## GEOTECHNICAL UNIT FIELD SCOUR REPORT

PROJECT: 34357.1.1		COUNTY: CHE	- STA. 24+60.5 OVER MARTIN CREEK
DESCRIFTION(1).	NEW ALIGNMENT DI	CONEDECCOTAL	ON. 24 00.0 OVERMINATION OF CERT
INFORMATION ON E	XISTING BRIDGES	Information obtained from	: X field inspection microfilm(Reel: Pos: other
COUNTY BRIDGE NO.	NA_BRIDGE LENGT	TH 167m NO. BENTS IN: C	HANNEL 0 FLOOD PLAIN 1
FOUNDATION TYPE:	SHAFT?		
EVIDENCE OF SCO	)UR(2):		
ABUTMENTS OR END	BENT SLOPES:	NA	
INTERIOR BENTS:		N/A	
CHANNEL BED:	BARE ROCK		
CHANNEL BANKS:	ROCK CUT BAI	NK ON WEST SIDE, 1 MET	ER SILT HIGH BANKS ON EAST SIDE
EXISTING SCOUR	PROTECTION:		
TYPE(3):	NA		
EXTENT(4):	NA		
EFFECTIVENESS(5): _	NA		
OBSTRUCTIONS(6) (D	AMS,DEBRIS,ETC.): _	NONE	
DESIGN INFORMA	<u>TION</u>		
CHANNEL BED MATER	RIAL(7) (SAMPLE RESI	ULTS ATTACHED):	SKIM OF SAND AND GRAVEL OVER
FLAT BEDI	ROCK		
CHANNEL BANK MATE	ERIAL(8) (SAMPLE RES	SULTS ATTACHED):	NOT SAMPLED SANDY SILT
FOUNDATION BEARIN	IG MATERIAL(9):	(PHYLLITE) OR CRYSTA	ALLINE ROCK
CHANNEL BANK COVE	ER(10):	TREES, BRUSH AND SO	OME GRASS
0.0			
FLOOD PLAIN WIDTH(	11):	40 - 60 METERS	

updated 10/5/95

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	DESIGN INFORMATION CONT.					
	STR	REAM ISxxxDEGRADING AGGRADING (13)				
	OTH	HER OBSERVATIONS AND COMMENTS: ENTRENCHED GOOSE NECK VALLEY				
	INTE	ENSE EROSION, LATERAL BEND MIGRATION CONTROLLED BY ROCK STRIKE				
	CHA	ANNEL MIGRATION TENDENCY (14): WEST BY NORTHWEST				
	GF	OTECHNICALLY ADJUSTED SCOUR ELEVATION (15):				
	: -					
	:	THE CENTER INICAL ENGINEERING HART ACREES WITH COOLID CALCULATIONS				
		THE GEOTECHNICAL ENGINEERING UNIT AGREES WITH SCOUR CALCULATIONS				
		ON THE BRIDGE SURYVEY AND HYDRAULIC DESIGN REPORT DATED 09-10-03				
		THAT ALL SCOUR IS NEGILIBLE				
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•		REPORTED BY: PQ LOCKAMY LG DATE: 4/26/04				
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		INSTRUCTIONS				
	(1)	GIVE THE DESCRIPTION OF THE SPECIFIC SITE GIVING ROUTE NUMBER AND BODY OF WATER CROSSED.				
	(2)	NOTE ANY EVIDENCE OF SCOUR AT THE EXISTING END BENTS OR ABUTMENTS (UNDERMINING,				
		SLOUGHING, SCOUR LOCATIONS, DEGRADATIONS, ETC.)				
	(3)	NOTE ANY EXISTING SCOUR PROTECTION (RIP RAP, ETC.)				
	/ 4\					
	(4)	DESCRIBE THE EXTENT OF ANY EXISTING SCOUR PROTECTION.				
	(5)	DESCRIBE THE EXTENT OF ANY EXISTING SCOUR PROTECTION.  DESCRIBE WHETHER OR NOT THE SCOUR PROTECTION APPEARS TO BE WORKING.				
	(5) (6)	DESCRIBE WHETHER OR NOT THE SCOUR PROTECTION APPEARS TO BE WORKING. NOTE ANY DAMS, FALLEN TREES, DEBRIS AT BENTS, ETC.				
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	(5) (6) (7) (8) (9)	DESCRIBE WHETHER OR NOT THE SCOUR PROTECTION APPEARS TO BE WORKING.  NOTE ANY DAMS, FALLEN TREES, DEBRIS AT BENTS, ETC.  DESCRIBE THE CHANNEL BED MATERIAL: A SAMPLE SHOULD BE TAKEN FOR GRAIN SIZE DISTRIBUTION, ATTACH LAB RESULTS.  DESCRIBE THE CHANNEL BANK MATERIAL: A SAMPLE SHOULD BE TAKEN FOR GRAIN SIZE DISTRIBUTION, ATTACH LAB RESULTS.  DESCRIBE THE FOUNDATION BEARING MATERIAL,				
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	(5) (6) (7) (8) (9) (10) (11) (12)	DESCRIBE WHETHER OR NOT THE SCOUR PROTECTION APPEARS TO BE WORKING.  NOTE ANY DAMS, FALLEN TREES, DEBRIS AT BENTS, ETC.  DESCRIBE THE CHANNEL BED MATERIAL: A SAMPLE SHOULD BE TAKEN FOR GRAIN SIZE DISTRIBUTION, ATTACH LAB RESULTS.  DESCRIBE THE CHANNEL BANK MATERIAL: A SAMPLE SHOULD BE TAKEN FOR GRAIN SIZE DISTRIBUTION, ATTACH LAB RESULTS.  DESCRIBE THE FOUNDATION BEARING MATERIAL,  DESCRIBE THE BANK COVERING (GRASS, TREES, RIP RAP, NONE, ETC.  GIVE THE APPROXIMATE FLOOD PLAIN WIDTH (ESTIMATE).  DESCRIBE THE FLOOD PLAIN COVERING (GRASS, TREES, CROPS, ETC.)				
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- (15) GIVE THE GEOTECHNICALLY ADJUSTED SCOUR ELEVATION EXPECTED OVER THE LIFE OF THE BRIDGE (APPROXIMATELY 100 YEARS). THIS CAN BE GIVEN AS AN ELEVATION RANGE ACROSS THE SITE, OR ON A BENT BY BENT BASIS WHERE VARIATIONS EXIST. DISCUSS RELATIONSHIP BETWEEN THE HYDRAULICS THEORETICAL SCOUR AND THE GEOTECHNICALLY ADJUSTED SCOUR ELEVATION. THE GEOTECHNICALLY ADJUSTED SCOUR ELEVEVATION IS BASED ON THE ERODABILITY OF MATERIALS WITH CONSIDERATION FOR JOINTING, FOLIATION, BEDDING ORIENTATION AND FREQUENCY; CORE RECOVERY PERCENTAGE; PERCENTAGE RQD; DIFFERENTIAL WEATHERING, SHEAR STRENGTH; OBSERVATIONS AT EXISTING STRUCTURES; OTHER TESTS DEEMED APPROPRIATE; AND OVERALL GEOLOGIC CONDITIONS AT THE SITE.