

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

Location: 06+40 Date Surveyed: 06/21/2007
 T/S #: 2 Surveyed by: AS/MJ
 T/S Type: IR 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 E. Anodes	Black	-0.955	-1.456	-0.718	-1.499	
2. #2 W. Anodes	Black	-0.950	-1.459	-0.720	-1.499	
3. #2 Pipe	White	-0.949	-0.478	-0.719	-0.438	45
4. #8 Pipe	Black	-0.933	-0.485	-0.704	-0.438	
5. #8 Pipe	White	-0.926	-0.490	-0.704	-0.438	
6. #8 Reference	Yellow	-0.289	-0.092			
7. #2 E. Anodes	Black	-0.939	-1.450	-0.722	-1.497	
8. #2 W. Anodes	Black	-0.944	-1.451	-0.731	-1.497	
9. #2 Pipe	Black	-0.943	-0.494	-0.722	-0.438	145.6

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:			
OFF:			
DELTA:			

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:	0	0.00		4	#2 White
FINAL:	18	0.10	#2 Black		
DELTA:	18	0.10			

Direction: WHT to BLK

REPAIRS MADE

Test Box: _____
 Terminal Board: Removed Plastic Washers
 Wires: _____
 Other: _____
 Comments/Recommendations: _____



Figure 232 - Location of Test Station 4227-2



Figure 233 - Test Station 4227-2 close-up