

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

Location: 5' S of MD 108 / MD 32 Bridge **Date Surveyed:** 3/25/2005
T/S #: 1 **Surveyed by:** AC/MJ
T/S Type: IJ **Contract #:** 44-3231
Pipe Size: 12"

Was Test Station 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)		P/Zn (V)		Anode (mA)
		"On"	"Off"	"On"	"Off"	
1) #10 AWG	Green		-0.027			
2) #10 AWG	Green		-1.241		-1.218	
3) #10 AWG	Black		-0.805		-0.777	
4) #10 AWG	Black		-1.241		-1.217	
5) #10 AWG	Black		-0.665		-0.637	
6) #10 AWG	Black		-0.750		-0.776	
7)						

P/Cu-CuSO₄ = Pipe to Copper - Copper Sulfate Reference Cell
P/Zn = Pipe to Zinc Permanent Reference Cell
"On" = Reading with Anode(s) connected
"Off" = Reading with Anode(s) disconnected
I Anode = Current output of anodes

TESTING THE EFFECTIVENESS OF INSULATING JOINTS

GROUND BED:
CONNECTED TO (B/W):

CURRENT	(A)	VOLTAGE	(V)	RESISTANCE (ohms):	2
ON:	5.28	ON:	10.4		
OFF:	0	OFF:	-0.43		
DELTA:	5.28	DELTA:	10.8		

REPAIRS MADE

Test Box: _____
Terminal Board: _____
Wires: _____
Other: _____
Additional Comments/Recommendations: IJ test indicated effective isolation of the two pipes.



Figure 120 - Location of Test Station 3231-1



Figure 121 - Test Station 3231-1 close-up