

City of Broken Arrow

Drainage Advisory Committee



PROJECT REPORT

DATE:	03/13/2026
NAME	Steven Jones
ADDRESS / LOCATION	413 W Freeport
WATERSHED	Haikey Creek
ESTIMATE	\$50,000.00
CASE NO.	26-008

DESCRIPTION

A citizen contacted the City asking for help regarding creek maintenance in their backyard. The applicant stated that the creek is overgrown and causes flooding into their backyard during heavy rain events.

This is in the Original Town of Broken Arrow; it was platted around 1906. Located at the corner of Freeport and Date Street. This creek has become overgrown and restricts the flow of water. The Creek drains into a concrete channel that runs along the Nursing Home and into the roadside ditch along N Elm Pl. Stream Stats estimates that 175 acres drain through this section of creek, with a peak 1% storm flow rate of 652 cubic feet per second.

The concept for this project is to contract with a landscaping company to come in and clear the channel to restore its functionality. If the project is approved and then completed the future maintenance responsibility of the channel will remain with the landowners.

Case No. 26-008

BENEFIT

Protection of multiple lots in the Rose District as well as a franchise utility

RECOMMENDATION

Expending funds to assist with clearing of the creek if all homes along the creek agree and grant access to their portion of the creek.

COMPLETED BY: David Reed

DATE:

Reed, David

From: BrokenArrowOK.gov webmaster <webmaster@brokenarrowok.gov>
Sent: Tuesday, March 10, 2026 3:11 PM
To: pwilson@brokenarrowok.gov; engineering.stormwater@brokenarrowok.gov
Subject: *NEW SUBMISSION* Drainage Advisory Committee Project Application

Drainage Advisory Committee Project Application

Submission #: 4679649
IP Address: 2600:8804:4d1e:5400:459e:e9af:3b57:eb46
Submission Date: 03/10/2026 3:11
Survey Time: 11 minutes, 27 seconds

You have a new online form submission.

Note: all answers displaying "*****" are marked as sensitive and must be viewed after your login.

Owner Name

Steven Jones

Phone

(906) 286-3244

Email

jonesjrsteven@yahoo.com

Owner Mailing Address

413 W Freeport St
Broken Arrow, OK 74012

Address of Property with Drainage Problem

413 W Freeport St
Broken Arrow, OK

Location of Drainage Issue on Property

Behind the address given

Description of Problem

The drainage creek behind my property needs major repairs, any time there is significant rain fall the creek gets clogged due to all the debris and trees. During any rain event the water has been measured as high as 18 inches deep in my back yard and has damaged my 6 foot privacy fence requiring repairs. This portion of the creek hasn't been maintained in years. I will give permission to access my property with any equipment needed to do the necessary work. Please contact me with any questions or a on site visit.
Thank You

Please attach photos depicting the Drainage Issue

[IMG_7854.jpeg](#)

Thank you,

City of Broken Arrow

This is an automated message generated by Granicus. Please do not reply directly to this email.

Aerial Map

Legend

W Kenosha St (71st St)

N Elm Place

Applicants property

W Freeport St

Main St



Aerial Map

Legend

N Elm Place

Applicants property

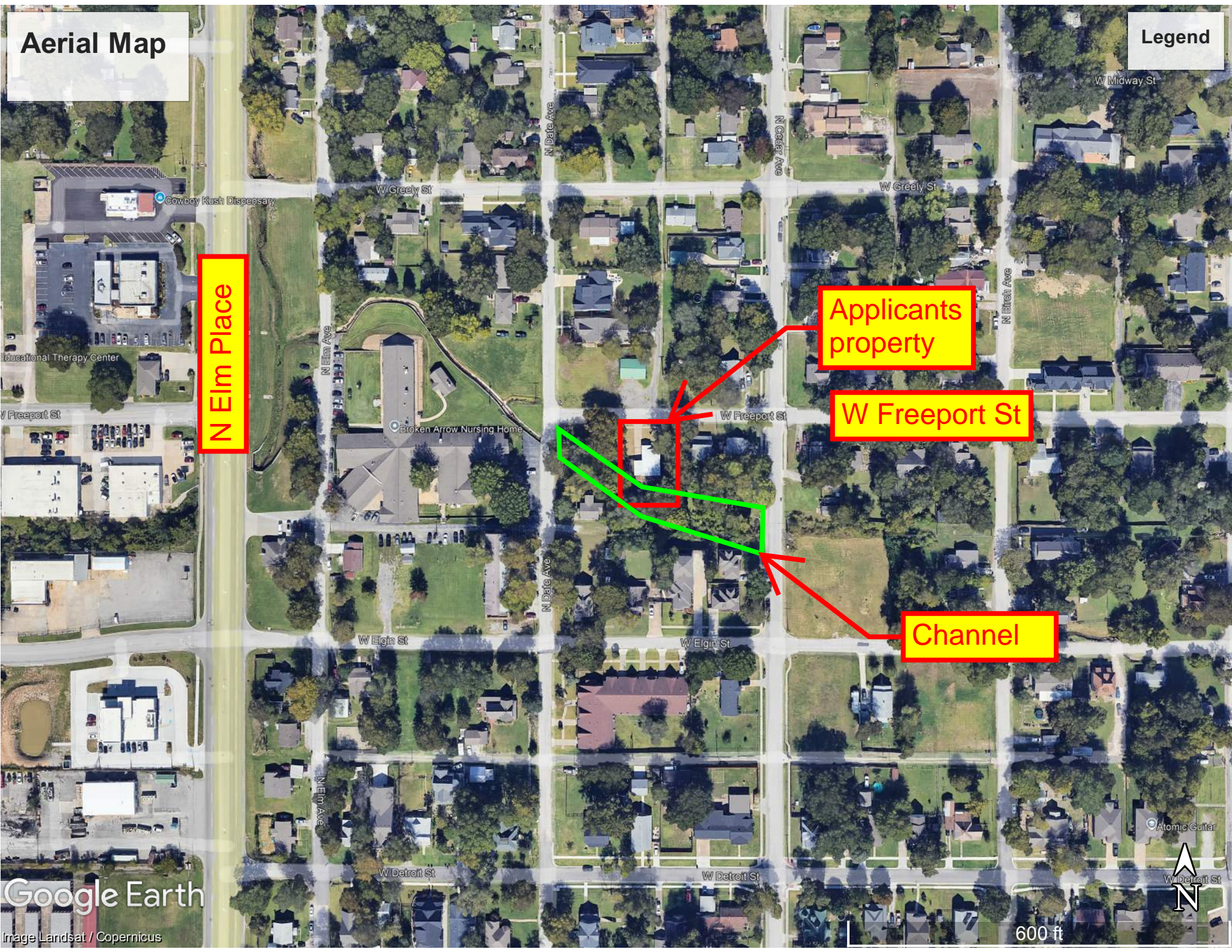
W Freeport St

Channel

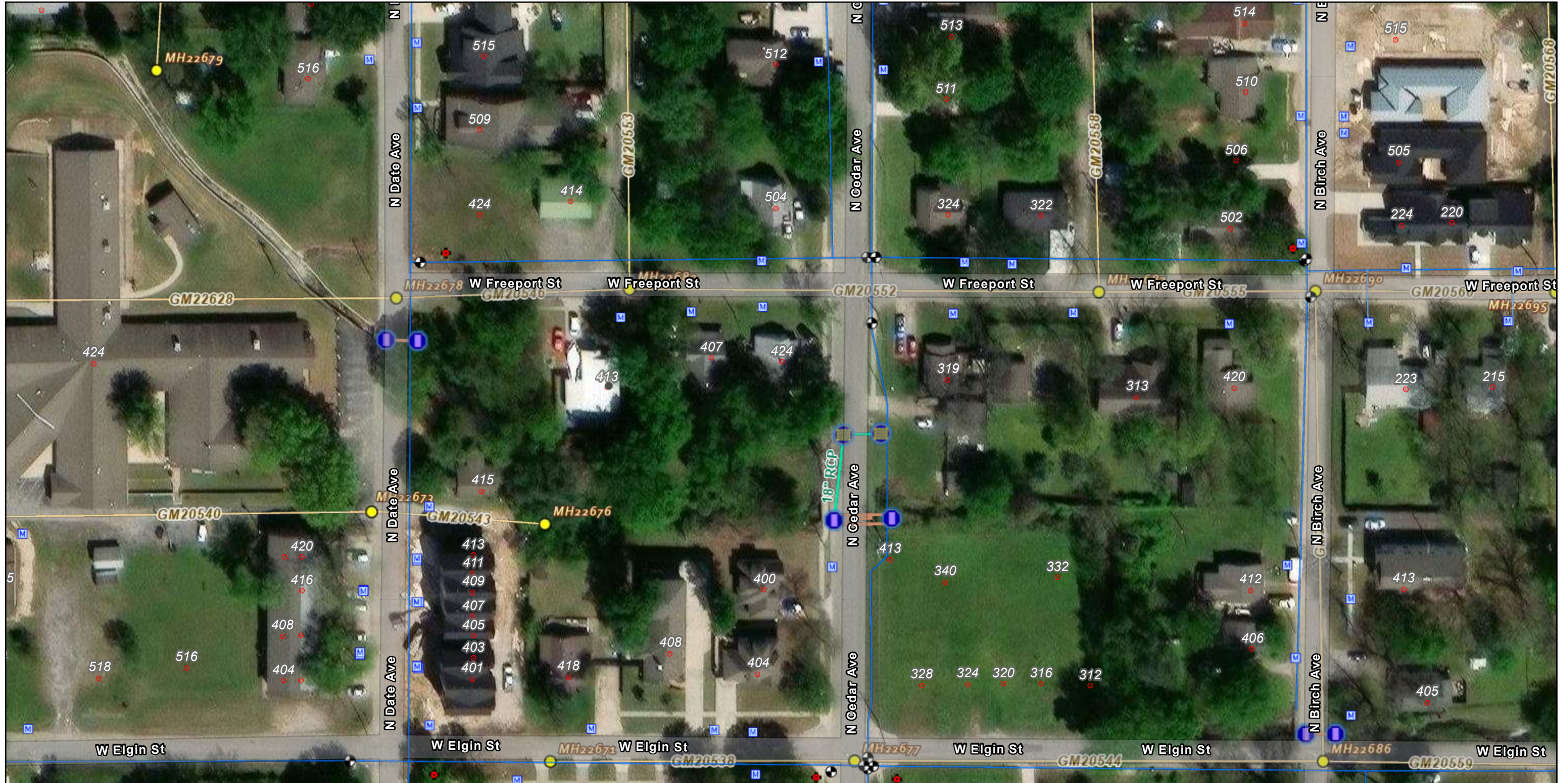
Google Earth

Image Landsat / Copernicus

600 ft



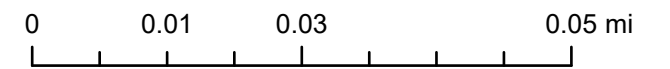
Stormwater Utility Map



4/22/2026 1:40 PM

- | | | | |
|---|---|---|--|
| <ul style="list-style-type: none"> ○ Address Points ▭ Creeks ▭ City Owned Detention Ponds ▭ Private Detention Ponds ▭ City Limits 2021 Mask — Streams Culvert — Unknown — Pipe Culvert — Pipe Arch Culvert | <ul style="list-style-type: none"> — Box Culvert — Arch Culvert — Bridge Culvert Linear Drain — Unknown — Trench Drain — Slotted Drain Open Channel — Unknown — Aquaduct Channel — Spillway Channel — Natural Channel — Ditch Channel — Roadside Gutter Pipe — Unknown | <ul style="list-style-type: none"> — Gravity — Force Main — Perforated BMP Inlet — Unknown — Apron Inlet — Pipe Inlet — Channel Inlet Open Channel — Unknown — Aquaduct Channel — Spillway Channel — Natural Channel — Ditch Channel — Roadside Gutter Pipe — Unknown | <ul style="list-style-type: none"> ○ BMP Point ◐ Unknown ◑ Detention ◒ Dry Basin ◓ Treatment ◔ Wet Basin ◕ Bed Filter |
|---|---|---|--|

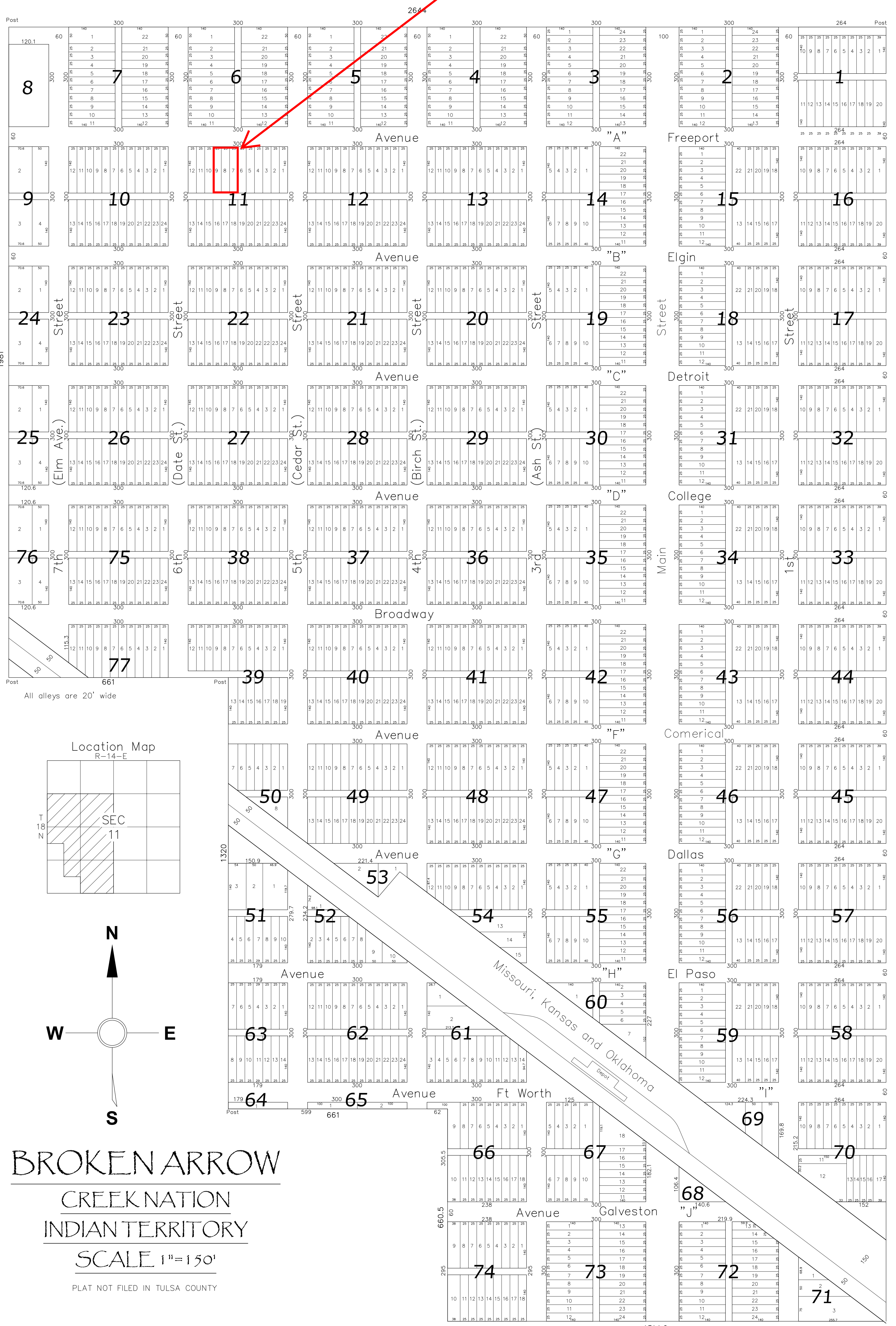
This map's utility information is for general purposes only. The City of Broken Arrow makes no warranties regarding its accuracy, completeness, or reliability. Use of this information is at risk.



Microsoft, Vantor, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community



Location of Property



BROKEN ARROW
CREEK NATION
INDIAN TERRITORY
SCALE 1" = 150'
 PLAT NOT FILED IN TULSA COUNTY



Citizen Post Storm Pictures





Debris line along fence



Section of Channel



View from upstream section of channel



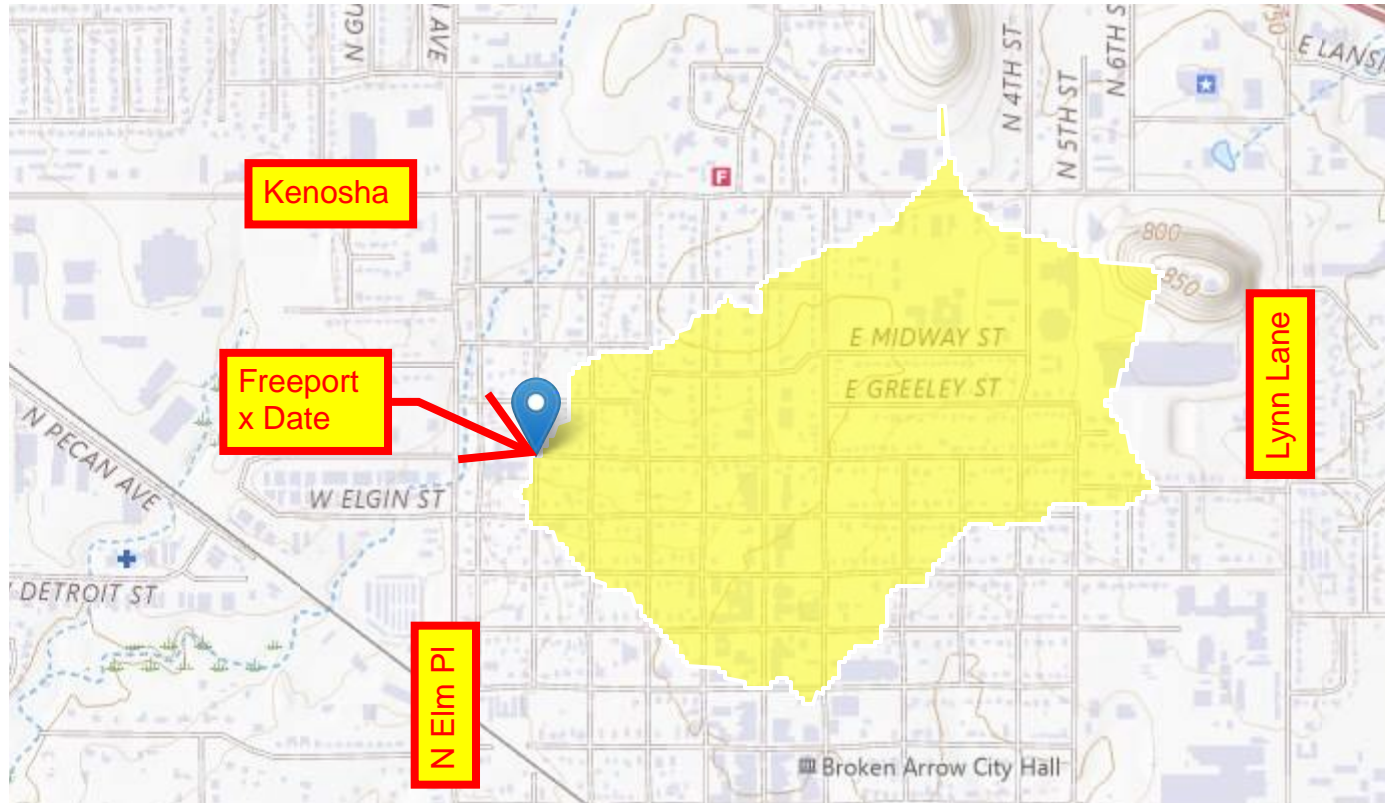
View from downstream section of channel

StreamStats Report

Region ID: OK

Clicked Point (Latitude, Longitude): 36.05642, -95.79572

Time: 2026-04-21 13:31:29 -0500



StreamStats Update

Starting with version 4.30.0, the StreamStats application uses services that were redeveloped with open-source software components. Users may observe minor variations in computed results when compared to those from previous versions. These differences are expected and do not reflect errors in the underlying data or analytical methods. Users are advised to consider these potential variations when interpreting or comparing results generated across different versions of StreamStats. Please email streamstats@usgs.gov with any questions or concerns. A full list of changes can be found at

<https://www.usgs.gov/streamstats/news/streamstats-data-updates-open-source-code-release>
(<https://www.usgs.gov/streamstats/news/streamstats-data-updates-open-source-code-release>) .

 Collapse All

➤ Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CONTDA	Area that contributes flow to a point on a stream	0.274	square miles
CSL10_85fm	Change in elevation between points 10 and 85 percent of length along main channel to basin divide divided by length between points ft per mi	57.05	feet per mi
DAUNREG	Unregulated drainage area used in OK regulated equations	0.274	square miles
PRECIPOUT	Mean annual precip at the stream outlet (based on annual PRISM precip data in inches from 1971-2000)	42.002	inches

➤ Peak-Flow Statistics

Peak-Flow Statistics Parameters [Peak Region 2 Unregulated 2019 5143]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
CONTDA	Contributing Drainage Area	0.274	square miles	0.1	2510
CSL10_85fm	Stream Slope 10 and 85 Method ft per mi	57.05	feet per mi	1.98	342

Peak-Flow Statistics Parameters [Peak Region 2 NRCS Regulated 2019 5143]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
CSL10_85fm	Stream Slope 10 and 85 Method ft per mi	57.05	feet per mi	1.98	342
DAUNREG	Unregulated Drainage Area	0.274	square miles	0.1	2510

Peak-Flow Statistics Flow Report [Peak Region 2 Unregulated 2019 5143]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean

Squared Error, PseudoR²: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	ASEp	Equiv. Yrs.
50-percent AEP flood	118	ft ³ /s	46.9	2
20-percent AEP flood	214	ft ³ /s	36.2	5
10-percent AEP flood	295	ft ³ /s	35	8
4-percent AEP flood	424	ft ³ /s	39.9	9
2-percent AEP flood	554	ft ³ /s	37.1	11
1-percent AEP flood	652	ft ³ /s	39.9	12
0.2-percent AEP flood	1010	ft ³ /s	50.7	12

Peak-Flow Statistics Flow Report [Peak Region 2 NRCS Regulated 2019 5143]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR²: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	ASEp	Equiv. Yrs.
Regulated 50-percent AEP flood	118	ft ³ /s	46.9	2
Regulated 20-percent AEP flood	214	ft ³ /s	36.2	5
Regulated 10-percent AEP flood	295	ft ³ /s	35	8
Regulated 4-percent AEP flood	424	ft ³ /s	39.9	9
Regulated 2-percent AEP flood	554	ft ³ /s	37.1	11
Regulated 1-percent AEP flood	652	ft ³ /s	39.9	12
Regulated 0.2-percent AEP flood	1010	ft ³ /s	50.7	12

Peak-Flow Statistics Flow Report [Area-Averaged]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error, PC: Percent Correct, RMSE: Root Mean Squared Error, PseudoR²: Pseudo R Squared (other -- see report)

Statistic	Value	Unit	ASEp	Equiv. Yrs.
50-percent AEP flood	118	ft ³ /s	46.9	2
20-percent AEP flood	214	ft ³ /s	36.2	5
10-percent AEP flood	295	ft ³ /s	35	8
4-percent AEP flood	424	ft ³ /s	39.9	9
2-percent AEP flood	554	ft ³ /s	37.1	11
1-percent AEP flood	652	ft ³ /s	39.9	12

Statistic	Value	Unit	ASEp	Equiv. Yrs.
0.2-percent AEP flood	1010	ft ³ /s	50.7	12
Regulated 50-percent AEP flood	118	ft ³ /s	46.9	2
Regulated 20-percent AEP flood	214	ft ³ /s	36.2	5
Regulated 10-percent AEP flood	295	ft ³ /s	35	8
Regulated 4-percent AEP flood	424	ft ³ /s	39.9	9
Regulated 2-percent AEP flood	554	ft ³ /s	37.1	11
Regulated 1-percent AEP flood	652	ft ³ /s	39.9	12
Regulated 0.2-percent AEP flood	1010	ft ³ /s	50.7	12

Peak-Flow Statistics Citations

Lewis, J.M., Hunter, S.L., and Labriola, L.G.,2019, Methods for estimating the magnitude and frequency of peak streamflows for unregulated streams in Oklahoma developed by using streamflow data through 2017: U.S. Geological Survey Scientific Investigations Report 2019–5143, 39 p. (<https://doi.org/10.3133/sir20195143>)

➤ General Flow Statistics

General Flow Statistics Parameters [Duration Region 3 2009 5267]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
CONTDA	Contributing Drainage Area	0.274	square miles	8	2296
PRECIPOUT	Mean Annual Precip at Gage	42.002	inches	38	58

General Flow Statistics Disclaimers [Duration Region 3 2009 5267]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

General Flow Statistics Flow Report [Duration Region 3 2009 5267]

Statistic	Value	Unit
Average daily streamflow	0.134	ft ³ /s

General Flow Statistics Citations

Esralew, R.A., Smith, S.J.,2009, Methods for estimating flow-duration and annual mean-flow statistics for ungaged streams in Oklahoma: U.S. Geological Survey Scientific Investigations Report 2009-5267, 131 p. (<http://pubs.usgs.gov/sir/2009/5267/>)

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Application Version: 4.32.0

SSHydro Services Version: 1.2.1

SSDelineate Services Version: 1.1.0

NSS Services Version: 2.2.1

GageStats Services Version: 1.2.1

Pourpoint Services Version: 1.2.0

Batch Processor Version: 1.6.1

Aerial Map

Legend



Applicants property

Channel to be cleared

Google Earth

Image Landsat / Copernicus

600 ft

