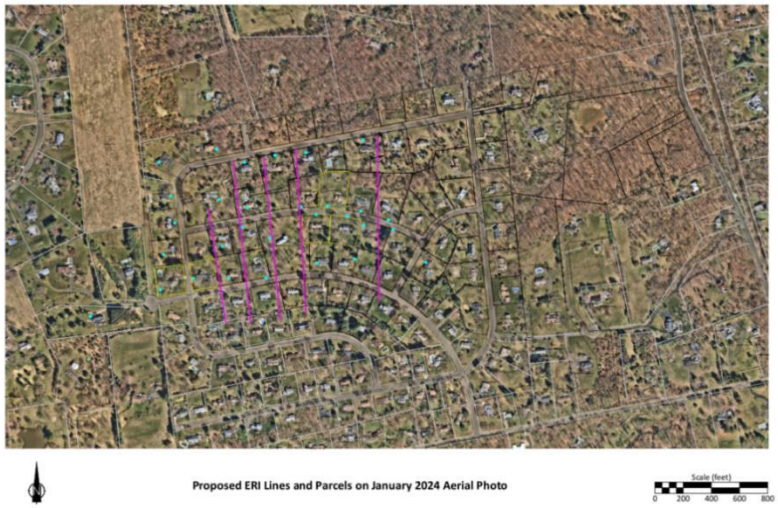
Electrical Resistivity Imaging Workplan for Washington Crossing

RETTEW proposes to conduct an electrical resistivity imaging (ERI) survey along five (5) profiles (see figure left), each between ~ 900 and 1,100 feet in length, to map the locations of fractures (electrically conductive) and potential petroleum product (electrically resistive) beneath the Washington Crossing neighborhood. Identification of these features will facilitate the planned installation of monitoring and product recovery wells throughout the impacted area.



ERI surveys involve laying out a long cable (between 550 and 1,100 feet) with thin (1/4") steel-spike electrodes spaced 10 feet apart along the cable and inserted 4" - 6" into the ground, and collecting resistivity readings using a SuperSting resistivity meter (see photo left). This procedure does not involve any hazardous or even perceptible electrical or electromagnetic fields. The currents involved are measured in milliAmps.

RETTEW can complete approximately one profile of this length per day. Where cables cross roadways, RETTEW will position the cables beneath high-visibility yellow cable protectors over which vehicles can drive slowly. (In addition, traffic control or "Slow Down" signage will be installed adjacent to the cable protectors – depending on the neighborhood's regulations).

Limited foot traffic, and ¼"-diameter spike insertion points at 10-foot intervals will be the only temporary impact along each of the profiles. RETTEW can slightly modify the profile routes depending upon residential property approval.