ENVIRONMENTAL PROBING INVESTIGATIONS, INC.

833 MONMOUTH ROAD
CREAM RIDGE, NJ 08514
609.758.9000

SUBSURFACE SURVEY REPORT

DATE		**CLIENT**	
WEATHER		**PROJECT NAME**	Sample Project Data
EPI GEOPHYSICIST	Paul McLeod	**PROJECT ADDRESS**	

EQUIPMENT USED

GPR: GSSI SIR-3000 RADAR SYSTEM- 400 MHz antenna	
RF LINE TRACING: VIVA/METROTEX – vLOCPro2	
ELECTROMAGNETIC INDUCTION: GSSI EM PROFILER (Multi-frequency EM conductivity meter)	**X**

This is a sample of a set of contour maps associated with an Electromagnetic Induction survey. This is from an actual survey conducted in September, 2014. Data points are collected at the rate of 1 sample per second, and each data point is connected with GPS coordinates allowing the points to be plotted on a georeferenced map. Electromagnetic data are collected at three different frequencies which correspond to shallow, medium, and deep horizontal slices of the subsurface. For each of those three frequencies, data is collected for the "In-Phase" component, the "Quadrature" component, and "Conductivity". Conductivity data is derived from the Quadrature, therefore only the In-Phase and Conductivity data are presented here.

The unit for the In-Phase and Quadrature components is "PPM" (parts per million), because it is a ratio of the amplitudes of the tranmitted and received signals. The unit for Conductivity is milliSiemens/Meter.

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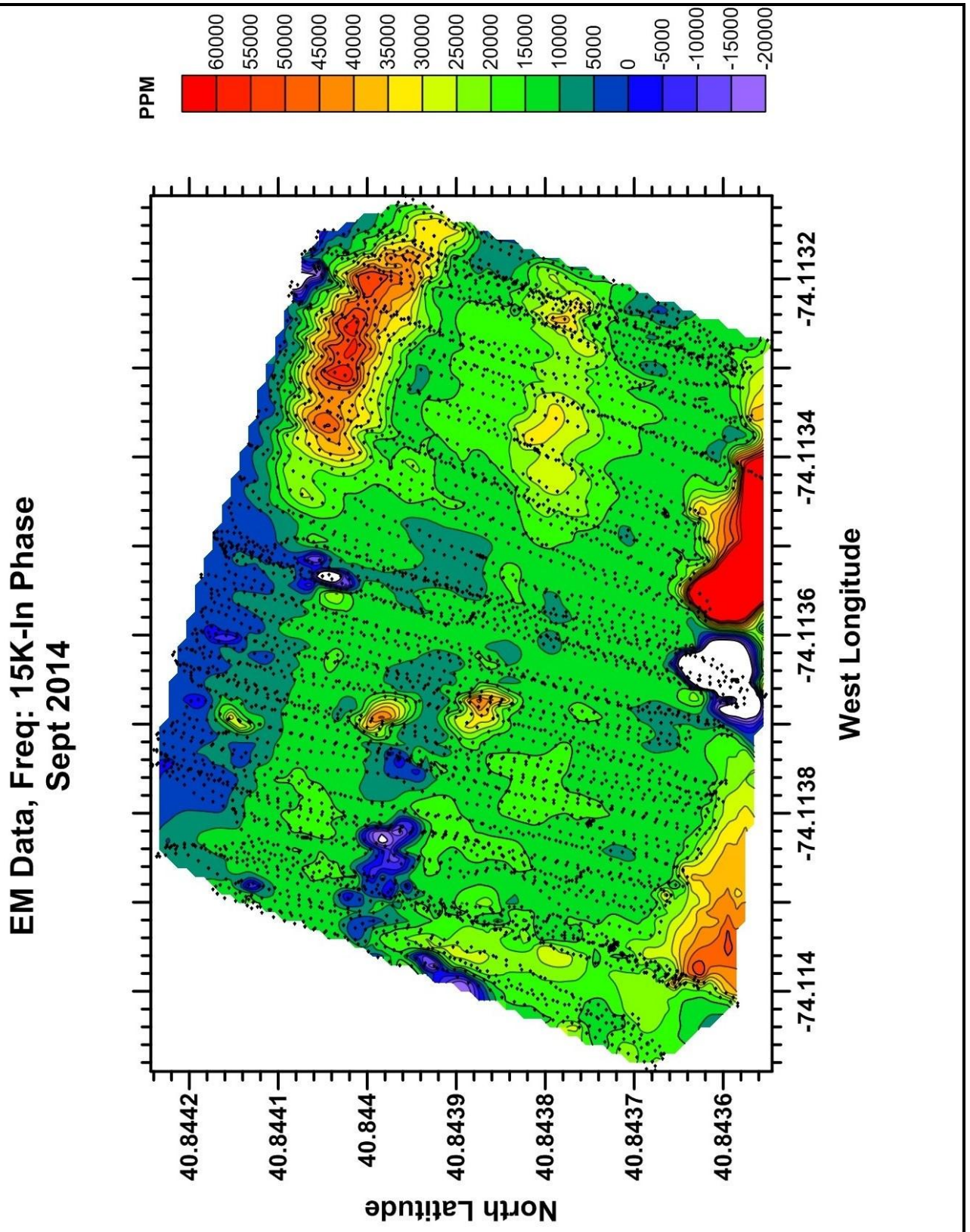
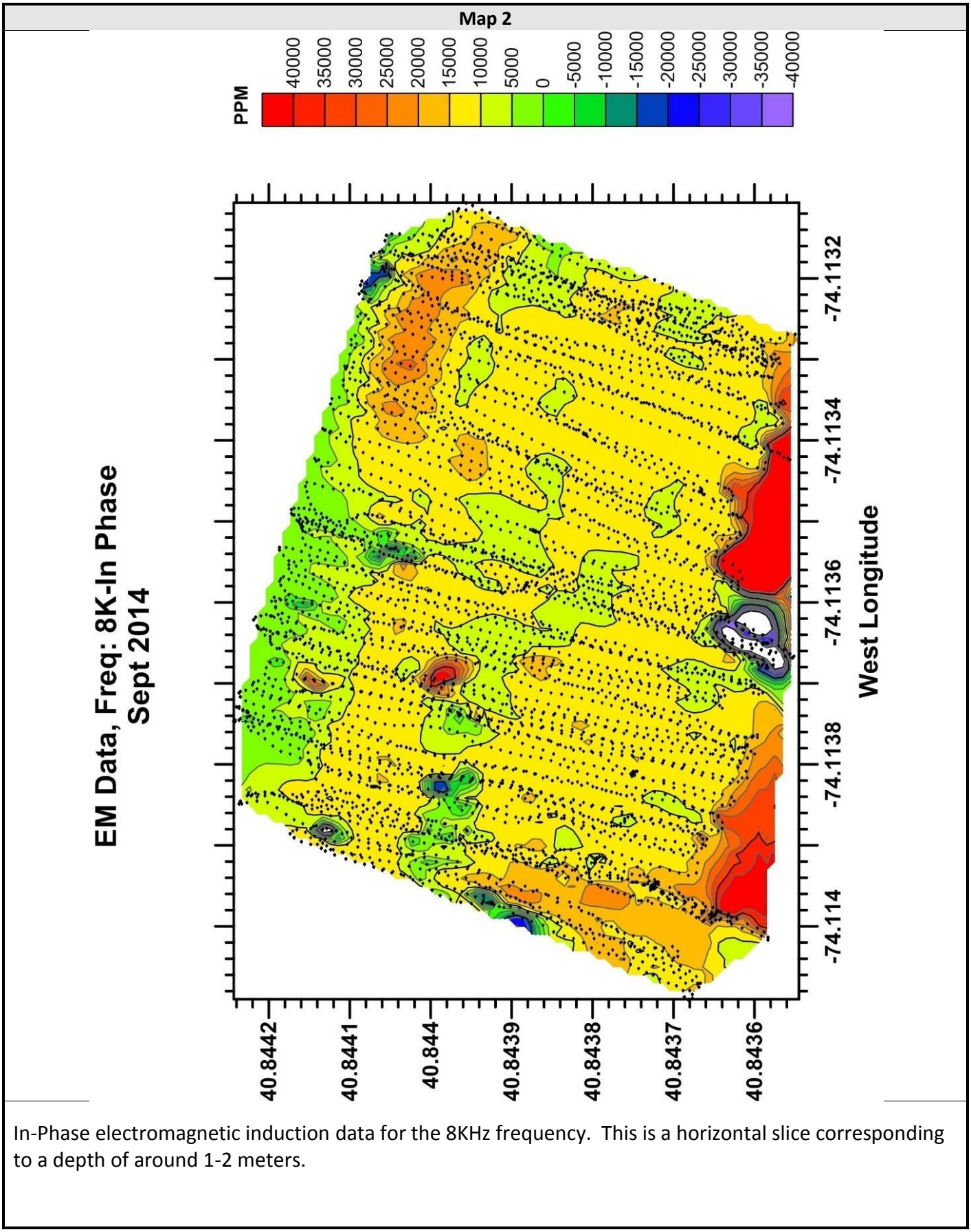
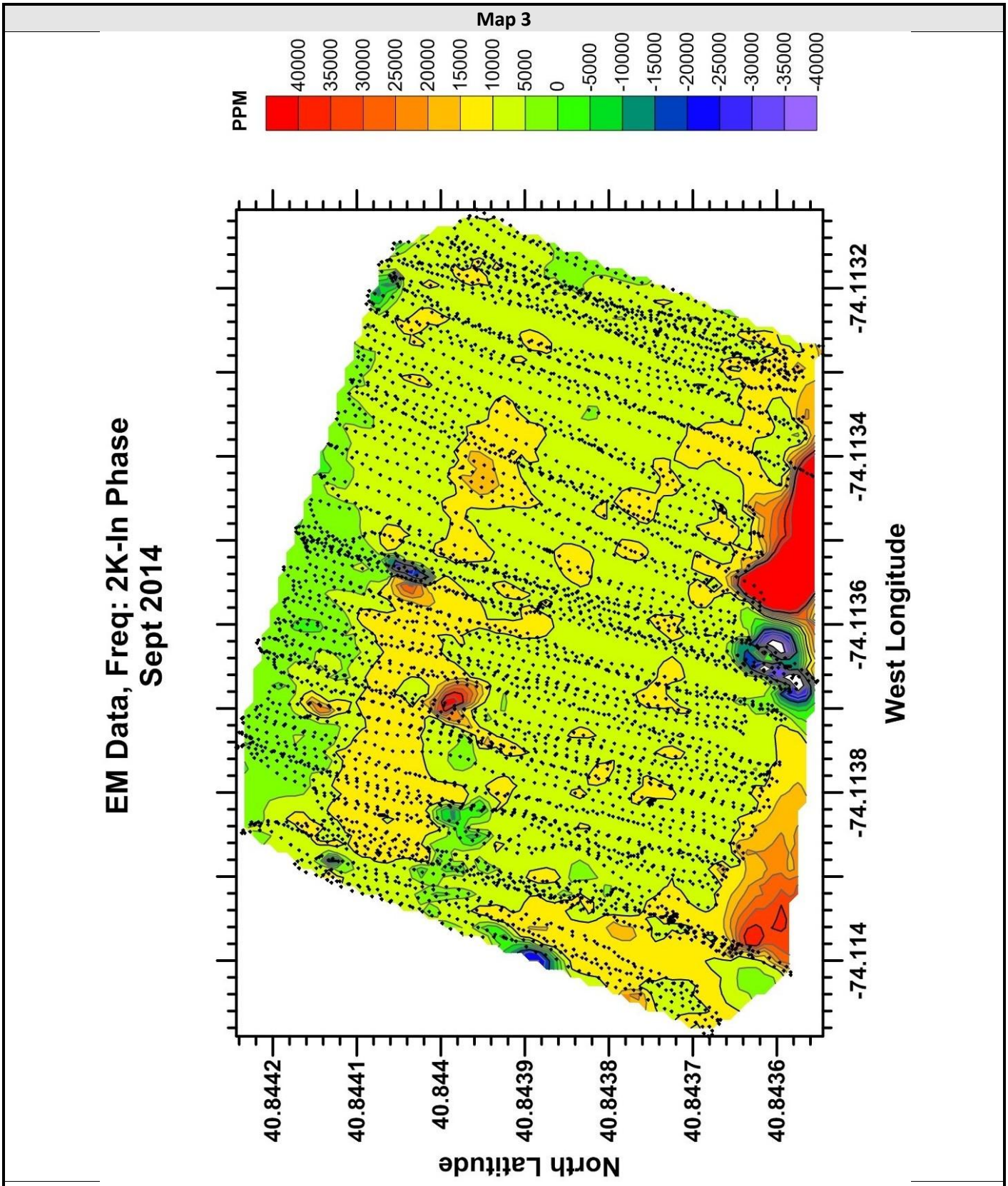


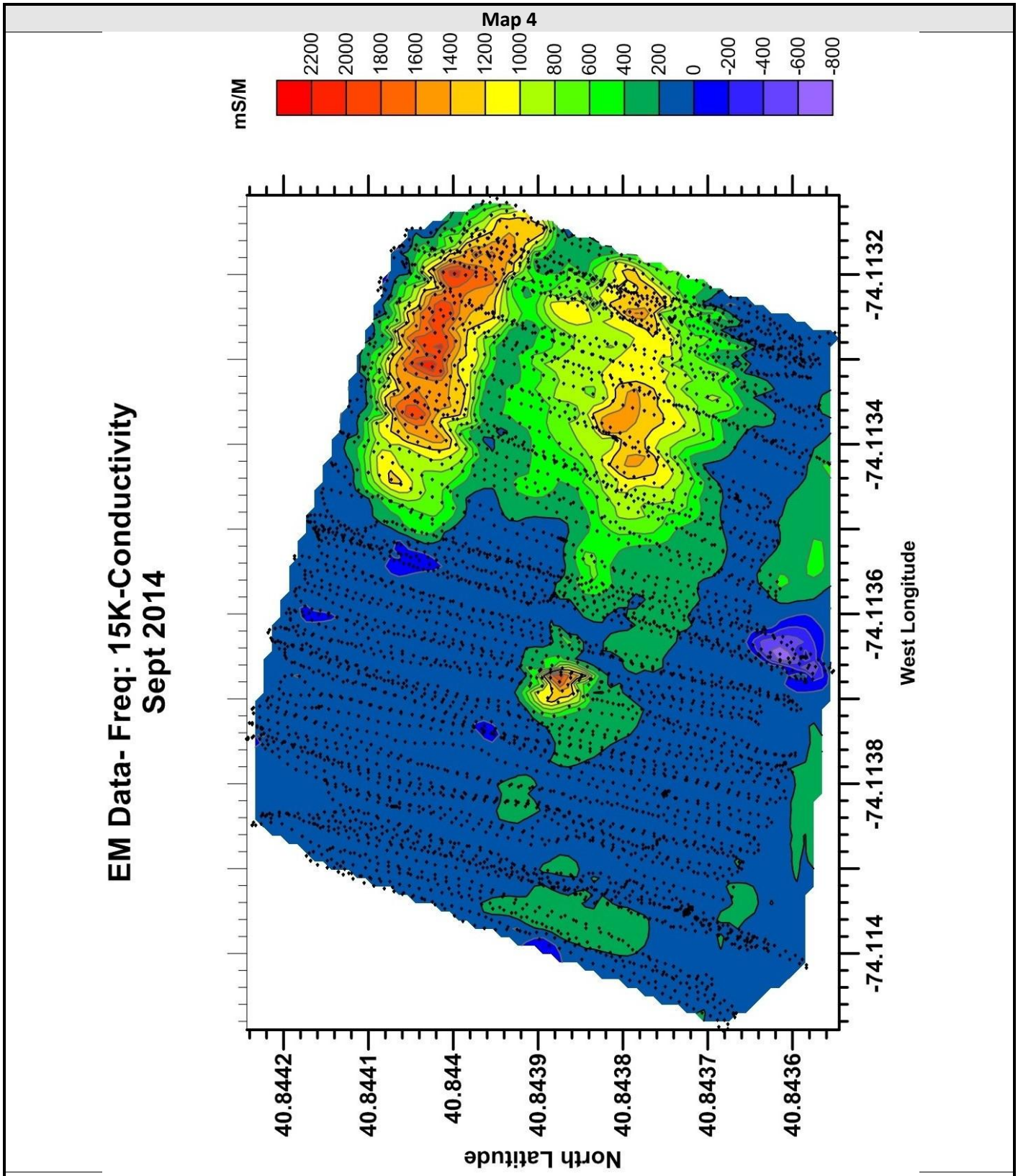
In-Phase electromagnetic induction data for the 15KHz frequency. This is a horizontal slice corresponding to a depth of approximately the top meter.



In-Phase electromagnetic induction data for the 8KHz frequency. This is a horizontal slice corresponding to a depth of around 1-2 meters.

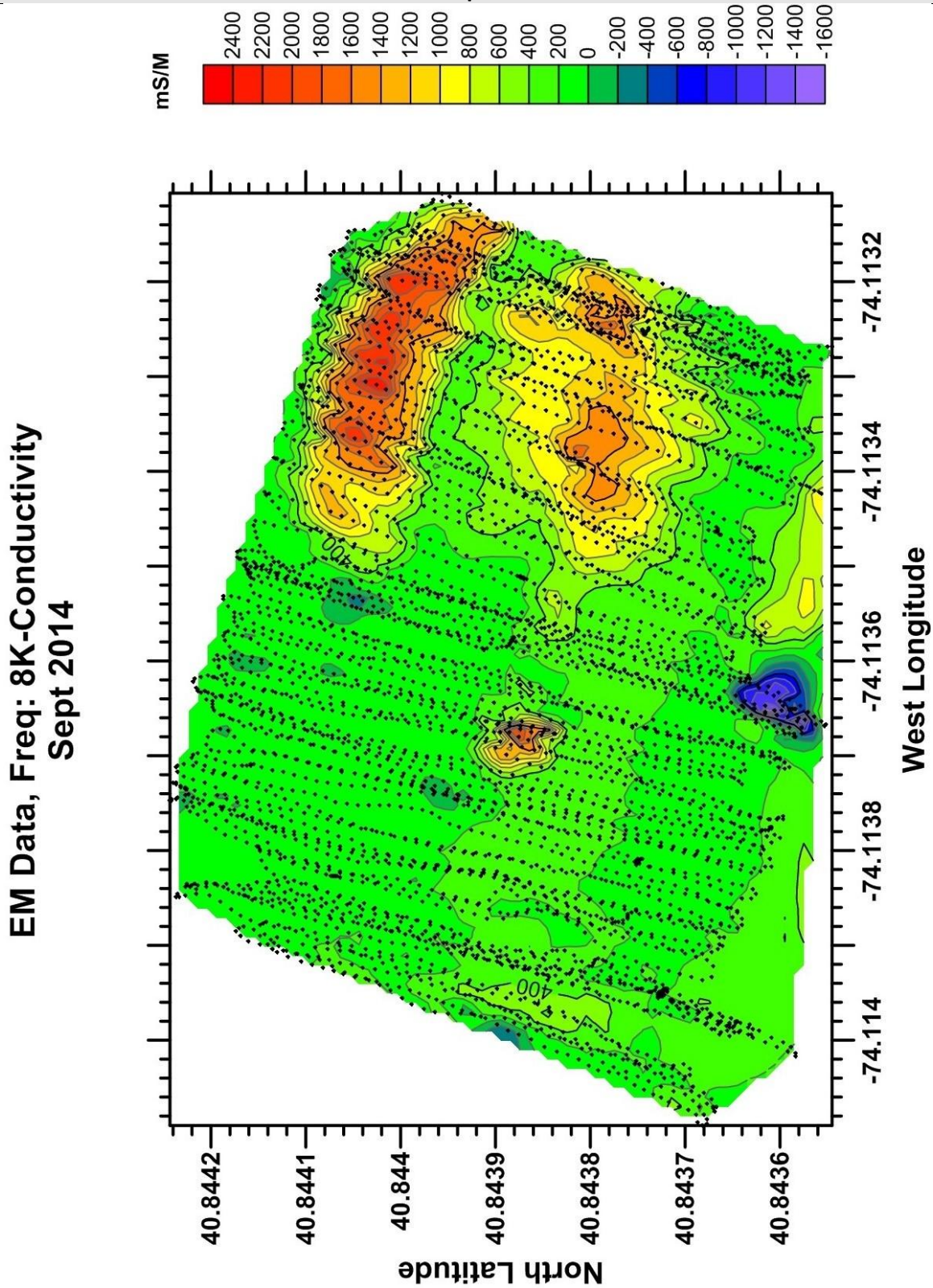


In-Phase electromagnetic induction data for the 2KHz frequency. This is a horizontal slice corresponding to a depth of around 2-3 meters.



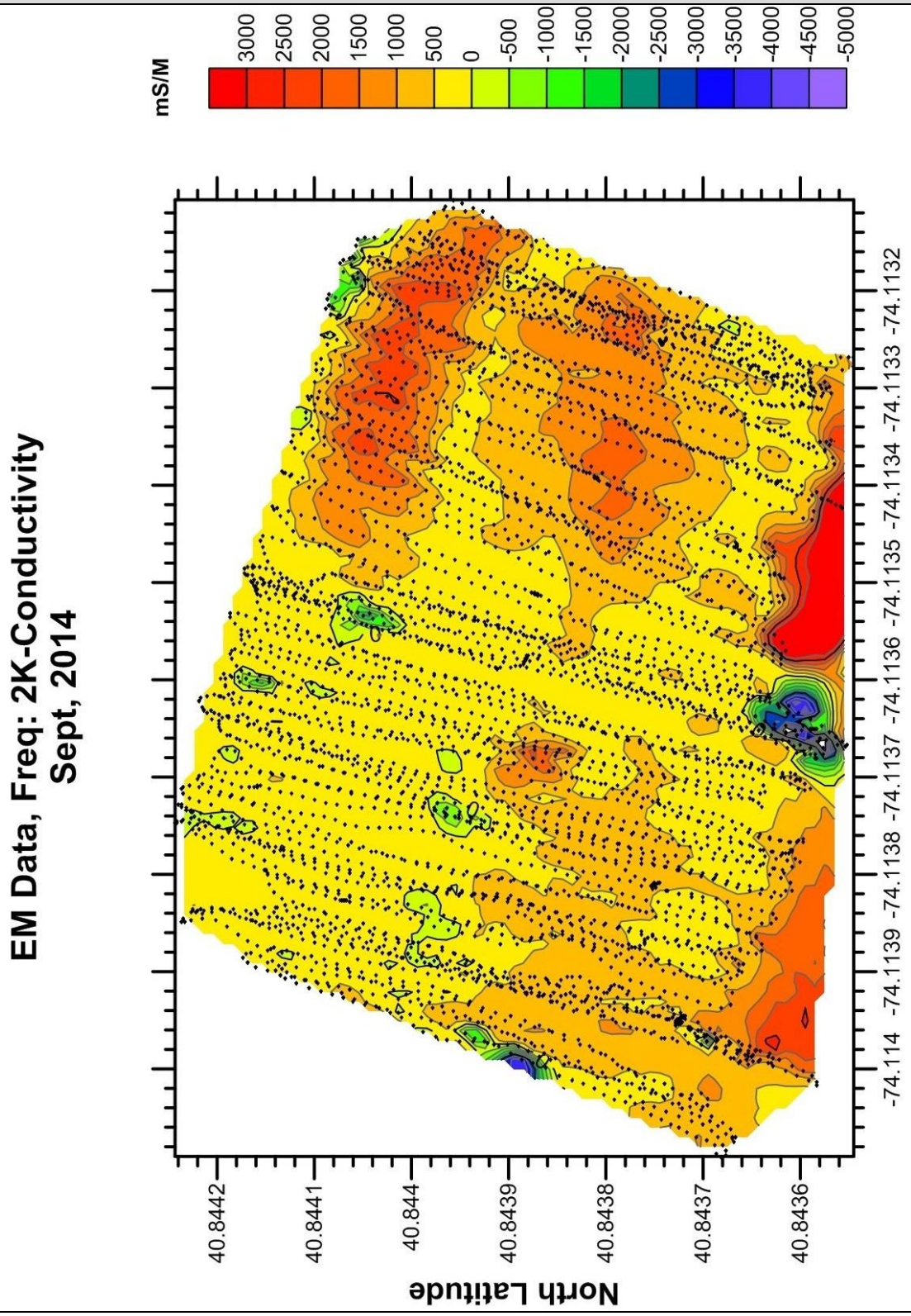
Electromagnetic induction data showing conductivity for the 15KHz frequency. This is a horizontal slice corresponding to a depth of approximately the top meter.

Map 5



Electromagnetic induction data showing conductivity for the 8KHz frequency. This is a horizontal slice corresponding to a depth of approximately 1-2 meters.

Map 6



Electromagnetic induction data showing conductivity for the 2KHz frequency. This is a horizontal slice corresponding to a depth of approximately 2-3 meters.