

From: Doria Kutrubes

To: Doug Young

Date: August 07, 2006

Subject:

Request for Info - STA File #0577-EX-ST-2006

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Message:

1. No. Our client who is conducting the groundwater modelling needs the information to their client by the end of August. I do not envision us using this antenna beyond August.
2. The manufacturer, RadarTeam, says it's a resistively loaded butterfly folded dipole antenna. Not sure what that means. It is a UWB antenna, and we're using as a monostatic antenna-- i.e. one housing fits both transmitter and receiver in it.
3. The manufacturer's spec sheet says the CWF is 60 MHz (BW 10db), that the 10dB bandwidth is 85.2%. I am assuming as a UWB that the 20MHz and 120MHz represent the lower and upper ends of broadcasting, below and above which emissions are non-detectable. I am also assuming that the 10dB bandwidth explains that most of the emissions are at the centerwave frequency, but that like a gaussian curve decreases to zero at the edges. I can attach the manufacturer's specs, which I have as a PDF, but I am not sure that will help you.
4. I have no idea about this. I would have to ask the manufacturer, and it's 6 PM there.
5. I was using Google Earth to locate the approximate center of the survey. They have an arial photo and I used a mouse and toggled back and forth from the FCC application to the arial photo. The two different areas are from when I kept crashing out of the technical data section, and couldn't figure out how to find the PROCEED button.

We're actually going to be on an MWRA easement with this antenna, which is located immediately east of the floodplain, where the aquifer is deepest. I don't think it is necessary to use this antenna at the west edge of the aquifer, as the water table is shallow and aquifer's saturated thickness is significantly less. I was being conservative when I said a 1 KM radius. The area of investigation is actually a line down the MWRA easement, east of the Neponsett River. If you go to Google Earth and type in the lat-long coordinates, you will see the path (linear feature) immediately east of the River.