



Latitude:36.35980, Longitude:-93.56304

Route:62 Section:05 Log:0.4

Arnold Road ID:8x62x5xA, Arnold Log mile:0.399

District 09, 15 - Carroll County

Owner: 1 - State Highway Agency

Inspection Direction: 1 - N to S

Bridge Posting Information

41 - Structure Open/Posted/Closed: A - Open, no restriction

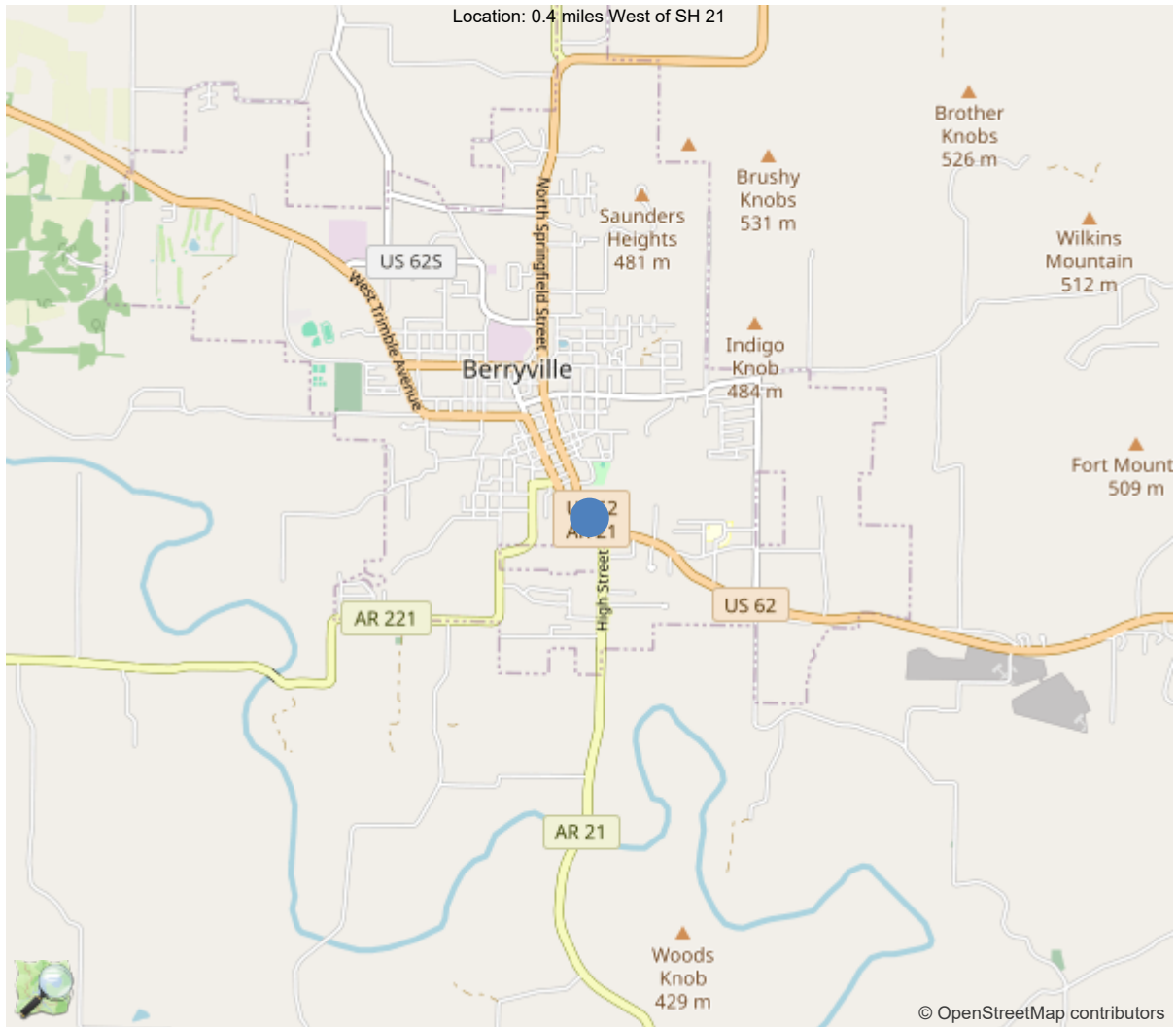
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	23		
Code 9 (31 Tons)	32		
Code 5 (40 Tons)	40		

If calculated Capacity is less than the Legal Load Listed, the Bridge Legally Requires Posting Signs to be installed by the Bridge Owner



30"x36" AR



36.35980, -93.56304



Asset #M1098(Routine)

US 62 Carroll over DITCH

Location: 0.4 miles West of SH 21

Team Lead: Benjamin Smith Inspection Date: 07/08/2024

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	M1098
(5) Inventory Route	1
(2) Highway Agency District	09 - District 09
(3) County Code	15 - Carroll County
(4) Place Code	5560
(6) Features Intersected	DITCH
(7) Facility Carried	US 62 Carroll
(9) Location	0.4 miles West of SH 21
(11) Mile Point	0.4 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000062050
(16) Latitude	36.359802
(17) Longitude	-93.563042
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	119
Material	1 - Concrete
Type	19 - Culvert
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	3
(46) No. of Approach Spans	0
(107) Deck Structure Type	N - Not applicable
(108) Wearing Surface/Protective System	
Type of Wearing Surface	N - Not applicable (applies only to stru
Type of Membrane	N - Not applicable (applies only to stru
Type of Deck Protection	N - Not applicable (applies only to stru
AGE AND SERVICE	
(27) Year Built	1930
(106) Year Reconstructed	1969
(42) Type of Service	55
On	5 - Highway-pedestrian
Under	5 - Waterway
(28) Lane	
On	4
Under	0
(29) Average Daily Traffic	13000
(30) Year of ADT	2018
(109) Truck ADT	4 %
(19) Bypass, Detour Length	19 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	10 ft
(49) Structure Length	32 ft
(50) Curb or Sidewalk Width	
Left	6 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	0 ft
(52) Deck Width Out to Out	0 ft
(32) Approach Roadway Width (W/Shoulders)	44 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	99.9 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	0 ft
Ref:	
(56) Min Lat Underclear LT	0 ft
NAVIGATION DATA	
(38) Navigation Control	0 - No navigation control on w
(111) Pier Protection	1 - Navigation protection not
(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	6 - Rural Minor Arterial
(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	1 - The inventory route is par
(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	N
(59) Superstructure	N
(60) Substructure	N
(61) Channel & Channel Protection	7
(62) Culverts	7
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	31
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	19
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	
(68) Deck Geometry	N
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	9
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	N - Not applicable or a safety feat
(36B) Transitions	N - Not applicable or a safety feat
(36C) Approach Guardrail	N - Not applicable or a safety feat
(36D) Approach Guardrail Ends	N - Not applicable or a safety feat
(113) Scour Critical Bridges	8 - 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	17025
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	07/08/2024		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection	No		
* 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.			

Team Lead: Benjamin Smith, Inspection Date: 07/08/2024

IDENTIFICATION	
B.ID.01 Bridge Number	M1098
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	
B.W.01 Year Built	1930

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	15 - Carroll County
B.L.03 Place Code	05560 - Berryville
B.L.04 Highway Agency District	09 - District 09
B.L.05 Latitude	36.359802
B.L.06 Longitude	-93.563042
B.L.07 Border Bridge Number	
B.L.08 Border Bridge State or Country Code	
B.L.09 Border Bridge Insp. Resp.	
B.L.10 Border Bridge Designated Lead State	
B.L.11 Bridge Location	.4 MI W OF SH21
B.L.12 Metropolitan Planning Organization	

CLASSIFICATION	
B.CL.01 Owner	S01 - State transportation departme
B.CL.02 Maint. Responsibility	S01 - State transportation departme
B.CL.03 Federal or Tribal Land Access	N - Not Applicable
B.CL.04 Historic Significance	N - Bridge is not eligible for the
B.CL.05 Toll	N - Bridge does not carry a toll ro
B.CL.06 Emergency Evacuation Designation	

ROADSIDE HARDWARE	
B.RH.01A Bridge Railing Type	
B.RH.01B Bridge Railing Year (YY)	
B.RH.01C Bridge Railing Test Level	
B.RH.02A Transition Type	
B.RH.02B Transition Year (YY)	
B.RH.02C Transition Test Level	

BRIDGE GEOMETRY	
B.G.01 NBIS Bridge Length	32
B.G.02 Total Bridge Length	32.2
B.G.03 Max Span Length	11.2
B.G.04 Min Span Length	10
B.G.05 Bridge Width Out-to-Out	
B.G.06 Bridge Width Curb-to-Curb	0
B.G.07 Left Curb or Sidewalk Width	5.9
B.G.08 Right Curb or Sidewalk Width	0
B.G.09 Approach Roadway Width	44

B.G.10 Bridge Median	0 - No median
B.G.11 Skew	0
B.G.12 Curved Bridge	N - Not curved
B.G.13 Max Bridge Height	
B.G.14 Sidehill Bridge	N - Not a sidehill bridge
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	1413.5

LOADS AND LOAD RATING	
B.LR.01 Design Load	H15 - H-15
B.LR.02 Design Method	
B.LR.03 Load Rating Date	
B.LR.04 Load Rating Method	LFR - Load Factor Rating
B.LR.05 Inventory Load Rating Factor	0.53
B.LR.06 Operating Load Rating Factor	0.86
B.LR.07 Controlling Legal Load Rating Factor	
B.LR.08 Routine Permit Loads	

INSPECTION REQUIREMENTS	
B.IR.01 NSTM Inspection Required	N - NSTM inspection not required.
B.IR.02 Fatigue Details	N - No E/E' details
B.IR.03 UW Inspection Required	N - Underwater inspection not requi
B.IR.04 Complex Feature	N - Bridge does not have complex fe

COMPONENT CONDITION RATINGS	
B.C.01 Deck Condition Rating	N - NOT APPLICABLE - Component
B.C.02 Superstructure Condition	N - NOT APPLICABLE - Component
B.C.03 Substructure Condition	N - NOT APPLICABLE - Component
B.C.04 Substructure Condition	7 - GOOD - Some minor defects.
B.C.05 Bridge Railing Condition	N - NOT APPLICABLE - Component
B.C.06 Bridge Railing Transitions Condition	N - NOT APPLICABLE - Component
B.C.07 Bridge Bearings Cond.	N - NOT APPLICABLE - Component
B.C.08 Bridge Joints Condition	N - NOT APPLICABLE - Bridge do
B.C.09 Channel Condition Rating	7 - GOOD - Some minor defects.
B.C.10 Channel Protection Condition	N - NOT APPLICABLE - Bridge do
B.C.11 Scour Condition Rating	9 - No scour.
B.C.12 Bridge Condition Classification	G - Good
B.C.13 Lowest Condition Rating	7 - GOOD - Some minor defects.
B.C.14 NSTM Insp. Condition	N - NOT APPLICABLE - Component
B.C.15 UW Inspection Condition	

APPRAISAL	
B.AP.01 Approach Roadway Alignment	G - Good
B.AP.02 Overtopping Likelihood	1 - Remote - once every 100 years o
B.AP.03 Scour Vulnerability	AB-T - TEMP - Stable for scour, pos
B.AP.04 Scour Plan of Action	0 - A scour POA is not required.
B.AP.05 Seismic Vulnerability	0 - Seismic evaluation not complete

Team Lead: Benjamin Smith, Inspection Date: 07/08/2024

SPAN SETS			
C1			
B.SP.02 # of Spans	3	B.SP.08 Deck Interaction	
B.SP.03 # of Beam Lines	1	B.SP.09 Deck Material and Type	0 - None
B.SP.04 Span Material	C01 - Reinforced concrete - ca	B.SP.10 Wearing Surface	
B.SP.05 Span Continuity	7 - Buried	B.SP.11 Deck Protective System	
B.SP.06 Span Type	F02 - Frame - four-sided	B.SP.12 Deck Reinforcing Protective System	
B.SP.07 Span Protective System	0 - None	B.SP.13 Deck Stay-In-Place Forms	

SUBSTRUCTURE SETS			
A1			
B.SB.02 No. of Substructure Units	2	B.SB.05 Substructure Protective System	0 - None
B.SB.03 Substructure Material	C01 - Reinforced concrete - ca	B.SB.06 Foundation Type	F02 - Footing - on rock
B.SB.04 Substructure Type	A01 - Abutment - cantilever/wa	B.SB.07 Foundation Protective System	0 - None

SUBSTRUCTURE SETS			
P1			
B.SB.02 No. of Substructure Units	2	B.SB.05 Substructure Protective System	0 - None
B.SB.03 Substructure Material	C01 - Reinforced concrete - ca	B.SB.06 Foundation Type	F02 - Footing - on rock
B.SB.04 Substructure Type	P01 - Pier - wall	B.SB.07 Foundation Protective System	0 - None

HIGHWAY FEATURES			
H1			
B.F.02 Feature Location	C - Carried on bridge	B.H.09 Annual ADT	13000
B.F.03 Feature Name	US 62 Carroll	B.H.10 Annual ADTT	130
B.H.01 Functional Classification	4 - Minor Arterial	B.H.11 Year of Annual ADT	2018
B.H.02 Urban Code	99999	B.H.12 Highway Max Usable Vertical Clearance	99.9
B.H.03 NHS Designation	N - Non-NHS	B.H.13 Highway Min Vertical Clearance	99.9
B.H.04 National Highway Freight Network	1-T - TEMP - NHFN - 1 or 2 or	B.H.14 Highway Min Horizontal Clearance, Left	
B.H.05 STRAHNET Designation	N - Not a STRAHNET route	B.H.15 Highway Min Horizontal Clearance, Right	
B.H.06 LRS Route ID	62050	B.H.16 Highway Max Usable Surface Width	99.9
B.H.07 LRS Mile Point	0.4	B.H.17 Bypass Detour Length	19
B.H.08 Lanes On Highway	4	B.H.18 Crossing Bridge Number	

WATERWAY FEATURES			
W1			
B.F.02 Feature Location	B - Below bridge	B.N.03 Movable Bridge Max Navigation Vertical Clearance	
B.F.03 Feature Name	DITCH	B.N.04 Navigation Channel Width	
B.N.01 Navigable Waterway	N - Not navigable waters	B.N.05 Navigation Channel Min Horizontal Clearance	
B.N.02 Navigation Min Vertical Clearance		B.N.06 Substructure Navigation Protection	



Team Lead: Benjamin Smith, Inspection Date: 07/08/2024

POSTING STATUS DATA	
B.PS.01 Load Posting Status	B.PS.02 Posting Status Change Date
PO - Permanent - Open	

LOAD EVALUATION AND POSTING			
B.EP.01 Legal Load Configuration	B.EP.02 Legal Load Rating Factor	B.EP.03 Posting Type	B.EP.04 Posting Value



Asset #M1098(Routine)

US 62 Carroll over DITCH

Location: 0.4 miles West of SH 21

Team Lead: Benjamin Smith Inspection Date: 07/08/2024

General Observation

Structure is logged from NW to SE and is accessible from the bottom slab.
No bat activity noted.

Sufficiency Rating Calculation Accepted by dlvr at 2010-06-08 11:48:03

61 - Channel/Channel Protection (7 - Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift.)
The upstream channel is well vegetated. The visible portion of the channel bottom is solid rock. The upstream channel has an elevated utility crossing.

The downstream channel is well vegetated. The visible portion of the channel bottom is solid rock. The downstream channel has a low water slab crossing.

62 - Culverts (7 - Shrinkage cracks, light scaling and insignificant spalling which does not expose reinforcing steel. Insignificant damage caused by drift with no misalignment and not requiring corrective action. Some minor scouring has occurred near curtain walls, wingwalls or pipes. Metal culverts have a smooth symmetrical curvature with superficial corrosion and no pitting.)
The culvert has a few areas of spalling with exposed rebar. The walls have shrinkage cracking. The barrel floors have abrasion.

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
241	Reinforced Concrete Culvert	LF	198	94	100	4	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1090	Exposed Rebar	LF	4	0	0	4	0
1120	Efflorescence/Rust Staining	LF	2	0	2	0	0
1130	Cracking (RC and Other)	LF	60	0	60	0	0
1190	Abrasion/Wear (PSC/RC)	LF	37	0	37	0	0
(241) Driving surface- has an asphalt overlay with unsealed cracking.							
<p>Barrel #1- has 2' of cs3 spalling with 1' of exposed cs3 rebar at the top corner of the right wing wall connection at the outlet end. The barrel has 28' of cs2 vertical, horizontal, and diagonal cracking at random locations in the walls. The top slab has 2' of cs2 efflorescence cracking. The barrel floor has cs2 abrasion for the entire length and width, but not all quantified due to other deficiencies in the same footage. The back wall has a 36" storm drain inlet incorporated into the wall.</p> <p>Wing walls- the wing walls are non integral.</p> <p>Right wing wall- has 4 hairline diagonal cs2 cracks.</p> <p>Left wing wall- No deficiencies noted.</p>							
<p>Barrel #2- has a spall with 1' of exposed cs3 rebar in the top slab at the inlet end. No cracking was noted in the top slab. The barrel has 12' of hairline vertical, and diagonal cs2 cracking in the division wall. The barrel floor has up to 18" of stream bed material build up for the entire length and width.</p>							
<p>Barrel #3- has a spall with 1' of exposed cs3 rebar in the top slab at the end of the original portion of the box. Barrel #3 has 1' of cs3 delamination in the top corner of the backwall at the outlet end. The top slab has 2' of cs2 efflorescence cracking. The backwall has 20' of hairline vertical, horizontal, and diagonal cs2 cracking at random locations. The barrel floor has up to 12" of stream bed material build up at random locations. The inlet end of the back wall has a spall with 1' of exposed cs3 rebar.</p> <p>Wing walls- the wing walls are non integral.</p> <p>Right wing wall- has 1 full height diagonal crack.</p> <p>Left wing wall- No deficiencies noted.</p>							
<p>Head walls-</p> <p>Right head wall- No deficiencies noted.</p> <p>Left head wall- No deficiencies noted.</p>							
<p>Bridge railing- The left and right sides of the structure have a welded metal pipe hand rail. No deficiencies noted.</p>							
<p>Approach railing- the culvert was not constructed with approach railing.</p>							
<p>Transitions- the culvert was not constructed with transitions.</p>							
330	Metal Bridge Railing	LF	32	32	0	0	0
(330) The left side and right sides of the structure have welded metal pipe pedestrian hand railing.							
<p>Left hand railing- No deficiencies noted.</p> <p>Right hand rail- No deficiencies noted.</p>							



06/16/2022

Elevation with log left to right



07/08/2024

Downstream channel view.



07/08/2024

Upstream channel view.



07/08/2024

Driving surface view.



Approach view in direction of log mile.



Metal railing condition typical.



Asset #M1098(Routine)

US 62 Carroll over DITCH

Location: 0.4 miles West of SH 21

Team Lead: Benjamin Smith Inspection Date: 07/08/2024

Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	No
A-55 - Deck Washing Needed	No
A-56 - Joint Cleaning/Flushing Needed	No
A-57 - Beam End and Bearing Paint Needed	No
A-58 - Cap Cleaning/Flushing Needed	No
A-59 - Joint Repair Needed	No
A-60 - Full Beam Painting Needed	No
A-61 - Polymer Overlay Advised	No
A-62 - Hydro and LMC Advised	No
A-63 - Missing/Incorrect Log Mile Signage	No
A-64 - Vegetation Removal Requested	No

A-54 - Sealable Deck Cracks (No)

A-55 - Deck Washing Needed (No)

A-56 - Joint Cleaning/Flushing Needed (No)



Asset #M1098(Routine)

US 62 Carroll over DITCH

Location: 0.4 miles West of SH 21

Team Lead: Benjamin Smith Inspection Date: 07/08/2024

A-57 - Girder End and Bearing Painting Needed (No)

A-58 - Cap Cleaning/Flushing Needed (No)

A-59 - Joint Repair Needed (No)

A-60 - Full Girder Painting Needed (No)

A-61 - Polymer Overlay Advised (No)

A-62 - Hydro and LMC Advised (No)

A-63 - Missing/Incorrect Log Mile Signage (No)

A-64 - Vegetation Removal Requested (No)



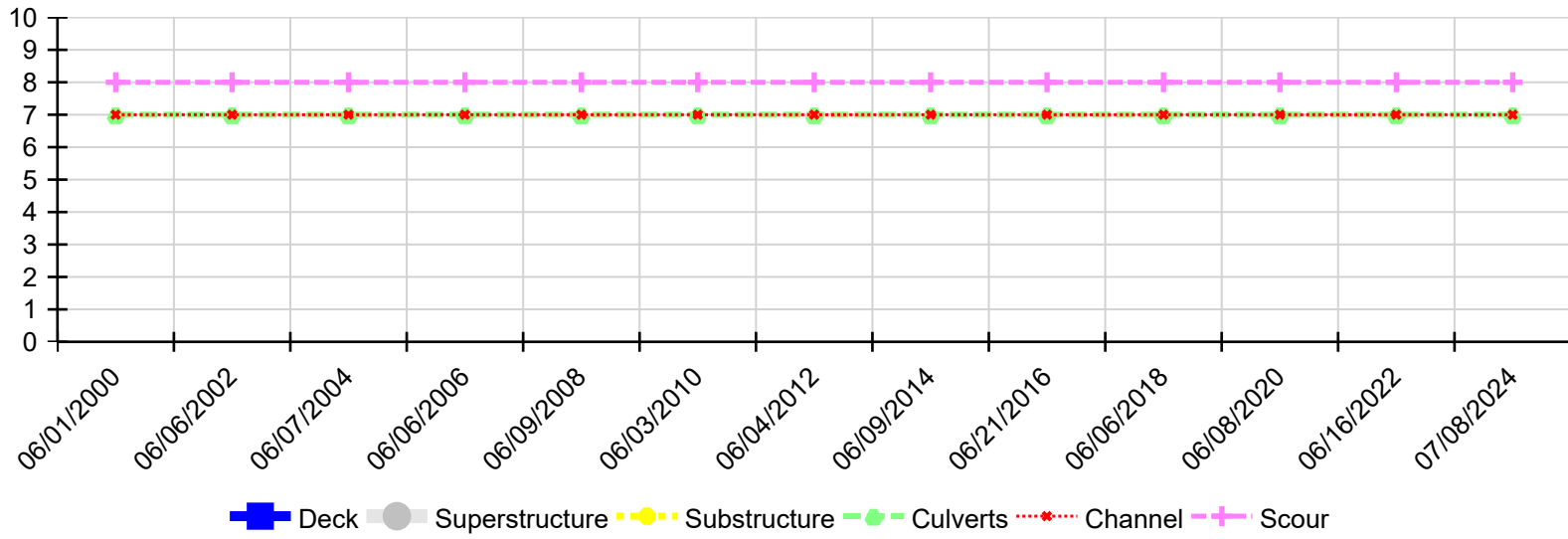
Asset #M1098(Routine)

US 62 Carroll over DITCH

Location: 0.4 miles West of SH 21

Team Lead: Benjamin Smith Inspection Date: 07/08/2024

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
07/08/2024	N	N	N	7	7	8
06/16/2022	N	N	N	7	7	8
06/08/2020	N	N	N	7	7	8
06/06/2018	N	N	N	7	7	8
06/21/2016	N	N	N	7	7	8
06/09/2014	N	N	N	7	7	8
06/04/2012	N	N	N	7	7	8
06/03/2010	N	N	N	7	7	8
06/09/2008	N	N	N	7	7	8
06/06/2006	N	N	N	7	7	8
06/07/2004	N	N	N	7	7	8
06/06/2002	N	N	N	7	7	8
06/01/2000	N	N	N	7	7	8