



Michigan (Chippewa County) Field Report

TRENCHCOAT™ Protective Film Provides Excellent Results in Aggressive Conditions

The unforgiving soil and weather conditions of Michigan's Upper Peninsula can take a heavy toll on culvert installations. That's why Chippewa County, Michigan, was chosen in 1977 as a test site to evaluate the performance of several types of cross culvert applications.

According to Bob Mooney, president of a regional culvert fabrication company, one product in particular has beaten the competition hands-down in the Chippewa County test and throughout the region.

"The TRENCHCOAT™ Protective Film from Dow is by far one of the best when comparing the other competitive materials," Mooney explained. "We tested concrete, aluminum, galvanized, and aluminized – the culverts laminated with TRENCHCOAT™ Protective Film from Dow have lasted longer and held up better. They look as if they were put in yesterday, even though they've been on the job for over 17 years now."

Mooney said many specifiers are now requiring a minimum life timetable of 25 years for culvert grade applications, 50 years for cross drains, and up to 75 years for enclosed storm sewers. In aggressive environments, where protection and long life are a must, TRENCHCOAT Protective Film from Dow is the proven choice.

"The culverts laminated with TRENCHCOAT™ Protective Film from Dow have lasted longer and held up better. They look as if they were put in yesterday."

– Bob Mooney

"I think the TRENCHCOAT™ Film Dow produces is super because it has done the job and withstood the test of time. It will last a minimum of 50 years, but a more realistic estimate may even be 100 years."

Mooney's strong opinion is backed by the facts. There's no rust, peeling or abrasion on the film or the pipes – the Chippewa County culverts laminated with TRENCHCOAT Protective Film are working the same as they did on the day they were installed back in 1977. The Corrugated Pipe Inspection Report gives the whole story.

"What more can I say," said Mooney. "TRENCHCOAT™ Protective Film from Dow has protected our culvert installations the best."

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Corrugated Pipe Inspection Report			
SITE DESCRIPTION		DATE INSPECTED 9/22/94	
1. State <i>MI</i>	2. County <i>Chippewa</i>	3. Section	4. Road <i>Charles Moran</i>
5. Sample No.	6. Location <i>2.5 miles west of I-75 overpass (Charles Moran)</i>		
7. Installation Type <i>Cross Culvert</i>	8. Soil Type		
9. Fill Height	10. Head Wall, Catch Basin, etc.		
11. Pipe and Coatings <i>10/10 DAF-Galvanized</i>	12. Dia. <i>48"</i>	13. Length <i>60"</i>	
14. Slope <i>2%</i>	15a. Date Installed <i>8/77</i>	15b. Age <i>17 yrs.</i>	16. Corrugation
ENVIRONMENT			
Water Conditions:		17. pH <i>7.0</i>	18. Comp. & Conductivity <i>160</i>
19. Level	20. Flow <i>Moderate</i>	21. Temp. <i>62°</i>	22. Water Source <i>Swamp and Woodland</i>
Soil Conditions:		23. pH	24. Conductivity
25. Bacteria	26. Silt Level		
27. Abrasive Material <i>Sand and Gravel</i>			
COATING CONDITION — INTERIOR <i>Excellent</i>			
Top:	28. Cracking <i>None</i>	29. Peeling <i>None</i>	30. Abrasive <i>None</i>
31. Other			
Sides:	32. Cracking <i>↓</i>	33. Peeling <i>↓</i>	34. Abrasive <i>↓</i>
35. Other			
Invert:	36. Cracking <i>↓</i>	37. Peeling <i>↓</i>	38. Abrasive <i>↓</i>
39. Other			
EXTERIOR <i>Pipe completely covered</i>			
40. Sunlight Exposure	41. Cracking	42. Peeling	43. Abrasive
44. Other <i>Excellent</i>			
STEEL CONDITION — INTERIOR			
Top:	45. Rusting <i>None</i>	46. Pitting <i>None</i>	47. Penetration <i>None</i>
48. Erosion			
Sides:	49. Rusting <i>↓</i>	50. Pitting <i>↓</i>	51. Penetration <i>↓</i>
52. Erosion			
Invert:	53. Rusting <i>↓</i>	54. Pitting <i>↓</i>	55. Penetration <i>↓</i>
STEEL CONDITION — EXTERIOR <i>Excellent</i>			
56. Rusting	57. Pitting	58. Penetration	59. Erosion
60. Overall Rating <i>Excellent</i>			
COMMENTS <i>Looks like it was installed yesterday.</i>			
<i>— Bob Mooney, St. Regis Culvert</i>			

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