HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
CORROSION CONTROL TEST STATION
FIELD DATA SURVEY FORM

Location:	41+38	**Date Surveyed:**	05/31/2007
	Bridge, Old Columbia Rd	**Surveyed by:**	AS/MJ
T/S #:	05	**Contract #:**	44-3868
T/S Type:	IJ w/Anode	**Pipe Size:**	16"

Was the T/S located? YES / NO YES

TEST STATION CONDITION

Test Box:	Good
Terminal Board:	Good
Wires:	Good
Other:	

SURVEY DATA

Test Wire Size/Description	Color	P/Cu-$CuSO_4$ (V) "On"	P/Cu-$CuSO_4$ (V) "Off"	P/Zn (V) "On"	P/Zn (V) "Off"	Anode (mA)
1. #10 AWG	Blue	-1.624	-1.680	-1.561	-1.394	10.4
2. #10 AWG	Black	-1.642	-1.642	-1.562	-1.602	
3. #6 AWG	Black	-1.630	-1.467	-1.038	-1.393	
4. #8 AWG	Black	-0.084	-0.081			
5. #10 AWG	Blk/Wht	-1.344	-1.207	-1.139	-1.146	
6.						
7.						
8.						

P/Cu-$CuSO_4$ = Pipe to Copper-Copper Sulfate Reference Electrode
P/Zn = Pipe to Zinc Reference Electrode
"On" = Reading with Anode(s) connected
"Off" = Reading with Anode(s) disconnected
Anode = Current output Anode(s)

TESTING THE EFFECTIVENESS OF INSULATING JOINTS

Groundbed:
Connected to (B/W):

	Current (A)	Voltage (V)	Resistance (ohms)
ON:	1.85	-10.9	5.67
OFF:	0.00	-0.415	
DELTA:	1.85	-10.485	

TESTING IR DROP

IR Drop Calibrations	I (A)	E (mV)
INITIAL:		
FINAL:		
DELTA:		

K = $\frac{\Delta I \text{ (mA)}}{\Delta E \text{ (mV)}}$ **Direction:**

Between Terminals	Resistance (ohms)

REPAIRS MADE

Test Box:	
Terminal Board:	
Wires:	
Other:	
Comments/Recommendations:	

Figure 82 – Location of Test Station 5 - Old Columbia Road and Middle Patuxent River

Figure 83 – Test Station 5 close up