

BRIDGE ADVISORY Construction & Technology Division Bridge Operations Section

BRIDGE ADVISORY NUMBER: BA-2010-05 **DATE**: September 5, 2010

SUBJECT: Scour Critical Bridge Action Plan Form – Blank Form

ISSUED BY: MDOT Bridge Operations Engineer

REVIEWED BY: MDOT Scour Critical Bridge Committee

Contact Information: David Juntunen, Bridge Operations Engineer, 517-322-5688 or juntunend@michigan.gov

A blank copy of the Scour Critical Bridge Action Plan form is available for field use. The form is attached to this Bridge Advisory and is available on MDOT's Bridge Operations website at the following link:

http://www.michigan.gov/mdot/0,1607,7-151-9625_24768_24772---,00.html

Although the field form is being provided for convenience, please be aware that the form must be filled out in the Michigan Bridge Inspection System (MBIS) and the "Preparation and implementation of the Scour Critical Bridge Action Plan form is complete" check box at the top of the electronic form is checked in order to meet agreement with FHWA for compliance..

The Michigan Bridge Inspection System (MBIS) is available at the following link:

http://www.michigan.gov/mdot/0,1607,7-151-9625_24768---,00.html

Additional information about the "Preparation and implementation of the Scour Critical Bridge Action Plan form is complete" check box is available in MDOT Bridge Advisory 2009-03 which is available at the following link:

http://www.michigan.gov/mdot/0,1607,7-151-9625 24768 49104---,00.html

SCOUR CRITICAL BRIDGE ACTION PLAN

MDOT Bridge ID			Structure Number							С	ontrol	Section
Facility Federal S			truc ID		Last M	Last Modified By		Agency		Name		
Feature Location		Latitude		Longit	Longitude		Insp Freq		Insp Key			
Length	Length Width Year Bu		t Yr Recon		Br	Вг Туре		Scour E		ur Eval # of Pins		ıs
		-			-		•	'		-		
WaterShe	d											
	erability Ratir											
Item 113 Rati	ing & Descripti	on										
ABUTMENT A	A											
Foundation		In Water	Spread Footin		oting	ng Piles Dee		ep Fdn	In		Unknown	
Foundation S	Soil Type	Non Cohesive	e Cohes		hesive	sive Rock			Unknown			
ABUTMENT I	В											
Foundation		In Water	Spread Footi		oting	ng Piles C		ep Fdn		Unknow		
Foundation S	Soil Type	Non Cohesive	е	Col	hesive	R	Rock		Unknown			
Piers	s in water for 1	00 year event (identify lo			Spread	Footing	P	liers Dee	o Fdn	l	Jnknow	/n
Pier Foundation Soil Type Non Co				esive Cohesive		.	Rock		Unkno	wn	T	
		•	Cone	Sive		Jonesive	·	INOCK		OTIKITO		
	SCOUR REPOR		TIVE S	UMMARY								
Scour Analys	sis Event Frequ	uency						25 year	50 y	ear	100	year
Anticipated Surface Elevation(ft)												
	ow bottom cho											
Anticipated F	Flow(cubic ft/se	ec)							1			

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MDOT Bridg	e ID		Struc	ture Number			Control Section		
Facility Fed		Federal Stru	ederal Struc ID		Last Modified By		Agency Name		
Feature Location		La	titude	Longitude	Insp Fi	req Ins	Insp Key		
Length	Width	Year Built	Yr Recon	Br	Туре	Scour Eval	# of Pins		
Bridge Insp	pection Coding I	nformation		-					
Routine Insp	pection Date								
Under Water	r Inspecion Date								
Pontis Scou	r Smart Flag								
Pontis Rip-F	Rap Smart Flag								
Item 71 Wate	er Adequacy								
	Item		Rat	ing (1 to 9)		Comments			
Abutment									
Piers									
Item 61 Cha	nnel/Protection								
(MDOT) Culv	ert Scour Rating								
•	commendations asures Not Feasib :	le							
Under Water	Plan Dection Frequency Tinspection Frequency On Elevations								
Date Last Ta									
Frequency(i									

SCOUR CRITICAL BRIDGE ACTION PLAN

MDOT Bridge ID			Structu	ıre Number		Control Section			
Facility Federal S			ruc ID	_ Last Modified	Ву	Agency Name			
Foature Landing			Lotitudo	Longitudo	Inch Ero				
Feature	Location		Latitude	Longitude	ongitude Insp Freq		Insp Key		
Length	Length Width Y		Year Built Yr Recon		Туре	Scour Ev	al # of Pins		
Length	Vidin	Car Bant	TI RECOIL	Br		Occur Ev	ui # 011 III3		
Items to Watch									
Type of Instru									
Agency Respo	onsible For Mon	itoring Duri	ng High Flow						
	Responsible	Agency Lo	cation	Pho	one Number		Cell Number		
Flood Monitor	ing Resources								
	oAA Website http://www.crh.noaa.gov/ahps2/ [Flows are shown in kcfs]								
USGS Website	http://water.u	ısgs.gov/cgi-	bin/waterwatch?ma	ap_type=real&sta	te=mi [Flows are	shown in c	fs]		
			is issued and/or w	nen one or more	e of the followin	g occurs			
	experience 25 ye								
	xpected to have particular in the properties in the properties and properties in the								
	oris accumulation	•	to sub-structure.						
THE HOLDING OF UEL	ono accumulation								

5.Known or existing scour holes.

SCOUR CRITICAL BRIDGE ACTION PLAN

MDOT Bridge ID Structure Number Control Section null **Facility Federal Struc ID Last Modified By Agency Name ENSER Feature** Location Latitude Longitude Insp Freq Insp Key null null Length Width Year Built Yr Recon Br Type Scour Eval # of Pins **Bridge Closure Conditions To Evaluate Bridge Closure** 1.Pressure Flow(water surface above bottom cord) 2.Observed whirlpools upstream and adjacent to substructure 3. High Debris Accumulation 4.Settlement of abutment/piers 5. Erosion of Roadway Embarkment 6.Other **Contact People For Bridge Closure** Name **Phone Number Cell Number** (For NHS bridges, notify FHWA if closure is more than eight hours) **Contact For Re-Opening After Phone Number** Cell Number Inspection **Detour Route** Possible Detour Route(route number,from,to, etc.) **Bridges/Culverts on Detour Route Load Limitations Detour Bridge Numbers Water Way Scour Rating Documentation Of High Flow Event Date Monitored Time Monitored** hr min Storm Duration (hrs) **Estimated Total Rainfall (in)** Estimated USGS Flow Discharge (cu **High Water Dst from Bottom Chord (ft)** ft./sec)

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MDOT Bridge ID			Struct	ure Number		Control Section		
Facility		Federal Stru	c ID	Last Modified	l By	Agency Name		
Feature	Location	La	titude	Longitude	Insp Fred	Į Ins	р Кеу	
Length	Width	Year Built	Yr Recon	Br	Туре	Scour Eval	# of Pins	
				-				
Whirlpools	Observed							
Debris Accı	umulation							
A	. (0)							
Action Take	en / Closure							
Comments								