

Bridge Inspection Report

01547
US 82 S7 LM 1.26
over
LAPILE CREEK



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

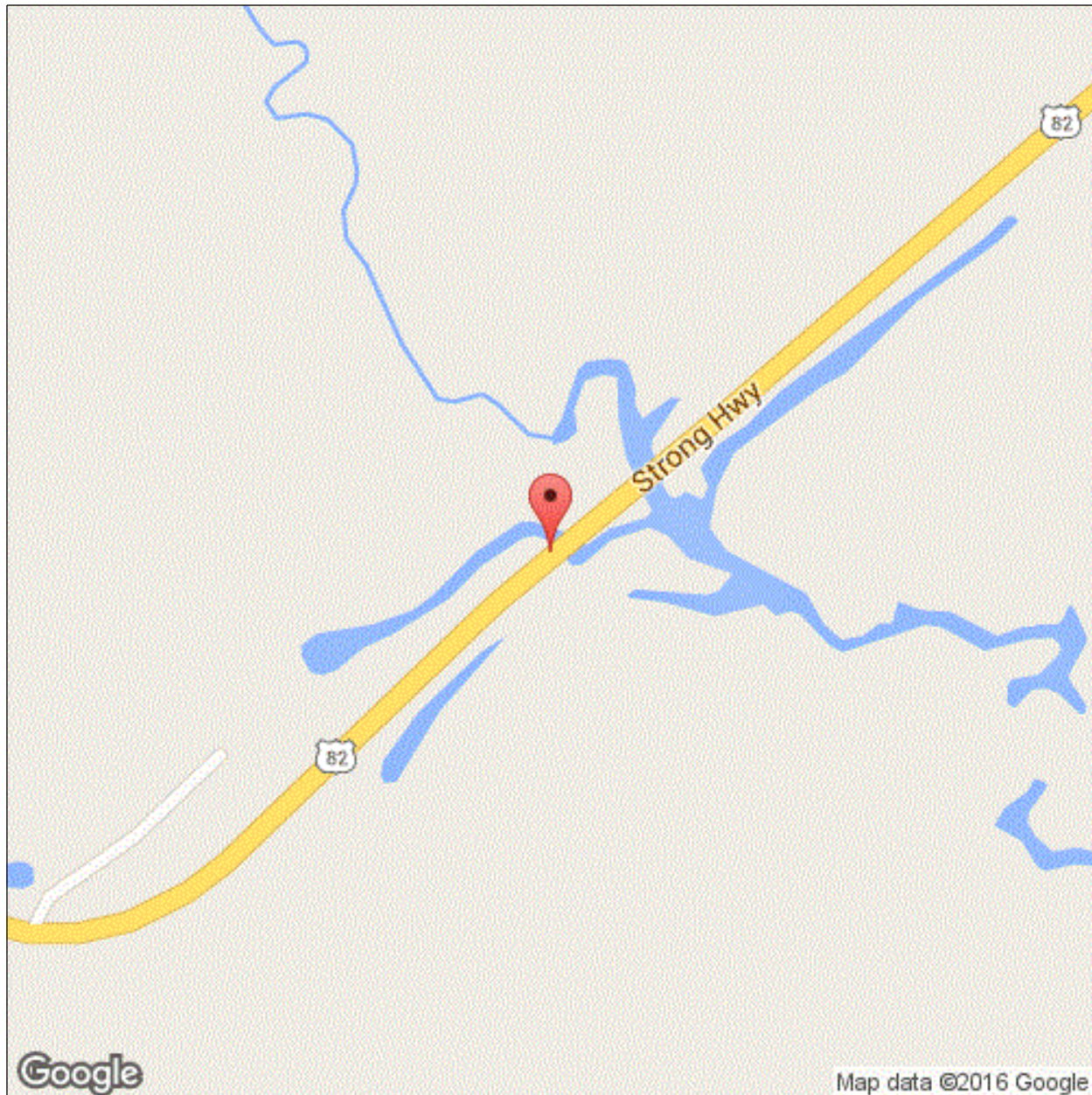
Structure Number: 01547

Inspection Date:

Facility Carried: US 82 S7 LM 1.26

Bridge Inspection Report

Location Map



Latitude: 33.10573

Longitude: -92.33937

Inspector:

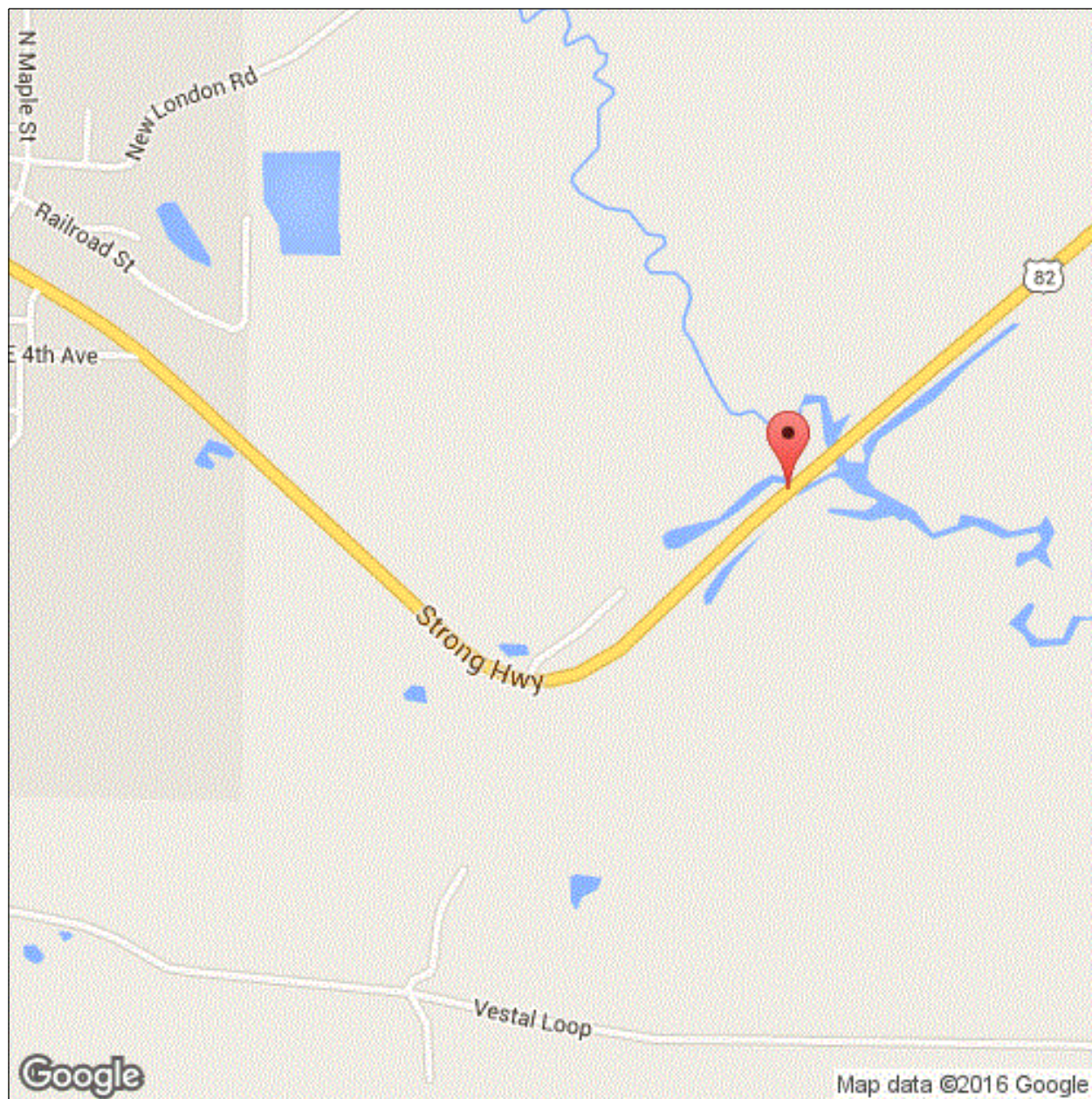
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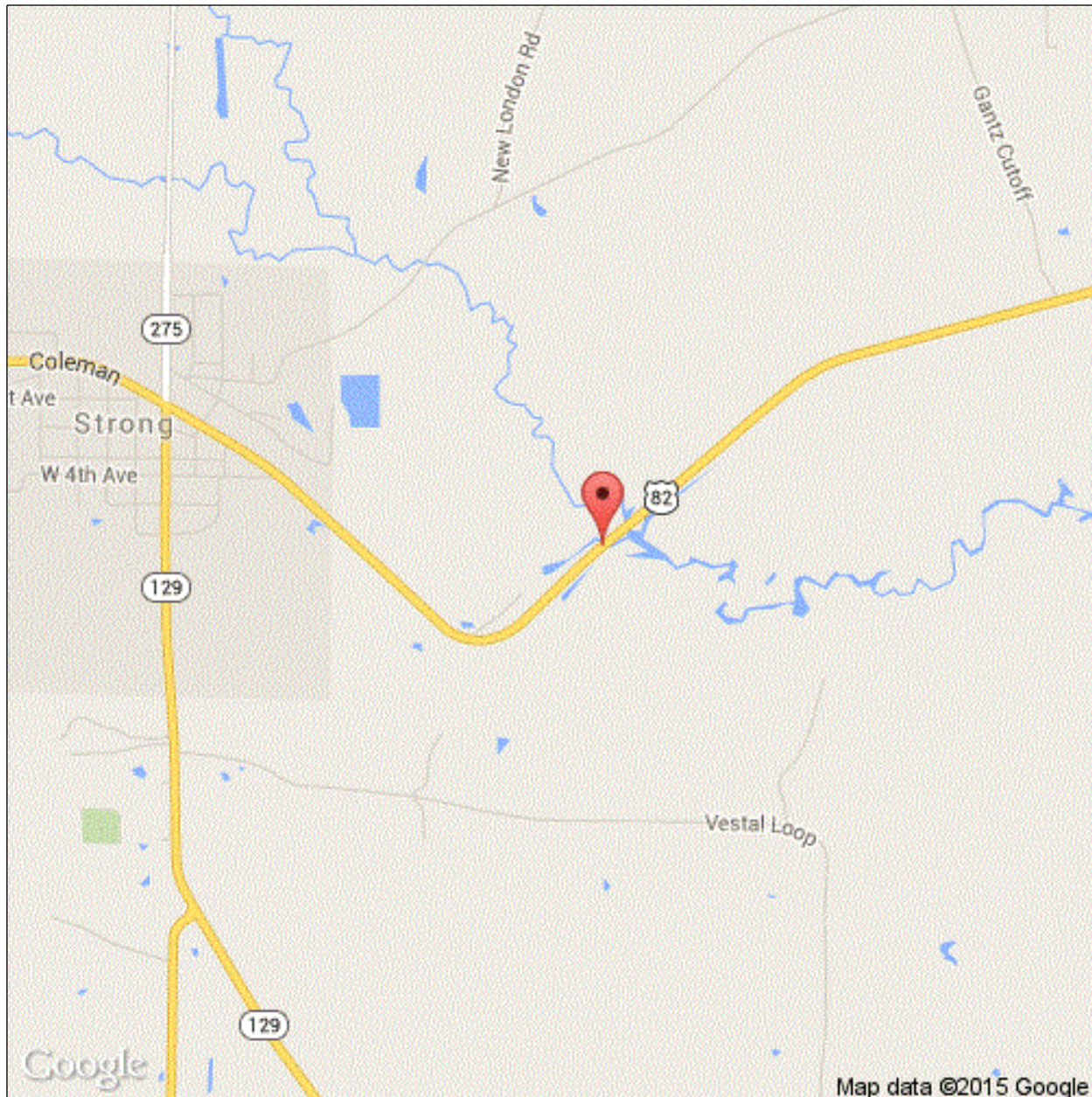
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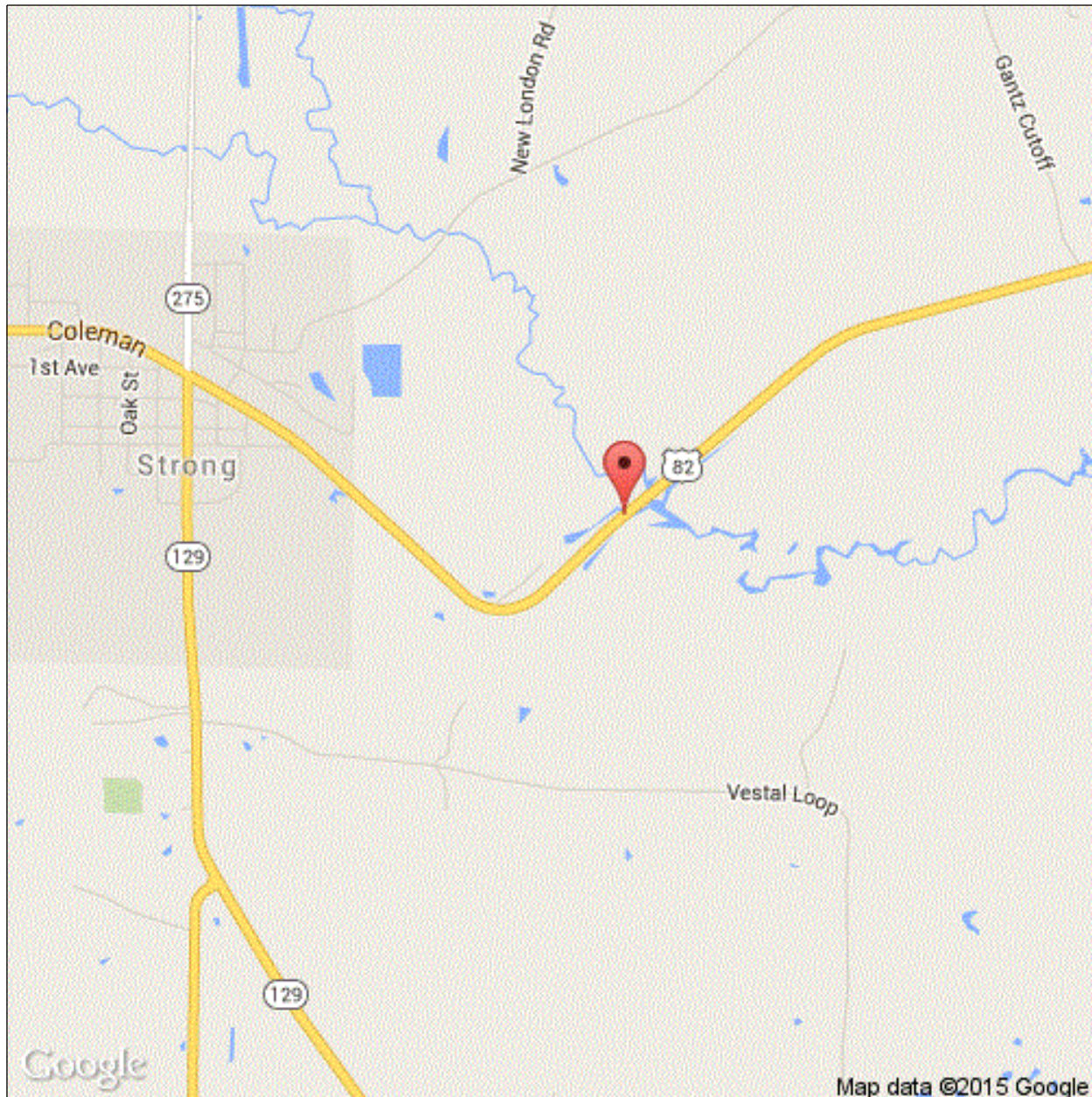
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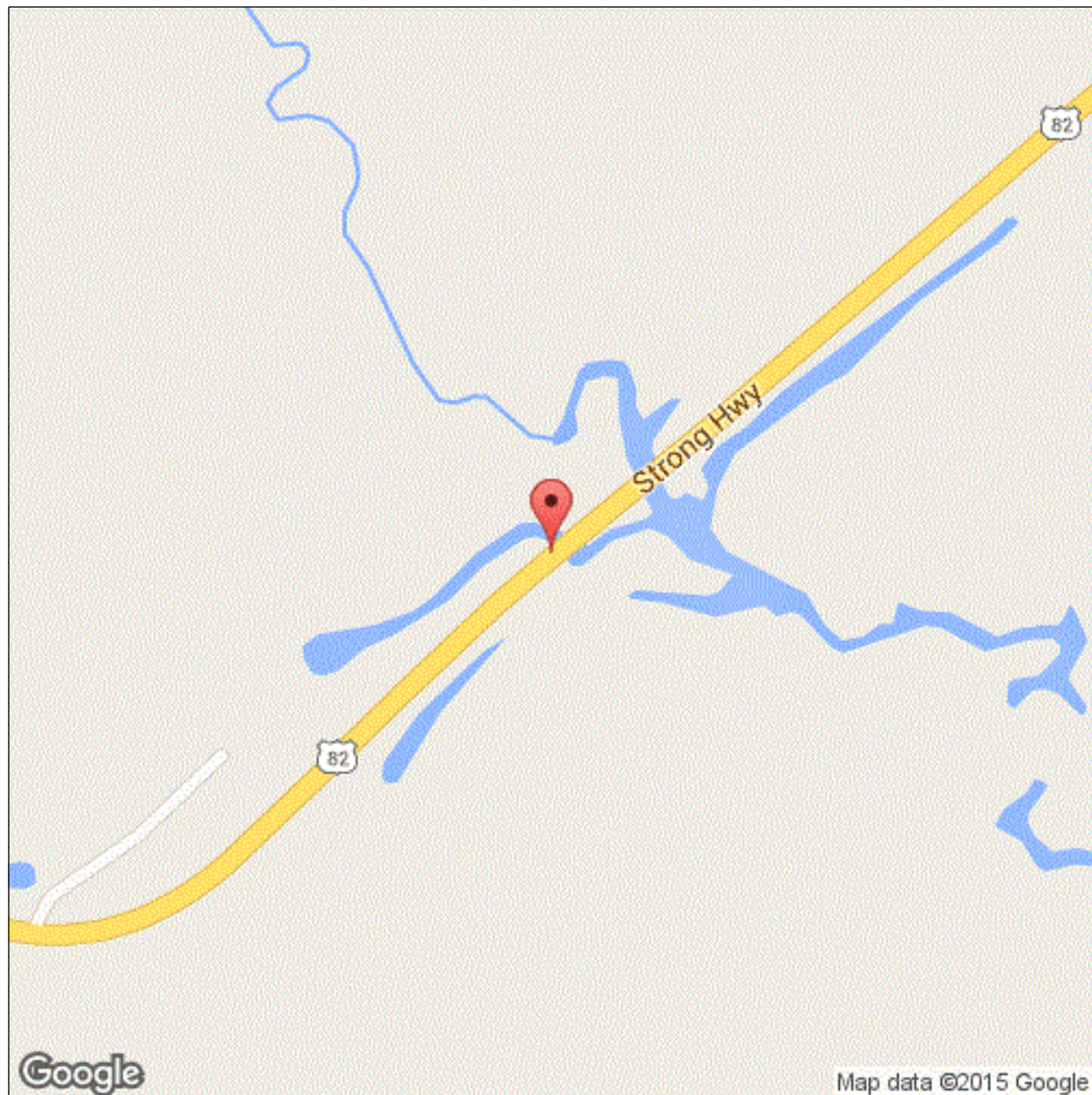
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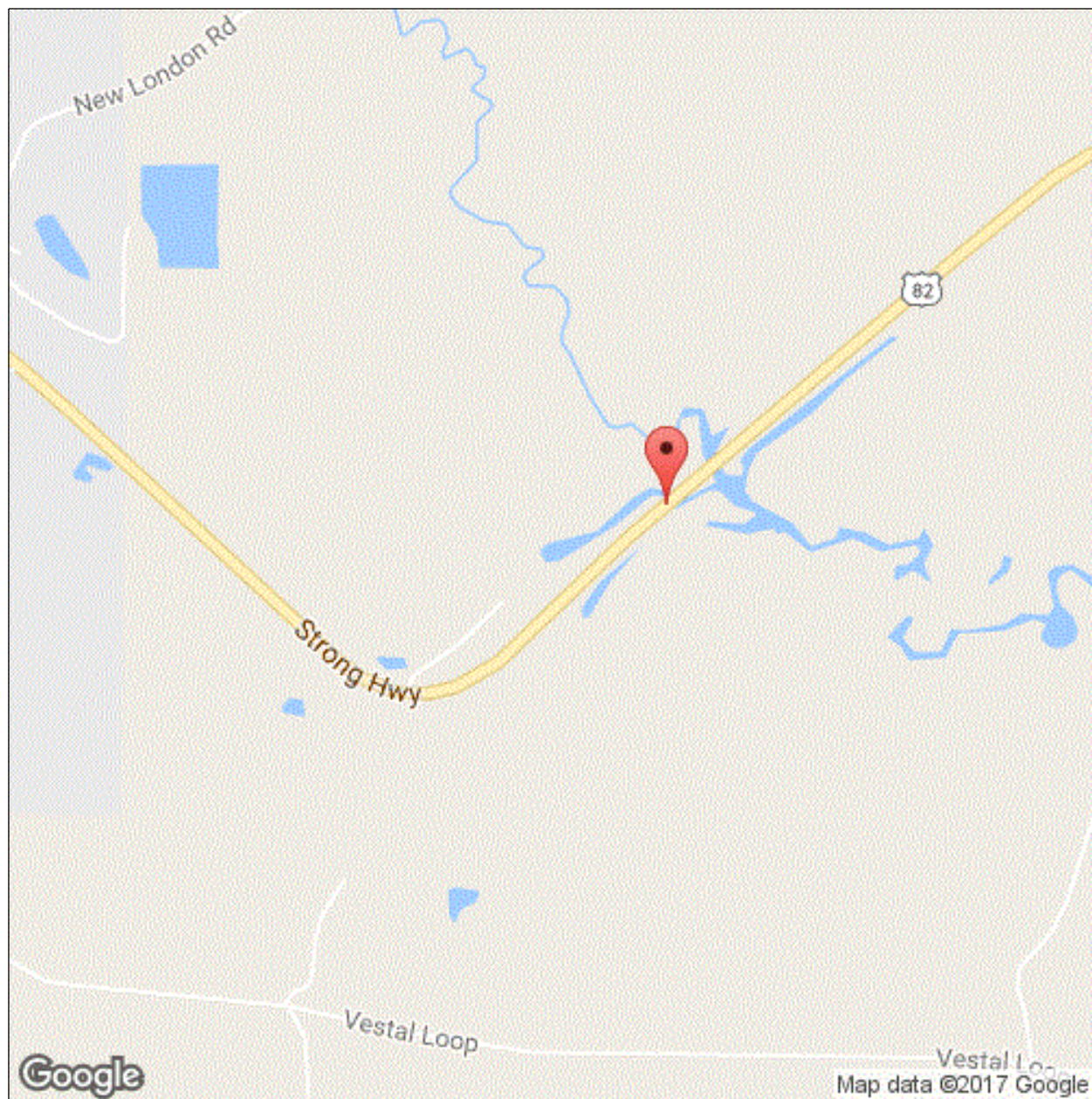
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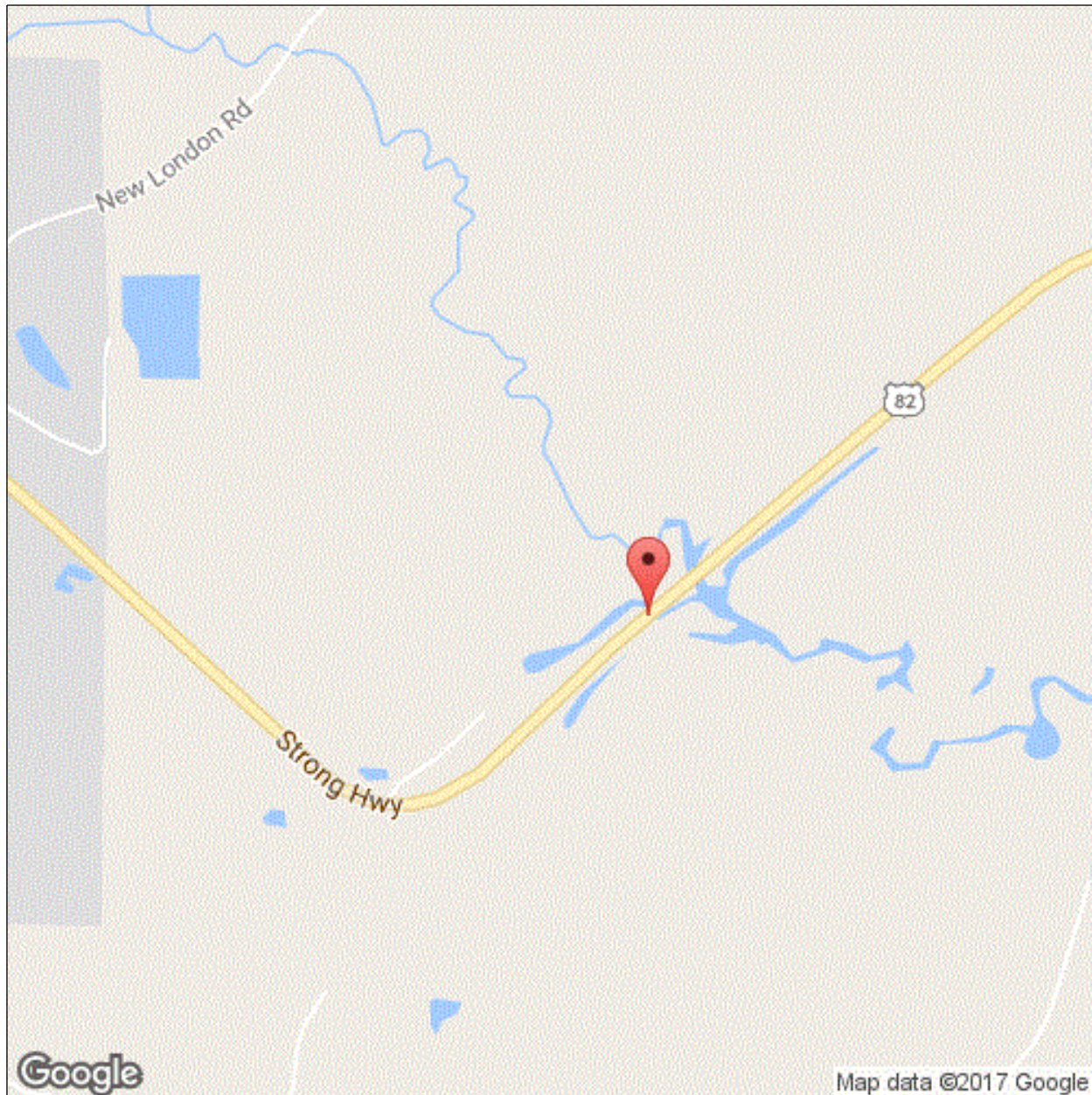
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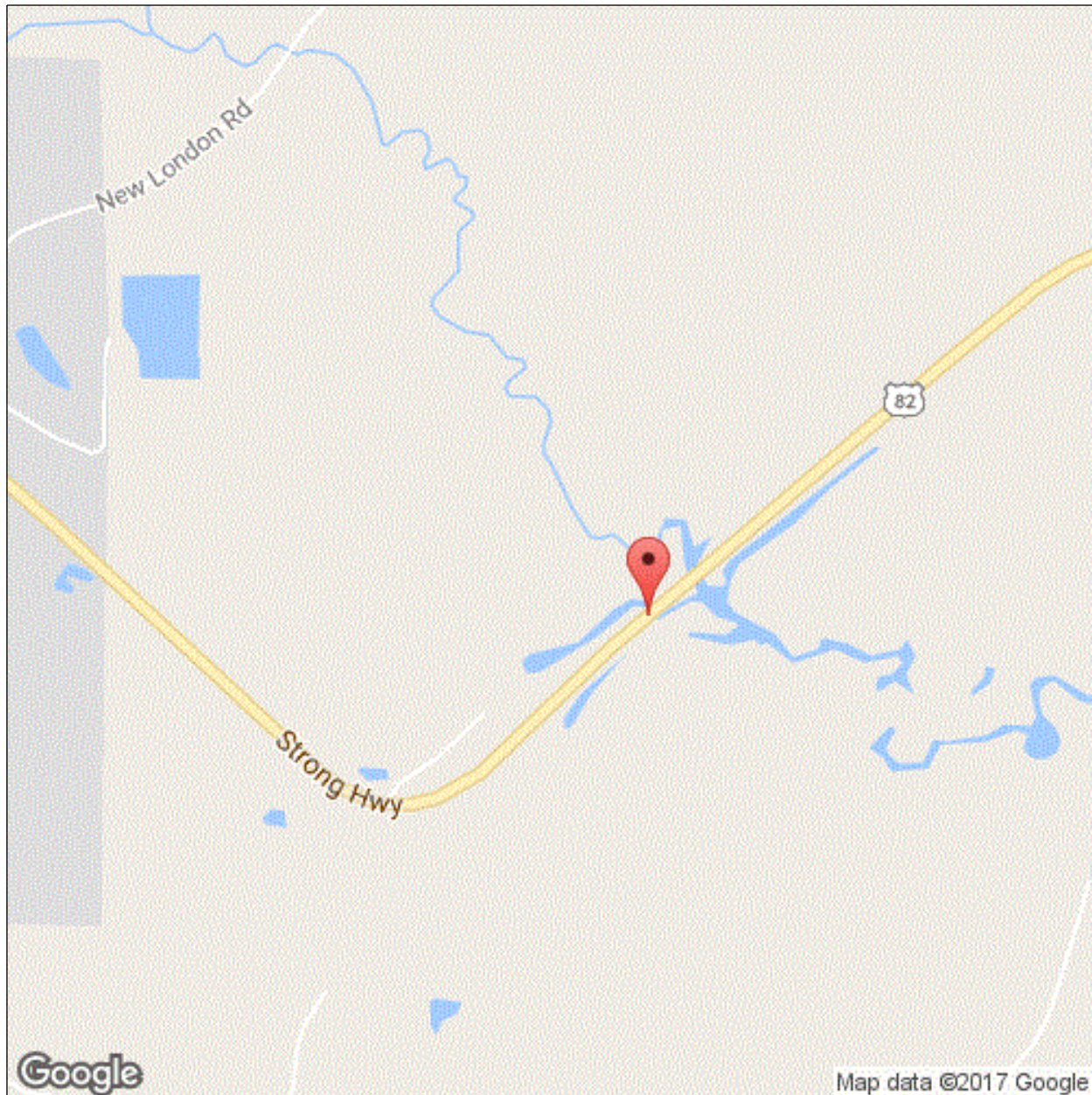
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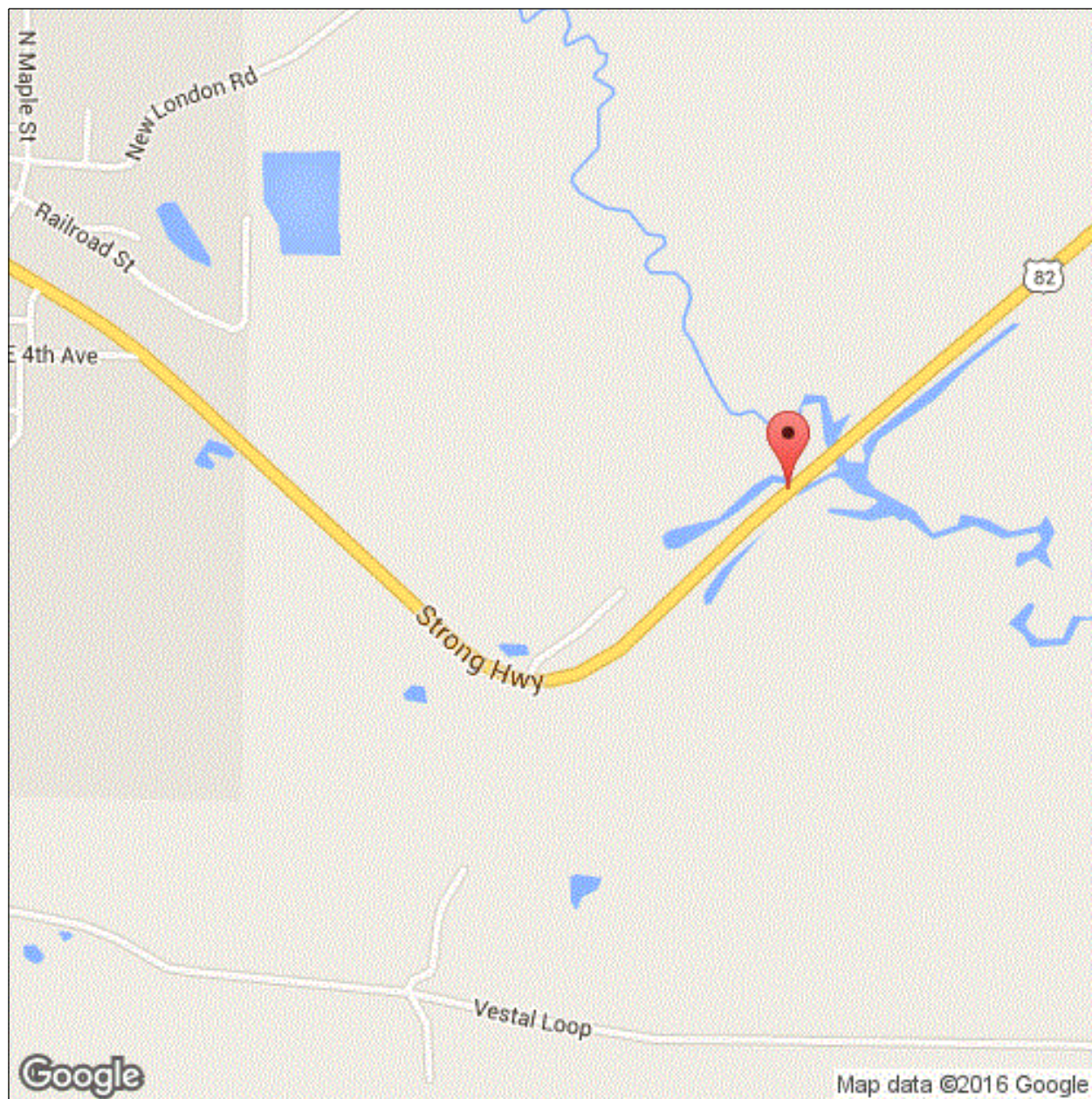
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Bridge Inspection Report

Executive Summary

Logged west to east.

SPOA requires that post flood monitoring be done when trigger of water stage of 91' is reached and water stage on 3/11/2015 was 97.16'. There was little change in the soundings from 2012 inspection. 07-27-2017 Special recurring inspection for scour POA. Sounded to top of parapet. Little change since last flood event. RHS.

Inspector:

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Facility Carried: US 82 S7 LM 1.26

Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	06/06/2018
(8) STRUCTURE NUMBER	01547	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 2 1 82 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	07 (3) COUNTY CODE 139	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	LAPILE CREEK	C. OTHER SPECIAL	Y 24 06/19/2019
(7) FACILITY CARRIED	US 82 S7 LM 1.26		
(9) LOCATION	1.26 MI E OF STRONG		
(11) MILEPOINT 1.260	(12) BASE HIGHWAY NETWORK 1		
(13A) LRS INVENTORY ROUTE	0000082070 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 33.10573	(17) LONGITUDE -92.33937		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	6
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE	7
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(60) SUBSTRUCTURE	6
(44) STRUCTURE TYPE, APPROACH SPANS		(61) CHANNEL & CHANNEL PROTECTION	7
A) KIND OF MATERIAL/DESIGN: 1 - Concrete		(62) CULVERT	N
B) TYPE OF DESIGN/CONSTR: 01 - Slab			
(45) NUMBER OF SPANS IN MAIN 1	(46) NUMBER OF APPROACH 11		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 1		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1931	(106) YEAR RECONSTRUCTED 1978	(31) DESIGN LOAD	5
(42) TYPE OF SERVICE ON 1	UNDER 5	(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02	UNDER 00	(64) OPERATING RATING	58.0
(29) AVERAGE DAILY TRAFFIC 2800	(19) BYPASS DETOUR LENGTH 46	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	35.1
(109) AVERAGE DAILY TRUCK TRAFFIC 1		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 50	(49) STRUCTURE LENGTH (ft.) 435	(67) STRUCTURAL EVALUATION	6
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 0	RIGHT 0	(68) DECK GEOMETRY	7
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	44.0	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.)	46.7	(71) WATERWAY ADEQUACY	7
(32) APPROACH ROADWAY WIDTH (ft.)	44.0	(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 0	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	36A) BRIDGE RAILINGS:	1
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	45.3	36B) TRANSITIONS:	1
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99.99	36C) APPROACH GUARDRAIL:	1
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	36D) APPROACH GUARDRAIL ENDS:	1
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(113) SCOUR CRITICAL BRIDGES	3
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	SUFFICIENCY RATING	89.9 STATUS 0
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1
(94) BRIDGE IMPROVEMENT COST (\$)	0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	02
(95) ROADWAY IMPROVEMENT COST (\$)	0	(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST	0	(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE		(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 3305	(115) YEAR OF FUTURE ADT 2028	(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	1
		(20) TOLL	3
		(21) MAINTENANCE RESPONSIBILITY	01
		(22) OWNER	01
		(37) HISTORICAL	5
		NAVIGATION DATA	
		(38) NAVIGATION CONTROL	0
		(111) PIER OR ABUTMENT PROTECTION	1
		(39) NAV VERT CLEARANCE (ft.)	0
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0

Inspector:

Structure Number: 01547

Inspection Date:

Facility Carried: US 82 S7 LM 1.26

Bridge Inspection Report

Element Inspection

Rollup

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	1296	sq. ft.	1203	93	0	0
16 - Reinforced Concrete Top Flange	1- Ben.	9374	sq. ft.	7208	2010	156	0
38 - Reinforced Concrete Slab	1- Ben.	10005	sq. ft.	9272	729	4	0
107 - Steel Open Girder/Beam	1- Ben.	150	ft.	150	0	0	0
515 - Steel Protective Coating		925	sq. ft.	925	0	0	0
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	1744	ft.	1744	0	0	0
210 - Reinforced Concrete Pier Wall	1- Ben.	4	ft.	3	1	0	0
6000 - Scour		1		0	1	0	0
227 - Reinforced Concrete Pile	1- Ben.	82	each	82	0	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	585	ft.	585	0	0	0
301 - Pourable Joint Seal	1- Ben.	278	ft.	0	278	0	0
302 - Compression Joint Seal	1- Ben.	50	ft.	0	50	0	0
311 - Movable Bearing	1- Ben.	44	each	44	0	0	0
313 - Fixed Bearing	1- Ben.	44	each	44	0	0	0
321 - Reinforced Concrete Approach Slab	1- Ben.	1530	sq. ft.	1530	0	0	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	870	ft.	870	0	0	0

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Bridge Inspection Report

Element Inspection

Main

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	1296	sq. ft.	1203	93	0	0
1130 - Cracking (RC and Other)		93		0	93	0	0
16 - Reinforced Concrete Top Flange	1- Ben.	1075	sq. ft.	885	190	0	0
1130 - Cracking (RC and Other)		190		0	190	0	0
107 - Steel Open Girder/Beam	1- Ben.	150	ft.	150	0	0	0
515 - Steel Protective Coating		925	sq. ft.	925	0	0	0
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	200	ft.	200	0	0	0
210 - Reinforced Concrete Pier Wall	1- Ben.	4	ft.	3	1	0	0
Bents 10-11. Scour hole along back of the pier wall @ Bent 10 right. Slope protection has eroded and is missing. This structure is Scour Critical and is on the Scour POA.							
6000 - Scour		1		0	1	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	90	ft.	90	0	0	0
301 - Pourable Joint Seal	1- Ben.	44	ft.	0	44	0	0
2310 - Leakage		28		0	28	0	0
2330 - Seal Damage		16		0	16	0	0
302 - Compression Joint Seal	1- Ben.	50	ft.	0	50	0	0
2340 - Seal Cracking		25		0	25	0	0
7000 - Damage		25		0	25	0	0
311 - Movable Bearing	1- Ben.	44	each	44	0	0	0
313 - Fixed Bearing	1- Ben.	44	each	44	0	0	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	100	ft.	100	0	0	0

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Bridge Inspection Report

Element Inspection

Approach

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
16 - Reinforced Concrete Top Flange	1- Ben.	8299	sq. ft.	6323	1820	156	0
Span 1-has 100' of cracks Span 2-has 160' of cracks Span 3-has 130' of cracks Span 4-has 240' of cracks Span 5-has 230' of cracks Span 7-has 130' of cracks Span 8-has 145' of cracks Most of the deck patches have cracked and are not sound.							
1080 - Delamination/Spall/Patched Area		841		0	685	156	0
1130 - Cracking (RC and Other)		1135		0	1135	0	0
38 - Reinforced Concrete Slab	1- Ben.	10005	sq. ft.	9272	729	4	0
Span 1-has 67' of cracks Span 2-has 92' of cracks Span 3-has 90' of cracks Span 4-has 130' of cracks Span 5-has 210' of cracks Span 7-has 60' of cracks Span 8-has 80' of cracks							
1080 - Delamination/Spall/Patched Area		4		0	0	4	0
1130 - Cracking (RC and Other)		729		0	729	0	0
110 - Reinforced Concrete Open Girder/Beam	1- Ben.	1544	ft.	1544	0	0	0
227 - Reinforced Concrete Pile	1- Ben.	82	each	82	0	0	0
234 - Reinforced Concrete Pier Cap	1- Ben.	495	ft.	495	0	0	0
301 - Pourable Joint Seal	1- Ben.	234	ft.	0	234	0	0
2310 - Leakage		117		0	117	0	0
2320 - Seal Adhesion		117		0	117	0	0
321 - Reinforced Concrete Approach Slab	1- Ben.	1530	sq. ft.	1530	0	0	0
331 - Reinforced Concrete Bridge Railing	1- Ben.	770	ft.	770	0	0	0

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Bridge Inspection Report

Pictures

PHOTO 1

Description

PHOTO 1

Description

Inspector:

Inspection Date:

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Bridge Inspection Report

Pictures

PHOTO 1

Description 01547_POA_2019

PHOTO 2

Description

Inspector:

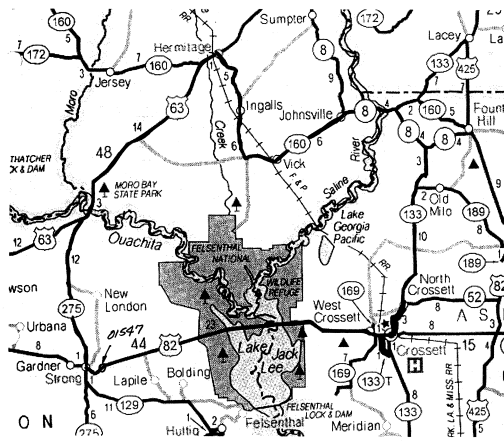
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Bridge Inspection Report

Pictures



Detective Route - Hwy 133, Hwy 8, Hwy 160, Hwy 63, Hwy 275

PHOTO 2

Description 01547det2.tif

PHOTO 3

Description

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Bridge Inspection Report

Pictures

PHOTO 3

Description

PHOTO 4

Description B#01547 piling records (widening).pdf

Inspector:

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Bridge Inspection Report

Sketches

Inspector:

Structure Number: 01547

Inspection Date:

Facility Carried: US 82 S7 LM 1.26

Bridge Inspection Report

Maintenance Needs

Date Reported: 6/11/2014 12:00:00 AM

Priority: D - Routine

Work Code:

Deficiency Description:

Old skin patched areas are cracked and losing bond.

06/23/2016 JPR -- Span 4 Left side has large cracks with some minor spalls between the cracks.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Assigned

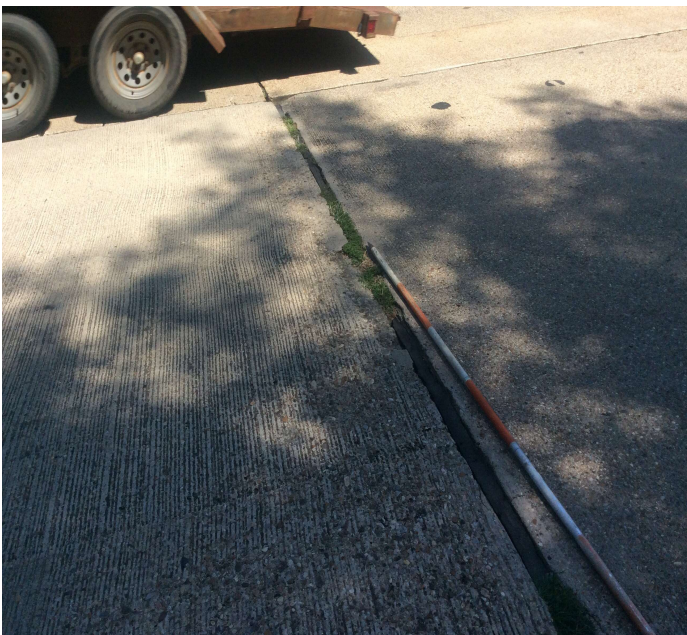


PHOTO 1 Description

Stage: Assigned



PHOTO 2 Description

Inspector:

Structure Number: 01547

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 03/23/2015

Priority: D - Routine

Work Code:

Deficiency Description:

Scour hole under Abutment 1 Rt. side goes under the approach gutter, this scour also comes under abut. 1 cap.

Work Description:

Date Repairs Completed:

Maintenance Comments:

This maintenance need is a duplicate of one from 06/27/2012.

Stage: Open



PHOTO 1 Description Scour hole under approach gutter Rt. side back of abut. 1.

Stage: Open



PHOTO 2 Description

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 03/23/2015

Priority: D - Routine

Work Code:

Deficiency Description:

Scour hole behind 2nd guard rail post @ Abut. 2 Rt., ahead of the Br. end, this hole goes down and back under the approach gutter. There is also a minor scour hole @ abut. 2 cap on the Rt. side.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

Stage: Open



PHOTO 2 Description

Inspector:

Inspection Date:

Structure Number: 01547

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Bridge Inspection Report

Maintenance Needs

Stage: Forward State



PHOTO 3 Description

Inspector:

Structure Number: 01547

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 06/23/2016

Priority: C - Important

Work Code:

Deficiency Description:

Span 8 at previous patch, deck patch is cracking and beginning to spall, this patch is in the wheel path of both sets of wheels.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

Inspector:

Structure Number: 01547

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Bridge Inspection Report

Maintenance Needs

Date Reported: 06/29/2016

Priority: D - Routine

Work Code:

Deficiency Description:

All drain openings both sides are either partially or completely stopped up.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description

Inspector:

Structure Number: 01547

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Bridge Inspection Report

Maintenance Needs

Date Reported: 06/27/2017

Priority: C - Important

Work Code:

Deficiency Description:

Scour hole along back of the pier wall @ Bent 10 right. Slope protection has eroded and is missing. This structure is Scour Critical and is on the Scour POA.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Monitor



PHOTO 1 Description