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

Location:	Lincoln Dr. & Cedar Ave.	**Date Surveyed:**	06/13/2007
		Surveyed by:	AS/MJ
T/S #:	02	**Contract #:**	24-3811
T/S Type:	IJ	**Pipe Size:**	8”
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	-0.983	-0.770	-0.882	-0.770	95
2. #8 AWG	Black	-0.044	0.044			
3. #10 AWG	Blue	-0.967	-0.763	-0.874	-0.767	
4. #6 AWG	Black	-0.978	-1.619	-0.893	-1.591	
5. #10 AWG	White	-0.705	-0.574	-0.517	-0.485	
6.						
7. #10 AWG	White	-0.716	-0.575	-0.608	-0.538	
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:	0.02	0.235	2.0
OFF:	0.00	0.195	
DELTA:	0.02	0.040	

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:	IJ test confirms the electrical isolation between the two pipeline sections

Figure 187 - Location of Test Station 3811-2

Figure 188 - Test Station 3811-2 close-up