

FHWA CULVERT ANALYSIS, HY-8, VERSION 6.0

CURRENT DATE	CURRENT TIME	FILE NAME	FILE DATE
06-04-2003	10:56:51	CHPTR11A	06-04-2003

CULVERT AND CHANNEL DATA

CULVERT NO. 1	DOWNSTREAM CHANNEL
CULVERT TYPE: 2135 mm x 1830 mm BOX	CHANNEL TYPE : IRREGULAR
CULVERT LENGTH = 91.554 m	BOTTOM WIDTH = 2.100 m
NO. OF BARRELS = 1.0	TAILWATER DEPTH = 0.860 m
FLOW PER BARREL = 11.330 m ³ /s	TOTAL DESIGN FLOW = 11.330 m ³ /s
INVERT ELEVATION = 52.580 m	BOTTOM ELEVATION = 52.581 m
OUTLET VELOCITY = 8.745 m/s	NORMAL VELOCITY = 5.354 m/s
OUTLET DEPTH = 0.616 m	

SCOUR HOLE GEOMETRY AND SOIL DATA

LENGTH = 28.686 m	WIDTH = 16.076 m
DEPTH = 3.015 m	VOLUME = 499.995 m ³
MAXIMUM SCOUR OCCURS 11.474 m DOWNSTREAM OF CULVERT	
SOIL TYPE: NONCOHESIVE	
SAND SIZES:	
D16 = 8 mm	
D50 = 14 mm	
D84 = 18 mm	

SCOUR HOLE GEOMETRY HY-8 PROGRAM OUTPUT

Figure 34-6B