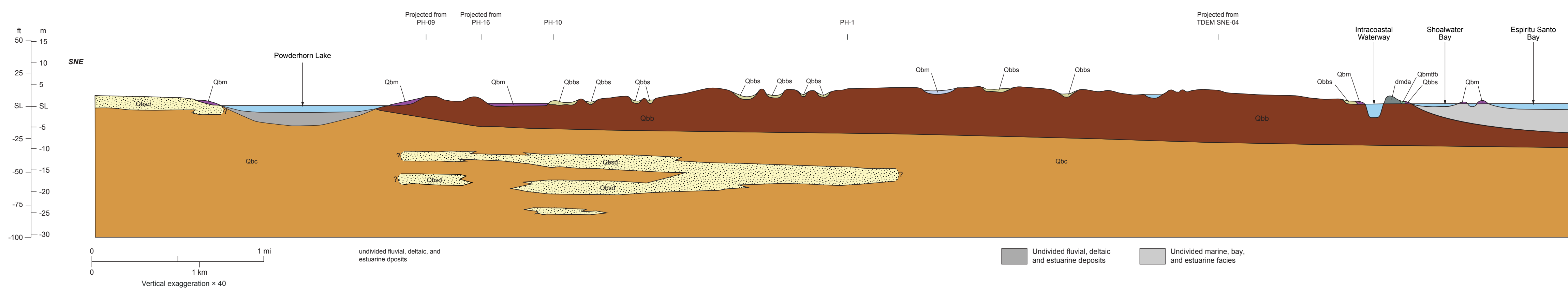


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Explanation

Modern to Holocene

Qal	Qal—Alluvium. Sand and clay.
Qvm	Qvm—Valley margin deposits. Sand and clay.
Qbm	Qbm—Bay margin deposits. Mud and sand.
Qbmtfb	Qbmtfb—Bay margin barren tidal-flat deposits. Sand and mud.

Holocene to Pleistocene (?)

Qelb	Qelb—Ephemeral lake basin deposits. Mud and sand.
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Pleistocene

Obbs	Obbs—Ingleisle swale. Sand and mud.
Obb	Obb—Ingleisle barrier. Equivalent to the regional barrier facies of the upper Beaumont Formation. Unit includes undivided veneer of younger eolian sand.
Qbc	Qbc—Beaumont Formation clay facies. Clay, silt, and minor sand in a fluvial-deltaic, interdistributary, and distributary setting. Contacts with Beaumont Formation sandy facies, Qbsd , are gradational.
Qbsd	Qb—Beaumont Formation sandy facies. Sandy clay, silt, and minor sand in a fluvial-deltaic, interdistributary, and distributary setting. Contacts with Beaumont Formation clay facies, Qbc , are gradational.

MAP SYMBOLS

	Contact; dashed where approximate.
	Normal Fault; U, upthrown block, D, downthrown block; dashed where approximate
	Elevation (ft); contour interval 5 ft
	Topographic depression
	TDEM sounding. Time-domain electromagnetic induction sounding.
	Well logged with gamma and conductivity tools for subsurface lithostratigraphic interpretations.

199 Apparent electrical conductivity (in millisiemens per meter, or mS/m) of the ground, measured using a Geonics EM31 ground-conductivity meter in the vertical dipole coil orientation. Value shown is a bulk conductivity from the surface to depths of 10 to 20 ft (McNeill, 1980a and b).

	Intermittent stream or canal
	Road
	Water: Bay
	Selected ponded water
	Pit
	dmda—Dredged material disposal area
	dmda_reworked—Redistributed dredged material. Sand and mud.
	Fill—Land artificially elevated by fill

The study included field observations of surficial deposits, collection and study of ground-based electromagnetic-conductivity measurements, time-domain electromagnetic-induction sounding measurements, and down-hole gamma- and conductivity-logging measurements for subsurface lithostratigraphic interpretations. Digital files for general topography adapted to this map came from TNRIS for USGS topographic quadrangle map, Seadrift NE. Digital files of roads were also obtained through TNRIS. Water bodies were adapted from aerial photographs, a Lidar-derived DEM, and the USGS topographic map.

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Aronow, S., Brown, T. E., Brewton, J. L., Earle, D. H., and Barnes, V. E., 1975, revised 1987, *Beeville Basin City Sheet: The University of Texas at Austin, Bureau of Economic Geology, Geologic Atlas of Texas*, scale 1:250,000.

McCown, J., Proctor, C. V., Jr., Brown, L. F., Jr., Evans, T. H., Fisher, W. L., and Groat, C. G., 1976, *Environmental geologic atlas of the Texas Coastal Zone, Part Lavaca area: The University of Texas at Austin, Bureau of Economic Geology, Geologic Atlas of Texas*, scale 1:250,000 and 1:125,000, 107 p.

McKenzie, J. D., 1983, *The electrical conductivity of soil and rocks*: Geonics Limited, Mississauga, Ontario, Canada, Technical Note TN-5, 22 p.

McNeill, J. D., 1980, *Electromagnetic terrain conductivity measurement at low induction numbers*: Geonics Limited, Mississauga, Ontario, Canada, Technical Note TN-10, 10 p.

White, W. A., Carlson, T. R., Morton, R. A., Kimble, R. S., Littleton, T. C., McCown, J. H., Nance, H. S., Schmiedekne, K. E., and others, 1983, *Submerged lands of Texas, Port Lavaca area: sediments, geochemistry, benthic macroinvertebrates, and associated wetlands: The University of Texas at Austin, Bureau of Economic Geology*, 154 p.

System	Series	Time Ma	Map and Cross Section Units		
Quaternary	Holocene	0.01	Barrier System	Bay and Estuarine System Qem Qbm Qbms	Fluvial-Deltaic System Qal
	Pleistocene		Qds Qbs Qbbs		Qbs Qbbs

