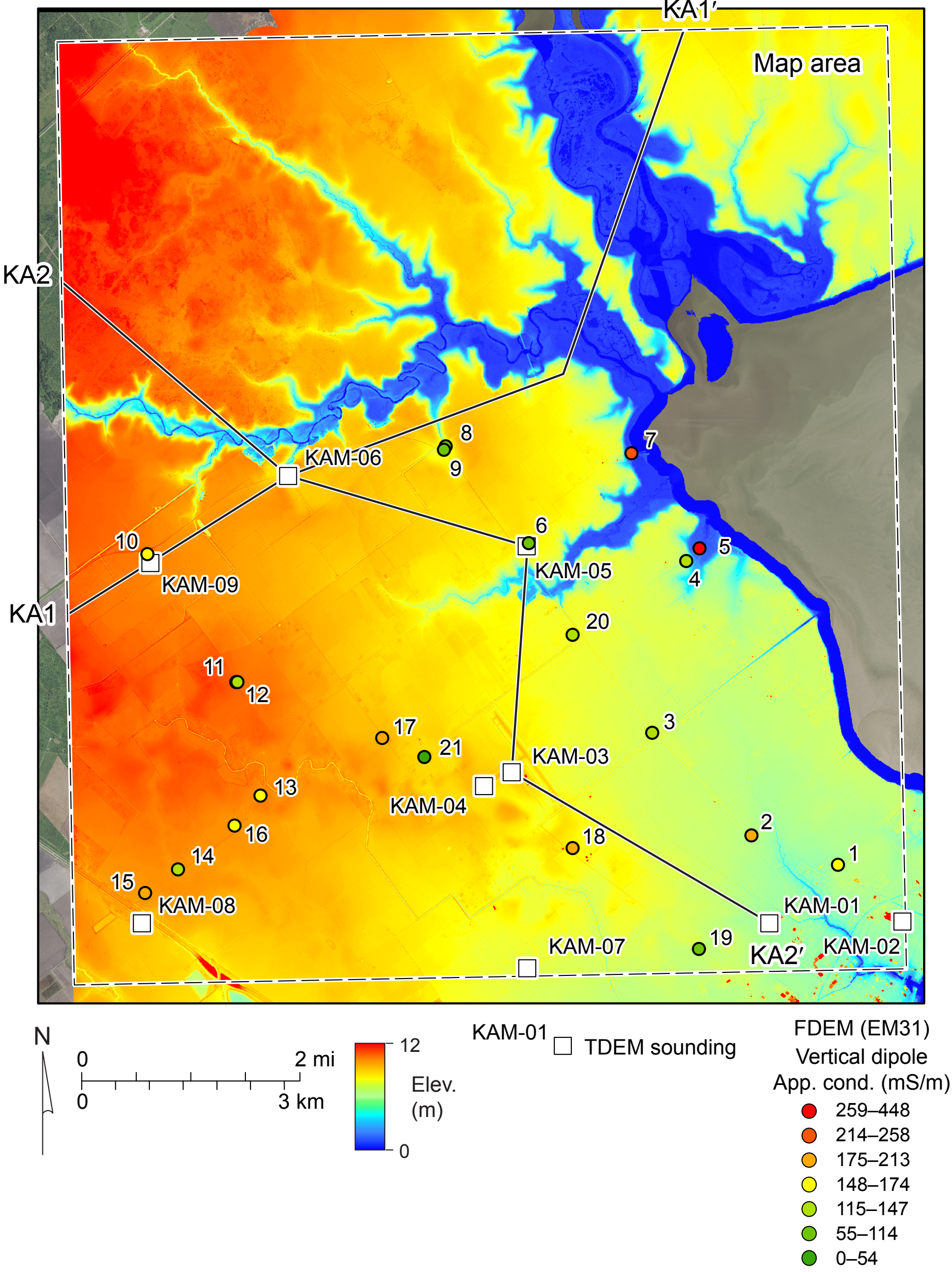


DIGITAL ELEVATION MODEL (DEM) AND TIME-DOMAIN AND FREQUENCY-DOMAIN
ELECTROMAGNETIC INDUCTION MEASUREMENT LOCATIONS



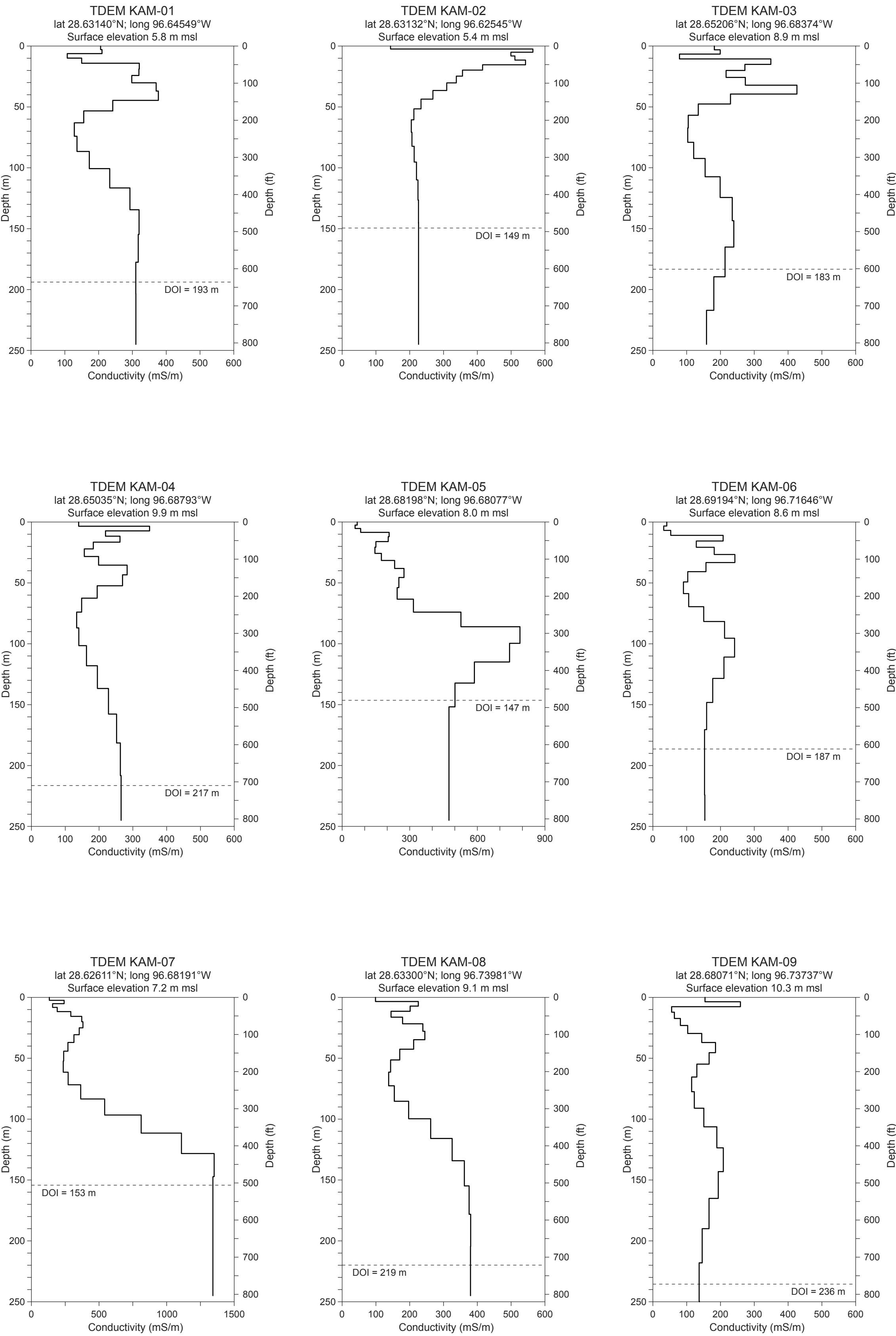
Digital elevation model (DEM) constructed from airborne lidar survey data acquired by the Bureau of Economic Geology in 2015 and the U.S. Geological Survey in 2007 and 2011. Aerial photography beyond the lidar survey area was flown in 2016 and obtained from the Texas Natural Resources Information System.

FREQUENCY-DOMAIN ELECTROMAGNETIC INDUCTION MEASUREMENTS

Frequency-domain electromagnetic (FDEM) induction measurements of apparent conductivity measured using a Geonics EM31 ground-conductivity meter in the horizontal dipole (HD) and vertical dipole (VD) coil orientations. Approximate exploration depth ranges are 0 to 3 m (EM31 HD), and 0 to 6 m (EM31 VD). Measurement locations are shown on map by FDEM site number.

FDEM Site	Date (yyyymmdd)	Longitude (°W, WGS84)	Latitude (°N, WGS84)	App. cond., EM31 HD (mS/m)	App. cond., EM31 VD (mS/m)
1	20180517	96.63495	28.63892	177	164
2	20180517	96.64787	28.64305	206	213
3	20180517	96.66250	28.65694	166	147
4	20180517	96.65689	28.67960	139	144
5	20180517	96.65483	28.68126	671	448
6	20180517	96.68042	28.68240	132	96
7	20180517	96.66479	28.69401	627	258
8	20180517	96.69264	28.69541	103	105
9	20180517	96.69289	28.69495	66	89
10	20180517	96.73776	28.68190	157	153
11	20180517	96.72472	28.66472	144	174
12	20180517	96.72455	28.66469	181	127
13	20180517	96.72144	28.64962	146	166
14	20180517	96.73403	28.64003	140	137
15	20180517	96.73902	28.63701	174	187
16	20180517	96.72545	28.64568	138	160
17	20180517	96.70304	28.65691	153	184
18	20180517	96.67472	28.64185	148	182
19	20180517	96.65609	28.62817	108	114
20	20180517	96.67416	28.67012	143	133
21	20180517	96.69671	28.65433	40	54

BEST-FIT ELECTRICAL CONDUCTIVITY MODELS, TIME-DOMAIN ELECTROMAGNETIC SOUNDINGS



Time-domain electromagnetic (TDEM) soundings were acquired by Bureau of Economic Geology staff in February 2018 using an ABEM WalkTEM dual-moment instrument. The transmitter loops were circular with a 25.5-m radius. Transmitter current ranged from 1 (low moment) to 7 (high moment) amperes. Data were processed using SPIA software from Aarhus University. Locations shown on map.

DOI: Approximate depth of investigation