



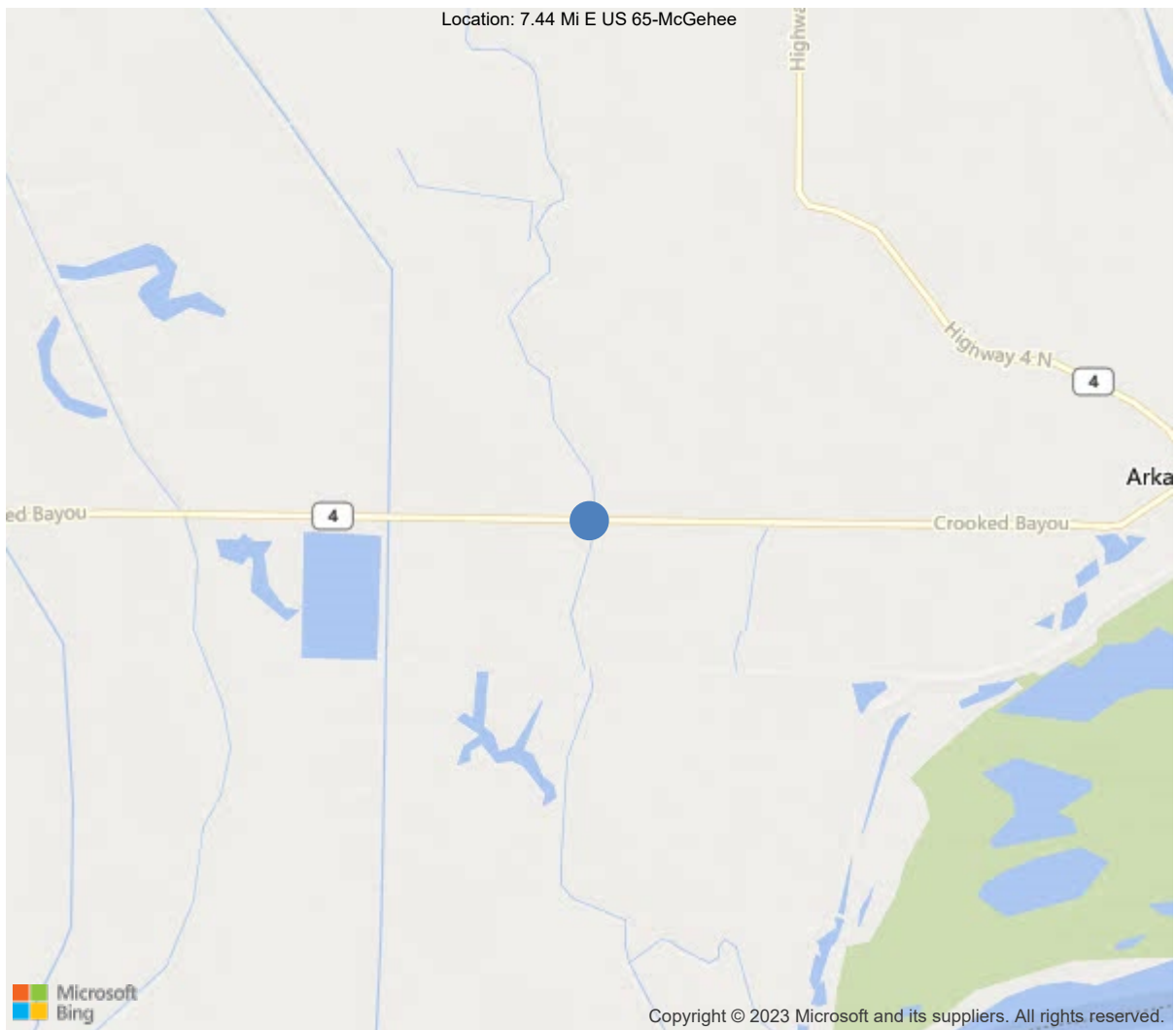
Latitude:33.60546, Longitude:-91.26057

Route:4 Section:17 Log:7.44

Arnold Road ID:21x4x17xA, Arnold Log mile:7.415

District 02, 41 - Desha County

Owner: 1 - State Highway Agency



33.60546, -91.26057



Asset #03593(Routine, Underwater type 2)

SH 4-17 LM 7.44 over Boggy Bayou

Location: 7.44 Mi E US 65-McGehee

Team Lead: Sharon Hooks, Inspection Date: 03/09/2021

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	03593
(5) Inventory Route	1
(2) Highway Agency District	02 - District 02
(3) County Code	41 - Desha County
(4) Place Code	0
(6) Features Intersected	Boggy Bayou
(7) Facility Carried	SH 4-17 LM 7.44
(9) Location	7.44 Mi E US 65-McGehee
(11) Mile Point	7.44 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.6054572628028
(17) Longitude	-91.2605731590588
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	11
Material	1 - Concrete
Type	1 - Slab
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	11
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	5 - Epoxy Overlay
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1963
(106) Year Reconstructed	0
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	820
(30) Year of ADT	2017
(109) Truck ADT	5 %
(19) Bypass, Detour Length	15 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	275 ft
(50) Curb or Sidewalk Width	
Left	1 ft
Right	1 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	28.6 ft
(32) Approach Roadway Width (W/Shoulders)	34.1 ft
(33) Bridge Median	0 - No median
(34) Skew	0 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	25.9 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	99.9 ft
Ref:	
(56) Min Lat Underclear LT	0 ft
NAVIGATION DATA	
(38) Navigation Control	0 - No navigation control on w
(111) Pier Protection	5 - None present but re-evalua
(39) Navigation Vertical Clearance	0 ft
(116) Vert-Lift Bridge Nav Min Vert Clear	0 ft
(40) Navigation Horizontal Clearance	0 ft

CLASSIFICATION	
(112) NBIS Bridge Length	Y
(104) Highway System	0
(26) Functional Class	7 - Rural Major Collector
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exis
(102) Direction of Traffic	2 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0 - N/A
(110) Designated National Network	0 - The inventory route is not
(20) Toll	3 - On free road. The structu
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	7
(59) Superstructure	7
(60) Substructure	7
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2 - M 13.5 / H 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	40
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	24
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	5
(68) Deck Geometry	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0 - Inspected feature does not meet
(36B) Transitions	1 - Inspected feature meets current
(36C) Approach Guardrail	1 - Inspected feature meets current
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	5 - Bridge foundations determined t
PROPOSED IMPROVEMENTS	
(75) Type of Work	
(76) Length of Structure Improvement	0 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 0
(97) Year of Improvement Cost Estimate	
(114) Future ADT	1200
(115) Year of Future ADT	2037

INSPECTIONS *			
(90) Inspection Date	03/09/2021		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
* The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted.			



Asset #03593(Routine, Underwater type 2)

District: 02, County: 41 - Desha County

Team Lead: Sharon Hooks, Inspection Date: 03/09/2021

#### A-46 - Asset Files

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#### General Observation (False)

Bridge is logged from west to east.  
(Beginning of bridge towards McGehee.)

Bridge is under contract for epoxy overlay 3/7/2018 JRB

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**SH 4-17 LM 7.44 over Boggy Bayou**

**Location: 7.44 Mi E US 65-McGehee**

**Team Lead:** Sharon Hooks, **Inspection Date:** 03/09/2021

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	7865	7853	6	6	0
1080	Delamination/Spall/Patched Area	SF	6	0	6	0	0
1090	Exposed Rebar	SF	6	0	0	6	0
510	Wearing Surfaces	SF	6600	6599	1	0	0
3220	Crack (Wearing Surface)	SF	1	0	1	0	0
(38) Deck: 24' wide x 275' long. Wearing surface: Deck surface has been epoxy overlayed under construction. JRB 2021  Soffit: Spans 2,7 & 8 ,9,10 : Spalling with some rebar exposed on bottom corners of deck, mainly at drains and adjacent to caps.  OLD NOTES Bridge is under construction for epoxy overlay (2019) Moderate- to large-sized transverse cracks at bents - CS3 288 sqft. Hairline- to minor-sized longitudinal cracks beginning to show in wheel ruts.							
215	Reinforced Concrete Abutment	LF	68	60	8	0	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
1130	Cracking (RC and Other)	LF	6	0	6	0	0
(215) Abutments: 34' each \ Bents 1 & 12. Vertical and horizontal cracking in abutments and cracking and spalling at key ways.							
227	Reinforced Concrete Pile	EA	30	30	0	0	0
(227) Piling: 3 per bent \ Bents 2-11.							
234	Reinforced Concrete Pier Cap	LF	240	204	12	24	0
1080	Delamination/Spall/Patched Area	LF	21	0	12	9	0
1090	Exposed Rebar	LF	15	0	0	15	0
(234) Caps: 24' each \ Bents 2-11. Bents 2, 3, 5, 7, 8, 9, 10,& 11: Scattered small, shallow delaminations and spalls with exposed rebar.							
301	Pourable Joint Seal	LF	240	205	35	0	0
2350	Debris Impaction	LF	35	0	35	0	0
(301) Pourable Joint Seals: 10 each 24' joint seals have some debris impaction from epoxy overly. OLD NOTES Construction project 2017-2019 on going. All joint material has lost bond and missing.							
330	Metal Bridge Railing	LF	550	550	0	0	0
515	Steel Protective Coating	SF	1375	0	1375	0	0

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
3410	Chalking (Steel Protective Coatings)	LF	1375	0	1375	0	0
(330) Railing: 275" each side. Coating: 2.5 square feet per linear feet of railing. Metal railing with concrete posts. Paint is very thin and worn with primer showing through in most places. Some scattered collision damage to rails & posts.							

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## Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



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Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation.



Bent 1 joint seals.



Under view of deck.



Deck over view.



Approach.



**Maintenance Needs**

**Date Reported:** 02/11/2015

**Priority:** D- Routine

**Type of Work:** (Inactive) (Inactive) 0 - N/A

**Status:** Monitor

**Component:**

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**Deficiency Description**

Channel - Bents 5, 6, & 7: Minor build-up of drift and debris against pile.

**Remarks**

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Drift and debris at bent 4-6 impeding waters flow.



Channel - Bents 5-7: Debris build-up

**Date Reported:** 03/07/2019

**Priority:** C - Important

**Type of Work:** (Inactive) (Inactive) 0 - N/A

**Status:** Monitor

**Component:**

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**Deficiency Description**

Caps - Bents 2, 3, 5, 8, 9, & 11: Scattered small, shallow delaminations and spalls with exposed rebar.

**Remarks**

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Bent 9 cap right ahead has spalls with exposed rebar.



Cap - Bent 9 right end: Rebar exposed





Caps - Bent 10 back: Rebar exposed



Bent 10 cap right has spall with exposed rebar.



Bent 3 cap back has delams.



Spall with exposed rebar at bent 2 under cap near pile 2.



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**Team Lead:** Sharon Hooks, **Inspection Date:** 03/09/2021

**Date Reported:** 03/07/2019

**Priority:** D- Routine

**Type of Work:** (Inactive) (Inactive) 0 - N/A

**Status:** Monitor

**Component:**

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**Deficiency Description**

Soffit - Spans 7 & 8: Spalling with some rebar exposed on bottom corners of deck, mainly at drains and caps.

**Remarks**

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Span 9 at Bent 10 left behind under side of deck near cap has delam and spall with exposed rebar.



Span 10 under side of deck at soffit area at drain opening has cracking with delams.





Soffit - Span 8 right: Rebar exposed



Span 7 left has spall with exposed rebar near drain opening on under side of deck.

**Date Reported:** 03/09/2021

**Priority:** D- Routine

**Type of Work:** (Inactive) (Inactive) 1 - Clean

**Status:** Open

**Component:**

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**Deficiency Description**

Trees vines and vegetation impeding inspection process.

**Remarks**

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Trees, vines and vegetation impeding inspections.





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**Location: 7.44 Mi E US 65-McGehee**

**Team Lead:** Sharon Hooks, **Inspection Date:** 03/09/2021

## **Routine Maintenance**

Check Box Maintenance Items

<b>Data Field</b>	<b>Value</b>
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	
A-56 - Joint Cleaning/Flushing Needed	
A-57-Beam End and Bearing Paint Needed	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	
A-62 - Hydo and LMC Advised	



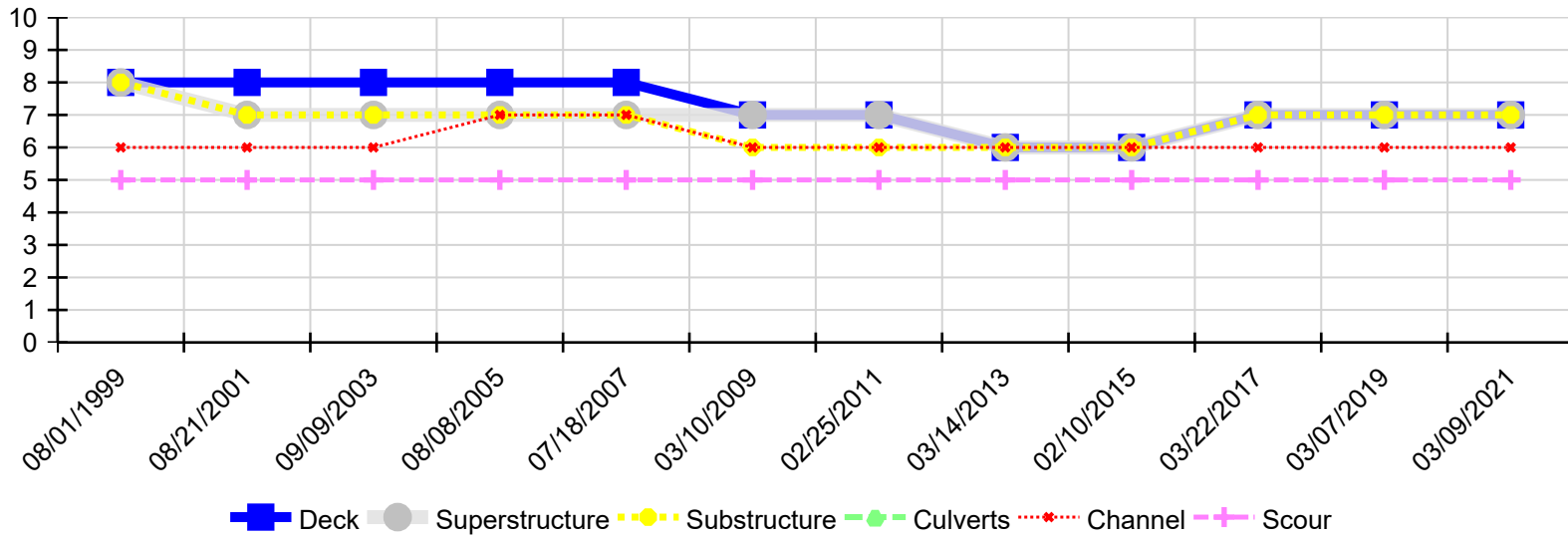
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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
03/09/2021	7	7	7	N	6	5
03/07/2019	7	7	7	N	6	5
03/22/2017	7	7	7	N	6	5
02/10/2015	6	6	6	N	6	5
03/14/2013	6	6	6	N	6	5
02/25/2011	7	7	6	N	6	5
03/10/2009	7	7	6	N	6	5
07/18/2007	8	7	7	N	7	5
08/08/2005	8	7	7	N	7	5
09/09/2003	8	7	7	N	6	5
08/21/2001	8	7	7	N	6	5
08/01/1999	8	8	8	N	6	5