

Drainage Advisory Committee

PROJECT REPORT

DATE:	6/8/23
NAME	Patrick Wilson, PE, CFM, Stormwater Division Manager, City of Broken Arrow
ADDRESS / LOCATION	901-913 W Fargo Dr, Broken Arrow, OK
WATERSHED	Haikey Creek
ESTIMATE	\$55,000.00
CASE NO.	23-002

DESCRIPTION

The proposed project location is in the Stone Wood Crossing Subdivision north of E Albany St and west of N Elm Pl.

From 901-913 W Fargo Dr, there appears to be groundwater seeping through driveways and sidewalks into the gutter and street. Observations noted most residents in the area have installed French drains to help drain the yards. The groundwater contains iron, which has turned the driveways and sidewalks red. The iron in the groundwater has also caused algae to form in certain areas, causing a potential slipping hazard.

The estimated construction cost to repair the sidewalks, driveways, and install the drainage system is \$55,000.

BENEFIT

Remove the water from the sidewalk eliminating the potential pedestrian hazard.

RECOMMENDATION

Installation of a French drain under the sidewalk to transport the groundwater to the storm sewer system.

COMPLETED BY: Patrick P. Wilson

DATE: 6/8/23



Drainage Advisory Committee

APPLICATION

DATE:	17 May 2023
OWNER NAME:	City of Broken Arrow Engineering Dept
PHONE NUMBER:	918-259-7000
EMAIL ADDRESS:	nkohl@brokenarrowok.gov
OWNER MAILING ADDRESS:	485 N Poplar Ave, Broken Arrow, OK 74012
ADDRESS OF PROPERTY WITH DRAINAGE PROBLEM:	901-913 W Fargo Dr, Broken Arrow, OK, 74012
LOCATION OF DRAINAGE ISSUE ON PROPERTY:	Driveways, sidewalks, and street gutters

DESCRIPTION OF PROBLEM: (*PHOTOS SHOULD ACCOMPANY APPLICATION)

There is suspected groundwater coming from under the driveways and sidewalks. There is groundwater coming from the french drains of the homes along W Fargo Drive. The groundwater contains iron turning the concrete red. There is also algea forming in the gutter and on the bottom of driveways, causing potential slipping hazard

Signature:

RETURN TO STORMWATER DIVISION MANAGER'S OFFICE, PO BOX 610 Broken Arrow, OK 74013

Stormwater Utility Map



6/8/2023, 1:00:19 PM Sections (PLSS) YES State-Federal Private Inlet Manhole Stormwater Lines Stormwater Structures (Private) Blue Line Streams (ODOT) State-Federal Manhole Inlet **Dentention Ponds Broken Arrow** Inlet State-Federal Inlet Other NO State-Federal Inlet State-Federal Manhole Other

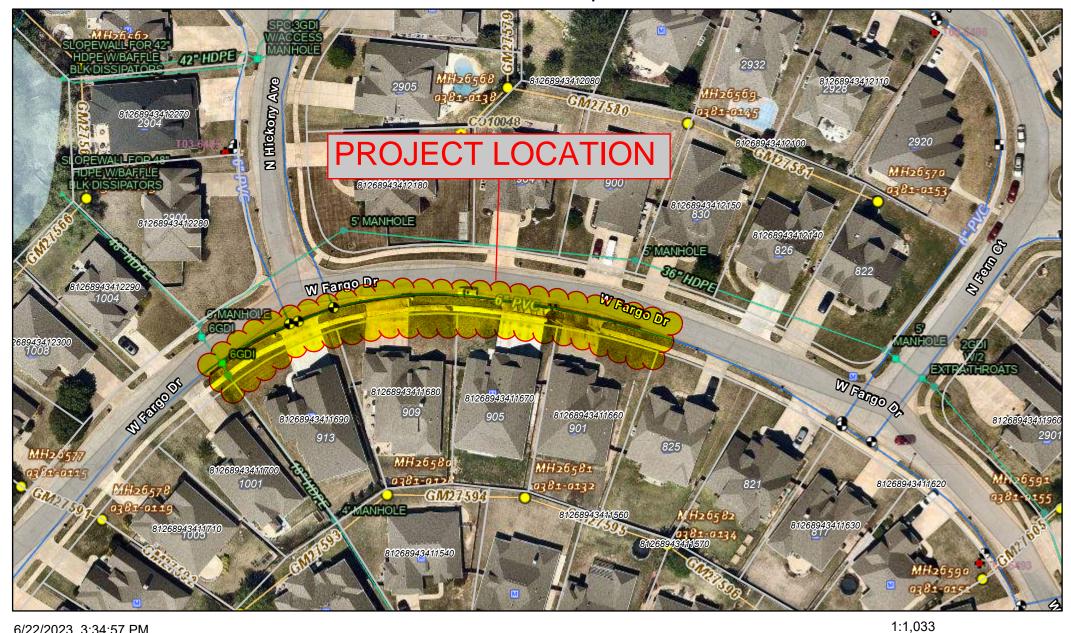
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Location Map



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 ,,					0 0.01 0.01 0.02 mi
Parcels	Dentention Ponds	Stormwater St	ructures 🔺 Other	CleanOut	
Sections (PLSS)	NO	Inlet	GravityMain	No Inspection	0 0.01 0.02 0.04 km
 Blue Line Streams (ODOT)	Stormwater Lines	Inlet	Polyvinyl Ch	loride Mains	Copyright nearmap 2015, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, City of Tulsa, US Census Bureau, INCOG, & unknown, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap
Address Points	Broken Arrow	Manhol	e Manhole	Polyvinyl Chloride	contributors, and the GIS User Community, City of Broken Arrow Geospatial
			No Inspectio	on 🛛 📕 Service Meters	City of Broken Arrow

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Stormwater Utility Map



6/1/2023, 10:53:04 AM

Parcels	Dentention Ponds	Stormwater Structures	•	Manhole	GravityMain	CleanOut	0 0.01 0.01 0.03 mi
Sections (PLSS)	NO	Inlet		Other	Polyvinyl Chloride	 No Inspection 	0 0.01 0.03 0.06 km Copyright nearmap 2015, Source: Esri, Maxar, Earthstar Geographics, and the
Blue Line Streams (ODOT)	Stormwater Lines	Inlet		Other	Manhole	Mains	GIS User Community City of Tulsa, US Census Bureau, INCOG, & unknown, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap
Address Points	Broken Arrow	Manhole			No Inspection	Polyvinyl Chloride	contributors, and the GIS User Community, City of Broken Arrow Geospatial
						Service Meters	City of Broken Arrow

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Google Maps 909 W Fargo Dr

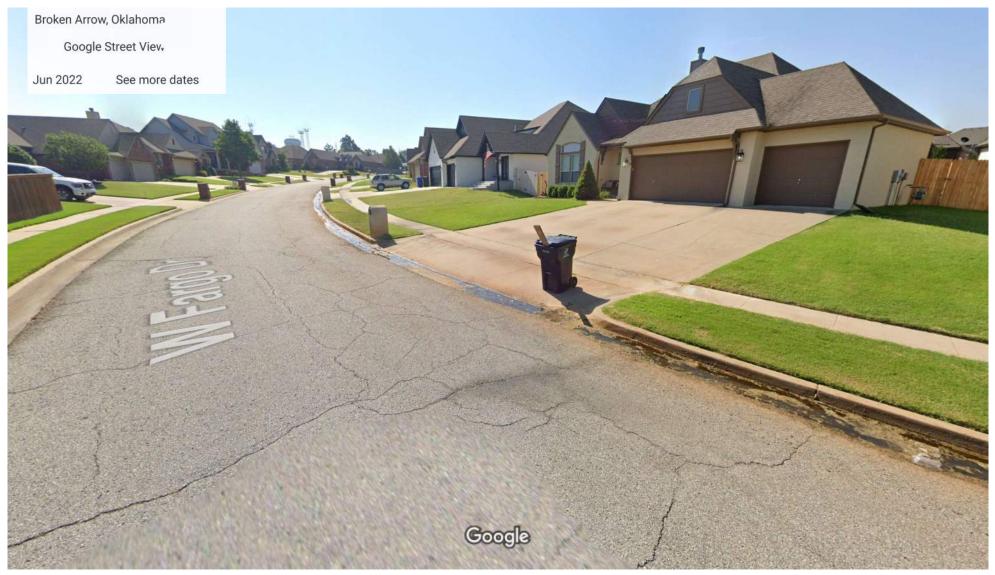


Image capture: Jun 2022 © 2023 Google

Google Maps 904 W Fargo Dr

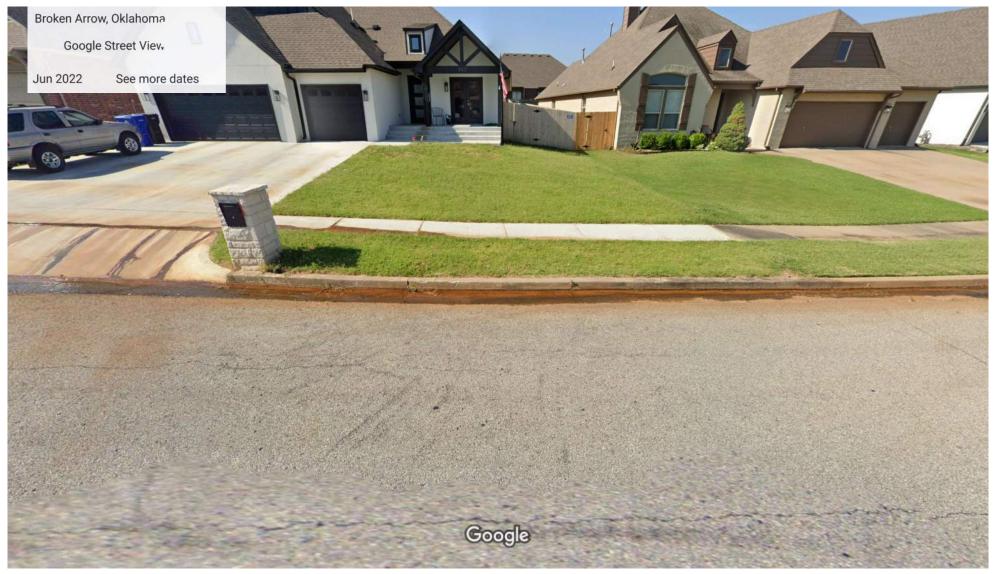


Image capture: Jun 2022 © 2023 Google



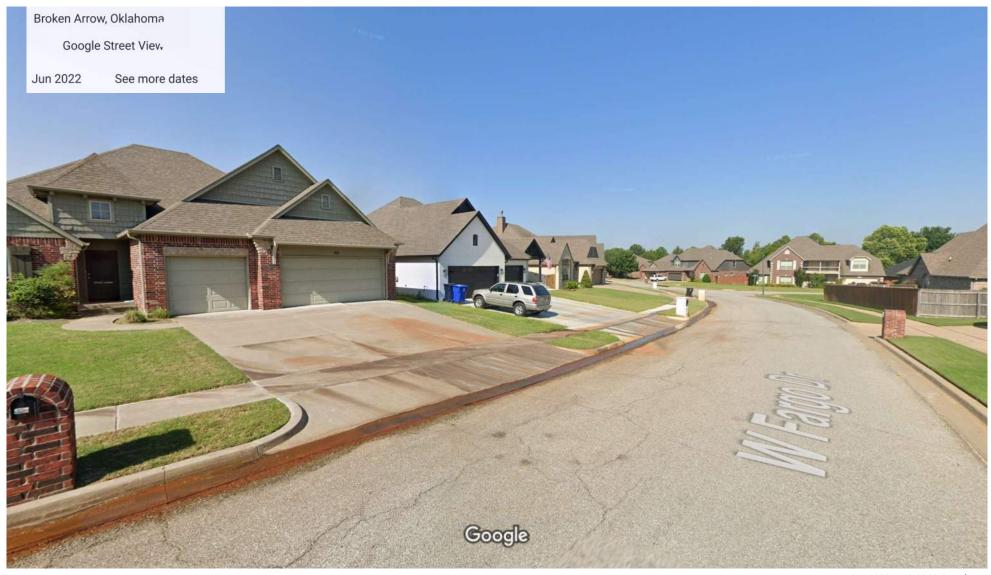


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