

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

Location: 38+24 Date Surveyed: 06/20/2007
 T/S #: 7 Surveyed by: AS/MJ
 T/S Type: IJ w/Anode Contract #: 44-4227
 Pipe Size: 48"
 Was the T/S located? YES / NO YES

TEST STATION CONDITION

Test Box: Above ground
 Terminal Board: 7 terminals in good condition
 Wires: Good
 Other: _____

SURVEY DATA

Test Wire Size/Description	Color	P/Cu-CuSO ₄ (V)		P/Zn (V)		Anode (mA)
		"On"	"Off"	"On"	"Off"	
1. #2 W. Anodes	Black	-1.060	-1.112	-0.135	-0.025	
2. #2 E. Anodes	Black	-1.035	-1.112	-0.181	-0.028	56
3. #2 S. Pipe	White	-0.915	-0.895	-0.306	-0.355	
4. #2 N. Pipe	Black	-0.852	-0.887	-0.332	-0.361	
5. #8 Reference	Black	-1.135	-1.198			
6. #8 N. Pipe	White	-0.870	-0.877	-0.331	-0.363	
7. #8 S. Pipe	Black	-0.880	-0.890	-0.314	-0.353	
8.						
9.						

P/Cu-CuSO₄ = 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:	1.90	0.731	0.38
OFF:	0.00	0.015	
DELTA:	1.90	0.716	

TESTING IR DROP

IR Drop Calibrations	I (A)	E (mV)	$K = \frac{\Delta I \text{ (mA)}}{\Delta E \text{ (mV)}}$	Between Terminals	Resistance (ohms)
INITIAL:					
FINAL:					
DELTA:					

Direction: _____

REPAIRS MADE

Test Box: _____
 Terminal Board: _____
 Wires: Potentials indicate labeling on the test box door are in correct
 Other: _____
 Comments/Recommendations: IJ appears to be failing.



Figure 242 Location of Test Station 4227-7



Figure 243 - Test Station 4227-7 close-up