



Project 9-66 K-6410-01
K-9 over the South Branch of the Black Vermillion River Drainage
Nemaha County

9-66 K-6410-01
 Br. No. 9-66-4.28 (040)
 K-9 over South Branch Black Vermillion Drainage
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Logs	Elevation (m)	Depth (m)	Description
CD-1 Sta. 11+060.590	377.73	0.0	Soil Mantle- silty clay, brown to gray
12.6 Rt.	374.71	3.02	Soil Mantle- silty clay, w/black siderite and fine sand
T.H.E.=377.73	373.19	4.54	Soil Mantle- dark gray clay
	371.66	6.07	Glacial Till- clay, very firm, olive -Cedar Bluffs Till
	366.30	11.43	Glacial Till-clay supported gravel -Cedar Bluffs Till
	365.57	12.16	Begin coring
Core #1	365.57	12.16	Glacial Till- Gravel, very firm, clay supported
12.16-13.17 m			coarse pebbles, assorted lithologies -Cedar Bluffs Till
Cut = 1.01	364.56	13.17	
Rec = 0.88			RQD = 36%
Core #2	364.56	13.17	Glacial Till- Gravel -Cedar Bluffs Till
13.17-14.70 m	363.03	14.70	
Cut = 1.52			RQD = 10%
Rec = 0.73			
Core #3	363.03	14.70	Glacial Till- Gravel, finer -Cedar Bluffs Till
14.70-16.22 m	361.51	16.22	
Cut = 1.52			RQD = 20%
Rec = 0.49			
Core #4	361.51	16.22	Glacial Till-Gravel, higher clay content -Cedar Bluffs T.
16.22-17.74 m	359.99	17.74	
Cut = 1.52			RQD = 0
Rec = 0.32			
Core #5	359.99	17.74	Glacial Till -Gravel, no recovery -Cedar Bluffs Till
17.74-19.27 m	358.46	19.27	
Cut = 1.52			RQD = 0%
Rec = 0			
Core #6	358.46	19.27	Glacial Till- not present
19.27-20.79 m	357.49	20.24	Glacial Till - Dk gray, clay, firm, coarse rounded gravel and sand, slightly calcareous -Cedar Bluffs Till
Cut = 1.52			
Rec = 0.85	357.03	20.70	Glacial Till- dk. gray clay very firm-Cedar Bluffs Till
	356.94	20.79	
			RQD=42%

Core #7	356.94	20.79	Glacial Till- clay w/gravel, gray, fine silt -Cedar Bluffs
20.79-22.32 m	356.33	21.40	Glacial Till - dk. gray clay, firm, v. silty -Cedar Bluffs
Cut = 1.52	355.41	22.32	
Rec = 1.13			RQD = 65%
Core #8	355.41	22.32	Glacial Till- gravel -Cedar Bluffs Till
25.37-26.80 m	353.88	23.85	
Cut = 1.43			RQD= 0%
Rec = 1.26			
Core #9	353.88	23.85	Glacial Till - Gravel, no recovery
26.80-28.14 m	353.68	24.05	LS- weathered, gray to pale green, sparsely fossiliferous
Cut = 1.31			-likely upper Hamlin Shale Member
Rec = 1.34	353.22	24.51	Shale- various colors, gray to green and maroon
			lacks bedding, -Hamlin Shale Member
	352.21	25.52	
			RQD = 44%

Power Auger

PA #1	375.80	0.0	Soil Mantle- lt. brown, silty clay, soft, wet
10+245.00	370.40	5.4-TD	SIS
9.2 m Lt			

Level Runs

Location	+	HI	-	Elev. (m)
BM #15	Sta. 11+048.173	4.495 m Rt		380.141
Set up 1	0.55	380.691		
Core 1			2.965	377.726
BM #15	Sta. 11+048.173	4.495 m Rt		380.141
Set up 1	0.485	380.626		
AH2			0.580	380.046
AH1			2.93	377.696
AH3			2.945	377.681
AH4			3.045	377.581
BM #11	Sta. 10+241.777	4.355 m Lt		377.989
Set up 1	0.913	378.902		
PA1			3.107	375.795