North Beaches Dune Sheet, Washington
UTM Sector and Datum (xx/yr), Northing, Easting, Estimated Error (EPE +-m), DEM Altitude (Alt m NGVD88).
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.
Soil Structure: loose, very weak blocky, weak blocky, strong blocky, columnar/prismatic.
Diagenesis: Fe-ortstein, Fe-humate, allophane, gibbsite, calcrete, silcrete

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
NORT1	10N/83	5218310	410710	10	7	7/11/97	AU

Site Notes: COPA1 Heavy mineral enrichment at 125-175 cm. Shells at 165 cm. (RC Sample).

Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
HDA	0-1						
HDC	1-100	FU					
HS	100-185	ML					

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
NORT2	10N/83	5217551	410850	10	6	7/11/97	AU

Site Notes: RVDU1 Heavy mineral placer below 200 cm.

Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
Fill	0-20						
HDC	20-125	FU	Truncated				
HS	125-200						

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
NORT3	10N/83	5217550	410850	10	5	7/12/97	AU

Site Notes: RVDU1V (Woxell, 1998) Heavy mineral placer 150-310 cm depth.

Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
Disturbed	0-125		Truncated				
HDC	125-150						
HS	150-420						

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
NORT4	10N/83	5213510	411340	10	3	7/11/97	AU

Site Notes: CONN1 Overwash plain left behind northward migrating creek mouth.

Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
Disturbed							
HDC	0-70	FU					
HS	70-175	CU					

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
NORT5		5209824	411581	10	3	7/8/97	AU

Site Notes: CASI1

Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
HDC	0-150	FU					

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
NORT6	10N/83	5209820	411580	10	3	7/8/97	AU

Site Notes: CASI1A

Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
HP	0-10						
HDC	10-100	FU					
HS	100-150	ML					

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
NORT7	10N/83	5209780	411870	10	5	7/8/97	AU

Site Notes: CASI2V

Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
HDC	0-100	FU					
HDBg	100-125						
HDC	125-150	FU					

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
NORT8	10N/83	5209830	412010	10	7	7/8/97	AU

Site Notes: CASI3

Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
HDC	0-175	FU					

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
NORT9	10N/83	5207540	411710	10	6	7/11/97	AU

Site Notes: OYEH1A

Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
HDC	0-100	FU/ML					
HS	100-190	ML					

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
NORT10	10N/83	5206990	412230	10	6	7/8/97	AU

Site Notes: RAIN1 Heavy mineral placer below 100 cm depth.

Units	Depth cm	Grain Size	Bedding	Color	10YR5/8	Structure	Diagenesis
HDA	0-3						
HDBw	3-15			10YR5/3			
HDC	15-75	FU					
HS	75-200	ML					

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
NORT11	10N/83	5207000	412370	10	6	7/8/97	AU

Site Notes: RAIN2

Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
Fill	0-75	Gravel					
Disturbed	75-100						
HDA	100-125			10YR2/1			
HDBw	125-150			10YR4/3		Very Weak B.	
HDC	150-225	FU		10YR4/2		Loose	
HS	225-250	FU/ML					

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
NORT12	10N/83	5207010	412640	10	6	7/8/97	AU

Site Notes: RAIN3

Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
HDA	0-3						
HDBw	3-25			10YR5/6		Very Weak B.	
HDC	25-100	FU		10YR4/4			
HS	100-200	ML					

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
NORT13	10N/83	5206930	412770	10	7	7/8/97	AU

Site Notes: RAIN4

Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
HDA	0-5						
HDBw	5-25			5YR4/3			
HDC	25-150	FU		10YR4/3			
HS	150-200	ML/MU					
HS	200-225	Pebbles	Overwash				

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
NORT14	10N/83	5206940	412760	10	7	7/8/97	AU

Site Notes: RAIN5

Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
Fill	0-200						

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
NORT15	10N/83	5206444	412240	10	2	7/8/97	AU

Site Notes: LAME1 Heavy mineral placer below 150 cm.

Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
Disturbed	0-15						
HD	15-125	FU					
HS	125-250	ML					

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
NORT16	10N/83	5206440	412250	10	7	7/8/97	AU

Site Notes: LAME0A: West side of reactivated foredune ridge, paleosol at 75 cm.

Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
HDA	0-5						
HDC	5-75	FU					
HDA	75-86						
HDBw	86-102						
HDC	102-200	FU					
HS	200-205	ML					

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
NORT17	10N/83	5206450	412270	10	7	7/8/97	RC

Site Notes: LAME0 East side of dune ridge (roadcut) no reactivation.

Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
HDA	0-10						
HDBw	10-20						
HDC	20-275	FU	XBdipNE				

Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)	Date	Exposure
NORT19	10N/83	5206460	412270	10	3	7/8/97	AU

Site Notes: LAME2A

Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2	Structure	Diagenesis
Disturbed							
HD	0-125	FU					

HS	125-160	ML						
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)		Date	Exposure
NORT20		5206460	412290	10	3		7/8/97	AU
Site Notes: LAME2								
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2		Structure	Diagenesis
Disturbed			Truncated					
HD	0-100	FU		2.5Y5/3				
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)		Date	Exposure
NORT21	10N/83	5204950	411500	10	5		7/8/97	AU
Site Notes: PACB1								
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2		Structure	Diagenesis
HDA	0-3							
HDC	3-150	FU		2.5Y6/4				
HS	150-155	ML						
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)		Date	Exposure
NORT22	10N/83	5204950	411700	10	5		7/8/97	AU
Site Notes: PACB2 (Vibracore) Beach laminae (denser sand) at 125-500 cm.								
Units	Depth cm	Grain Size	Bedding	Color	10YR5/8		Structure	Diagenesis
HD	0-125							
HS	125-500							
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)		Date	Exposure
NORT23	10N/83	5199040	411220	10	4		7/9/97	AU
Site Notes: SPOR1								
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2		Structure	Diagenesis
HDA	0-5							
HDC	5-125	FU		2.YT4/2				
Dune Sheet	Zone/NAD	UTM-N	UTM-E	EPE (m)	Alt (m)		Date	Exposure
NORT24	10N/83	5199030	411230	10	4		7/9/97	AU
Site Notes: SPOR1A								
Units	Depth cm	Grain Size	Bedding	Color	P.kg/cm^2		Structure	Diagenesis
HDA	0-5							
HDC	5-135	FU						