



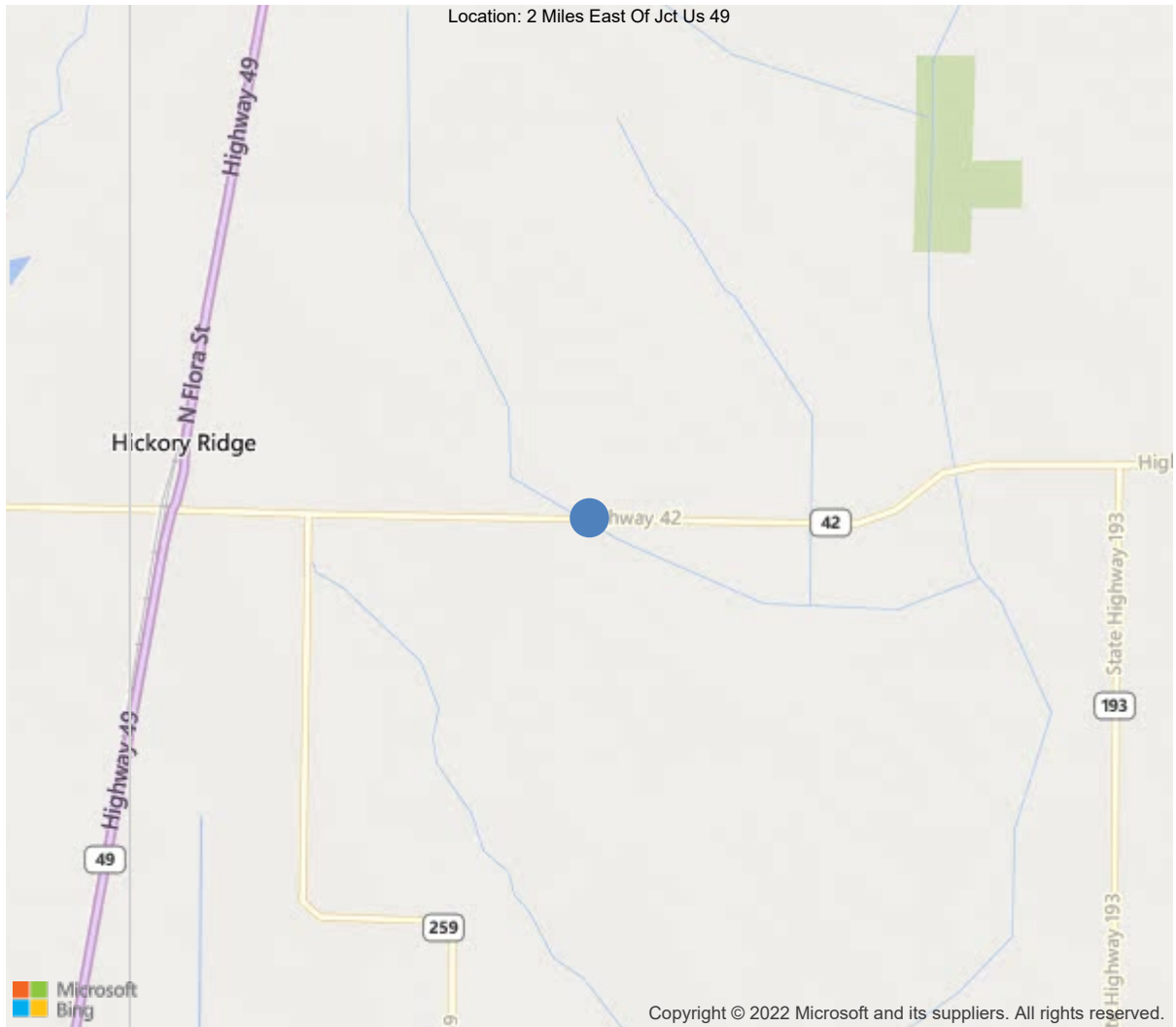
Latitude:35.39659, Longitude:-90.95942

Route:42 Section:02 Log:4.53

Arnold Road ID:19x42x2xA, Arnold Log mile:4.531

District 01, 37 - Cross County

Owner: 1 - State Highway Agency



35.39659, -90.95942



**Asset #03033**(Routine, Underwater type 2)

**Sh-42/Sec-2/L-4.53 over Overcup Creek**

**Location: 2 Miles East Of Jct Us 49**

**Team Lead: Myron Futrell, Inspection Date: 12/06/2021**

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	03033
(5) Inventory Route	1
(2) Highway Agency District	01 - District 01
(3) County Code	37 - Cross County
(4) Place Code	0
(6) Features Intersected	Overcup Creek
(7) Facility Carried	Sh-42/Sec-2/L-4.53
(9) Location	2 Miles East Of Jct Us 49
(11) Mile Point	4.53 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.39659
(17) Longitude	-90.95942
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	122
Material	1 - Concrete
Type	22 - Channel beam
(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	2 - Concrete Precast Panels
(108) Wearing Surface/Protective System	
Type of Wearing Surface	6 - Bituminous
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1956
(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	630
(30) Year of ADT	2014
(109) Truck ADT	8 %
(19) Bypass, Detour Length	38 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	19 ft
(49) Structure Length	57 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	25.2 ft
(32) Approach Roadway Width (W/Shoulders)	19.8 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	24 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	7 - Rural Major Collector
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exists
(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 structure
(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	6
(60) Substructure	5
(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	41
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	25
(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	9
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0 - Inspected feature does not meet
(36B) Transitions	0 - Inspected feature does not meet
(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 to
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	602
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	12/06/2021		
(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 #03033(Routine, Underwater type 2)

District: 01, County: 37

Team Lead: Myron Futrell, Inspection Date: 12/06/2021

**59 - Superstructure (6)**

---

**A-46 - Asset Files**

-

---

**General Observation (False)**

-

---



Asset #03033(Routine, Underwater type 2)

Sh-42/Sec-2/L-4.53 over Overcup Creek

Location: 2 Miles East Of Jct Us 49

Team Lead: Myron Futrell, Inspection Date: 12/06/2021

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	1425	1418	7	0	0
1120	Efflorescence/Rust Staining	SF	7	0	7	0	0
510	Wearing Surfaces	SF	1254	1254	0	0	0
(16) Asphalt overlay has sealed cracks at bents. Vegetation and debris are in gutters partly blocking drains. Span #1 unit #1 soffit has six feet of hairline longitudinal cracking with light efflorescence. Span #1 unit #6 has transverse crack in soffit with light efflorescence.							
110	Reinforced Concrete Open Girder/Beam	LF	399	292	34	73	0
1080	Delamination/Spall/Patched Area	LF	10	0	3	7	0
1090	Exposed Rebar	LF	6	0	0	6	0
1120	Efflorescence/Rust Staining	LF	37	0	9	28	0
1130	Cracking (RC and Other)	LF	54	0	22	32	0
(110) Connection bolts from unit to unit are corroded with laminations. Span #1 girder #1 right leg has map cracked for ten feet with heavy efflorescence. Span #1 girder #5 left leg has a one foot crack at bent #2. Span #1 girder #6 has vertical crack extending into soffit with moderate efflorescence. Span #1 girder #7 left leg map cracked last half of span with light efflorescence. Span #2 girder #1 left and right leg map cracked for three feet first part of span with light efflorescence. Span #2 girder #3 left leg is cracked with delamination full length with six feet of exposed rebar with 10% section loss. Span #2 girder #4 left leg has two foot crack with delamination at three quarter span, and a six foot crack with delamination at mid span. Span #2 girder #7 left leg has cracking first half of span with light efflorescence. Span #2 girder #6 left leg has cracking first half of span, with small spall at bent #2 cap, right leg first four feet has cracked with moderate efflorescence. Span #3 girder #2 left leg has cracks and delaminated at mid span for eight feet in length. Cs3 Span #3 girder #7 left leg has several hairline cracks for first half of span. Girder units have minor pop offs in various locations. Girder units have longitudinal and vertical cracks in stems six inches to one foot apart.							
215	Reinforced Concrete Abutment	LF	71	61	10	0	0
6000	Scour	LF	10	0	10	0	0
(215) ABUTMENT #2 CAP IS UNDERMINED UP TO 6" DEEP FOR 6' LENGTH ON RIGHT SIDE & 4' LENGTH AT CENTER, exposing pile #3.							
227	Reinforced Concrete Pile	EA	7	1	6	0	0
1190	Abrasion/Wear (PSC/RC)	EA	6	0	6	0	0
(227) Bent #2 and 3 piles have light abrasion with no loose aggregate. Abutment #2 pile #3 exposed four inches.							
234	Reinforced Concrete Pier Cap	LF	51	27	14	10	0
1080	Delamination/Spall/Patched Area	LF	2	0	0	2	0
1090	Exposed Rebar	LF	22	0	14	8	0

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(234) Bent #2 cap has two foot crack and delamination above pile #2 on back face. Bent #3 cap back face is cracked, delaminated and spalled on left end with exposed rebar for two feet with 5% section loss. Bent #3 cap ahead face left end is heavily scaled with four feet of exposed rebar. Bent #3 cap right end has heavy scaling with exposed rebar for one foot. Bent #3 cap back face has two foot long delamination above pile #2 and five six inch spalls and a one foot spall with exposed rebar with 10% section loss and three feet of cracking with delamination.							
301	Pourable Joint Seal	LF	50	0	0	50	0
2350	Debris Impaction	LF	50	0	0	50	0
(301) Joints are covered in asphalt overlay.							
330	Metal Bridge Railing	LF	114	0	114	0	0
1000	Corrosion	LF	114	0	114	0	0
515	Steel Protective Coating	SF	342	0	0	85	257
3440	Effectiveness (Steel Protective Coatings)	LF	342	0	0	85	257
(330) Spotty rust full length.							

## Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	1425	1418	7	0	0
1120	Efflorescence/Rust Staining	SF	7	0	7	0	0
510	Wearing Surfaces	SF	1254	1254	0	0	0
(16) Asphalt overlay has sealed cracks at bents. Vegetation and debris are in gutters partly blocking drains. Span #1 unit #1 soffit has six feet of hairline longitudinal cracking with light efflorescence. Span #1 unit #6 has transverse crack in soffit with light efflorescence.							



Asset #03033(Routine, Underwater type 2)

Sh-42/Sec-2/L-4.53 over Overcup Creek

Location: 2 Miles East Of Jct Us 49

Team Lead: Myron Futrell, Inspection Date: 12/06/2021

## Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
110	Reinforced Concrete Open Girder/Beam	LF	399	292	34	73	0
1080	Delamination/Spall/Patched Area	LF	10	0	3	7	0
1090	Exposed Rebar	LF	6	0	0	6	0
1120	Efflorescence/Rust Staining	LF	37	0	9	28	0
1130	Cracking (RC and Other)	LF	54	0	22	32	0
<p>(110) Connection bolts from unit to unit are corroded with laminations.            Span #1 girder #1 right leg has map cracked for ten feet with heavy efflorescence.            Span #1 girder #5 left leg has a one foot crack at bent #2.            Span #1 girder #6 has vertical crack extending into soffit with moderate efflorescence.            Span #1 girder #7 left leg map cracked last half of span with light efflorescence.            Span #2 girder #1 left and right leg map cracked for three feet first part of span with light efflorescence.            Span #2 girder #3 left leg is cracked with delamination full length with six feet of exposed rebar with 10% section loss.            Span #2 girder #4 left leg has two foot crack with delamination at three quarter span, and a six foot crack with delamination at mid span.            Span #2 girder #7 left leg has cracking first half of span with light efflorescence.            Span #2 girder #6 left leg has cracking first half of span, with small spall at bent #2 cap, right leg first four feet has cracked with moderate efflorescence.            Span #3 girder #2 left leg has cracks and delaminated at mid span for eight feet in length. Cs3            Span #3 girder #7 left leg has several hairline cracks for first half of span.            Girder units have minor pop offs in various locations.            Girder units have longitudinal and vertical cracks in stems six inches to one foot apart.</p>							

### 59 - Superstructure (6)

Comment:



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	71	61	10	0	0
6000	Scour	LF	10	0	10	0	0
(215) ABUTMENT #2 CAP IS UNDERMINED UP TO 6" DEEP FOR 6' LENGTH ON RIGHT SIDE & 4' LENGTH AT CENTER, exposing pile #3.							
227	Reinforced Concrete Pile	EA	7	1	6	0	0
1190	Abrasion/Wear (PSC/RC)	EA	6	0	6	0	0
(227) Bent #2 and 3 piles have light abrasion with no loose aggregate. Abutment #2 pile #3 exposed four inches.							
234	Reinforced Concrete Pier Cap	LF	51	27	14	10	0
1080	Delamination/Spall/Patched Area	LF	2	0	0	2	0
1090	Exposed Rebar	LF	22	0	14	8	0
(234) Bent #2 cap has two foot crack and delamination above pile #2 on back face. Bent #3 cap back face is cracked, delaminated and spalled on left end with exposed rebar for two feet with 5% section loss. Bent #3 cap ahead face left end is heavily scaled with four feet of exposed rebar. Bent #3 cap right end has heavy scaling with exposed rebar for one foot. Bent #3 cap back face has two foot long delamination above pile #2 and five six inch spalls and a one foot spall with exposed rebar with 10% section loss and three feet of cracking with delamination.							



**Asset #03033**(Routine, Underwater type 2)

**Sh-42/Sec-2/L-4.53 over Overcup Creek**

**Location: 2 Miles East Of Jct Us 49**

**Team Lead:** Myron Futrell, **Inspection Date:** 12/06/2021

## Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Side view / elevation

**Maintenance Needs**

**Date Reported:** 12/09/2019  
**Priority:** C - Important  
**Type of Work:** (Inactive) (Inactive) 0 - N/A  
**Status:** Forward State  
**Component:**

---

**Deficiency Description**

Bent #2 cap has one foot crack and delamination above pile #2 on back face.  
Bent #3 cap is cracked, delaminated and spalled on left end with exposed rebar with 5% section loss.  
Bent #3 cap is cracked and delaminated on right end.  
Bent #3 cap back face has several small spalls with exposed rebar with 10% section loss.

**Remarks**

---



Bent #3 cap left end back face



Bent #3 cap right side





Bent #3 cap back face right side



Bent #3 cap back face.





Bent #3 left end.

**Date Reported:** 12/09/2019

**Priority:** D- Routine

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

**Status:** Forward State

**Component:**

---

**Deficiency Description**

Abutment #2 cap is undermined up to six inches deep for six feet in length on right side and for four feet in length at center.

**Remarks**

---



Abutment #2.

**Date Reported:** 12/09/2019  
**Priority:** D- Routine  
**Type of Work:** (Inactive) (Inactive) 0 - N/A  
**Status:** Forward State  
**Component:**

---

**Deficiency Description**

Vegetation and debris are in gutters partly blocking drains.

**Remarks**

---



Vegetation in gutters

**Date Reported:** 12/07/2021  
**Priority:** D- Routine  
**Type of Work:** Repair (General)  
**Status:** Open  
**Component:** Element

---

### Deficiency Description

Span #1 girder #1 right leg has map cracked for ten feet with heavy efflorescence.  
Span #1 girder #5 left leg has a one foot crack at bent #2.  
Span #1 girder #6 has vertical crack extending into soffit with moderate efflorescence.  
Span #1 girder #7 left leg map cracked last half of span with light efflorescence.  
Span #2 girder #1 left and right leg map cracked for three feet first part of span with light efflorescence.  
Span #2 girder #3 left leg is cracked with delamination full length.  
Span #2 girder #4 left leg has two foot crack with delamination at three quarter span, and a six foot crack with delamination at mid span.  
Span #2 girder #7 left leg has cracking first half of span with light efflorescence.  
Span #2 girder #6 left leg has cracking first half of span, with small spall at bent #2 cap, right leg first four feet has cracked with moderate efflorescence.  
Span #3 girder #2 left leg has cracks and delaminated at mid span for eight feet in length. Cs3  
Span #3 girder #7 left leg has several hairline cracks for first half of span.  
Girder units have minor pop offs in various locations.  
Girder units have longitudinal and vertical cracks in stems six inches to one foot apart.

### Remarks

---



Span #1 soffit / underside of deck



**Date Reported:** 12/07/2021  
**Priority:** C - Important  
**Type of Work:** Repair (General)  
**Status:** Open  
**Component:** Element

---

**Deficiency Description**

Span #2 girder #3 left leg is spalled with six feet of exposed rebar with 10% section loss.

**Remarks**

---



Span #2 girder #3 left leg is cracked with delamination full length with six feet of exposed rebar with 10% section loss.



Span #1 soffit / underside of deck



**Date Reported:** 12/07/2021  
**Priority:** C - Important  
**Type of Work:** Repair (General)  
**Status:** Open  
**Component:** Approach

---

**Deficiency Description**

Abutment #2 left approach rail end not connected

**Remarks**

---



Abutment #2 left approach rail end not connected



**Asset #03033**(Routine, Underwater type 2)

**Sh-42/Sec-2/L-4.53 over Overcup Creek**

**Location: 2 Miles East Of Jct Us 49**

**Team Lead:** Myron Futrell, **Inspection Date:** 12/06/2021

## **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	



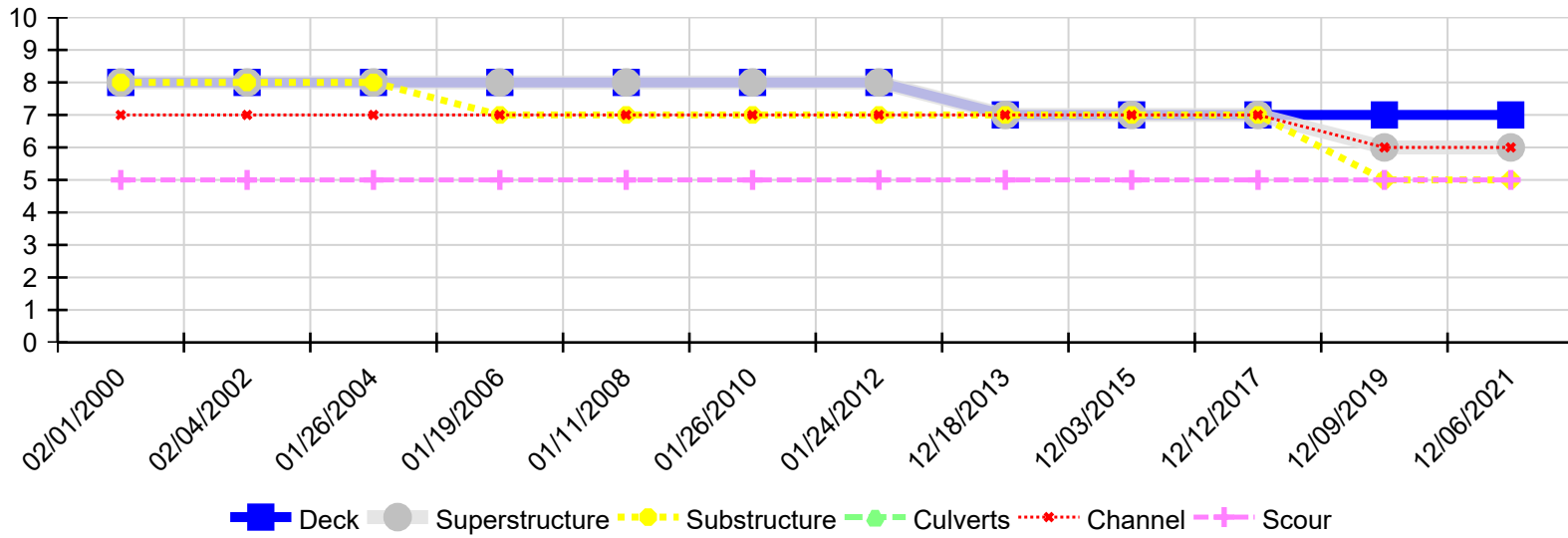
Asset #03033(Routine, Underwater type 2)

Sh-42/Sec-2/L-4.53 over Overcup Creek

Location: 2 Miles East Of Jct Us 49

Team Lead: Myron Futrell, Inspection Date: 12/06/2021

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
12/06/2021	7	6	5	N	6	5
12/09/2019	7	6	5	N	6	5
12/12/2017	7	7	7	N	7	5
12/03/2015	7	7	7	N	7	5
12/18/2013	7	7	7	N	7	5
01/24/2012	8	8	7	N	7	5
01/26/2010	8	8	7	N	7	5
01/11/2008	8	8	7	N	7	5
01/19/2006	8	8	7	N	7	5
01/26/2004	8	8	8	N	7	5
02/04/2002	8	8	8	N	7	5
02/01/2000	8	8	8	N	7	5