grain Size ML UTM-N 3048750 a rea of Holoce eparated 100-3 en ridges contai 2S and 50 m cou Grain Size FU MU	U-CL) with definitour map. Bedding UTM-E 238020 ne linear dunes 300 m over Plei n MU sand size ntour map. Bedding Truncated	ation pavemen Color 10yr5/4 EPE (m) a (1-4 m heigh istocene defla with 10% CU Color 10yr5/4 7.5yr4/4	nts (weakly P.kg/cm^ Alt (m) 4 nt) trending ntion surface lag. P.kg/cm^	2 50 NW-: s. 2 0 4 2.5 3.75	Structure Loose Date 12/18/00 SE. Structure Loose Weak Blocky Very Weak B. Weak Blocky	Exposure RC/TR Diagenesis caliche
Intervening va Elevation esti Units HD Dune Sheet GNEG7 Site Notes: Si The remobiliz Active dune t Elevation esti Units HDCox PDBw PCox PDBk PDBw	alleys contain of mated from GF Depth cm 0-150 Zone/NAD N12/1983 te is located in ed ridges are s roughs betwee mated from GF Depth cm 0-200 200-220 220-240 240-250 250-280	coarser sand (M PS and 50 m con Grain Size ML UTM-N 3048750 a rea of Holoce eparated 100-3 en ridges contai PS and 50 m con Grain Size FU MU MU	U-CL) with definition map. Bedding UTM-E 238020 ne linear dunes 300 m over Plein n MU sand size ntour map. Bedding	ation pavemen Color 10yr5/4 EPE (m) s (1-4 m heigh istocene defla with 10% CU Color 10yr5/4 7.5yr5/4	nts (weakly P.kg/cm^ Alt (m) 4 nt) trending ition surface lag. P.kg/cm^	2 50 NW-: s. 2 0 4 2.5 3.75 4.5	Structure Loose Date 12/18/00 SE. Structure Loose Weak Blocky Very Weak B. Weak Blocky Weak Blocky	Exposure RC/TR Diagenesis caliche
Intervening va Elevation esti Units HD Dune Sheet GNEG7 Site Notes: Si The remobiliz Active dune t Elevation esti Units HDCox PDBw PCox PDBk	alleys contain of mated from GP Depth cm 0-150 Zone/NAD N12/1983 te is located in ed ridges are s roughs betwee mated from GP Depth cm 0-200 200-220 220-240 240-250	coarser sand (M 2S and 50 m cou Grain Size ML UTM-N 3048750 a rea of Holoce eparated 100-3 en ridges contai 2S and 50 m cou Grain Size FU MU	U-CL) with definitour map. Bedding UTM-E 238020 ne linear dunes 300 m over Plei n MU sand size ntour map. Bedding Truncated	ation pavemen Color 10yr5/4 EPE (m) a (1-4 m heigh istocene defla with 10% CU Color 10yr5/4 7.5yr4/4	nts (weakly P.kg/cm^ Alt (m) 4 nt) trending ition surface lag. P.kg/cm^	2 50 NW-: s. 2 0 4 2.5 3.75 4.5	Structure Loose Date 12/18/00 SE. Structure Loose Weak Blocky Very Weak B. Weak Blocky	Exposure RC/TR Diagenesis caliche
Intervening va Elevation esti Units HD Dune Sheet GNEG7 Site Notes: Si The remobiliz Active dune t Elevation esti Units HDCox PDBw PCox PDBk PDBw	alleys contain of mated from GF Depth cm 0-150 Zone/NAD N12/1983 te is located in ed ridges are s roughs betwee mated from GF Depth cm 0-200 200-220 220-240 240-250 250-280	coarser sand (M 2S and 50 m cou Grain Size ML UTM-N 3048750 a area of Holoce eparated 100-3 en ridges contai 2S and 50 m cou Grain Size FU MU MU	U-CL) with definitour map. Bedding UTM-E 238020 ne linear dunes 300 m over Plei n MU sand size ntour map. Bedding Truncated	ation pavemen Color 10yr5/4 EPE (m) s (1-4 m heigh istocene defla with 10% CU Color 10yr5/4 7.5yr5/4	nts (weakly P.kg/cm^ Alt (m) 4 nt) trending ition surface lag. P.kg/cm^	2 50 NW-: s. 2 0 4 2.5 3.75 4.5	Structure Loose Date 12/18/00 SE. Structure Loose Weak Blocky Very Weak B. Weak Blocky Weak Blocky	Exposure RC/TR Diagenesis caliche
Intervening va Elevation esti Units HD Dune Sheet GNEG7 Site Notes: Si The remobiliz Active dune t Elevation esti Units HDCox PDBw PCox PDBk PDBw PDCox Dune Sheet GNEG8	alleys contain of mated from GP Depth cm 0-150 Zone/NAD N12/1983 ite is located in ed ridges are s roughs betwee mated from GP Depth cm 0-200 200-220 220-240 240-250 250-280 280-300 Zone/NAD N12/1983	coarser sand (M 2S and 50 m cou Grain Size ML UTM-N 30487500 a rea of Holoce eparated 100-3 en ridges contai 2S and 50 m cou Grain Size FU MU MU FU UTM-N 3044190	U-CL) with definition map. Bedding UTM-E 238020 ne linear dunes 00 m over Plein n MU sand size ntour map. Bedding Truncated Truncated UTM-E 225220	ation pavemen Color 10yr5/4 EPE (m) (1-4 m heigh istocene defla with 10% CU Color 10yr5/4 7.5yr5/4 10yr4/4 EPE (m)	nts (weakly P.kg/cm^ Alt (m) 4 nt) trending ition surface lag. P.kg/cm^ 3 Alt (m) 4	2 0 50 NW-: s. 2 0 4 2.5 3.75 4.5 3.75 50	Structure Loose Date 12/18/00 SE. Structure Loose Weak Blocky Very Weak B. Weak Blocky Weak Blocky Very Weak B. Date 12/18/00	Exposure RC/TR Diagenesis caliche caliche Exposure RC
Intervening va Elevation esti Units HD Dune Sheet GNEG7 Site Notes: Si The remobiliz Active dune t Elevation esti Units HDCox PDBw PCox PDBk PDBw PDCox Dune Sheet GNEG8 Site Notes: Si	alleys contain of mated from GP Depth cm 0-150 Zone/NAD N12/1983 te is located in ed ridges are s roughs betwee mated from GP Depth cm 0-200 200-220 220-240 240-250 250-280 280-300 Zone/NAD N12/1983 te is located in	coarser sand (M 2S and 50 m cou Grain Size ML UTM-N 3048750 area of Holoce eparated 100-3 en ridges contai 2S and 50 m cou Grain Size FU MU MU FU UTM-N 3044190 a center of large	U-CL) with definition map. Bedding UTM-E 238020 ne linear dunes 300 m over Plein n MU sand size ntour map. Bedding Truncated Truncated UTM-E 225220 est Holocene lin	ation pavemen Color 10yr5/4 EPE (m) is (1-4 m heigh istocene defla with 10% CU Color 10yr5/4 7.5yr4/4 7.5yr5/4 10yr4/4 EPE (m) ear dune ridge	nts (weakly P.kg/cm^ Alt (m) 4 nt) trending ation surface lag. P.kg/cm^ 3 Alt (m) 4 es (up to 5 i	2 0 50 NW-: s. 2 0 4 2.5 3.75 4.5 3.75 50 m he	Structure Loose Date 12/18/00 SE. Structure Loose Weak Blocky Very Weak B. Weak Blocky Very Weak B. Weak Blocky Very Weak B. Date 12/18/00 ight) east of la	Exposure RC/TR Diagenesis caliche caliche Exposure RC goon.
Intervening va Elevation esti Units HD Dune Sheet GNEG7 Site Notes: Si The remobiliz Active dune t Elevation esti Units HDCox PDBw PCox PDBk PDBw PDCox Dune Sheet GNEG8 Site Notes: Si Burrowing (in	alleys contain of mated from GF Depth cm 0-150 Zone/NAD N12/1983 te is located in ed ridges are s roughs betwee mated from GF Depth cm 0-200 200-220 220-240 240-250 250-280 250-280 280-300 Zone/NAD N12/1983 te is located in sects) to great	coarser sand (M 2S and 50 m cou Grain Size ML UTM-N 3048750 a area of Holoce eparated 100-3 en ridges contai 2S and 50 m cou Grain Size FU MU MU FU UTM-N 3044190 center of large cer than 80 cm	U-CL) with definitour map. Bedding UTM-E 238020 ne linear dunes 300 m over Plein n MU sand size ntour map. Bedding Truncated Truncated UTM-E 225220 est Holocene lin depth. Elevatio	ation pavemen Color 10yr5/4 EPE (m) (1-4 m heigh istocene defla with 10% CU Color 10yr5/4 7.5yr5/4 10yr4/4 EPE (m) ear dune ridge n estimated fi	nts (weakly P.kg/cm^ Alt (m) 4 nt) trending ition surface lag. P.kg/cm^ 2 Alt (m) 4 es (up to 5 n from GPS and	2 0 50 NW-: s. 2 0 4 2.5 3.75 4.5 3.75 50 m he 1 50	Structure Loose Date 12/18/00 SE. Structure Loose Weak Blocky Very Weak B. Weak Blocky Very Weak B. Weak Blocky Very Weak B. Date 12/18/00 ight) east of la m contour maj	Exposure RC/TR Diagenesis caliche caliche Exposure RC igoon. o.
Intervening va Elevation esti Units HD Dune Sheet GNEG7 Site Notes: Si The remobiliz Active dune t Elevation esti Units HDCox PDBw PCox PDBk PDBw PDCox Dune Sheet GNEG8 Site Notes: Si Burrowing (in Units	alleys contain of mated from GF Depth cm 0-150 Zone/NAD N12/1983 te is located in ed ridges are s roughs betwee mated from GF Depth cm 0-200 200-220 220-240 240-250 250-280 280-300 Zone/NAD N12/1983 te is located in sects) to great Depth cm	coarser sand (M 2S and 50 m cou Grain Size ML UTM-N 3048750 area of Holoce eparated 100-3 en ridges contai 2S and 50 m cou Grain Size FU MU MU FU UTM-N 3044190 center of large cer than 80 cm Grain Size	U-CL) with definition map. Bedding UTM-E 238020 ne linear dunes 300 m over Plein n MU sand size ntour map. Bedding Truncated Truncated UTM-E 225220 est Holocene lin	ation pavemen Color 10yr5/4 EPE (m) (1-4 m heigh istocene defla with 10% CU Color 10yr5/4 7.5yr5/4 10yr4/4 EPE (m) ear dune ridge n estimated fi Color	nts (weakly P.kg/cm^ Alt (m) 4 nt) trending ation surface lag. P.kg/cm^ 3 Alt (m) 4 es (up to 5 i	2 0 50 NW-: s. 2 0 4 2.5 3.75 4.5 3.75 50 m he 1 50 2	Structure Loose Date 12/18/00 SE. Structure Loose Weak Blocky Very Weak B. Weak Blocky Very Weak B. Weak Blocky Very Weak B. Date 12/18/00 ight) east of la m contour may Structure	Exposure RC/TR Diagenesis caliche caliche Exposure RC goon.
Intervening va Elevation esti Units HD Dune Sheet GNEG7 Site Notes: Si The remobiliz Active dune t Elevation esti Units HDCox PDBw PCox PDBw PCox PDBk PDBw PDCox Dune Sheet GNEG8 Site Notes: Si Burrowing (in	alleys contain of mated from GF Depth cm 0-150 Zone/NAD N12/1983 te is located in ed ridges are s roughs betwee mated from GF Depth cm 0-200 200-220 220-240 240-250 250-280 280-300 Zone/NAD N12/1983 te is located in sects) to great	coarser sand (M 2S and 50 m cou Grain Size ML UTM-N 3048750 a area of Holoce eparated 100-3 en ridges contai 2S and 50 m cou Grain Size FU MU MU FU UTM-N 3044190 center of large cer than 80 cm	U-CL) with definitour map. Bedding UTM-E 238020 ne linear dunes 300 m over Plein n MU sand size ntour map. Bedding Truncated Truncated UTM-E 225220 est Holocene lin depth. Elevatio	ation pavemen Color 10yr5/4 EPE (m) (1-4 m heigh istocene defla with 10% CU Color 10yr5/4 7.5yr5/4 10yr4/4 EPE (m) ear dune ridge n estimated fi	nts (weakly P.kg/cm^ Alt (m) 4 nt) trending ition surface lag. P.kg/cm^ 3 Alt (m) 4 es (up to 5 in rom GPS and P.kg/cm^	2 0 50 NW-: s. 2 0 4 2.5 3.75 4.5 3.75 50 m hee 1 50 2 0	Structure Loose Date 12/18/00 SE. Structure Loose Weak Blocky Very Weak B. Weak Blocky Very Weak B. Weak Blocky Very Weak B. Date 12/18/00 ight) east of la m contour maj	Exposure RC/TR Diagenesis caliche caliche Exposure RC igoon. o.

Dune Sheet GNEG9	Zone/NAD N12/1983	UTM-N 3039770	UTM-E) 21325(EPE (m)	Alt (m) 5	20	Date 12/18/00	Exposure
Site Notes: Site is on top of terrace, cut by alluvial valley, itself filled by marine transgression (salt flat). Deep exposure (10 m) of alluvial deposits that underlie the widespread Pleistocene dunes.								
Elevation estimated from GPS and 50 m contour map.								
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^	2	Structure	Diagenesis
HDCox	0-50	FL	Dodding	00101	r ing, on r		Loose	Blageneele
PDCox	50-200	ML					Very Weak B.	
PDK	200-250						Columnar	
PV	250-1200	CU-pebbles					Very Weak B.	
PVBw	1200-1250	FU		10yr5/4		4.5	Stong Blocky	caliche
PV	1250-1450	FL-green san	17	5y7/3			Strong Blocky	
		g						
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)		Date	Exposure
GNEG10	N11/1983	3039030	784830		4	80	12/18/00	
Site Notes: A	lluvial stream c	ut, widened by	road work. Ele	evation estim	ated from GP	S an	d 50 m contou	r map.
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^	2	Structure	Diagenesis
PDBw	0-100	FL	-		-		Very Weak B.	-
PDCox	100-200	FU		10yr6/4	1	.75	Very Weak B.	
PVBtj	200-250	Pebbles		10yr5/6		4.5	Strong Blocky	
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)		Date	Exposure
GNEG11	N12/1983	3032640	280220)	3	80	12/17/00	TR
Site Notes: Si	ite is 200 m we	est of HW (TL S	Sample at 150	cm depth).				
Remobilized dune-loess hummocks (0.5 m in height) over Pleistocene dune deflation surfaces.								
Elevation esti	imated from GF	S and 50 m co	ntour map.					
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^	2	Structure	Diagenesis
PDE	0-4			10yr6/4	2	2.75	Very Weak B.	
PDBw	4-75	FU		7.5yr4/4		3.5	Very Weak B.	
PDBk	75-100						Strong Blocky	caliche
PDBw	100-180	FU		7.5yr5/4			Strong Blocky	
PDE	180-185			7.5yr6/4			Strong Blocky	