

**AGENDA
SPECIAL MEETING
JENKS CITY COUNCIL
TUESDAY, MAY 12, 2026, 6:00 PM
JENKS CITY HALL, 211 NORTH ELM**

If you require special accommodations pursuant to the Americans with Disabilities Act, please notify the City Clerk's Office at (918) 299-5883 or email agendas@jenksok.org.

CALL TO ORDER

ROLL CALL

INVOCATION

PLEDGE OF ALLEGIANCE

ANIMAL WELFARE SPOTLIGHT

CITIZEN COMMENTS

BUSINESS

Official action can only be taken on items which appear on the agenda. The City Council may adopt, approve, ratify, deny, defer, recommend, amend, strike, or continue any agenda item (except for Item 1).

1. Consideration and appropriate action relating to a request for approval of the Consent Agenda. (All matters listed under "Consent" are considered by the City Council to be routine and will be enacted by one motion. Any Councilor may, however, remove an item from the Consent Agenda by request. A motion to adopt the Consent Agenda is non-debatable.)
 - A. Approve minutes of the regular meeting held on April 21, 2026.
 - B. Approve minutes of the Budget Committee special meeting held on May 06, 2026.
 - C. Monthly Reports
 - D. Approve Resolution 896, a Resolution establishing a new special revenue fund for the City of Jenks for the Fiscal Year ending June 30, 2026.
 - E. Note in the minutes Oklahoma Department of Environmental Quality (DEQ) Permit Number WL000072260334 for the construction of 1,533 linear feet of six(6) inch PVC waterline, Permit Number SL000072260333 for the construction of 1,427 linear feet of eight (8) inch PVC sanitary sewer line and all appurtenances to serve the Belvedere Reserve Addition, Tulsa County, Oklahoma.
2. Consideration and appropriate action relating to items removed from the Consent Agenda
3. First Amendment to Purchase Agreement with Royce Enterprises (Coal Creek Development), moving the closing date to August 15, 2027.

OTHER BUSINESS

1. City Manager's Report
 - A. City of Jenks Annual Stormwater Report

ADJOURNMENT

**MINUTES
JENKS CITY COUNCIL
TUESDAY, APRIL 21, 2026, 6:00 PM
JENKS CITY HALL, 211 NORTH ELM**

CALL TO ORDER

The Agenda for the Jenks City Council was posted on the City's website at 2:53 PM on April 17, 2026. The meeting was called to order at 06:02 PM on the above date with Mayor Cory Box presiding at Jenks City Hall.

ROLL CALL

Present

John Brown

Kevin Short

Matthew Emmons

Donna Ogez

Adam Abel

Craig Murray

Mayor Cory Box

Absent

INVOCATION

Tommy Davis of New Direction International gave the invocation.

PLEDGE OF ALLEGIANCE

Was conducted

ANIMAL WELFARE SPOTLIGHT

Jenks Animal Control presented an animal for adoption.

CITIZEN COMMENTS

None.

BUSINESS

1. Consideration and appropriate action relating to a request for approval of the Consent Agenda. (All matters listed under "Consent" are considered by the City Council to be routine and will be enacted by one motion. Any Councilor may, however, remove an item from the Consent Agenda by request. A motion to adopt the Consent Agenda is non-debatable.)
 - A. Approve minutes of the regular meeting held on April 07, 2026
 - B. Monthly Reports
 - C. Approve Resolution No. 895 for final acceptance of 1,415 linear feet [LF] 12-inch PVC C900 and 6,962 [LF] 6-inch PVC C900 waterline; 1,070 [LF] 15-inch PVC, 6,330 [LF] 8-inch PVC, and 47 four (4) foot diameter manholes for sanitary sewer infrastructure associated with The Reserve at Southern Woods (West 111th Street South and South 33rd West Avenue).

Kevin Short made a motion to approve Item 1. John Brown seconded the motion. A roll call vote of members was taken as follows:

Yes: Cory Box, Donna Ogez, John Brown, Matthew Emmons, Craig Murray, Adam Abel, Kevin Short

No: None

Motion Carried.

2. Consideration and appropriate action relating to items removed from the Consent Agenda

Withdrawn.

3. Ordinance 1686, related to JZ 26 PUD 155, a request for a zone change from AG (Agriculture) to RE (Residential Estate) and PUD 155 overlay, repealing all ordinances or parts thereof in conflict herewith, and providing for severability. General Location: E of the NE corner of 141st & Elm St

Planning Director Marcae Hilton introduced Item 3 and answered questions. City Manager Christopher Shrout and Assistant City Manager Robert Carr also answered questions. John Brown made a motion to approve Item 3. Kevin Short seconded the motion. A roll call vote of members was taken as follows:

Yes: Cory Box, Donna Ogez, John Brown, Matthew Emmons, Craig Murray, Adam Abel, Kevin Short

No: None

Motion Carried.

4. Potential Executive Session for the purpose of discussing the sale, purchase or acquisition of real property relating to proposed food hall and real property located at 202 W Main St and the parcel north of 300 S Aquarium Dr. (25 O.S. §307 (B)(3))

Craig Murray made a motion to enter Executive Session. Donna Ogez seconded the motion. A roll call vote of members was taken as follows:

Yes: Cory Box, Donna Ogez, John Brown, Matthew Emmons, Craig Murray, Adam Abel, Kevin Short

No: None

Motion Carried. *Council entered Executive Session at 6:26 PM and returned at 7:03 PM. No votes were cast and no other business was discussed.*

OTHER BUSINESS

1. City Manager's Report

City Manager Christopher Shrout gave his report and answered questions. Assistant City Manager Robert Carr also answered questions. City Planner Marcae Hilton addressed the Council about grants.

ADJOURNMENT

Jenks City Council adjourned at 07:15 PM.

MINUTES
JENKS CITY COUNCIL BUDGET COMMITTEE
SPECIAL MEETING
WEDNESDAY, MAY 6, 2026, 12:00 PM
JENKS CITY HALL, 211 NORTH ELM

CALL TO ORDER

The Agenda for the Jenks City Council Budget Committee was posted on the City's website at 11:50 AM on May 04, 2026. The meeting was called to order at 12:55 PM on the above date with Mayor Cory Box presiding at Jenks City Hall.

ROLL CALL

Present

John Brown
Kevin Short
Mayor Cory Box

Absent

BUSINESS

1. Review of Revenues and Expenditures (and Transfers) and any accounts or related issues pertaining to the FY 2026-2028 Biennial Budget.
Finance Director Micheal Sanchez introduced Item 1 and answered questions. City Manager Christopher Shrout also answered questions.
2. Recommend to the Jenks City Council the FY 2026-2028 Biennial Budget and its related documents to implement the same.
Kevin Short made a motion to recommend the FY 2026-2028 Biennial Budget to the City Council. John Brown seconded the motion. A roll call vote of members was taken as follows:
Yes: Cory Box, John Brown, Kevin Short
No: None
Motion Carried.

ADJOURNMENT

Jenks City Council adjourned at 01:08 PM.



PARENT ACCOUNT:
CITY OF JENKS 29

REPORT FOR:
CITY OF JENKS 29
2960-00-656689-7
MAR-24-2026 TO APR-23-2026

PAGE 1

Financial Summary

ACCOUNT NUMBER	FLEET NAME
2960-00-656689-7	CITY OF JENKS 29

DEPARTMENT	DESCRIPTION	UNITS	COST OR FEE	TOTAL FEES	FUEL \$	OTHER \$	EXEMPTED TAX	NET \$	TOTAL FEES & PURCHASES
215	PERIOD			0.00	0.00	0.00	0.00	0.00	0.00
	YTD			0.00	345.99	0.00	-50.69	295.30	295.30
252	Unleaded Regular	27.61	3.284	0.00	90.39	0.00	-10.30	80.09	
	PERIOD			0.00	90.39	0.00	-10.30	80.09	80.09
	YTD			0.00	278.18	0.00	-36.09	242.09	242.09
311	Unleaded Regular	2860.63	3.300	0.00	9457.18	0.00	-1065.25	8391.93	
	PERIOD			0.00	9457.18	0.00	-1065.25	8391.93	8391.93
	YTD			0.00	31318.85	0.00	-4286.81	27032.04	27032.04
411	Regular Diesel #2	591.63	4.825	0.00	2853.47	0.00	-256.14	2597.33	
	Unleaded Regular	296.93	3.324	0.00	990.27	0.00	-110.74	879.53	
	PERIOD			0.00	3843.74	0.00	-366.88	3476.86	3476.86
	YTD			0.00	11941.49	0.00	-1427.53	10513.96	10513.96
511	Unleaded Regular	42.83	3.314	0.00	142.09	0.00	-15.98	126.11	
	PERIOD			0.00	142.09	0.00	-15.98	126.11	126.11
	YTD			0.00	792.84	0.00	-106.26	686.58	686.58
512	Unleaded Regular	73.99	3.284	0.00	241.73	0.00	-27.60	214.13	
	PERIOD			0.00	241.73	0.00	-27.60	214.13	214.13
	YTD			0.00	565.91	0.00	-73.55	492.36	492.36
521	Unleaded Plus	27.30	3.669	0.00	100.16	0.00	-10.19	89.97	
	Unleaded Regular	12.40	3.169	0.00	39.30	0.00	-4.63	34.67	
	PERIOD			0.00	139.46	0.00	-14.82	124.64	124.64
	YTD			0.00	815.28	0.00	-99.33	715.95	715.95
522	Unleaded Plus	108.03	3.587	0.00	386.02	0.00	-40.31	345.71	
	Unleaded Regular	38.01	3.299	0.00	125.40	0.00	-14.18	111.22	
	PERIOD			0.00	511.42	0.00	-54.49	456.93	456.93
	YTD			0.00	1884.97	0.00	-243.24	1641.73	1641.73
523	PERIOD			0.00	0.00	0.00	0.00	0.00	0.00
	YTD			0.00	56.33	0.00	-8.21	48.12	48.12
531	Unleaded Regular	263.20	3.304	0.00	873.14	0.00	-98.17	774.97	
	Unleaded Super	79.35	4.004	0.00	317.81	0.00	-29.60	288.21	
	PERIOD			0.00	1190.95	0.00	-127.77	1063.18	1063.18
	YTD			0.00	4322.95	0.00	-554.83	3768.12	3768.12
533	Unleaded Regular	327.33	3.313	0.00	1085.59	0.00	-122.09	963.50	
	PERIOD			0.00	1085.59	0.00	-122.09	963.50	963.50
	YTD			0.00	2976.92	0.00	-397.21	2579.71	2579.71



PARENT ACCOUNT:
CITY OF JENKS 29

REPORT FOR:
CITY OF JENKS 29
2960-00-656689-7
MAR-24-2026 TO APR-23-2026

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END OF REPORT

Financial Summary

ACCOUNT NUMBER	FLEET NAME
2960-00-656689-7	CITY OF JENKS 29

DEPARTMENT	DESCRIPTION	UNITS	COST OR FEE	TOTAL FEES	FUEL \$	OTHER \$	EXEMPTED TAX	NET \$	TOTAL FEES & PURCHASES																																																																																										
561	Unleaded Plus	77.05	3.637	0.00	281.23	0.00	-28.75	252.48																																																																																											
	Unleaded Regular	205.74	3.281	0.00	675.79	0.00	-76.76	599.03																																																																																											
	Unleaded Super	117.56	3.992	0.00	470.50	0.00	-43.85	426.65																																																																																											
	PERIOD			0.00	1427.52	0.00	-149.36	1278.16	1278.16																																																																																										
	YTD			0.00	4031.15	0.00	-490.77	3540.38	3540.38																																																																																										
562	Unleaded Regular	115.88	3.333	0.00	388.09	0.00	-43.22	344.87																																																																																											
	PERIOD			0.00	388.09	0.00	-43.22	344.87	344.87																																																																																										
	YTD			0.00	1071.64	0.00	-144.66	926.98	926.98																																																																																										
571	Unleaded Regular	27.20	3.259	0.00	88.64	0.00	-10.15	78.49																																																																																											
	PERIOD			0.00	88.64	0.00	-10.15	78.49	78.49																																																																																										
	YTD			0.00	88.64	0.00	-10.15	78.49	78.49																																																																																										
919	Regular Diesel #2	30.89	4.999	0.00	154.40	0.00	-13.38	141.02																																																																																											
	Unleaded Regular	21.39	3.329	0.00	71.20	0.00	-7.98	63.22																																																																																											
	PERIOD			0.00	225.60	0.00	-21.36	204.24	204.24																																																																																										
	YTD			0.00	516.13	0.00	-62.62	453.51	453.51																																																																																										
Unassigned	Rebate	5344.76	0.050	-267.24	0.00	0.00	0.00	0.00																																																																																											
	PERIOD			-267.24	0.00	0.00	0.00	0.00	-267.24																																																																																										
	YTD			0.00	0.00	0.00	0.00	0.00	0.00																																																																																										
ACCOUNT TOTALS	Regular Diesel #2	622.52	4.999	0.00	3007.87	0.00	-269.52	2738.35																																																																																											
	Unleaded Plus	212.38	3.637	0.00	767.41	0.00	-79.25	688.16																																																																																											
	Unleaded Regular	4313.14	3.329	0.00	14268.81	0.00	-1607.05	12661.76																																																																																											
	Unleaded Super	196.91	3.992	0.00	788.31	0.00	-73.45	714.86																																																																																											
	Rebate	5344.76	0.050	-267.24	0.00	0.00	0.00	0.00																																																																																											
	PERIOD			-267.24	18832.40	0.00	-2029.27	16803.13	16535.89																																																																																										
	YTD			0.00	61007.27	0.00	-7991.95	53015.32	53015.32																																																																																										
<table><tr><td colspan="10">ACCOUNTS RECEIVABLE SUMMARY - Invoice 112040770</td></tr><tr><td>PREVIOUS BALANCE</td><td>13344.95</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>PAYMENTS</td><td>-13344.95</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>PURCHASES</td><td>16803.13</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>DEBITS</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CREDITS</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>QuikTrip Rebate</td><td>-267.24</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>PRIVATE SITE ANCILLARIES</td><td>0.00</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>AMOUNT DUE</td><td>16535.89</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										ACCOUNTS RECEIVABLE SUMMARY - Invoice 112040770										PREVIOUS BALANCE	13344.95									PAYMENTS	-13344.95									PURCHASES	16803.13									DEBITS	0.00									CREDITS	0.00									QuikTrip Rebate	-267.24									PRIVATE SITE ANCILLARIES	0.00									AMOUNT DUE	16535.89								
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PARENT ACCOUNT:
CITY OF JENKS 29

REPORT FOR:
CITY OF JENKS 29
2960-00-656689-7
MAR-24-2026 TO APR-23-2026

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Site Summary

ACCOUNT NUMBER	FLEET NAME
2960-00-656689-7	CITY OF JENKS 29

BRAND	ADDRESS	NO. TRANS	FUEL UNITS	FUEL \$	OTHER \$	EXEMPT TAX	NET \$
QUIKTRIP	10801 N I 35 Service, Oklahoma City, OK 73131-5015	1	8.882	28.95	0.00	-1.63	27.32
	15102 S Memorial Dr, Bixby, OK 74008	1	9.506	30.03	0.00	-3.55	26.48
	4705 S Elm Pl, Broken Arrow, OK 74011	1	15.496	52.36	0.00	-5.78	46.58
	2400 E Kenosha St, Broken Arrow, OK 74014	1	21.350	74.70	0.00	-7.97	66.73
	91 W 141st St, Glenpool, OK 74033	1	22.948	78.00	0.00	-8.56	69.44
	712 S Elm St, Jenks, OK 74037	355	4859.289	17159.49	0.00	-1848.01	15311.48
	2 E 41st St, Sand Springs, OK 74063	1	20.973	72.97	0.00	-7.82	65.15
	1040 E Taft Ave, Sapulpa, OK 74066	1	20.447	65.00	0.00	-7.62	57.38
	12100 S Waco Ave, Sapulpa, OK 74066	12	192.980	642.06	0.00	-71.98	570.08
	1222 N 9th St, Sapulpa, OK 74066-2222	1	3.147	10.00	0.00	-1.18	8.82
	6008 S 49th West Ave, Tulsa, OK 74107	1	26.815	93.29	0.00	-10.00	83.29
	5151 E 71st St, Tulsa, OK 74136	1	30.887	154.40	0.00	-13.38	141.02
	9555 Riverside Pkwy, Tulsa, OK 74137	5	89.026	293.40	0.00	-33.21	260.19
	903 E Trudgeon St, Henryetta, OK 74437-4403	1	23.010	77.75	0.00	-8.58	69.17
	PERIOD TOTALS	383	5344.756	18832.40	0.00	-2029.27	16803.13

Transaction Date	Transaction Time	Card Number	Custom Vehicle/Asset ID	Units	Product	Merchant Name	Merchant Address	Merchant City	Merchant State / Province	Merchant Postal Code	Current Odometer	Adjusted Odometer	Driver Last Name	Driver Department	Department
03/22/2026	03:08:28	****01351	311 18 3661	8.653	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	89234		Boileau	311	311
03/22/2026	05:43:38	****01501	311 20 4189	5.077	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	59064		FOSTER	311	311
03/22/2026	06:04:04	****01261	311 18 4849	15.25	UNL	Quiktrip 0121	12100 S Waco Ave	Sapulpa	OK	74066	113585		MCFARLAND	311	311
03/22/2026	07:59:42	****01951	311 25 0706	17.64	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	3102		COLE	311	311
03/22/2026	08:30:46	****00341	411 UTILITY 2	6.624	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	124670		knopf	411	411
03/22/2026	13:08:51	****00801	311 15 3007	13.03	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	123344		golliday	311	311
03/22/2026	13:37:21	****01311	311 18 3659	5.721	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	115004		SPINNER	311	311
03/22/2026	13:38:04	****00811	311 17 2923	11.59	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	121498		WARD	311	311
03/22/2026	19:16:26	****00131	311 14 0890	9.921	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	110367		COMPTON	315	311
03/22/2026	20:32:17	****01821	311 25 0626	9.224	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	16511	16558	MARTIN	311	311
03/22/2026	21:42:50	****01641	311 21 3180	15.26	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	40340	40993	KAYS	311	311
03/23/2026	02:14:39	****01731	311 23 7435	18.04	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	39827	39382	NUNNELEE	311	311
03/23/2026	05:51:14	****01631	311 21 3044	14.18	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	61028		Galloway	311	311
03/23/2026	07:16:09	****01841	311 25 9123	11.29	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	16377		LUTTRELL	311	311
03/23/2026	08:16:54	****00231	311 17 2922	14.15	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	139497		CHANDLEE	311	311
03/23/2026	10:43:53	****00281	311 14 0892	8.331	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	112778		zumwalt	315	311
03/23/2026	12:34:38	****01771	411 601 COMMAND 1	17.03	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	53739		OSTRUM	411	411
03/23/2026	13:30:33	****02011	561 197 19 FORD	36.82	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	87830		GERJES	561	561
03/23/2026	13:41:28	****01311	311 18 3659	7.211	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	115082		SPINNER	311	311
03/23/2026	16:30:31	****00051	311 17 4535	10.44	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	90213		FLETCHER	311	311
03/23/2026	22:01:13	****01861	311 25 7838	12.79	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	9623		DAVIS	311	311
03/24/2026	00:47:06	****01261	311 18 4849	11.66	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	113691		MCFARLAND	311	311
03/24/2026	05:53:28	****01631	311 21 3044	5.333	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	61085		Galloway	311	311
03/24/2026	07:55:12	****00801	311 15 3007	10.74	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	123499		golliday	311	311
03/24/2026	07:57:19	****01961	311 25 0638	18.39	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	2605	2761	Solomon	311	311
03/24/2026	09:01:11	****01541	311 20 4199	7.387	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	94600	95163	FOSTER	311	311
03/24/2026	13:20:30	****01362	411 604 FMARSHAL1	20.79	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	107612		o brien	411	411
03/24/2026	13:23:29	****00901	311 17 4536	11.89	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	72991		Mculty	311	311
03/24/2026	15:50:46	****01881	562 25 7873	13.75	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	11930		MCDANIEL	562	562
03/24/2026	16:29:32	****01311	311 18 3659	7.902	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	115166		SPINNER	311	311
03/24/2026	18:06:01	****02001	411 LADDER 1	12.28	DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	2435		LAMBDIN	411	411
03/24/2026	21:50:50	****01641	311 21 3180	15.37	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	40730		KAYS	311	311
03/24/2026	23:22:40	****00341	411 UTILITY 2	6.136	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	124721		flora	411	411
03/25/2026	04:34:35	****01261	311 18 4849	15.34	UNL	Quiktrip 0121	12100 S Waco Ave	Sapulpa	OK	74066	113824		MCFARLAND	311	311
03/25/2026	05:20:31	****01781	411 602 COMMAND 2	21.25	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	24234		ZICKEFOOSE	411	411
03/25/2026	05:36:20	****00281	311 14 0892	8.617	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	112861		zumwalt	315	311
03/25/2026	05:55:42	****01631	311 21 3044	4.212	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	61130		Galloway	311	311
03/25/2026	06:01:43	****01841	311 25 9123	7.673	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	16443		LUTTRELL	311	311
03/25/2026	08:15:00	****01931	561 199 25 FORD	10.16	UN+	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	4698		SCOTTJ	561	561
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03/25/2026	14:33:18	****01311	311 18 3659	6.443	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	115236		SPINNER	311	311
03/25/2026	21:18:05	****00534	311 16 8369	12.5	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	142976		TURNER	315	311
03/25/2026	23:02:32	****02001	411 LADDER 1	14.17	DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	2472		NEIGHLEY	411	411
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03/26/2026	07:09:04	****01271	311 18 4850	9.735	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	71587		ARNOLD	311	311
03/26/2026	07:47:07	****01811	561 627 19 FORD	31.85	UNL	Quiktrip 0096	9555 Riverside Pkwy	Tulsa	OK	74137	139658		STEED	531	561
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03/26/2026	19:23:34	****01871	311 25 8786	16.05	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	27611		simmons	311	311
03/26/2026	22:04:14	****01351	311 18 3661	11.69	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	89321		Boileau	311	311
03/27/2026	05:52:25	****01541	311 20 4199	10.35	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	95750	95314	FOSTER	311	311
03/27/2026	05:53:42	****01631	311 21 3044	12.63	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	61242		Galloway	311	311
03/27/2026	06:27:33	****00501	311 11 1550	19.03	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	103658		Bowdle	311	311
03/27/2026	07:38:23	****01641	311 21 3180	3.147	UNL	Quiktrip 0038	1222 N 9th St	Sapulpa	OK	74066-2222	40494	40810	KAYS	311	311
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03/27/2026	11:11:48	****00341	411 UTILITY 2	6.93	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	124780		flora	411	411
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03/27/2026	12:56:35	****00112	311 13 9781	7.879	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	141220		SEMKE	311	311
03/27/2026	13:13:20	****01641	311 21 3180	12.19	UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	40965	40803	KAYS	311	311

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03/27/2026 15:31:50	****00051	311 17 4535	12.5 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	90370	FLETCHER	311	311
03/27/2026 15:47:28	****01901	411 RESCUE 2	10.98 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	9268	MCCAWLEY	411	411
03/27/2026 19:38:03	****00231	311 17 2922	13.33 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	139637	CHANDLEE	311	311
03/28/2026 09:16:48	****01961	311 25 0638	17.16 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	2721	2990 Solomon	311	311
03/28/2026 09:21:33	****01951	311 25 0706	19.41 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	3267	COLE	311	311
03/28/2026 10:42:35	****01341	311 18 9940	10.97 UNL	Quiktrip 0121	12100 S Waco Ave	Sapulpa	OK	74066	80615	80837 FOSTER	311	311
03/28/2026 13:50:46	****01821	311 25 0626	6.827 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	16787	16754 MARTIN	311	311
03/28/2026 15:20:17	****02001	411 LADDER 1	13.64 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	2581	NEIGHLEY	411	411
03/28/2026 15:34:04	****01311	311 18 3659	9.38 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	115327	SPINNER	311	311
03/28/2026 20:15:22	****00051	311 17 4535	9.243 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	90480	FLETCHER	311	311
03/28/2026 23:18:41	****01261	311 18 4849	10.94 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	113902	MCFARLAND	311	311
03/29/2026 06:14:19	****01831	311 25 8794	9.988 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	14989	Hash	311	311
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03/29/2026 10:20:16	****00534	311 16 8369	13.55 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	143162	TURNER	315	311
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03/29/2026 13:39:13	****00131	311 14 0890	11.46 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	110504	COMPTON	315	311
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03/29/2026 23:34:49	****01351	311 18 3661	13.39 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	89446	Boileau	311	311
03/30/2026 05:34:11	****00281	311 14 0892	7.445 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	112944	zumwalt	315	311
03/30/2026 05:48:47	****01971	311 25 0690	1.909 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	3599	3395 MARKHAM	311	311
03/30/2026 05:52:51	****01261	311 18 4849	13.44 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	113992	MCFARLAND	311	311
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03/30/2026 10:02:18	****00441	512 660 16 HYUNDA	13.4 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	66169	rush	512	512
03/30/2026 10:12:53	****01761	311 23 7425	14.47 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	22064	Jackson	311	311
03/30/2026 13:48:33	****01311	311 18 3659	9.221 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	115426	SPINNER	311	311
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03/30/2026 15:36:12	****00051	311 17 4535	9.926 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	90589	FLETCHER	311	311
03/30/2026 15:40:34	****00301	411 UTILITY 1	22.47 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	50896	OSGOOD	411	411
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03/30/2026 17:58:54	****01281	311 18 0441	13.12 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	51772	SCOTT D	311	311
03/30/2026 19:44:09	****01291	311 18 3658	11.53 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	88495	SPRY	311	311
03/30/2026 22:03:12	****01861	311 25 7838	12.48 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	9719	DAVIS	311	311
03/31/2026 06:04:33	****01341	311 18 9940	11.82 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	80701	80799 FOSTER	311	311
03/31/2026 07:24:43	****01271	311 18 4850	6.359 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	71680	ARNOLD	311	311
03/31/2026 08:00:50	****01931	561 199 25 FORD	10.19 UN+	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	4889	SCOTT J	561	561
03/31/2026 09:24:52	****01421	411 LADDER 2	15.16 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	32888	KRIMBILL	411	411
03/31/2026 09:57:31	****01881	562 25 7873	14.32 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	12110	MCDANIEL	562	562
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03/31/2026 13:08:30	****00351	311 13 4107	12.5 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	108555	parker	315	311
03/31/2026 13:29:47	****01311	311 18 3659	8.986 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	115512	SPINNER	311	311
03/31/2026 14:11:29	****00051	311 17 4535	6.252 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	90668	FLETCHER	311	311
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03/31/2026 17:24:27	****01871	311 25 8786	15.47 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	27872	simmons	311	311
03/31/2026 21:28:48	****01641	311 21 3180	1.875 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	41181	40850 KAYS	311	311
03/31/2026 21:32:07	****01641	311 21 3180	11.25 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	41181	41466 KAYS	311	311
04/01/2026 05:35:40	****00281	311 14 0892	10.84 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	113050	zumwalt	315	311
04/01/2026 07:39:08	****01811	561 627 19 FORD	22.25 SUP	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	139776	STEED	531	561
04/01/2026 10:53:40	****00801	311 15 3007	12.64 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	124004	golliday	311	311
04/01/2026 10:55:50	****00231	311 17 2922	9.806 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	139839	139740 CHANDLEE	311	311
04/01/2026 12:39:36	****01831	311 25 8794	9.949 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	15037	Hash	311	311
04/01/2026 13:17:24	****01541	311 20 4199	7.447 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	95382	95423 MARTIN	311	311
04/01/2026 13:52:26	****01821	311 25 0626	3.851 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	16930	MARTIN	311	311
04/01/2026 15:17:45	****01311	311 18 3659	8.754 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	115608	SPINNER	311	311
04/01/2026 15:55:31	****01851	311 25 9080	15.62 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	11411	millar	311	311
04/01/2026 18:24:56	****01971	311 25 0690	21.81 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	3702	MARKHAM	311	311
04/02/2026 07:38:57	****02011	561 197 19 FORD	31.57 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	88248	GERJES	561	561
04/02/2026 08:04:33	****01631	311 21 3044	13.12 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	61400	Galloway	311	311
04/02/2026 09:35:32	****01341	311 18 9940	8.601 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	80811	FOSTER	311	311
04/02/2026 11:17:28	****01731	311 23 7435	18.79 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	40114	39529 NUNNELEE	311	311
04/02/2026 12:10:16	****00801	311 15 3007	8.819 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	124117	golliday	311	311
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04/02/2026 13:39:36	****00811	311 17 2923	11.57 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	121960	WARD	311	311
04/02/2026 19:46:16	****01901	411 RESCUE 2	12.24 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	9394	MCCAWLEY	411	411
04/03/2026 04:29:36	****01981	311 25 0628	17.51 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	4121	3923 Goode	311	311
04/03/2026 05:51:27	****01821	311 25 0626	7.918 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	17008	MARTIN	311	311
04/03/2026 06:38:32	****00341	411 UTILITY 2	8.836 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	124937	flora	411	411
04/03/2026 07:55:13	****00112	311 13 9781	14.23 UNL	Quiktrip 0121	12100 S Waco Ave	Sapulpa	OK	74066	141559	141405 SEMKE	311	311
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04/03/2026 13:24:26	****01831	311 25 8794	9.506 UNL	Quiktrip 0051	15102 S Memorial D	Bixby	OK	74008	15108	Hash	311	311
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04/03/2026 19:53:15	****00534	311 16 8369	12.07 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	143330	TURNER	315	311
04/03/2026 20:39:27	****01291	311 18 3658	10.37 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	88567	SPRY	311	311
04/03/2026 22:03:06	****01351	311 18 3661	9.915 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	89542	Boileau	311	311
04/03/2026 22:03:49	****01261	311 18 4849	16.52 UNL	Quiktrip 0121	12100 S Waco Ave	Sapulpa	OK	74066	114105	MCFARLAND	311	311
04/04/2026 08:09:56	****01341	311 18 9940	10.63 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	80702	81073 FOSTER	311	311
04/04/2026 08:10:38	****01871	311 25 8786	16.23 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	28156	simmons	311	311
04/04/2026 08:59:36	****01271	311 18 4850	7.317 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	71802	ARNOLD	311	311
04/04/2026 10:17:27	****01821	311 25 0626	4.011 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	17048	MARTIN	311	311
04/04/2026 10:25:44	****01951	311 25 0706	15.65 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	3420	COLE	311	311
04/04/2026 10:28:13	****01881	562 25 7873	10.49 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	12256	MCDANIEL	562	562
04/04/2026 13:36:05	****00811	311 17 2923	12.31 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	122113	WARD	311	311
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04/05/2026 10:36:25	****01831	311 25 8794	8.282 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	15163	Hash	311	311
04/05/2026 13:41:54	****01311	311 18 3659	5.838 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	115724	SPINNER	311	311
04/05/2026 22:38:20	****01351	311 18 3661	10.16 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	89603	Boileau	311	311
04/06/2026 04:33:45	****01463	411 ENGINE 1	17.01 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	64439	SMITH	411	411
04/06/2026 05:56:54	****01631	311 21 3044	6.714 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	61490	Galloway	311	311
04/06/2026 06:05:01	****01341	311 18 9940	11.75 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	81136	81224 FOSTER	311	311
04/06/2026 09:17:46	****01951	311 25 0706	14.71 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	3562	COLE	311	311
04/06/2026 09:23:07	****00711	512 501 12 FORD	29.84 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	118487	ORTEGON	512	512
04/06/2026 09:36:09	****01761	311 23 7425	12.67 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	22227	Jackson	311	311
04/06/2026 11:26:30	****01771	411 601 COMMAND 1	22.14 UNL	Quiktrip 0121	12100 S Waco Ave	Sapulpa	OK	74066	54396	OSTRUM	411	411
04/06/2026 11:35:33	****00801	311 15 3007	13.37 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	124275	golliday	311	311
04/06/2026 15:15:17	****01311	311 18 3659	8.362 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	115813	SPINNER	311	311
04/06/2026 19:55:00	****02001	411 LADDER 1	12.57 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	2721	WILLIAMS	411	411
04/06/2026 21:43:34	****01641	311 21 3180	13.88 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	41558	42196 KAYS	311	311
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04/06/2026 22:05:57	****01861	311 25 7838	11.26 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	9789	DAVIS	311	311
04/06/2026 22:45:55	****01261	311 18 4849	13.88 UNL	Quiktrip 0121	12100 S Waco Ave	Sapulpa	OK	74066	114249	MCFARLAND	311	311
04/07/2026 05:28:26	****00281	311 14 0892	6.633 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	113096	zumwalt	315	311
04/07/2026 09:26:32	****01931	561 199 25 FORD	9.606 UN+	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	5047	SCOTTJ	561	561
04/07/2026 13:35:10	****00801	311 15 3007	10.77 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	124395	golliday	311	311
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04/07/2026 14:02:31	****01811	561 627 19 FORD	35.9 SUP	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	139776	139930 STEED	531	561
04/07/2026 14:29:35	****01901	411 RESCUE 2	10.05 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	9466	SCHULTZE	411	411
04/07/2026 15:20:47	****01821	311 25 0626	10.04 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	17139	MARTIN	311	311
04/07/2026 15:24:22	****01781	411 602 COMMAND 2	20.68 UNL	Quiktrip 0121	12100 S Waco Ave	Sapulpa	OK	74066	24468	ZICKEFOOSE	411	411
04/07/2026 19:16:36	****00051	311 17 4535	11.47 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	91025	90901 FLETCHER	411	311
04/08/2026 03:53:06	****01981	311 25 0628	10.99 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	4220	Goode	311	311
04/08/2026 03:55:59	****01261	311 18 4849	11.43 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	114363	MCFARLAND	311	311
04/08/2026 04:52:10	****01631	311 21 3044	10.46 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	61611	Galloway	311	311
04/08/2026 12:14:15	****01961	311 25 0638	17.19 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	2977	Solomon	311	311
04/08/2026 13:15:36	****00281	311 14 0892	9.43 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	113193	zumwalt	315	311
04/08/2026 13:38:08	****00112	311 13 9781	10.67 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	141656	141544 SEMKE	311	311
04/08/2026 13:58:11	****01311	311 18 3659	5.147 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	115917	SPINNER	311	311
04/08/2026 14:07:45	****00901	311 17 4536	11.19 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	73315	Mcnulty	311	311
04/08/2026 15:15:08	****01231	562 10 0502	24.78 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	115140	MCDANIEL	562	562
04/08/2026 15:33:27	****01831	311 25 8794	10.49 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	15219	Hash	311	311
04/08/2026 16:25:07	****01971	311 25 0690	21.75 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	3917	4000 MARKHAM	311	311
04/08/2026 20:13:59	****01291	311 18 3658	9.572 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	88651	SPRY	311	311
04/08/2026 21:48:01	****01641	311 21 3180	14.58 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	41770	42652 KAYS	311	311

04/09/2026 07:37:18	****01741	311 23 7347	19.66 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	12080	Shouse	311	311
04/09/2026 08:28:48	****01751	311 23 7303	21.35 UNL	Quiktrip 0033	2400 E Kenosha St	Broken Arrow	OK	74014	39225	simpson-brow	311	311
04/09/2026 09:01:04	****00341	411 UTILITY 2	8.792 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	125018	knoepfel	411	411
04/09/2026 09:05:39	****01463	411 ENGINE 1	12.12 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	64487	NEIGHLEY	411	411
04/09/2026 09:47:16	****01531	311 20 4197	16.54 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	57406	COMPTON	315	311
04/09/2026 10:58:03	****01901	411 RESCUE 2	11.37 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	9508	KRIMBILL	411	411
04/09/2026 13:44:59	****00351	311 13 4107	10.62 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	108732	parker	315	311
04/09/2026 16:53:15	****01871	311 25 8786	17.58 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	28461	simmons	311	311
04/09/2026 18:01:11	****01851	311 25 9080	11.89 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	11529	milller	311	311
04/10/2026 00:50:37	****01351	311 18 3661	7.731 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	89663	Boileau	311	311
04/10/2026 05:36:39	****01341	311 18 9940	13.79 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	81263	FOSTER	311	311
04/10/2026 05:41:26	****02001	411 LADDER 1	19.41 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	2794	MITCHELL	411	411
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04/10/2026 15:31:32	****01291	311 18 3658	7.574 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	88722	SPRY	311	311
04/10/2026 18:30:42	****00231	311 17 2922	12.1 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	140022	CHANDLEE	311	311
04/11/2026 05:46:08	****01841	311 25 9123	7.875 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	16533	LUTTRELL	311	311
04/11/2026 06:05:57	****01951	311 25 0706	22.21 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	3864	COLE	311	311
04/11/2026 07:47:07	****02001	411 LADDER 1	19.63 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	2867	SMITH	411	411
04/11/2026 09:41:46	****00811	311 17 2923	12.41 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	122427	WARD	311	311
04/11/2026 12:19:58	****01881	562 25 7873	10.9 UNL	Quiktrip 0121	12100 S Waco Ave	Sapulpa	OK	74066	12410	MCDANIEL	562	562
04/11/2026 12:36:34	****01961	311 25 0638	18.36 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	3055	3121 Solomon	311	311
04/11/2026 12:41:32	****01311	311 18 3659	6.621 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	115967	SPINNER	311	311
04/11/2026 21:36:15	****01541	311 20 4199	5 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	95468	95612 KAYS	311	311
04/11/2026 22:12:32	****00051	311 17 4535	12.51 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	91162	FLETCHER	311	311
04/12/2026 04:52:50	****01981	311 25 0628	15.74 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	4345	Goode	311	311
04/12/2026 05:56:05	****01341	311 18 9940	14.03 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	8200	81392 FOSTER	311	311
04/12/2026 07:46:01	****01901	411 RESCUE 2	11.56 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	9591	KRIMBILL	411	411
04/12/2026 13:46:53	****01311	311 18 3659	8.681 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	116048	SPINNER	311	311
04/12/2026 18:18:17	****01851	311 25 9080	13.65 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	11645	milller	311	311
04/12/2026 21:40:19	****01641	311 21 3180	15.01 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	41985	43121 KAYS	311	311
04/12/2026 21:58:03	****01351	311 18 3661	11.87 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	89769	Boileau	311	311
04/12/2026 23:31:43	****01261	311 18 4849	8.972 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	114470	MCFARLAND	311	311
04/13/2026 01:12:39	****02001	411 LADDER 1	12.73 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	2917	NEIGHLEY	411	411
04/13/2026 05:56:41	****01841	311 25 9123	10.89 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	16661	LUTTRELL	311	311
04/13/2026 07:34:11	****01951	311 25 0706	12 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	3960	COLE	311	311
04/13/2026 07:52:20	****01931	561 199 25 FORD	9.473 UN+	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	5212	SCOTTJ	561	561
04/13/2026 07:59:21	****01811	561 627 19 FORD	24.37 SUP	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	140107	STEED	531	561
04/13/2026 10:18:17	****00801	311 15 3007	14.03 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	124584	golliday	311	311
04/13/2026 10:18:47	****01901	411 RESCUE 2	6.946 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	9615	SCHULTZE	411	411
04/13/2026 13:35:25	****00811	311 17 2923	11.77 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	122550	WARD	311	311
04/13/2026 13:43:21	****01311	311 18 3659	7.795 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	116135	SPINNER	311	311
04/13/2026 14:41:43	****00112	311 13 9781	7.158 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	141776	141637 SEMKE	311	311
04/13/2026 19:42:42	****00051	311 17 4535	12.95 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	91328	FLETCHER	311	311
04/13/2026 22:04:28	****01861	311 25 7838	14.66 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	9894	DAVIS	311	311
04/14/2026 02:11:26	****01731	311 23 7435	18.53 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	40400	NUNNELEE	311	311
04/14/2026 06:02:52	****01341	311 18 9940	13.93 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	82460	81520 FOSTER	311	311
04/14/2026 07:48:55	****02011	561 197 19 FORD	38.84 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	88546	GERJES	561	561
04/14/2026 09:40:08	****01771	411 601 COMMAND 1	22.95 UNL	Quiktrip 0106	91 W 141st St	Glenpool	OK	74033	54758	OSTRUM	411	411
04/14/2026 12:16:14	****00711	512 501 12 FORD	23.44 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	118745	ORTEGON	512	512
04/14/2026 12:36:51	****01901	411 RESCUE 2	11.73 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	9653	SCHULTZE	411	411
04/14/2026 13:10:47	****00801	311 15 3007	8.803 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	124670	golliday	311	311
04/14/2026 13:14:15	****01621	411 UTILITY 5	21.32 UNL	Quiktrip 0121	12100 S Waco Ave	Sapulpa	OK	74066	107922	117433 o brien	411	411
04/14/2026 13:47:12	****00351	311 13 4107	6.65 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	108832	parker	315	311
04/14/2026 13:48:50	****01311	311 18 3659	5.81 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	116190	SPINNER	311	311
04/14/2026 14:22:05	****01971	311 25 0690	18.12 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	4109	MARKHAM	311	311
04/14/2026 16:39:03	****01463	411 ENGINE 1	18.33 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	64561	SMITH	411	411
04/14/2026 17:40:46	****01641	311 21 3180	17.07 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	42195	KAYS	311	311
04/14/2026 20:42:04	****01821	311 25 0626	15.5 UNL	Quiktrip 0081	4705 S Elm Pl	Broken Arrow	OK	74011	17374	17288 MARTIN	311	311
04/14/2026 21:10:25	****01871	311 25 8786	15.36 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	28731	simmons	311	311
04/15/2026 05:35:32	****00281	311 14 0892	10.5 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	113288	zumwalt	315	311
04/15/2026 05:41:03	****00341	411 UTILITY 2	10.39 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	125114	flora	411	411
04/15/2026 05:48:29	****02001	411 LADDER 1	18.12 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	2974	SMITH	411	411
04/15/2026 05:56:34	****01631	311 21 3044	8.698 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	61848	Galloway	311	311

04/15/2026 06:00:06	****01841	311 25 9123	11.48 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	16765	LUTTRELL	311	311
04/15/2026 12:03:14	****01881	562 25 7873	8.182 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	12530	MCDANIEL	562	562
04/15/2026 12:41:11	****01311	311 18 3659	7.648 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	116274	SPINNER	311	311
04/15/2026 13:46:02	****01271	311 18 4850	5.589 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	72008	ARNOLD	311	311
04/15/2026 14:35:47	****00771	561 649 04 FORD	27.03 UN+	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	150018	149887 LEWIS	521	561
04/15/2026 15:42:49	****00534	311 16 8369	9.946 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	143451	TURNER	315	311
04/15/2026 16:07:17	****01291	311 18 3658	8.646 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	88800	SPRY	311	311
04/15/2026 22:00:34	****01641	311 21 3180	10 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	42335	KAYS	311	311
04/15/2026 22:02:09	****01501	311 20 4189	7.677 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	59112	59158 Boileau	311	311
04/16/2026 08:41:19	****01751	311 23 7303	20.03 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	39508	simpson-brow	311	311
04/16/2026 10:59:41	****01901	411 RESCUE 2	17.34 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	9720	SCHULTZE	411	411
04/16/2026 11:44:53	****00801	311 15 3007	10.91 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	124815	golliday	311	311
04/16/2026 13:14:38	****01781	411 602 COMMAND 2	20.97 UNL	Quiktrip 0012	2 E 41st St	Sand Springs	OK	74063	24720	ZICKEFOOSE	411	411
04/16/2026 13:40:42	****00901	311 17 4536	11.68 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	73480	Mcnulty	311	311
04/16/2026 16:28:42	****01531	311 20 4197	15.11 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	57600	COMPTON	315	311
04/16/2026 19:56:50	****01861	311 25 7838	11.72 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	9985	DAVIS	311	311
04/16/2026 21:01:03	****01761	311 23 7425	21.58 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	22498	Jackson	311	311
04/17/2026 05:28:40	****01351	311 18 3661	11.81 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	89839	Boileau	311	311
04/17/2026 05:53:54	****01631	311 21 3044	9.75 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	61927	Galloway	311	311
04/17/2026 06:02:15	****00501	311 11 1550	24.93 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	10430	104008 Bowdle	311	311
04/17/2026 07:09:35	****01341	311 18 9940	7.786 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	8553	81592 FOSTER	311	311
04/17/2026 07:21:13	****01951	311 25 0706	18.94 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	4110	COLE	311	311
04/17/2026 07:48:40	****02011	561 197 19 FORD	33.84 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	88781	GRAVES	533	561
04/17/2026 08:26:32	****00231	311 17 2922	12.75 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	140237	CHANDLEE	311	311
04/17/2026 09:32:55	****01811	561 627 19 FORD	35.04 SUP	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	1440261	140258 STEED	531	561
04/17/2026 11:36:11	****01901	411 RESCUE 2	10.66 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	9756	RHODES	411	411
04/17/2026 13:40:10	****00811	311 17 2923	11.18 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	122655	WARD	311	311
04/17/2026 14:06:07	****01463	411 ENGINE 1	15.31 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	64624	LAMBDIN	411	411
04/17/2026 15:03:51	****01271	311 18 4850	8.882 UNL	Quiktrip 7010	10801 N I 35 Service	Oklahoma City	OK	73131-5015	72139	ARNOLD	311	311
04/17/2026 15:11:42	****01471	411 603 COMMAND 3	7.72 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	50800	flora	411	411
04/17/2026 16:55:33	****01291	311 18 3658	11.17 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	88888	SPRY	311	311
04/17/2026 17:04:43	****01871	311 25 8786	14.1 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	28964	simmons	311	311
04/17/2026 18:20:09	****00051	311 17 4535	11.55 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	91461	FLETCHER	311	311
04/18/2026 05:28:58	****01261	311 18 4849	17.52 UNL	Quiktrip 0121	12100 S Waco Ave	Sapulpa	OK	74066	114726	MCFARLAND	311	311
04/18/2026 22:36:03	****01981	311 25 0628	14.94 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	4492	Goode	311	311
04/18/2026 23:01:06	****01851	311 25 9080	9.15 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	11920	11736 miller	311	311
04/18/2026 23:10:37	****01311	311 18 3659	11.43 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	116399	SPINNER	311	311
04/18/2026 23:28:30	****00051	311 17 4535	9.794 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	918581	91585 FLETCHER	311	311
04/19/2026 01:35:53	****01351	311 18 3661	9.737 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	89942	Boileau	311	311
04/19/2026 05:55:38	****01341	311 18 9940	12.19 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	81701	FOSTER	311	311
04/19/2026 05:57:33	****01841	311 25 9123	10.09 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	16897	LUTTRELL	311	311
04/19/2026 06:05:10	****01831	311 25 8794	7.188 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	15367	Hash	311	311
04/19/2026 08:24:04	****01771	411 601 COMMAND 1	23.01 UNL	Quiktrip 0073	903 E Trudgeon St	Henryetta	OK	74437-4403	55123	OSTRUM	411	411
04/19/2026 12:28:52	****01901	411 RESCUE 2	12.84 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	9799	SCHULTZE	411	411
04/19/2026 12:39:11	****00801	311 15 3007	13.06 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	124964	golliday	311	311
04/19/2026 15:05:28	****01971	311 25 0690	19.87 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	4312	MARKHAM	311	311
04/19/2026 15:23:13	****01871	311 25 8786	13.54 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	29178	simmons	311	311
04/19/2026 16:02:19	****01311	311 18 3659	4.748 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	116448	SPINNER	311	311
04/19/2026 17:29:11	****00811	311 17 2923	13.06 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	122756	WARD	311	311
04/20/2026 02:11:16	****01641	311 21 3180	10.39 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	42506	KAYS	311	311
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04/20/2026 12:32:56	****01463	411 ENGINE 1	20.25 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	64706	MERCER	411	411
04/20/2026 12:40:54	****02001	411 LADDER 1	24.86 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	3057	SMITH	411	411
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04/20/2026 14:27:26	****01311	311 18 3659	8.832 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	116540	SPINNER	311	311
04/20/2026 14:36:46	****00441	512 660 16 HYUNDA	7.307 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	66380	66281 rush	512	512
04/20/2026 16:26:36	****01881	562 25 7873	18.24 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	12806	SIMMONS	562	562
04/20/2026 18:48:56	****00051	311 17 4535	13 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	91748	918745 FLETCHER	311	311
04/20/2026 20:02:59	****01291	311 18 3658	11.43 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	89003	SPRY	311	311
04/21/2026 05:48:25	****01631	311 21 3044	13.32 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	62078	Galloway	311	311
04/21/2026 09:38:17	****00801	311 15 3007	14.51 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	125139	golliday	311	311
04/21/2026 13:33:48	****01271	311 18 4850	8.112 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	72278	ARNOLD	311	311
04/21/2026 14:00:01	****00112	311 13 9781	14.79 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	142013	SEMKE	311	311
04/21/2026 14:18:39	****01311	311 18 3659	6.01 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	116614	SPINNER	311	311

04/21/2026 16:05:29	****01231	562 10 0502	15.22 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	115249	SIMMONS	562	562
04/21/2026 20:01:47	****01421	411 LADDER 2	11.82 DSL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	32969	NEIGHLEY	411	411
04/21/2026 22:50:30	****01641	311 21 3180	14.54 UNL	Quiktrip 0101	712 S Elm St	Jenks	OK	74037	42712	KAYS	311	311

GENERAL FUND ENCUMBRANCES AND EXPENDITURES

Payroll and Benefits for approval May 1, 2026 through May 15, 2026

	BIWEEKLY	SEMI-MONTHLY
PAYROLL FOR EMPLOYEES	\$130,000.00	\$45,000.00

EMPLOYEE PAID PAYROLL BENEFITS INCLUDED IN PAYROLL

Bank of Oklahoma	Federal Tax Deposit	\$11,500.00	\$3,500.00
Bank of Oklahoma	State Tax Deposit	\$4,500.00	\$1,500.00
Bank of Oklahoma	FICA/Medicare Taxes	\$5,900.00	\$600.00
AFLAC	Accident Insurance	\$500.00	\$0.00
Benefits Resource Inc	Flex Plan	\$1,550.00	\$150.00
Community Care	Medical Insurance	\$500.00	\$1,000.00
Dearborn Life	Previous Life Insurance	\$150.00	\$0.00
Delta Dental	Dental Insurance	\$800.00	\$400.00
FF Dues	Firefighters Union/Station Dues	\$0.00	\$600.00
FOP DUES	Police Union Dues	\$600.00	\$0.00
Garnishments	Various CS, EDUC, GARNISH	\$300.00	\$450.00
OK Fire Pension	9% Fire Retirement	\$800.00	\$3,700.00
Mutual of Omaha	Life Insurance	\$375.00	\$75.00
OK Police Pension	8% Police Retirement	\$5,000.00	\$0.00
Vision Services Plan	Vision Insurance	\$150.00	\$50.00
VOYA	457 Retirement	\$1,800.00	\$0.00
	TOTAL	\$34,425.00	\$12,025.00

ADDITIONAL EMPLOYER PAID PAYROLL BENEFITS

Bank of Oklahoma	FICA/Medicare	\$5,000.00	\$600.00
Community Care	Medical Insurance	\$18,000.00	\$5,750.00
Fire Pension	14% Fire Retirement	\$0.00	\$7,000.00
Mutual of Omaha	Life Insurance	\$300.00	\$90.00
OKMRF	6.8% Employee Retirement	\$4,000.00	\$0.00
Police Pension	13% Police Retirement	\$8,000.00	\$0.00
	TOTAL	\$35,300.00	\$13,440.00

*Please note that expenditures and encumbrances are shown based on 26 pay periods unless noted as semimonthly.

GENERAL FUND ENCUMBRANCES AND EXPENDITURES

Payroll and Benefits for approval May 16, 2026 through May 31, 2026

PAYROLL FOR EMPLOYEES

BIWEEKLY	SEMI-MONTHLY
\$134,000.00	\$45,000.00

EMPLOYEE PAID PAYROLL BENEFITS INCLUDED IN PAYROLL

Bank of Oklahoma	Federal Tax Deposit	\$11,750.00	\$3,500.00
Bank of Oklahoma	State Tax Deposit	\$4,750.00	\$1,500.00
Bank of Oklahoma	FICA/Medicare Taxes	\$6,000.00	\$600.00
AFLAC	Accident Insurance	\$500.00	\$0.00
Benefits Resource Inc	Flex Plan	\$1,550.00	\$150.00
Community Care	Medical Insurance	\$500.00	\$1,000.00
Dearborn Life	Previous Life Insurance	\$150.00	\$0.00
Delta Dental	Dental Insurance	\$800.00	\$400.00
FF Dues	Firefighters Union/Station Dues	\$0.00	\$600.00
FOP DUES	Police Union Dues	\$600.00	\$0.00
Garnishments	Various CS, EDUC, GARNISH	\$300.00	\$450.00
OK Fire Pension	9% Fire Retirement	\$800.00	\$3,700.00
Mutual of Omaha	Life Insurance	\$375.00	\$75.00
OK Police Pension	8% Police Retirement	\$5,000.00	\$0.00
Vision Services Plan	Vision Insurance	\$150.00	\$50.00
VOYA	457 Retirement	\$1,800.00	\$0.00
	TOTAL	\$35,025.00	\$12,025.00

ADDITIONAL EMPLOYER PAID PAYROLL BENEFITS

Bank of Oklahoma	FICA/Medicare	\$5,500.00	\$600.00
Community Care	Medical Insurance	\$20,000.00	\$5,750.00
Fire Pension	14% Fire Retirement	\$0.00	\$7,000.00
Mutual of Omaha	Life Insurance	\$500.00	\$90.00
OKMRF	6.8% Employee Retirement	\$4,500.00	\$0.00
Police Pension	13% Police Retirement	\$8,500.00	\$0.00
	TOTAL	\$39,000.00	\$13,440.00

*Please note that expenditures and encumbrances are shown based on 26 pay periods unless noted as semimonthly.



CITY OF JENKS
211 NORTH ELM STREET • P.O. BOX 2007
JENKS, OKLAHOMA 74037-2007
PHONE (918) 299-5883 • FAX (918) 299-4489

Memorandum

To: Mayor & Members of Council
From: Micheal Sanchez, Deputy Finance Director
Date: May 12, 2026
Re: **Leverage Act Fund establishment**

City Resolution No. 896

The Enterprise Zone Incentive Act (the “Leverage Act”) went into effect on July 1, 2000 through the passage of Oklahoma SB 71. The Act is intended to encourage economic development within designated enterprise zones. It provides funding for local units of government to match local tax revenue dedicated to support a project in an enterprise zone. For the City of Jenks, the enterprise zones are our TIF districts.

During the current fiscal year, the Oklahoma Tax Commission finalized the process for municipalities to submit Leverage Act requests. The City has submitted requests and is now receiving Leverage Act matching funds. As these are special revenue funds and have restrictions on their use, establishing a special revenue fund to account for any revenues and expenditures related to the Leverage Act would be a proper approach.

Staff recommends approval.

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF JENKS, OKLAHOMA ESTABLISHING A NEW SPECIAL REVENUE FUND FOR THE CITY OF JENKS, OKLAHOMA, FOR FISCAL YEAR ENDING JUNE 30, 2026.

WHEREAS, the City of Jenks has received revenues from the Oklahoma Enterprise Zone Incentive Leverage Act for fiscal year 2025-2026; and

WHEREAS, the Leverage Act restricts the use of these funds towards certain projects and improvements in certain areas; and

WHEREAS, the City of Jenks aims to account for these funds separately from the general operating fund due to Leverage Act provisions;

NOW THEREFORE BE IT RESOLVED by the City of Jenks that the following special revenue fund be established to account for the revenues and expenditures associated with the Oklahoma Enterprise Zone Incentive Leverage Act reimbursements:

Leverage Act Fund

PASSED BY THE CITY COUNCIL OF THE CITY OF JENKS, Oklahoma, and signed by the Mayor this 12th day of May 2026.

Mayor

Attest:

Brandon Macy, City Clerk

Approved as to form:

Teresa Nowlin, City Attorney

April 17, 2026

Christopher Shrout, City Manager
City of Jenks
P.O. Box 2007
Jenks, Oklahoma 74037

Re: Permit No. SL000072260333
Belvedere Reserve Sanitary Sewer Line Extension
Facility No. S-20403

Dear Mr. Shrout:

Enclosed is Permit No. SL000072260333 for the construction of 1,427 linear feet of eight (8) inch PVC sanitary sewer line and all appurtenances to serve the Belvedere Reserve, Tulsa County, Oklahoma.

The project authorized by this permit should be constructed in accordance with the plans approved by the Department of Environmental Quality ("DEQ") on April 17, 2026. Any deviations from the approved plans and specifications affecting capacity, flow, or operation of units must be approved, in writing, by DEQ before changes are made.

Receipt of this permit should be noted in the minutes of the next regular meeting of the City of Jenks, after which it should be made a matter of permanent record.

Approved plans and specifications are available upon request.

Respectfully,



Qusay Kabariti, P.E.
Construction Permit Section
Water Quality Division

Enclosure

PERMIT TO CONSTRUCT

April 17, 2026

Pursuant to O.S. 27A 2-6-304, the City of Jenks is hereby granted this Tier I Permit to construct 1,427 linear feet of eight (8) inch PVC sanitary sewer line and all appurtenances to serve the Belvedere Reserve, located in the SW 1/4 of section 4, T-14-N, R-13-E, Tulsa County, Oklahoma, in accordance with the plans approved April 17, 2026.

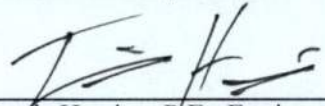
By acceptance of this permit, the permittee agrees to operate and maintain the facilities in accordance with the Oklahoma Administrative Code ("OAC") 252:606 rules and to comply with Title 59, Section 1101-1116 O.S. and the rules and regulations adopted thereunder regarding the requirements for certified operators.

This permit is issued subject to the following provisions and conditions.

- 1) That the recipient of the permit is responsible for ensuring that the project receives supervision and inspection by competent and qualified personnel.
- 2) That construction of all phases of the project will be started within one year of the date of approval or the phases not under construction will be resubmitted for approval as a new project.
- 3) That no significant information necessary for a proper evaluation of the project has been omitted and no invalid information has been presented in applying for the permit.
- 4) That wherever water and sewer lines are constructed with spacing of 10 feet or less, sanitary protection will be provided in accordance with OAC 252:656-5-4(c)(3).
- 5) That tests will be conducted as necessary to ensure that the construction of the sewer lines will prevent excessive infiltration and that the leakage will not exceed 10 gallons per inch of pipe diameter per mile per day.
- 6) That the Oklahoma Department of Environmental Quality ("DEQ") shall be kept informed of occurrences which may affect the eventual performance of the works or that will unduly delay the progress of the project.
- 7) That the permittee will take steps to assure that the connection of house services to the sewers is done in such a manner that the functioning of the sewers will not be impaired and that earth and ground water will be excluded from the sewers when the connection is completed.
- 8) That any deviations from approved plans or specifications affecting capacity, flow, or operation of units must be approved by DEQ before any such deviations are made in the construction of this project.
- 9) That any notations or changes recorded on the official set of plans and specifications in DEQ files shall be part of the plans as approved.

- 10) That the recipient of the permit is responsible for the continued operation and maintenance of these facilities in accordance with rules and regulations adopted by the Environmental Quality Board, and that DEQ will be notified in writing of any sale or transfer of ownership of these facilities.
- 11) The issuance of this permit does not relieve the responsible parties of any obligations or liabilities which the permittee may be under pursuant to prior enforcement action taken by DEQ.
- 12) That the permittee is required to inform the developer/builder that a DEQ Storm Water Construction Permit is required for a construction site that will disturb one (1) acre or more in accordance with OPDES, 27A O.S. 2-6-201 *et. seq.* For information or a copy of the GENERAL PERMIT (OKR10) FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES, Notice of Intent (NOI) form, Notice of Termination (NOT) form, or guidance on preparation of a Pollution Prevention Plan, contact the Storm Water Unit of the Water Quality Division at P.O. Box 1677, Oklahoma City, OK 73101-1677 or by phone at (405) 702-8100.
- 13) That all manholes shall be constructed in accordance with the standards established in OAC 252:656-5-3.
- 14) That when it is impossible to obtain proper horizontal and vertical separation as stipulated in OAC 252:656-5-4(c)(1) and OAC 252:656-5-4(c)(2), respectively, the sewer shall be designed and constructed equal to water pipe, and shall be pressure tested using the ASTM air test procedure with no detectable leakage prior to backfilling, in accordance with OAC 252:656-5-4(c)(3).

Failure to appeal the conditions of this permit in writing within 30 days from the date of issue will constitute acceptance of the permit and all conditions and provisions.



Travis Herrian, P.E., Engineering Manager
Construction Permit Section
Water Quality Division

Sheet Index

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SANITARY SEWER PLAN	SS01
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WATER LINE PLAN	WL01
WATERLINE PROFILES	WL02
CITY OF JENKS STANDARD DETAILS	ATTACHED

Legend

A/C	AIR CONDITIONER UNIT/PAD
#GAI	# GRATE AREA INLET
AMH	ACCESS MANHOLE
B/L	BUILDING SETBACK LINE
B/W	BARBED WIRE FENCE
BC	BOTTOM OF CURB
BM	BENCHMARK
BOP	BEGINNING OF PROJECT
C/L	CHAIN LINK FENCE
CCI	CONCRETE CURB INLET
CICI	CAST IRON CURB INLET
CONC.	CONCRETE
CPED	CABLE/TV PEDESTAL
CY	CUBIC YARDS
EOP	END OF PROJECT
ELEC	ELECTRIC
EPED	ELECTRIC PEDESTAL
ESMT	EASEMENT
EX	EXISTING
F/E	FENCE EASEMENT
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOWLINE
FLT	THROAT FLOWLINE
FP	FLAG POLE
GLT	GROUND LIGHT
GM	GAS METER
GRSR	GAS RISER
GUY	DOWN GUY
GV	GAS VALVE
HDPE	HIGH DENSITY POLYETHYLENE
IPF	IRON PIN FOUND
LF	LINEAR FEET
LNA	LIMITS OF NO ACCESS
LP	LIGHT POLE
MA/E	MUTUAL ACCESS EASEMENT
MB	MAILBOX
OD/E	OVERLAND DRAINAGE ESMT
OE	OVERHEAD ELECTRIC
OL	ORNAMENTAL LIGHT
PG	PROPOSED GRADE
PP	POWER POLE
RW/E	RESTRICTED WL EASEMENT
RCP	REINFORCED CONC. PIPE
RET. WALL	RETAINING WALL
S/W	SIDEWALK
SD	STORM DRAIN
SDMH	STORMWATER MANHOLE
SF	SQUARE FEET
SGAI	SINGLE GRATE AREA INLET
SPHD	SPRINKLER HEAD
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSLH	SANITARY SEWER LAMPHOLE
SSMH	SANITARY SEWER MANHOLE
SY	SQUARE YARD
TC	TOP OF CURB
TG	TOP OF GRATE
TP	TOP OF PAVING
TPED	TELEPHONE PEDESTAL
TR	TOP OF RIM
TS	TRAFFIC SIGN
TW	TOP OF WALL
U/E	UTILITY EASEMENT
UG	UNDERGROUND GAS LINE
UTMH	UTILITY MANHOLE
W/ DIP	WITH UNDERGROUND RISER
WL	WATERLINE
WLMH	WATERLINE MANHOLE
WM	WATER METER
WRSR	WATER SPIGOT
WV	WATER VALVE

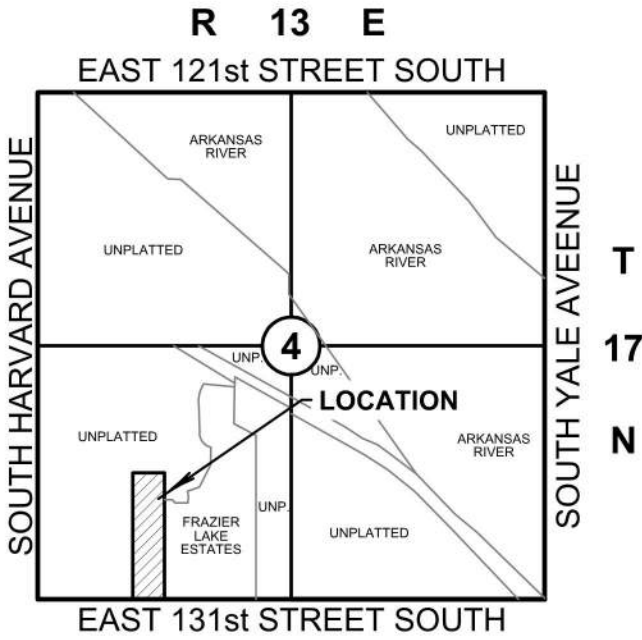
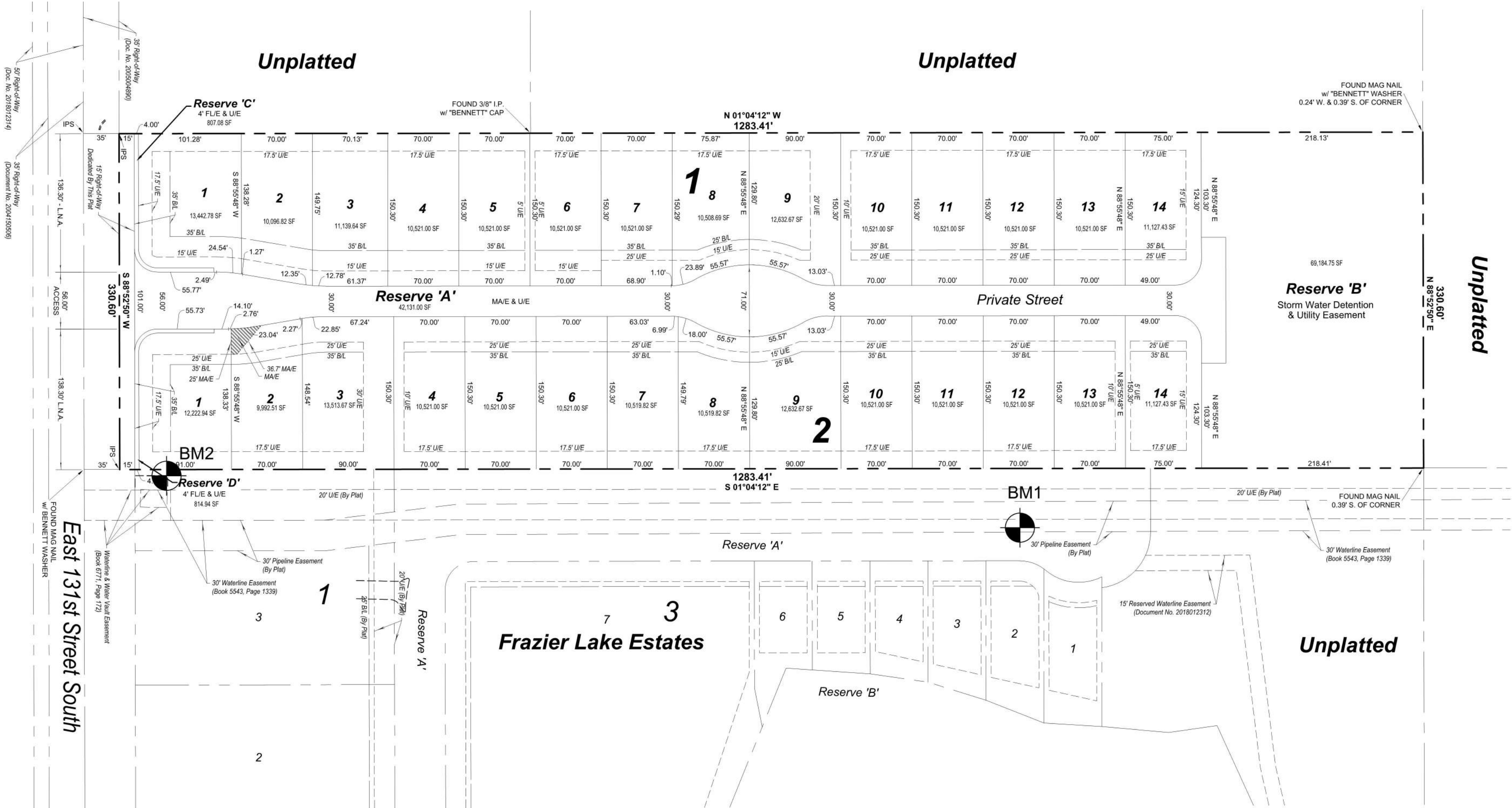
Disclaimer

THESE PLANS AND DRAWINGS ARE NOT TO BE CHANGED IN ANY FORM OR MANNER WHATSOEVER WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF ENGINEERED BY DESIGN, PLLC. ANY CHANGES MADE FROM THESE PLANS WITHOUT CONSENT OF ENGINEERED BY DESIGN, PLLC ARE UNAUTHORIZED, AND SHALL RELIEVE ENGINEERED BY DESIGN, PLLC OF RESPONSIBILITY FOR ALL CONSEQUENCES ARRIVING OUT OF SUCH CHANGE(S).

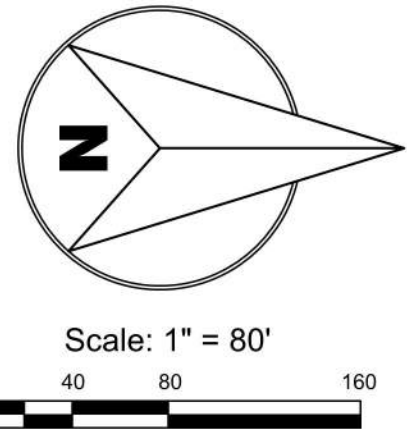
Grading, Erosion Control, Storm Sewer, Paving,
Sanitary Sewer & Waterline Plans for

Belvedere Reserve

A SUBDIVISION IN THE CITY OF JENKS, BEING A PART OF THE SOUTHWEST QUARTER (SW/4) OF SECTION FOUR (4), TOWNSHIP SEVENTEEN (17) NORTH, RANGE THIRTEEN (13) EAST OF THE INDIAN BASE AND MERIDIAN, TULSA COUNTY, STATE OF OKLAHOMA, ACCORDING TO THE U.S. GOVERNMENT SURVEY THEREOF.



Location Map
SCALE: 1"=2000'



SURVEYOR'S NOTES

BEARINGS ARE BASED UPON THE OKLAHOMA STATE PLANE COORDINATE SYSTEM, (3501 OK N), NORTH AMERICAN DATUM 1983 (NAD83). MEASUREMENTS SHOWN ARE GRID DISTANCES IN U.S. SURVEY FEET.

TOPOGRAPHIC INFORMATION SHOWN HEREON IS RELATIVE TO NAVD 1988 DATUM PER ADS CONTROL STATION #49, ELEVATION 683.255' AS THE PRIMARY BENCHMARK. SITE BENCHMARKS AS SHOWN HEREON. CONTOUR INTERVAL IS 1'.

EASEMENT AND BUILDING SETBACK LINES SHOWN ON THE RECORDED PLAT ARE SHOWN HEREON. EASEMENTS PROVIDED IN EASEMENT REPORT BY SMITH BROTHERS TITLE & ABSTRACT COMPANY ARE SHOWN OR NOTED HEREON. EASEMENTS MAY EXIST THAT ARE NOT SHOWN.

REFER TO CURRENT ZONING FOR NEW CONSTRUCTION GUIDELINES. SUBJECT PROPERTY IS ZONED LC & AG PER JENKS COUNTY ZONING CODE.

SET 3/8" IRON PIN W/ GREEN "FRITZ CA5848" CAP OR MAG NAIL W/ "FRITZ CA5848" WASHER AT ALL CORNERS UNLESS OTHERWISE NOTED AND SHOWN HEREON.

GROSS LAND AREA: 435,867.7 SQ. FEET OR 10.01 ACRES.

Contact List

CITY OF JENKS PUBLIC WORKS:
BARRY PARSONS, PUBLIC WORKS DIRECTOR
918-299-9511

CITY OF JENKS ENGINEERING:
CHAD CICERO, PUBLIC INFRASTRUCTURE INSPECTOR
847-804-0327

PUBLIC SERVICE COMPANY OF OKLAHOMA (PSO):
KENT SANDS, ENGINEER SR
918-859-7248

EAST CENTRAL ELECTRIC COOP (ECEC):
CALEB BRENNEKE, STAKING SUPERVISOR
918-365-1263

OKLAHOMA NATURAL GAS (ONG):
CHANCE MARSHALL, PMP
918-760-3598

AT&T
KEVIN BENDER, SR SPECIALIST
918-859-9147

STATE OF OKLAHOMA
Department of Environmental Quality
APPROVED
Water Quality Division
Construction Permitting Section

DECEMBER 2025
APRIL 2026
JULY 2026
AUGUST 2026

Construction Schedule

EARTHWORK
STORM SEWER, SANITARY SEWER & WATERLINE
PAVING & SIDEWALKS
CLEANUP & STABILIZATION

Subdivision Statistics

SUBDIVISION CONTAINS TWENTY-EIGHT (28) LOTS IN TWO (2) BLOCKS AND FOUR (4) RESERVE AREAS.

GROSS SUBDIVISION AREA: 424,296.7 SF / 9.74 ACRES

Basis of Bearings

BEARINGS ARE BASED UPON THE OKLAHOMA STATE PLANE COORDINATE SYSTEM, (3501 OK N), NORTH AMERICAN DATUM 1983 (NAD83). MEASUREMENTS SHOWN ARE GRID DISTANCES IN U.S. SURVEY FEET.

Owner's Statement

I CERTIFY THAT THE APPROVED PLANS WILL BE IMPLEMENTED UNDER THE DIRECT SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER.

SIGNATURE

DATE

Owner / Developer

CLEARFIELD PARTNERS, LLC
P.O. BOX 265
JENKS, OK 74037
PHONE: (918) 260-1415
MR. RUSSELL D. COZORT
EMAIL: rdc4855@aol.com

Surveyor

FRITZ LAND SURVEYING, LLC
524 EAST MAIN STREET
JENKS, OKLAHOMA 74037
PHONE: (918) 528-5121
EMAIL: fritzlandsurveying@gmail.com
C.A. # 5848 EXPIRES: 6-30-2026

Engineer

ENGINEERED BY DESIGN, PLLC
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C.A. # 7655 EXPIRES 6-30-2026

CONSULTANTS



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Ph: 405-234-0980
CA# 7655 - Expires 6/30/2026



P.O. Box 548
Bixby, Oklahoma 74008
Phone: (918) 798-6356

PROJECT NAME

Belvedere Reserve

Jenks, OK
Project No. 2296

SEAL



"I hereby certify that I am familiar with the adopted ordinances and regulations of the City of Jenks governing drainage, streets, detention, and floodplains; that these plans have been prepared under my direct supervision; the above and the foregoing plans comply with all governing ordinances and the adopted standards of the City of Jenks to the best of my knowledge, information, and belief."

"These plans comply with all governing ordinances and the adopted criteria of the City of Jenks pertaining to drainage, streets, detention, and earth change to the best of my knowledge, information and belief."

REVISIONS

REVISED PER CITY COMMENTS	8/10/2025
REVISED PER CITY COMMENTS	10/28/2025
REVISED PER CITY COMMENTS	12/18/2025
REVISED PER CITY COMMENTS	2/3/2026
REVISED PER CITY COMMENTS	3/23/2026

ISSUE DATE

12/18/2025

SCALE

1"=80'

SHEET NAME

COVER SHEET

SHEET NO.

C1



EXISTING UNDERGROUND LINES HAVE BEEN SHOWN TO THE EXTENT KNOWN. CALL 811 BEFORE YOU DIG!

ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH THE CITY OF JENKS ENGINEERING STANDARD SPECIFICATIONS, INCLUDING O.D.O.T. 2019 EDITION AND APPLICABLE SUPPLEMENTS.

SURVEY CONTROL TABLE			
POINT	NORTHING	EASTING	ELEVATION
BM1	361890.05	2579309.15	686.69
BM2	361049.19	2579272.77	686.45

Permit Number: SL000072260333-R

Date Received: April 14 2026

City of Jenks

Standard Notes for Construction Plans

GENERAL NOTES

- Wherever the word "City" appears herein the same shall conclusively be deemed to mean the City of Jenks, Oklahoma unless the context clearly dictates otherwise.
- All construction activities on private property will require property owner approval. Contractor, upon needing to do any construction activities on property other than the developers (i.e. other property owners, City of Jenks, City of Tulsa, Tulsa county, etc.) shall leave the property in the same or better conditions.
- Contractor and all related construction activities will be required to maintain normal working hours if significant public request is made to the City in this regard.
- A pre-construction meeting is required and can be coordinated with city staff at (918) 556-7467. Five (5) 11"x17" sets of final plans are to be provided at the time of the meeting.
- Conditions set forth within the earth change permit remain valid throughout all construction activities and development sequences of this development.
- No construction activities on the water and sanitary sewer systems are permitted until the City Engineer's Office has received a copy of the ODEQ "Permit to Construct" and authorization to proceed with the water system and sanitary systems has been provided by the City Engineer.
- All construction shall be in strict accordance with the current City of Jenks, Department of Public Works, Engineering Department Standards and Specifications and the 2019 Edition of the Oklahoma Department of Transportation Standard Specifications for Highway Construction and as may be subsequently revised, updated and adopted.
- Easements, building setbacks, rights-of-way, signs, lighting, landscaping and other appurtenances are designed to be in compliance with the conditions set forth by the City Planner, Planning Commission and City Council. All design plans for water distribution, sanitary sewer collection, roadway and storm water systems construction installation shall meet or exceed the City of Jenks construction standards and municipal policy and are in compliance with City of Jenks Standards.
- All previous conditions set forth within the Earth Change Permit remain valid throughout all of the construction activities and development sequences of this Development.
- The Contractor and any other subcontractors under separate contract is/are required to attend a pre-construction meeting with the City of Jenks staff. Such a meeting is required before any infrastructure construction is performed. The City of Jenks will not approve construction activities to proceed until such a meeting is held. Such meetings will also be mandatory, upon the City of Jenks' request, during the construction process should the City of Jenks determine it to be necessary.
- Site grading shall be performed in a manner consistent with the Storm Water Pollution Prevention Plan (SWP3) previously submitted for this project.
- All excavated areas within the detention pond above the water line, rights-of-way, parks and drainage ways shall have ground cover (i.e., sod or hydro-mulch) installed immediately following final excavation work per ODEQ OKR10. All ground cover shall be maintained and watered until well established.

PAVING NOTES

- All paving, drainage and erosion control is designed in accordance with the current city of Jenks land subdivision code and all construction installation shall meet or exceed the City of Jenks construction standards and municipal policy.
- The project responsible contractor and any other sub-contractors under separate contract is/are required to have a pre-construction meeting with City staff. Such a meeting is required before any infrastructure construction is performed. Should the responsible contractor(s) representative fail to participate within a mutually scheduled pre-construction meeting, all construction activities shall be immediately terminated indefinitely by the City.
- All paving construction shall be inspected by the Engineering Department utility inspectors, in accordance with City policy.
- The paving contractor shall notify the Engineering Department at least 48 hours prior to start of construction.
- All utility construction (water, sewer, and storm water) shall be completed prior to subgrade preparation.
- Subgrade shall be free of all organic matter, treated, and compacted according to the plans and specifications.
- Subgrade stabilization shall be based upon city's review of geotechnical report. Geotechnical firm to contact City Engineer prior to testing.
- Paving contractor shall be responsible for repair of unacceptable subgrade at all utility, cable or conduit crossings.
- Paving contractor shall inspect subgrade prior to commencing work and shall repair areas where grade varies more than 0.1 feet, where density is less than 95% standard proctor or where subgrade drainage is inadequate, at the unit price bid for fine grading in the proposal subgrade modifications, where required, shall not commence until subgrade repairs have been accepted by the Engineer Department inspector.
- Sequence of construction for stabilized subgrades shall be blue top and fine grade, fabric placement, aggregate base, and then final fine grading.
- Compaction tests shall be taken a minimum of every 300 linear feet in alternating lanes for each eight (8) inch lift of material.
- Subgrades shall be proof-rolled if the stability of the material is questioned. Also, the subgrade exposed after stripping and completing any cuts shall be proof-rolled according to the geotechnical report.
- Portland cement concrete shall have a 28 day compressive strength of not less than 3,500 psi, a slump of not more than 3", and shall contain six (6) percent air + or -1% or per project geotechnical report.
- Asphaltic concrete shall have density of not less than 94% and not more than 96%, and HVEEM stability of not less than 40% or per project geotechnical report.
- The contractor shall furnish the following testing services by a reputable independent testing laboratory approved by the owner's representative:
 - 15.1. Field density test of embankment, subgrade, or base, at locations specified by the inspector.
 - 15.2. Plasticity tests of the subgrade at locations specified by the engineer.
 - 15.3. Moisture density curves for material to be used for embankment or subgrade construction.
 - 15.4. Mix designs for Portland cement concrete and asphaltic concrete.
 - 15.5. Aggregate gradation tests.
 - 15.6. Stability, density, bitumen content and gradation tests of asphaltic concrete every 200 tons or daily whichever is less.
 - 15.7. Compression test of concrete cylinders at seven (7) and twenty-eight (28) days with one (1) of each tests conducted for every 100 cubic yards placed.
 - 15.8. One core sample, at a location specified by the inspector for every 8,000 square feet of pavement.
- The contractor shall furnish certification from the manufacturer that all materials meet applicable specifications. Copies of material certification shall be furnished to the Engineering Department prior to installation or incorporation of material in the work.
- The paving contractor shall adjust all valve boxes to grade after paving has been completed.
- The paving contractor shall place a concrete collar two (2) feet square and equivalent in thickness to the street being constructed, around each valve box not located in a paved area. The valve box shall be adjusted to grade prior to placing of the concrete collar.
- The paving contractor shall mark all water line crossings by cutting a "W" ¼-inch deep in the face of the curb, over the crossing and painting the "W" blue. The paving contractor shall mark all water valve location by cutting a "V" ¼ inch deep in the face of the curb, over the valve and painting the "V" blue.
- Road closures must be coordinated a minimum of forty-eight (48) hours in advance with Jenks Public Works Department and Jenks Police Department. Roads will not be closed for over eight (8) hours without written permission from the City Engineer.
- All pavement striping material shall comply with 2019 ODOT Standards Specifications for Highway Construction and placement will comply with the latest version of the Manual of Uniform Traffic Control Devices (MUTCD). 22. No excavation of existing asphalt for driveway modifications, roadway connections, etc. is permitted without prior saw-cutting asphalt at construction boundary.
- The lot property owner/builder shall be responsible for constructing the sidewalk in front of the lot owner's property in accordance with the paving plans.
- All handicap access ramps shall be the responsibility of the developer to construct as the curb and/or as roadway is being constructed.

GRADING AND EROSION CONTROL NOTES

- All grading and erosion control shall be constructed in accordance with the current City Standard Construction Specifications.
- All erosion control construction shall be inspected by the Engineering Department utility inspectors, in accordance with City policy.
- The contractor shall verify utility locations before excavating.
- Topsoil shall be stripped to a depth where soil is free of roots and vegetation.
- Strippings shall be stockpiled or windrowed on site in areas designated by owner and re-spread as directed by owner after grading is complete. Topsoil shall be spread to a depth not exceeding six (6) inches.
- Clearing and tree removal will be performed as part of the unit price for excavation and embankment and shall include grubbing roots and vegetation as may be necessary.
- Stripping, proof-rolling, subgrade scarifications and compaction and fill construction in the building and paving areas shall be performed according to the subsurface geotechnical report. Embankment beneath building pads or for paving subgrade shall be placed in lifts not exceeding eight (8) inches and compacted to a minimum of 95% standard proctor density at optimum moisture content, unless otherwise specified therein.
- All existing pavements, gravel and sand fill, concrete rubble or slabs or other surface and subsurface features from previous site use shall be removed full-depth throughout the building and pavement areas before completing subgrade preparation and placing any fill (refer to the geotechnical report for onsite observations).
- Contractor shall provide water as required to obtain specified compaction.
- Subgrade stabilization shall be at the direction of the engineer or as specified in subsurface geotechnical report.
- Civil Engineer will not interpret soils reports or accept responsibility for alternative methods proposed by the contractor.
- Density testing will be provided by the owner. Any failing test shall be re-tested at the contractor's expense until passing tests are obtained.
- Erosion control shall start prior to initial construction and be practiced throughout the project. For projects over 1 acre, erosion control shall be placed and maintained in accordance with the SWP3 for the site.
- Erosion control wattles or silt fences shall be constructed adjacent to all drainage-ways and in all areas that will erode into the storm sewer system.
- The contractor shall re-seed all areas disturbed during construction, and contractor shall be responsible for seeded areas until growth is established to a uniform height of two (2) inches. Final stabilization for erosion shall comply with ODEQ OKR10.
- Undercutting of soft spots and placement of earthwork is governed first by the geotechnical report. Observation and testing shall be performed by the geotechnical engineer to verify that the soft spots are properly over excavated and replaced or stabilized.
- Corrective measures directed by the engineer may include complete removal and replacement at no cost to owner in cases of poor workmanship or unsatisfactory in-place conditions.
- The earthwork contractor is ultimately responsible to import or export material as necessary to achieve the grades shown on the civil engineer's documents.
- Rough pad elevations and approximate pad outlines have been shown. Pad elevations were set based on a minimum elevation difference of one (1) foot above top of curb at pad corner nearest to highest row on adjacent curb.
- Some approximate elevations between pads have been shown for drainage purposes. The earthwork contractor is responsible to provide and maintain during construction positive drainage away from and between all pads.

STORM SEWER NOTES

- All storm sewer system construction installation shall meet or exceed the City of Jenks Construction Standards and municipal policy.
- The project responsible contractor and any other sub-contractors under separate contract, is/are required to have a pre-construction meeting with City staff. Such a meeting is required before any infrastructure construction is performed. Should the responsible contractor(s) representative fail to participate within a mutually scheduled pre-construction meeting, all construction activities shall be immediately terminated indefinitely by the City. Such meetings will also be mandatory, upon City's request, during the construction process, if necessary.

- All storm sewer and drainage construction shall be inspected by the Engineering Department utility inspectors in accordance with City policy.
- The contractor shall verify utility locations before excavating.
- The contractor shall notify the Engineering Department at least 48 hours prior to start of construction.
- Manholes and appurtenance details shall be approved by the City Engineer before construction is started.
- All storm sewer pipe under paving shall be HP Storm unless otherwise noted.
- All HDPE storm sewer pipe shall be ADS-N-12, or equivalent, corrugated, smooth interior plastic pipe.
- Storm sewer bedding, backfill and compaction shall be in accordance with City standard drawings or referenced ODOT drawings.
- All storm sewer lines not under paving shall be laid in type A aggregate bedding to a depth of the spring line. The trench may be backfilled with compacted soil upon approval by the inspector.
- Storm sewer lines located under paved streets shall be laid in type a aggregate bedding and the trench completely filled to subgrade with type A aggregate compacted to 95% standard proctor density.
- Pipe backfill shall be placed in lifts not exceeding eight (8) inches and compacted by vibratory plate or other method approved by the engineer.
- Paving subgrade shall be restored to proper grade (+ or - 0.1 ft) and density after pipe is backfilled.
- All curb inlets shall have cast iron hoods.
- All culverts shall be furnished with headwalls or end sections on both ends and an apron on the downstream side.
- Construction of storm sewer structures should include a temporary drain hole at a point twelve (12) inches below paving subgrade to promote drainage during construction. Paving and storm sewer contractors shall coordinate the plugging of the temporary holes.
- All precast manholes shall have adjustable top rims providing six (6) inches, plus or minus, for adjustment to final grades. Elevations shown on plans may be adjusted while the work is in progress to conform to final in-place paving and landscape grades.
- The utility contractor assumes the risk of ordering precast concrete components prior to field staking and review of field conditions at the time of construction.
- Vegetative cover shall be established on all disturbed areas as soon as the work is completed.
- Road closures must be coordinated a minimum of forty-eight (48) hours in advance with Jenks Engineering Department and Jenks Police Department. Roads will not be closed for over eight (8) hours without written permission from the City Engineer.

WATER LINE NOTES

- Wherever the word "City" appears herein the same shall conclusively be deemed to mean the City of Jenks, Oklahoma unless the context clearly dictates otherwise.
- All construction activities on private property will require property owner approval. Contractor, upon needing to do any construction activities on property other than the developers (i.e. other property owners, City of Jenks, City of Tulsa, Tulsa County, etc.) shall leave the property in the same or better conditions.
- Contractor and all related construction activities will be required to maintain normal working hours if significant public request is made to the City in this regard.
- A pre-construction meeting is required and can be coordinated with City staff at (918) 556-7467. Five (5) 11"x17" sets of final plans are to be provided at the time of the meeting.
- All water lines are typically 8" inside the Street Right-of-Way except at bends, tees or as noted.
- All Water Line pipe under pavement section or at pavement section crossings shall be backfilled with "ODOT Type A Aggregate Base" as specified in Section 703.01 in the 2019 ODOT Standard Specifications and compacted to 99% Standard Proctor Density, or a flowable fill consisting of a sand-cement slurry of 2,970 pounds of sand, 100 pounds of cement and approximately 458 pounds of water per cubic yard. The slurry will be mixed to a pourable soupy mix in a ready mix truck. All proposed pavement crossings shall be backfilled 2.0 feet beyond the back of curb. The cost of this backfill shall be included in the priced bid for other items. No additional payment will be made.
- All utility trench backfill material shall be compacted to at least 95 percent of the maximum dry density, as determined by the appropriate moisture-density rotation test or as directed by the City of Jenks.
- All water distribution systems shall be designed in accordance with the current City Of Jenks land subdivision code and all construction installation shall meet or exceed the City Of Jenks construction standards and municipal policy.
- The project responsible contractor and any other sub-contractors under separate contract, is/are required to have a pre-construction meeting with City staff. Such a meeting is required before any infrastructure construction is performed. Should the responsible contractor(s) representative fail to participate within a mutually scheduled pre-construction meeting, all construction activities shall be immediately terminated indefinitely by the City. Such meetings will also be mandatory, upon City's request, during the construction process, if necessary.
- All water distribution system construction shall be inspected by the Engineering Department utility inspectors.
- Dig through locator tape will be buried 2 feet above the line.
- When C-900 PVC is used, a No. 8 bare copper wire shall be taped to the top surface of the pipe and connected to each fire hydrant by attaching to a bolt, just move ground level.
- All iron pipe and fittings shall be poly-wrapped.
- Street crossings for main lines twelve (12) inches and larger shall be placed in conduit.
- All distribution lines in conduit and at drainage feature crossings shall be constructed with restrained joints.
- All main lines shall have a minimum of three (3) feet and a maximum of eight (8) feet of cover, unless otherwise shown herein.
- Bedding, backfill and compaction over water lines shall be in accordance with standard drawings. Backfill and compaction requirement for street crowning shall extend two (2) feet back of curb.
- Water distribution system lines, except dead end for fire hydrants only, shall be looped to provide circulation.
- Distribution lines smaller than four (4) inches shall not be installed.
- All water system service lines at road crossings shall be encased within a minimum 4-inch diameter schedule 40 PVC pipe sleeve with a 3-foot bury depth. Each service line road crossing shall only be allowed from lot line intersecting point to lot line intersecting point. No water service roadway crossings will be allowed to be connected to the main waterline in any location other than at lot line intersection points, except where necessary. In side-lot situations, connection shall be located behind the curb point of curvature and will only be allowed to terminate across the street at intersecting lot line locations 3 linear feet behind back of curb. In no case shall the water service line be constructed under a driveway.
- When working in or adjacent to existing subdivisions only one (1) day's worth of trench may be open at a given time. This requirement may be modified, in writing by the City Engineer, for a specific project.
- Road closures must be coordinated a minimum of forty-eight (48) hours in advance. Roads will not be closed for over eight (8) hours without written permission from the City Engineer.
- All fitting bends, tees and fire hydrants shall have mechanical joint restraints, with Midco grip rings.
- No construction activities on the water system are permitted until the City Engineer's office has received a copy of the ODEQ "Permit to Construct" and authorization to proceed with the water system has been provided by the City Engineer.
- The following minimum separation distances between water lines and other utilities should be maintained, should such utilities be unexpectedly encountered during construction:
 - 25.1. Ten feet horizontally and two feet vertically from sewer lines. When it is impossible to obtain such horizontal separation between the water and sewer lines, construct the sewer line of water pipe and pressure test it to assure water tightness.
 - 25.2. Five feet horizontally from existing or proposed storm sewers, raw water lines, petroleum product lines, natural gas lines and other buried utility lines.
 - 25.3. Locate PVC water lines at least 50 feet horizontally from any gasoline storage tanks and lines.
 - 25.4. Fifteen feet from all parts of septic tanks, absorption fields or other sewage treatment and disposal systems.
- Domestic water service tap shall be installed according to City of Jenks specifications by an approved water service installation contractor/plumber and inspected by Public Works Department.
- FIRE HYDRANTS:
 - 27.1. Fire hydrants shall have a Stortz 5-inch pumper nozzle.
 - 27.2. Each hydrant shall be set with the streamer nozzle facing the street and with a minimum clearance of eighteen (18) inches above the finished grade.
 - 27.3. All exposed portions of fire hydrants shall be painted with a safety yellow enamel as manufactured by Glidden or DuPont.
 - 27.4. All fire hydrants must have a 6-inch diameter gate valve installed between the fire hydrant and the waterline main with restraints between the valve and hydrant.

SANITARY SEWER NOTES

- Wherever the word "City" appears herein the same shall conclusively be deemed to mean the City of Jenks, Oklahoma unless the context clearly dictates otherwise.
- All construction activities on private property will require property owner approval. Contractor, upon needing to do any construction activities on property other than the developers (i.e. other property owners, City of Jenks, City of Tulsa, Tulsa County, etc.) shall leave the property in the same or better conditions.
- Contractor and all related construction activities will be required to maintain normal working hours if significant public request is made to the City in this regard.
- A pre-construction meeting is required and can be coordinated with City staff at (918) 556-7467. Five (5) 11"x17" sets of final plans are to be provided at the time of the meeting.
- All sanitary sewer collection systems shall be designed in accordance with the current City of Jenks Land Subdivision Code and construction installation shall meet or exceed the City of Jenks construction standards and municipal policy.
- The project responsible contractor and any other sub-contractors under separate contract, is/are required to have a pre-construction meeting with City staff. Such a meeting is required before any infrastructure construction is performed. Should the responsible contractor(s) representative fail to participate within a mutually scheduled pre-construction meeting, all construction activities shall be immediately terminated indefinitely by the City. Such meetings will also be mandatory, upon City's request, during the construction process, if necessary.
- All sanitary sewer collection system construction shall be inspected by the Engineering Department utility inspectors.
- C900 PVC pipe shall be used under all street crossings manhole to manhole, at any point where concrete encasement is specified, or where a water main is within two (2) feet of the sewer.
- Concrete encasement will be required at any point where centerline cut to original ground is 30 inches or less.
- All taps shall be installed during main line construction.
- Special risers shall be installed for each lot.
- Bedding, backfill, and compaction shall be in accordance with standard drawing. When crossing the street, backfill and compaction requirements shall extend two (2) feet

back of curb. When replacing a sewer in service 3/8 inch chips shall be used for bedding and initial backfill.

- Taps on existing lines, that did not have taps installed during construction, shall be installed in accordance with City standard drawings and inspected by Public Works Department.
- All force mains constructed of non-metallic pipe shall have a No. 8 bare copper conductor wire taped to the top surface of the pipe and bolted to lift station and manhole ring, if applicable.
- When working in or adjacent to existing subdivisions only one (1) days worth of trench may be open at a given time. This requirement may be modified, in writing by the City Engineer, for a specific project.
- Road closures must be coordinated a minimum of forty-eight (48) hours in advance. Roads will not be closed for over eight (8) hours without written permission from the City Engineer.
- Dig through locator tape will be buried 2 feet above the sewer line.
- All sanitary sewer piping under roadways shall have compacted backfill.
- No construction activities on the sewer system are permitted until the City Engineer's office has received a copy of the ODEQ "Permit to Construct" and authorization to proceed with the sewer system has been provided by the City Engineer.
- All sanitary sewer pipe under pavement section or at pavement section crossings shall be backfilled with "ODOT Type A Aggregate Base" as specified in Section 703.01 in the 2019 ODOT Standard Specifications and compacted to 95% Standard Proctor Density, or a flowable fill consisting of a sand-cement slurry of 2,970 pounds of sand, 100 pounds of cement and approximately 458 pounds of water per cubic yard. The slurry will be mixed to a pourable soupy mix in a ready-mix truck. All proposed pavement crossings shall be backfilled 2.0 feet beyond the back curb. The cost of this backfill shall be included in the priced bid for other items. No additional payment will be made.
- All utility trench backfill material shall be compacted to at least 95 percent of the maximum dry density, as determined by the appropriate moisture-density relation test or as directed by the City of Jenks.
- All sanitary sewer manholes shall be constructed the top level, and further, they shall be constructed to allow for future adjustment to accommodate final grading and pavement construction. Top Rim of Manholes not in pavement shall be 2 inches above final grade.

Revised 12/2020

Temporary Erosion Control

SMALL GRAINS SUCH AS OATS, RYE, WHEAT, SUDANS AND SORGHUMS ARE THE MOST FEASIBLE TEMPORARY VEGETATION TO CONTROL EROSION. THE PRACTICE IS EFFECTIVE FOR AREAS WHERE THE SOIL IS LEFT EXPOSED FOR A PERIOD OF 6 TO 12 MONTHS. THE TIME PERIOD MAY BE SHORTER DURING PERIODS OF EROSION RAINFALL.

- PRIOR TO SEEDING, NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS, DIKES, ETC., SHALL BE INSTALLED.
- TEMPORARY VEGETATIVE PRACTICE IS USUALLY APPLIED PRIOR TO THE COMPLETION OF FINAL GRADING OF THE SITE.
- IF THE AREA TO BE SEEDED HAS BEEN RECENTLY LOOSENED TO THE EXTENT THAT AN ADEQUATE SEEDBED EXISTS, NO ADDITIONAL TREATMENT IS REQUIRED. HOWEVER IF THE AREA TO BE SEEDED IS PACKED, CRUSTED, AND/OR HARD, THE TOP LAYER OF SOIL SHALL BE LOOSENEED BY DISCING OR OTHER SUITABLE MEANS.
- FERTILIZER SHALL BE APPLIED AT A RATE OF 600 POUNDS PER ACRE OR 15 POUNDS PER 1000 SQUARE FOOT USING 10-20-10 OR EQUAL.
- SEEDING OPTIONS ARE AS FOLLOWS:

PLANT	ACRE	QUANTITY PER 1000 S.F.	PLANTING DATE	DEPTH
ANNUAL	40 LBS	0.90 LBS	09/15 TO 11/30	1/4 IN.
ELBON RYE	2 BU.	3.00 LBS	08/15 TO 11/30	2 IN.
WHEAT	2 BU.	3.00 LBS	08/15 TO 11/30	2 IN.
OATS	3 BU.	2.50 LBS	08/15 TO 11/30	2 IN.
SORGHUM	60 LBS	1.40 LBS	03/01 TO 09/15	2 IN.
SUDAN	40 LBS	0.90 LBS	04/01 TO 09/15	2 IN.

- SEEDING IMPLEMENTS SHOULD BE USED AT RIGHT ANGLES TO THE GENERAL SLOPE TO MINIMIZE EROSION.
- 1 TO 3 MONTHS AFTER PLANTING, THE SEEDED SITE SHALL BE TOP DRESSED WITH 8 POUNDS PER 1000 SQUARE FEET OR 350 POUNDS PER ACRE OF 33-0-0.
- AREAS WHICH DO NOT DEVELOP A SUFFICIENT COVER SHALL BE REPLANTED.
- THE SEEDED AREA SHALL BE WATERED WHEN FEASIBLE AND NEEDED.

Permanent Erosion Control

BERMUDA GRASS, KENTUCKY 31, TALL FESCUE AND WEEPING LOVEGRASS ARE SOME OF THE TYPES OF PERMANENT VEGETATION THAT MAY BE EFFECTIVELY USED TO CONTROL EROSION.

- PRIOR TO SEEDING, NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS, DIKES, ETC., SHALL BE INSTALLED.
- THE SUBGRADE SHALL BE LOOSENEED EVENLY TO A DEPTH OF 2 TO 3 INCHES AND 10-20-10 FERTILIZER (10 POUNDS PER 1000 SQUARE FOOT OR 450 POUNDS PER ACRE) SHALL BE MIXED WITH THE LOOSENEED SURFACE SOIL BY DISCING OR OTHER SUITABLE MEANS.
- SEEDING OPTIONS ARE AS FOLLOWS:

PLANT	ACRE	QUANTITY PER 1000 S.F.	PLANTING DATE	DEPTH
BERMUDA	10 LBS	0.25 LBS	04/01 TO 08/15	1/2 IN.
FESCUE	40 LBS	0.90 LBS	09/01 TO 11/01	1/2 IN.
LOVEGRASS	40 LBS	0.90 LBS	04/01 TO 06/30	1/2 IN.

- SEEDING IMPLEMENTS SHOULD BE USED AT RIGHT ANGLES TO THE GENERAL SLOPE TO MINIMIZE EROSION.
- MULCH SHALL BE USED WHERE NEEDED.
- THE AREA SHALL BE WATERED DAILY OR AS OFTEN AS NECESSARY TO MAINTAIN ADEQUATE SOIL MOISTURE UNTIL THE PLANTS GROW 1/2 TO 1 INCH.

Storm Water Pollution Prevention Note

THE OWNER/DEVELOPER, THEMSELVES OR THROUGH THE USE OF INDIVIDUAL CONTRACTORS, SHALL BE HELD TOTALLY RESPONSIBLE FOR COMPLYING WITH ANY OR ALL APPLICABLE EROSION AND SEDIMENTATION CONTROL AND POLLUTION PREVENTION REQUIREMENTS ESTABLISHED BY FEDERAL, STATE AND LOCAL AGENCIES OR ANY OTHER GOVERNING AGENCY SPECIFICALLY RELATED TO THE PROJECT. THE LOCATION, INSTALLATION, AND MAINTENANCE OF ALL EROSION CONTROL PRACTICES ON THIS PROJECT SHALL BE DONE IN COMPLETE ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (FOR THE PROJECT) AND OPDES GENERAL PERMIT OKR-10.

CONSULTANTS



ENGINEERED BY DESIGN

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10700 Myers Lane, Choctaw, OK 73020
Ph: 405-234-0980
CA# 7655 - Expires 6/30/2026



P.O. Box 548
Bixby, Oklahoma 74008
Phone: (918) 798-8356

PROJECT NAME

Belvedere Reserve

Jenks, OK

Project No. 2296

SEAL



"I hereby certify that I am familiar with the adopted ordinances and regulations of the City of Jenks governing drainage, streets, detention, and floodplains; that these plans have been prepared under my direct supervision, the above and the foregoing plans comply with all governing ordinances and the adopted standards of the City of Jenks to the best of my knowledge, information, and belief."
"These plans comply with all governing ordinances and the adopted criteria of the City of Jenks pertaining to drainage, streets, detention, and earth change to the best of my knowledge, information and belief."

REVISIONS

REVISED PER CITY COMMENTS	8/10/2026
REVISED PER CITY COMMENTS	10/28/2025
REVISED PER CITY COMMENTS	12/18/2025
REVISED PER CITY COMMENTS	2/9/2026
REVISED PER CITY COMMENTS	3/23/2026

ISSUE DATE

12/18/2025

SCALE

N/A

SHEET NAME

CONSTRUCTION NOTES & EROSION CONTROL DETAILS

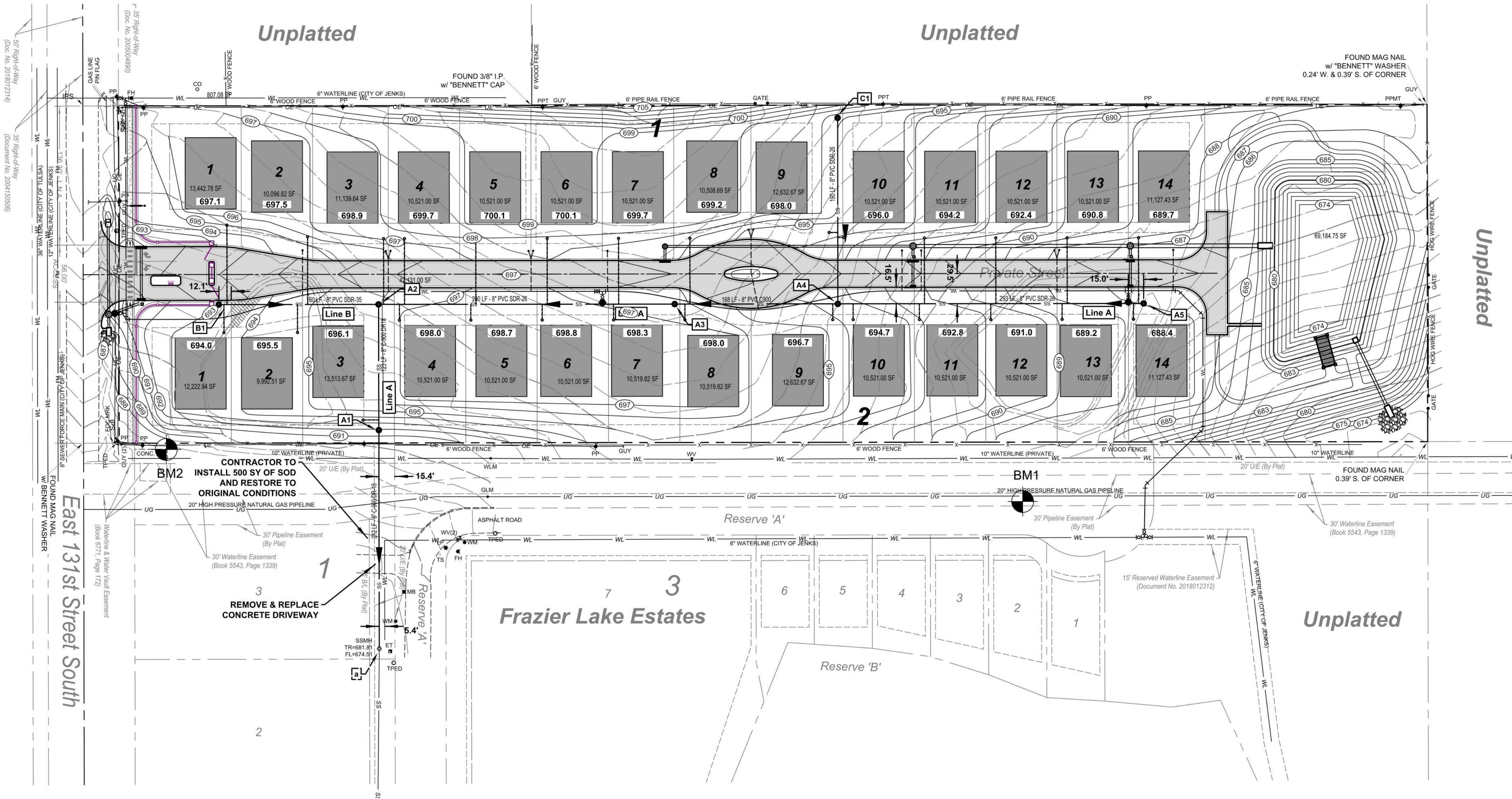
SHEET NO.

C2



EXISTING UNDERGROUND LINES HAVE BEEN SHOWN TO THE EXTENT KNOWN. CALL 811 BEFORE YOU DIG!

ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH THE CITY OF JENKS ENGINEERING STANDARD SPECIFICATIONS, INCLUDING O.D.O.T. 2019 EDITION AND APPLICABLE SUPPLEMENTS.

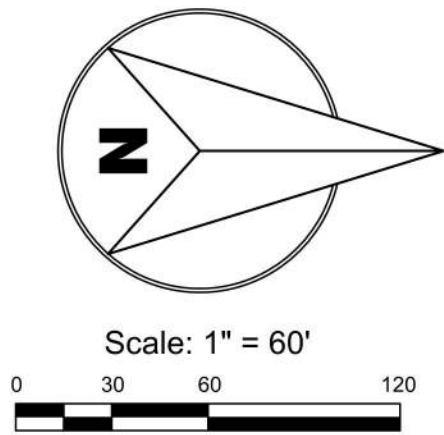


Sanitary Sewer Notes

1. CONTRACTOR SHALL PERFORM DEFLECTION TESTS ON ALL FLEXIBLE PIPE AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. DEFLECTION MUST NOT EXCEED 5%. TESTS MUST BE RUN USING A RIGID BALL OR MANDREL WITH A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE TAKING INTO ACCOUNT MANUFACTURING TOLERANCES. TESTS MUST BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES. CONTRACTOR SHALL PERFORM TEST PER ASTM STANDARD D3034.
2. CONTRACTOR SHALL PERFORM LEAKAGE TESTS FOR ALL GRAVITY LINES. HYDROSATIC TESTS MUST USE A 2-FOOT TEST HEAD AND LEAKAGE INWARD OR OUTWARD MUST NOT EXCEED 10 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY. CONTRACTOR SHALL TEST LEAKAGE PER ASTM STANDARD F1417 OR UNI-BELL UNI-B-6.
3. CONTRACTOR SHALL PERFORM LEAKAGE TESTS ON ALL MANHOLES PER ASTM STANDARD C1244 AND ASTM C969.

Sheet Legend

- EXISTING MANHOLE LABEL
- PROPOSED MANHOLE LABEL
- FLOW ARROW
- FINISHED FLOOR ELEVATION



Construction Notes

REFER TO SHEET C2 FOR CITY OF JENKS STANDARD NOTES

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM1	361890.05	2579309.15	686.69	CUT BOX IN CONCRETE
BM2	361049.19	2579272.77	686.45	CUT BOX IN CONCRETE

CONSULTANTS



ENGINEERED BY DESIGN

Engineered by Design, PLLC
10700 Myers Lane, Choctaw, OK 73020
Ph: 405-234-0980
CA# 7655 - Expires 6/30/2026



P.O. Box 548
Bixby, Oklahoma 74008
Phone: (918) 798-8356

PROJECT NAME

Belvedere Reserve

Jenks, OK

Project No. 2296

SEAL



"I hereby certify that I am familiar with the adopted ordinances and regulations of the City of Jenks governing drainage, streets, detention, and floodplains; that these plans have been prepared under my direct supervision; the above and the foregoing plans comply with all governing ordinances and the adopted standards of the City of Jenks to the best of my knowledge, information, and belief."

"These plans comply with all governing ordinances and the adopted criteria of the City of Jenks pertaining to drainage, streets, detention, and earth change to the best of my knowledge, information and belief."

REVISIONS

REVISED PER CITY COMMENTS	8/10/2025
REVISED PER CITY COMMENTS	10/28/2025
REVISED PER CITY COMMENTS	12/18/2025
REVISED PER CITY COMMENTS	2/3/2026
REVISED PER CITY COMMENTS	3/23/2026

ISSUE DATE

12/18/2025

SCALE

1"=60'

SHEET NAME

SANITARY SEWER
PLAN

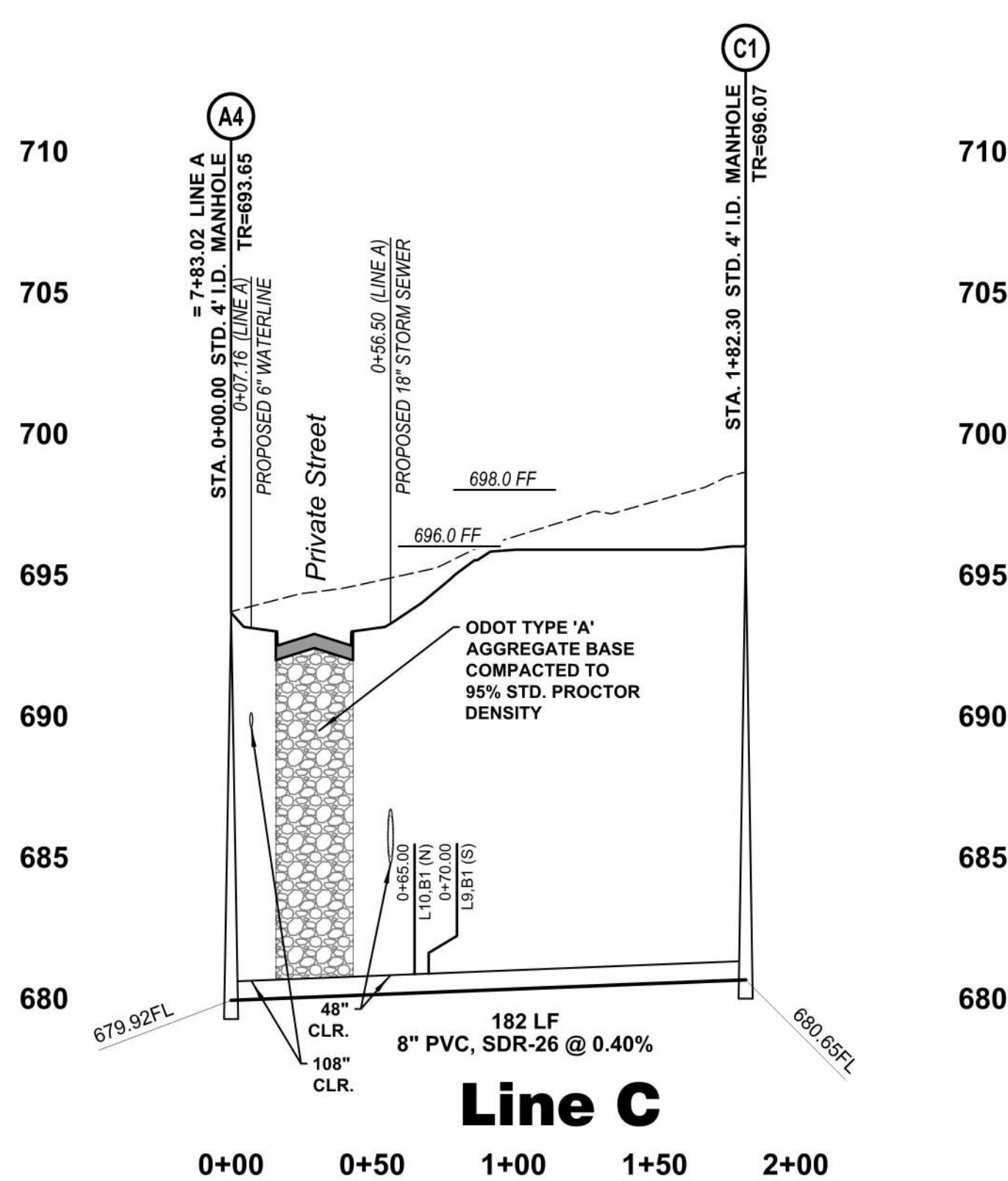
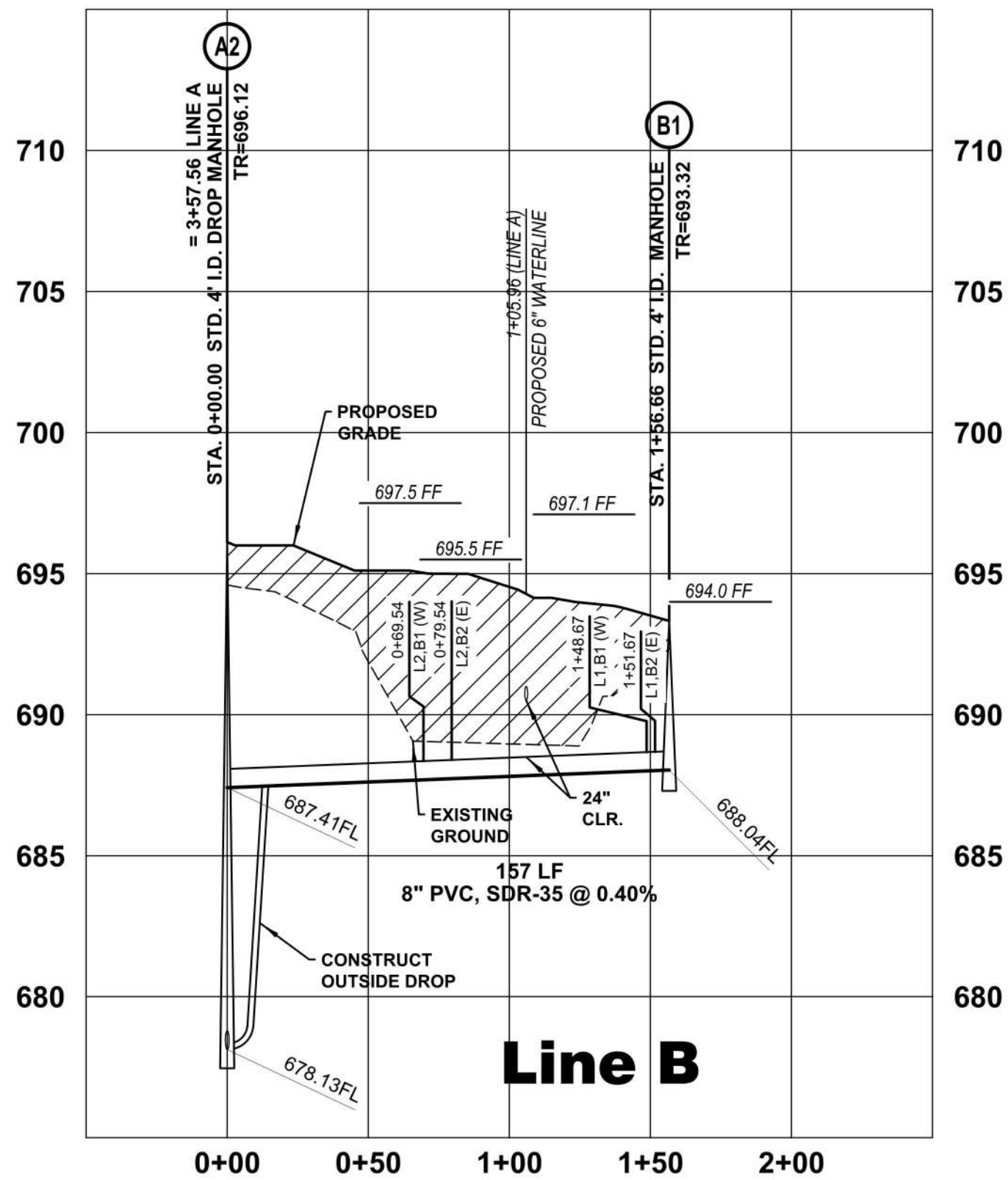
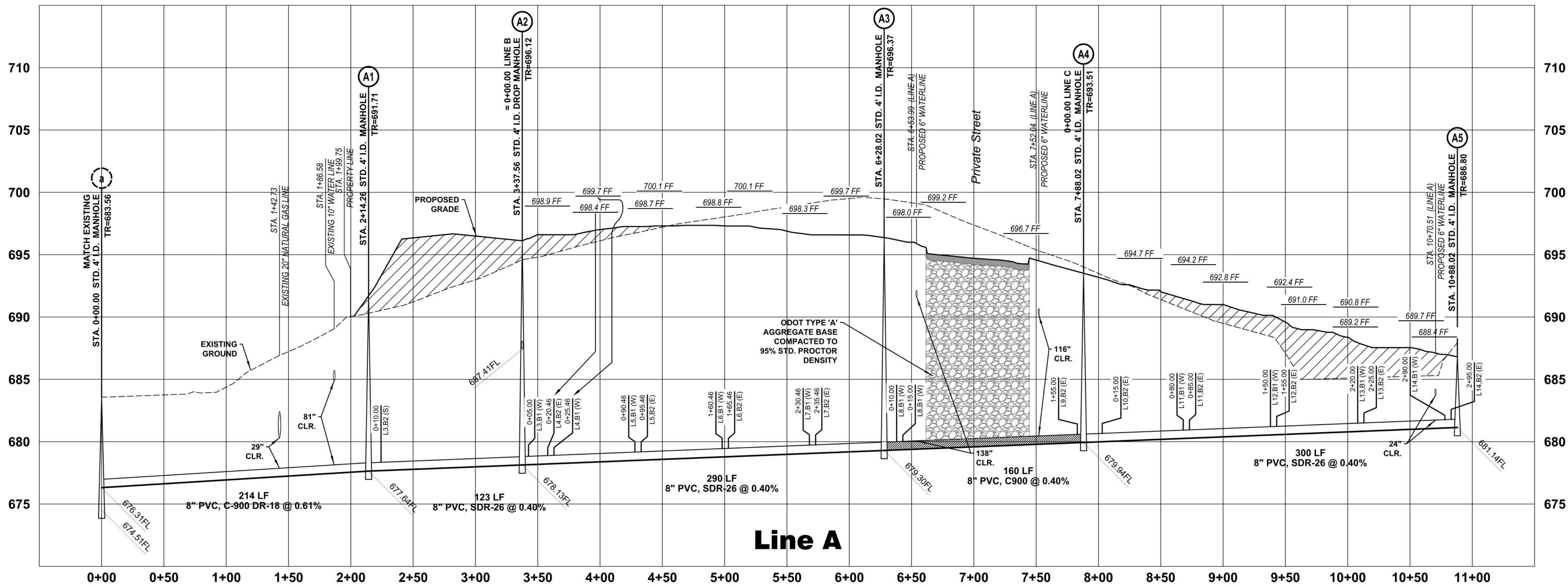
SHEET NO.

SS01



EXISTING UNDERGROUND LINES HAVE BEEN SHOWN TO THE EXTENT KNOWN. CALL 811 BEFORE YOU DIG!

ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH THE CITY OF JENKS ENGINEERING STANDARD SPECIFICATIONS, INCLUDING O.D.O.T. 2019 EDITION AND APPLICABLE SUPPLEMENTS.



Sheet Legend

FINISHED FLOOR ELEVATION
TEE STATION
SERVICE DIRECTION
PROPERTY SERVED
8"x4" INLINE SANITARY SEWER TEE

AREA TO BE COMPACTED TO 95% STANDARD PROCTOR DENSITY PRIOR TO UTILITY CONSTRUCTION

CONSULTANTS

ENGINEERED BY DESIGN

Engineered by Design, PLLC
10700 Myers Lane, Choctaw, OK 73020
Ph: 405-234-0980
CA# 7655 - Expires 6/30/2026

Select design

DEVELOPMENT ANALYSIS
PROJECT MANAGEMENT
DRAFTING & DESIGN

P.O. Box 548
Bixby, Oklahoma 74008
Phone: (918) 798-6356

PROJECT NAME

Belvedere Reserve

Jenks, OK
Project No. 2296

SEAL

REGISTERED PROFESSIONAL ENGINEER
AARON S. HALE
18309
OKLAHOMA

"I hereby certify that I am familiar with the adopted ordinances and regulations of the City of Jenks governing drainage, streets, detention, and floodplains; that these plans have been prepared under my direct supervision; the above and the foregoing plans comply with all governing ordinances and the adopted standards of the City of Jenks to the best of my knowledge, information, and belief."

"These plans comply with all governing ordinances and the adopted criteria of the City of Jenks pertaining to drainage, streets, detention, and earth change to the best of my knowledge, information and belief."

REVISIONS

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REVISED PER CITY COMMENTS	10/28/2025
REVISED PER CITY COMMENTS	12/18/2025
REVISED PER CITY COMMENTS	2/3/2026
REVISED PER CITY COMMENTS	3/23/2026

ISSUE DATE 12/18/2025

SCALE 1"=50' (H) & 1"=5' (V)

SHEET NAME

SANITARY SEWER PROFILES

SHEET NO.

SS02

BEFORE YOU DIG

EXISTING UNDERGROUND LINES HAVE BEEN SHOWN TO THE EXTENT KNOWN. CALL 811 BEFORE YOU DIG!

ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH THE CITY OF JENKS ENGINEERING STANDARD SPECIFICATIONS, INCLUDING O.D.T. 2019 EDITION AND APPLICABLE SUPPLEMENTS.

April 17, 2026

Christopher Shrout, City Manager
City of Jenks
P.O. Box 2007
Jenks, Oklahoma 74037

Re: Permit No. WL000072260334
Belvedere Reserve Potable Water Line Extension
PWSID No. OK3007201

Dear Mr. Shrout:

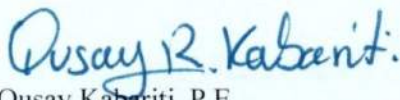
Enclosed is Permit No. WL000072260334 for the construction of 1,533 linear feet of six (6) inch PVC potable water line and all appurtenances to serve the Belvedere Reserve, Tulsa County, Oklahoma.

The project authorized by this permit should be constructed in accordance with the plans approved by the Department of Environmental Quality ("DEQ") on April 17, 2026. Any deviations from the approved plans and specifications affecting capacity, flow, or operation of units must be approved, in writing, by DEQ before changes are made.

Receipt of this permit should be noted in the minutes of the next regular meeting of the City of Jenks, after which it should be made a matter of permanent record.

Approved plans and specifications are available upon request.

Respectfully,



Qusay Kabariti, P.E.
Construction Permit Section
Water Quality Division

Enclosure

PERMIT TO CONSTRUCT

April 17, 2026

Pursuant to O.S. 27A 2-6-304, the City of Jenks is hereby granted this Tier I Permit to construct 1,533 linear feet of six (6) inch PVC potable water line and all appurtenances to serve the Belvedere Reserve, located in the SW 1/4 of section 4, T-14-N, R-13-E, Tulsa County, Oklahoma, in accordance with the plans approved April 17, 2026.

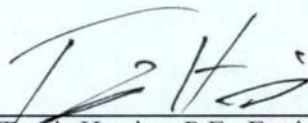
By acceptance of this permit, the permittee agrees to operate and maintain the facility in accordance with OAC 252:631 and to comply with Title 59, Section 1101-1116 O.S. and the rules and regulations adopted thereunder regarding the requirements for certified operators.

This permit is issued subject to the following provisions and conditions.

- 1) This water line provides adequate fire flow in accordance with the 2009 International Fire Code through the approved hydraulic analysis. The fire flow provided is 1,000 gpm.
- 2) That the recipient of the permit is responsible for ensuring that the project receives supervision and inspection by competent and qualified personnel.
- 3) That construction of all phases of the project will be started within one year of the date of approval or the phases not under construction will be resubmitted for approval as a new project.
- 4) That no significant information necessary for a proper evaluation of the project has been omitted and no invalid information has been presented in applying for the permit.
- 5) That the Oklahoma Department of Environmental Quality ("DEQ") shall be kept informed on occurrences which may affect the eventual performance of the works or that will unduly delay the progress of the project.
- 6) That wherever water and sewer lines are constructed with spacing of 10 feet or less, sanitary protection will be provided in accordance with OAC 252:626-19-2.
- 7) That before placing this facility into service, at least two samples of the water, taken on different days, shall be tested for bacteria to show that it is safe for drinking purposes.
- 8) That any deviations from approved plans or specifications affecting capacity, flow, or operation of units must be approved by DEQ before any such deviations are made in the construction of this project.
- 9) That the recipient of the permit is responsible for the continued operation and maintenance of these facilities in accordance with rules and regulations adopted by the Environmental Quality Board, and that DEQ will be notified in writing of any sale or transfer of ownership of these facilities.
- 10) The issuance of this permit does not relieve the responsible parties of any obligations or liabilities which the permittee may be under pursuant to prior enforcement action taken by DEQ.

- 11) That the permittee is required to inform the developer/builder that a DEQ Storm Water Construction Permit is required for a construction site that will disturb one (1) acre or more in accordance with OPDES, 27A O.S. Section 2-6-201 *et seq.* For information or a copy of the GENERAL PERMIT (OKR10) FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES, Notice of Intent form, Notice of Termination form, or guidance on preparation of a Pollution Prevention Plan, contact the Storm Water Unit of the Water Quality Division at P.O. Box 1677, Oklahoma City, OK 73101-1677 or by phone at (405) 702-8100.
- 12) That any notations or changes recorded on the official set of plans and specifications in DEQ files shall be part of the plans as approved.
- 13) That water lines shall be located at least fifteen (15) feet from all parts of septic tanks and absorption fields, or other sewage treatment and disposal systems.
- 14) That whenever plastic pipe is approved and used for potable water, it shall bear the seal of the National Sanitation Foundation and meet the appropriate commercial standards.
- 15) That when it is impossible to obtain proper horizontal and vertical separation as stipulated OAC 252:626-19-2(h)(1) and OAC 252:626-19-2(h)(2), respectively, the sewer shall be designed and constructed equal to water pipe, and shall be pressure tested to the highest pressure obtainable under the most severe head conditions of the collection system prior to backfilling.

Failure to appeal the conditions of this permit in writing within 30 days from the date of issue will constitute acceptance of the permit and all conditions and provisions.



Travis Herrian, P.E., Engineering Manager
Construction Permit Section
Water Quality Division

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DETAILED GRADING PLAN	C5
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WATER LINE PLAN	WL01
WATERLINE PROFILES	WL02
CITY OF JENKS STANDARD DETAILS	ATTACHED

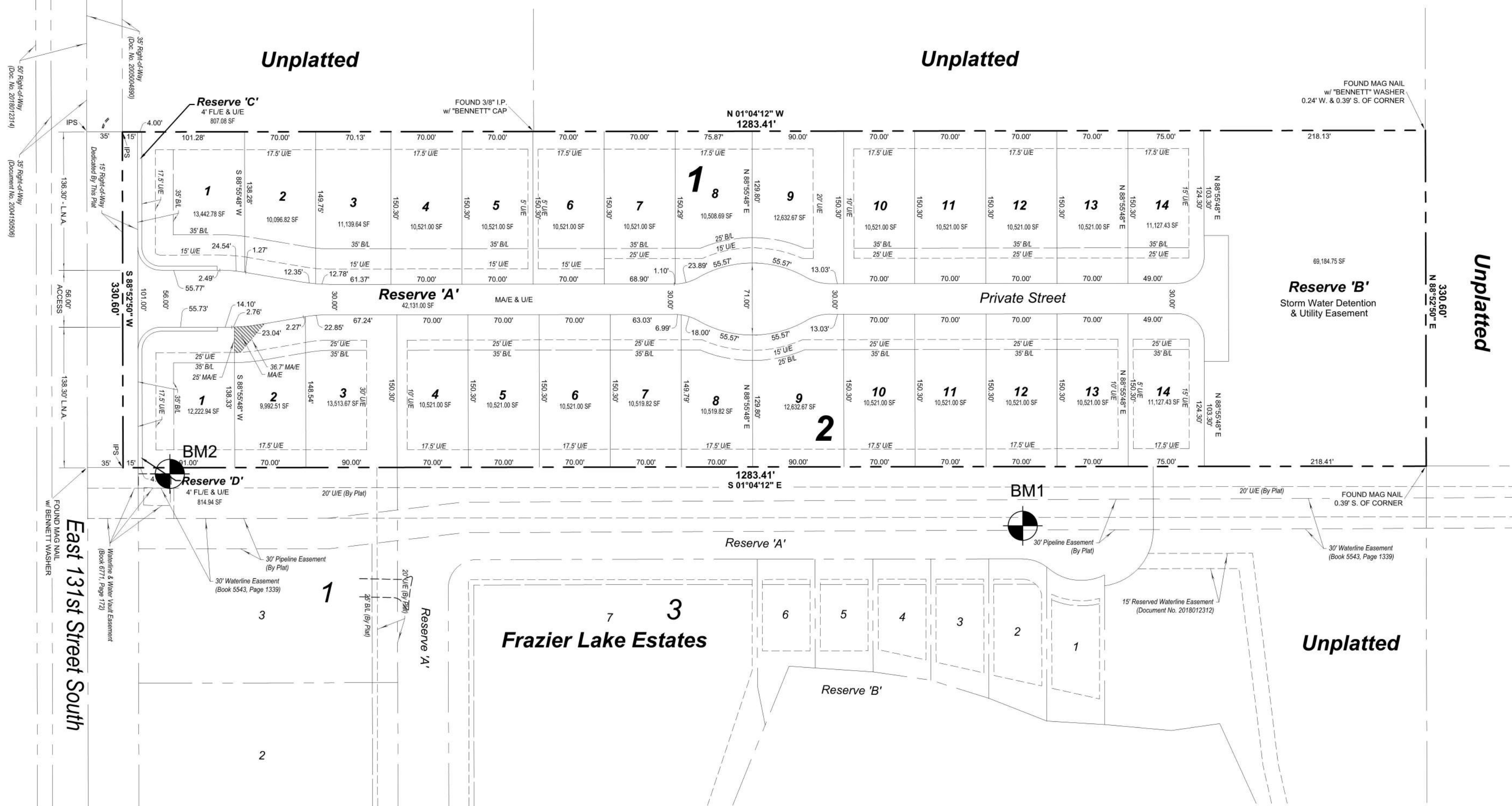
Legend	
A/C	AIR CONDITIONER UNIT/PAD
#GAI	# GRATE AREA INLET
AMH	ACCESS MANHOLE
B/L	BUILDING SETBACK LINE
B/W	BARBED WIRE FENCE
BC	BOTTOM OF CURB
BM	BENCHMARK
BOP	BEGINNING OF PROJECT
C/L	CHAIN LINK FENCE
CCI	CONCRETE CURB INLET
CICI	CAST IRON CURB INLET
CONC.	CONCRETE
CPED	CABLE/TV PEDESTAL
CY	CUBIC YARDS
EOP	END OF PROJECT
ELEC	ELECTRIC
EPED	ELECTRIC PEDESTAL
ESMT	EASEMENT
EX	EXISTING
F/E	FENCE EASEMENT
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOWLINE
FLT	THROAT FLOWLINE
FP	FLAG POLE
GLT	GROUND LIGHT
GM	GAS METER
GRSR	GAS RISER
GUY	DOWN GUY
GV	GAS VALVE
HDPE	HIGH DENSITY POLYETHYLENE
IPF	IRON PIN FOUND
LF	LINEAR FEET
LNA	LIMITS OF NO ACCESS
LP	LIGHT POLE
MA/E	MUTUAL ACCESS EASEMENT
MB	MAILBOX
OD/E	OVERLAND DRAINAGE ESMT
OE	OVERHEAD ELECTRIC
OL	ORNAMENTAL LIGHT
PG	PROPOSED GRADE
PP	POWER POLE
RW/E	RESTRICTED WL EASEMENT
RCP	REINFORCED CONC. PIPE
RET. WALL	RETAINING WALL
S/W	SIDEWALK
SD	STORM DRAIN
SDMH	STORMWATER MANHOLE
SF	SQUARE FEET
SGAI	SINGLE GRATE AREA INLET
SPHD	SPRINKLER HEAD
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSLH	SANITARY SEWER LAMPHOLE
SSMH	SANITARY SEWER MANHOLE
SY	SQUARE YARD
TC	TOP OF CURB
TG	TOP OF GRATE
TP	TOP OF PAVING
TPED	TELEPHONE PEDESTAL
TR	TOP OF RIM
TS	TRAFFIC SIGN
TW	TOP OF WALL
U/E	UTILITY EASEMENT
UG	UNDERGROUND GAS LINE
UTMH	UTILITY MANHOLE
W/ DIP	WITH UNDERGROUND RISER
WL	WATERLINE
WLMH	WATERLINE MANHOLE
WM	WATER METER
WRSR	WATER SPIGOT
WV	WATER VALVE

Disclaimer

THESE PLANS AND DRAWINGS ARE NOT TO BE CHANGED IN ANY FORM OR MANNER WHATSOEVER WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF ENGINEERED BY DESIGN, PLLC. ANY CHANGES MADE FROM THESE PLANS WITHOUT CONSENT OF ENGINEERED BY DESIGN, PLLC ARE UNAUTHORIZED, AND SHALL RELIEVE ENGINEERED BY DESIGN, PLLC OF RESPONSIBILITY FOR ALL CONSEQUENCES ARRIVING OUT OF SUCH CHANGE(S).

Grading, Erosion Control, Storm Sewer, Paving, Sanitary Sewer & Waterline Plans for Belvedere Reserve

A SUBDIVISION IN THE CITY OF JENKS, BEING A PART OF THE SOUTHWEST QUARTER (SW/4) OF SECTION FOUR (4), TOWNSHIP SEVENTEEN (17) NORTH, RANGE THIRTEEN (13) EAST OF THE INDIAN BASE AND MERIDIAN, TULSA COUNTY, STATE OF OKLAHOMA, ACCORDING TO THE U.S. GOVERNMENT SURVEY THEREOF.



Subdivision Statistics

SUBDIVISION CONTAINS TWENTY-EIGHT (28) LOTS IN TWO (2) BLOCKS AND FOUR (4) RESERVE AREAS.

GROSS SUBDIVISION AREA: 424,296.7 SF / 9.74 ACRES

Basis of Bearings

BEARINGS ARE BASED UPON THE OKLAHOMA STATE PLANE COORDINATE SYSTEM, (3501 OK N), NORTH AMERICAN DATUM 1983 (NAD83). MEASUREMENTS SHOWN ARE GRID DISTANCES IN U.S. SURVEY FEET.

Owner's Statement

I CERTIFY THAT THE APPROVED PLANS WILL BE IMPLEMENTED UNDER THE DIRECT SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER.

SIGNATURE _____ DATE _____

Owner / Developer

CLEARFIELD PARTNERS, LLC
P.O. BOX 265
JENKS, OK 74037
PHONE: (918) 260-1415
MR. RUSSELL D. COZORT
EMAIL: rdc4855@aol.com

Surveyor

FRITZ LAND SURVEYING, LLC
524 EAST MAIN STREET
JENKS, OKLAHOMA 74037
PHONE: (918) 528-5121
EMAIL: fritzlandsurveying@gmail.com
C.A. # 5848 EXPIRES: 6-30-2026

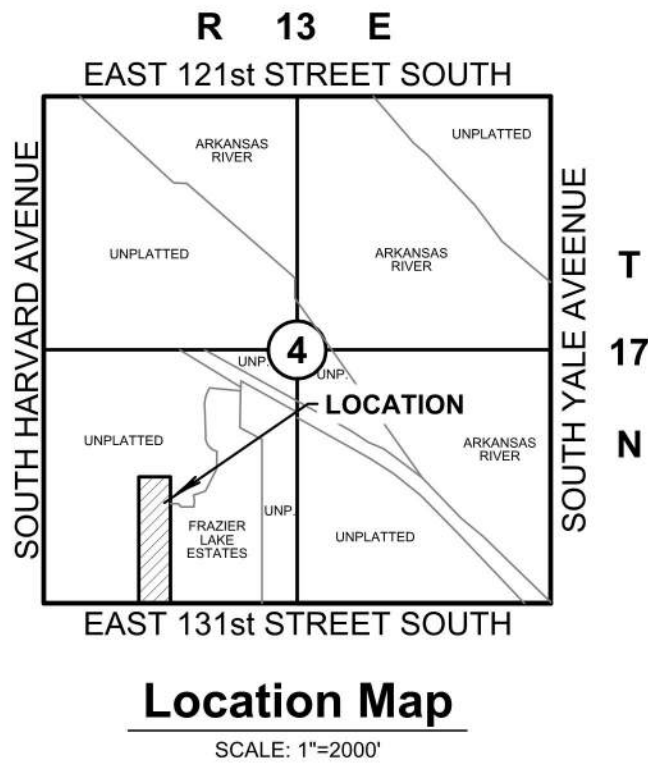
Engineer

ENGINEERED BY DESIGN, PLLC
10700 MYERS LANE
CHOCTAW, OKLAHOMA 73020
PHONE: (405) 234-0980
EMAIL: ahale@engineeredbydesign.pro
C.A. # 7655 EXPIRES 6-30-2026

Construction Schedule

EARTHWORK
STORM SEWER, SANITARY SEWER & WATERLINE
PAVING & SIDEWALKS
CLEANUP & STABILIZATION

DECEMBER 2025
APRIL 2026
JULY 2026
AUGUST 2026



SURVEYOR'S NOTES

BEARINGS ARE BASED UPON THE OKLAHOMA STATE PLANE COORDINATE SYSTEM, (3501 OK N), NORTH AMERICAN DATUM 1983 (NAD83). MEASUREMENTS SHOWN ARE GRID DISTANCES IN U.S. SURVEY FEET.

TOPOGRAPHIC INFORMATION SHOWN HEREON IS RELATIVE TO NAVD 1988 DATUM PER ADS CONTROL STATION #49, ELEVATION 683.255' AS THE PRIMARY BENCHMARK. SITE BENCHMARKS AS SHOWN HEREON. CONTOUR INTERVAL IS 1'.

EASEMENT AND BUILDING SETBACK LINES SHOWN ON THE RECORDED PLAT ARE SHOWN HEREON. EASEMENTS PROVIDED IN EASEMENT REPORT BY SMITH BROTHERS TITLE & ABSTRACT COMPANY ARE SHOWN OR NOTED HEREON. EASEMENTS MAY EXIST THAT ARE NOT SHOWN.

REFER TO CURRENT ZONING FOR NEW CONSTRUCTION GUIDELINES. SUBJECT PROPERTY IS ZONED LC & AG PER JENKS COUNTY ZONING CODE.

SET 3/8" IRON PIN W/ GREEN "FRITZ CA5848" CAP OR MAG NAIL W/ "FRITZ CA5848" WASHER AT ALL CORNERS UNLESS OTHERWISE NOTED AND SHOWN HEREON.

GROSS LAND AREA: 435,867.7 SQ. FEET OR 10.01 ACRES.

Contact List

CITY OF JENKS PUBLIC WORKS:
BARRY PARSONS, PUBLIC WORKS DIRECTOR
918-299-9511

CITY OF JENKS ENGINEERING:
CHAD CICERO, PUBLIC INFRASTRUCTURE INSPECTOR
847-804-0327

PUBLIC SERVICE COMPANY OF OKLAHOMA (PSO):
KENT SANDS, ENGINEER SR
918-859-7248

EAST CENTRAL ELECTRIC COOP (ECEC):
CALEB BRENNEKE, STAKING SUPERVISOR
918-365-1263

OKLAHOMA NATURAL GAS (ONG):
CHANCE MARSHALL, PMP
918-760-3598

AT&T
KEVIN BENDER, SR SPECIALIST
918-859-9147

CONSULTANTS



ENGINEERED BY DESIGN

Engineered by Design, PLLC
10700 Myers Lane, Choctaw, OK 73020
Ph: 405-234-0980
CA# 7655 - Expires 6/30/2026



P.O. Box 548
Bixby, Oklahoma 74008
Phone: (918) 798-6356

PROJECT NAME

Belvedere Reserve

Jenks, OK
Project No. 2296

SEAL



"I hereby certify that I am familiar with the adopted ordinances and regulations of the City of Jenks governing drainage, streets, detention, and floodplains; that these plans have been prepared under my direct supervision; the above and the foregoing plans comply with all governing ordinances and the adopted standards of the City of Jenks to the best of my knowledge, information, and belief."
"These plans comply with all governing ordinances and the adopted criteria of the City of Jenks pertaining to drainage, streets, detention, and earth change to the best of my knowledge, information and belief."

REVISIONS

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REVISED PER CITY COMMENTS	2/3/2026
REVISED PER CITY COMMENTS	3/23/2026

ISSUE DATE

12/18/2025

SCALE

1"=80'

SHEET NAME

COVER SHEET

SHEET NO.

C1



EXISTING UNDERGROUND LINES HAVE BEEN SHOWN TO THE EXTENT KNOWN. CALL 811 BEFORE YOU DIG!

ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH THE CITY OF JENKS ENGINEERING STANDARD SPECIFICATIONS, INCLUDING O.D.O.T. 2019 EDITION AND APPLICABLE SUPPLEMENTS.

City of Jenks

Standard Notes for Construction Plans

GENERAL NOTES

- Wherever the word "City" appears herein the same shall conclusively be deemed to mean the City of Jenks, Oklahoma unless the context clearly dictates otherwise.
- All construction activities on private property will require property owner approval. Contractor, upon needing to do any construction activities on property other than the developers (i.e. other property owners, City of Jenks, City of Tulsa, Tulsa county, etc.) shall leave the property in the same or better conditions.
- Contractor and all related construction activities will be required to maintain normal working hours if significant public request is made to the City in this regard.
- A pre-construction meeting is required and can be coordinated with city staff at (918) 556-7467. Five (5) 11"x17" sets of final plans are to be provided at the time of the meeting.
- Conditions set forth within the earth change permit remain valid throughout all construction activities and development sequences of this development.
- No construction activities on the water and sanitary sewer systems are permitted until the City Engineer's Office has received a copy of the ODEQ "Permit to Construct" and authorization to proceed with the water system and sanitary systems has been provided by the City Engineer.
- All construction shall be in strict accordance with the current City of Jenks, Department of Public Works, Engineering Department Standards and Specifications and the 2019 Edition of the Oklahoma Department of Transportation Standard Specifications for Highway Construction and as may be subsequently revised, updated and adopted.
- Easements, building setbacks, rights-of-way, signs, lighting, landscaping and other appurtenances are designed to be in compliance with the conditions set forth by the City Planner, Planning Commission and City Council. All design plans for water distribution, sanitary sewer collection, roadway and storm water systems construction installation shall meet or exceed the City of Jenks construction standards and municipal policy and are in compliance with City of Jenks Standards.
- All previous conditions set forth within the Earth Change Permit remain valid throughout all of the construction activities and development sequences of this Development.
- The Contractor and any other subcontractors under separate contract is/are required to attend a pre-construction meeting with the City of Jenks staff. Such a meeting is required before any infrastructure construction is performed. The City of Jenks will not approve construction activities to proceed until such a meeting is held. Such meetings will also be mandatory, upon the City of Jenks' request, during the construction process should the City of Jenks determine it to be necessary.
- Site grading shall be performed in a manner consistent with the Storm Water Pollution Prevention Plan (SWP3) previously submitted for this project.
- All excavated areas within the detention pond above the water line, rights-of-way, parks and drainage ways shall have ground cover (i.e., sod or hydro-mulch) installed immediately following final excavation work per ODEQ OKR10. All ground cover shall be maintained and watered until well established.

PAVING NOTES

- All paving, drainage and erosion control is designed in accordance with the current city of Jenks land subdivision code and all construction installation shall meet or exceed the City of Jenks construction standards and municipal policy.
- The project responsible contractor and any other sub-contractors under separate contract is/are required to have a pre-construction meeting with City staff. Such a meeting is required before any infrastructure construction is performed. Should the responsible contractor(s) representative fail to participate within a mutually scheduled pre-construction meeting, all construction activities shall be immediately terminated indefinitely by the City.
- All paving construction shall be inspected by the Engineering Department utility inspectors, in accordance with City policy.
- The paving contractor shall notify the Engineering Department at least 48 hours prior to start of construction.
- All utility construction (water, sewer, and storm water) shall be completed prior to subgrade preparation.
- Subgrade shall be free of all organic matter, treated, and compacted according to the plans and specifications.
- Subgrade stabilization shall be based upon city's review of geotechnical report. Geotechnical firm to contact City Engineer prior to testing.
- Paving contractor shall be responsible for repair of unacceptable subgrade at all utility, cable or conduit crossings.
- Paving contractor shall inspect subgrade prior to commencing work and shall repair areas where grade varies more than 0.1 feet, where density is less than 95% standard proctor or where subgrade drainage is inadequate, at the unit price bid for fine grading in the proposal subgrade modifications, where required, shall not commence until subgrade repairs have been accepted by the Engineer Department inspector.
- Sequence of construction for stabilized subgrades shall be blue top and fine grade, fabric placement, aggregate base, and then final fine grading.
- Compaction tests shall be taken a minimum of every 300 linear feet in alternating lanes for each eight (8) inch lift of material.
- Subgrades shall be proof-rolled if the stability of the material is questioned. Also, the subgrade exposed after stripping and completing any cuts shall be proof-rolled according to the geotechnical report.
- Portland cement concrete shall have a 28 day compressive strength of not less than 3,500 psi, a slump of not more than 3", and shall contain six (6) percent air + or -1% or per project geotechnical report.
- Asphaltic concrete shall have density of not less than 94% and not more than 96%, and HVEEM stability of not less than 40% or per project geotechnical report.
- The contractor shall furnish the following testing services by a reputable independent testing laboratory approved by the owner's representative:
 - 15.1. Field density test of embankment, subgrade, or base, at locations specified by the inspector.
 - 15.2. Plasticity tests of the subgrade at locations specified by the engineer.
 - 15.3. Moisture density curves for material to be used for embankment or subgrade construction.
 - 15.4. Mix designs for Portland cement concrete and asphaltic concrete.
 - 15.5. Aggregate gradation tests.
 - 15.6. Stability, density, bitumen content and gradation tests of asphaltic concrete every 200 tons or daily whichever is less.
 - 15.7. Compression test of concrete cylinders at seven (7) and twenty-eight (28) days with one (1) of each tests conducted for every 100 cubic yards placed.
 - 15.8. One core sample, at a location specified by the inspector for every 8,000 square feet of pavement.
- The contractor shall furnish certification from the manufacturer that all materials meet applicable specifications. Copies of material certification shall be furnished to the Engineering Department prior to installation or incorporation of material in the work.
- The paving contractor shall adjust all valve boxes to grade after paving has been completed.
- The paving contractor shall place a concrete collar two (2) feet square and equivalent in thickness to the street being constructed, around each valve box not located in a paved area. The valve box shall be adjusted to grade prior to placing of the concrete collar.
- The paving contractor shall mark all water line crossings by cutting a "W" ¼-inch deep in the face of the curb, over the crossing and painting the "W" blue. The paving contractor shall mark all water valve location by cutting a "V" ¼ inch deep in the face of the curb, over the valve and painting the "V" blue.
- Road closures must be coordinated a minimum of forty-eight (48) hours in advance with Jenks Public Works Department and Jenks Police Department. Roads will not be closed for over eight (8) hours without written permission from the City Engineer.
- All pavement striping material shall comply with 2019 ODOT Standards Specifications for Highway Construction and placement will comply with the latest version of the Manual of Uniform Traffic Control Devices (MUTCD). 22. No excavation of existing asphalt for driveway modifications, roadway connections, etc. is permitted without prior saw-cutting asphalt at construction boundary.
- The lot property owner/builder shall be responsible for constructing the sidewalk in front of the lot owner's property in accordance with the paving plans.
- All handicap access ramps shall be the responsibility of the developer to construct as the curb and/or as roadway is being constructed.

GRADING AND EROSION CONTROL NOTES

- All grading and erosion control shall be constructed in accordance with the current City Standard Construction Specifications.
- All erosion control construction shall be inspected by the Engineering Department utility inspectors, in accordance with City policy.
- The contractor shall verify utility locations before excavating.
- Topsoil shall be stripped to a depth where soil is free of roots and vegetation.
- Strippings shall be stockpiled or windrowed on site in areas designated by owner and re-spread as directed by owner after grading is complete. Topsoil shall be spread to a depth not exceeding six (6) inches.
- Clearing and tree removal will be performed as part of the unit price for excavation and embankment and shall include grubbing roots and vegetation as may be necessary.
- Stripping, proof-rolling, subgrade scarifications and compaction and fill construction in the building and paving areas shall be performed according to the subsurface geotechnical report. Embankment beneath building pads or for paving subgrade shall be placed in lifts not exceeding eight (8) inches and compacted to a minimum of 95% standard proctor density at optimum moisture content, unless otherwise specified therein.
- All existing pavements, gravel and sand fill, concrete rubble or slabs or other surface and subsurface features from previous site use shall be removed full-depth throughout the building and pavement areas before completing subgrade preparation and placing any fill (refer to the geotechnical report for onsite observations).
- Contractor shall provide water as required to obtain specified compaction.
- Subgrade stabilization shall be at the direction of the engineer or as specified in subsurface geotechnical report.
- Civil Engineer will not interpret soils reports or accept responsibility for alternative methods proposed by the contractor.
- Density testing will be provided by the owner. Any failing test shall be re-tested at the contractor's expense until passing tests are obtained.
- Erosion control shall start prior to initial construction and be practiced throughout the project. For projects over 1 acre, erosion control shall be placed and maintained in accordance with the SWP3 for the site.
- Erosion control wattles or silt fences shall be constructed adjacent to all drainage-ways and in all areas that will erode into the storm sewer system.
- The contractor shall re-seed all areas disturbed during construction, and contractor shall be responsible for seeded areas until growth is established to a uniform height of two (2) inches. Final stabilization for erosion shall comply with ODEQ OKR10.
- Undercutting of soft spots and placement of earthwork is governed first by the geotechnical report. Observation and testing shall be performed by the geotechnical engineer to verify that the soft spots are properly over excavated and replaced or stabilized.
- Corrective measures directed by the engineer may include complete removal and replacement at no cost to owner in cases of poor workmanship or unsatisfactory in-place conditions.
- The earthwork contractor is ultimately responsible to import or export material as necessary to achieve the grades shown on the civil engineer's documents.
- Rough pad elevations and approximate pad outlines have been shown. Pad elevations were set based on a minimum elevation difference of one (1) foot above top of curb at pad corner nearest to highest row on adjacent curb.
- Some approximate elevations between pads have been shown for drainage purposes. The earthwork contractor is responsible to provide and maintain during construction positive drainage away from and between all pads.

STORM SEWER NOTES

- All storm sewer system construction installation shall meet or exceed the City of Jenks Construction Standards and municipal policy.
- The project responsible contractor and any other sub-contractors under separate contract, is/are required to have a pre-construction meeting with City staff. Such a meeting is required before any infrastructure construction is performed. Should the responsible contractor(s) representative fail to participate within a mutually scheduled pre-construction meeting, all construction activities shall be immediately terminated indefinitely by the City. Such meetings will also be mandatory, upon City's request, during the construction process, if necessary.

- All storm sewer and drainage construction shall be inspected by the Engineering Department utility inspectors in accordance with City policy.
- The contractor shall verify utility locations before excavating.
- The contractor shall notify the Engineering Department at least 48 hours prior to start of construction.
- Manholes and appurtenance details shall be approved by the City Engineer before construction is started.
- All storm sewer pipe under paving shall be HP Storm unless otherwise noted.
- All HDPE storm sewer pipe shall be ADS-N-12, or equivalent, corrugated, smooth interior plastic pipe.
- Storm sewer bedding, backfill and compaction shall be in accordance with City standard drawings or referenced ODOT drawings.
- All storm sewer lines not under paving shall be laid in type A aggregate bedding to a depth of the spring line. The trench may be backfilled with compacted soil upon approval by the inspector.
- Storm sewer lines located under paved streets shall be laid in type a aggregate bedding and the trench completely filled to subgrade with type A aggregate compacted to 95% standard proctor density.
- Pipe backfill shall be placed in lifts not exceeding eight (8) inches and compacted by vibratory plate or other method approved by the engineer.
- Paving subgrade shall be restored to proper grade (+ or - 0.1 ft) and density after pipe is backfilled.
- All curb inlets shall have cast iron hoods.
- All culverts shall be furnished with headwalls or end sections on both ends and an apron on the downstream side.
- Construction of storm sewer structures should include a temporary drain hole at a point twelve (12) inches below paving subgrade to promote drainage during construction. Paving and storm sewer contractors shall coordinate the plugging of the temporary holes.
- All precast manholes shall have adjustable top rims providing six (6) inches, plus or minus, for adjustment to final grades. Elevations shown on plans may be adjusted while the work is in progress to conform to final in-place paving and landscape grades.
- The utility contractor assumes the risk of ordering precast concrete components prior to field staking and review of field conditions at the time of construction.
- Vegetative cover shall be established on all disturbed areas as soon as the work is completed.
- Road closures must be coordinated a minimum of forty-eight (48) hours in advance with Jenks Engineering Department and Jenks Police Department. Roads will not be closed for over eight (8) hours without written permission from the City Engineer.

WATER LINE NOTES

- Wherever the word "City" appears herein the same shall conclusively be deemed to mean the City of Jenks, Oklahoma unless the context clearly dictates otherwise.
- All construction activities on private property will require property owner approval. Contractor, upon needing to do any construction activities on property other than the developers (i.e. other property owners, City of Jenks, City of Tulsa, Tulsa County, etc.) shall leave the property in the same or better conditions.
- Contractor and all related construction activities will be required to maintain normal working hours if significant public request is made to the City in this regard.
- A pre-construction meeting is required and can be coordinated with City staff at (918) 556-7467. Five (5) 11"x17" sets of final plans are to be provided at the time of the meeting.
- All water lines are typically 8" inside the Street Right-of-Way except at bends, tees or as noted.
- All Water Line pipe under pavement section or at pavement section crossings shall be backfilled with "ODOT Type A Aggregate Base" as specified in Section 703.01 in the 2019 ODOT Standard Specifications and compacted to 99% Standard Proctor Density, or a flowable fill consisting of a sand-cement slurry of 2,970 pounds of sand, 100 pounds of cement and approximately 458 pounds of water per cubic yard. The slurry will be mixed to a pourable soupy mix in a ready mix truck. All proposed pavement crossings shall be backfilled 2.0 feet beyond the back of curb. The cost of this backfill shall be included in the priced bid for other items. No additional payment will be made.
- All utility trench backfill material shall be compacted to at least 95 percent of the maximum dry density, as determined by the appropriate moisture-density rotation test or as directed by the City of Jenks.
- All water distribution systems shall be designed in accordance with the current City Of Jenks land subdivision code and all construction installation shall meet or exceed the City Of Jenks construction standards and municipal policy.
- The project responsible contractor and any other sub-contractors under separate contract, is/are required to have a pre-construction meeting with City staff. Such a meeting is required before any infrastructure construction is performed. Should the responsible contractor(s) representative fail to participate within a mutually scheduled pre-construction meeting, all construction activities shall be immediately terminated indefinitely by the City. Such meetings will also be mandatory, upon City's request, during the construction process, if necessary.
- All water distribution system construction shall be inspected by the Engineering Department utility inspectors.
- Dig through locator tape will be buried 2 feet above the line.
- When C-900 PVC is used, a No. 8 bare copper wire shall be taped to the top surface of the pipe and connected to each fire hydrant by attaching to a bolt, just move ground level.
- All iron pipe and fittings shall be poly-wrapped.
- Street crossings for main lines twelve (12) inches and larger shall be placed in conduit.
- All distribution lines in conduit and at drainage feature crossings shall be constructed with restrained joints.
- All main lines shall have a minimum of three (3) feet and a maximum of eight (8) feet of cover, unless otherwise shown herein.
- Bedding, backfill and compaction over water lines shall be in accordance with standard drawings. Backfill and compaction requirement for street crowning shall extend two (2) feet back of curb.
- All water distribution system lines, except dead end for fire hydrants only, shall be looped to provide circulation.
- Distribution lines smaller than four (4) inches shall not be installed.
- All water system service lines at road crossings shall be encased within a minimum 4-inch diameter schedule 40 PVC pipe sleeve with a 3-foot bury depth. Each service line road crossing shall only be allowed from lot line intersecting point to lot line intersecting point. No water service roadway crossings will be allowed to be connected to the main waterline in any location other than at lot line intersection points, except where necessary. In side-lot situations, connection shall be located behind the curb point of curvature and will only be allowed to terminate across the street at intersecting lot line locations 3 linear feet behind back of curb. In no case shall the water service line be constructed under a driveway.
- When working in or adjacent to existing subdivisions only one (1) day's worth of trench may be open at a given time. This requirement may be modified, in writing by the City Engineer, for a specific project.
- Road closures must be coordinated a minimum of forty-eight (48) hours in advance. Roads will not be closed for over eight (8) hours without written permission from the City Engineer.
- All fitting bends, tees and fire hydrants shall have mechanical joint restraints, with Midco grip rings.
- No construction activities on the water system are permitted until the City Engineer's office has received a copy of the ODEQ "Permit to Construct" and authorization to proceed with the water system has been provided by the City Engineer.
- The following minimum separation distances between water lines and other utilities should be maintained, should such utilities be unexpectedly encountered during construction:
 - 25.1. Ten feet horizontally and two feet vertically from sewer lines. When it is impossible to obtain such horizontal separation between the water and sewer lines, construct the sewer line of water pipe and pressure test it to assure water tightness.
 - 25.2. Five feet horizontally from existing or proposed storm sewers, raw water lines, petroleum product lines, natural gas lines and other buried utility lines.
 - 25.3. Locate PVC water lines at least 50 feet horizontally from any gasoline storage tanks and lines.
 - 25.4. Fifteen feet from all parts of septic tanks, absorption fields or other sewage treatment and disposal systems.
- Domestic water service tap shall be installed according to City of Jenks specifications by an approved water service installation contractor/plumber and inspected by Public Works Department.
- FIRE HYDRANTS:
 - 27.1. Fire hydrants shall have a Stortz 5-inch pumper nozzle.
 - 27.2. Each hydrant shall be set with the streamer nozzle facing the street and with a minimum clearance of eighteen (18) inches above the finished grade.
 - 27.3. All exposed portions of fire hydrants shall be painted with a safety yellow enamel as manufactured by Glidden or DuPont.
 - 27.4. All fire hydrants must have a 6-inch diameter gate valve installed between the fire hydrant and the waterline main with restraints between the valve and hydrant.

SANITARY SEWER NOTES

- Wherever the word "City" appears herein the same shall conclusively be deemed to mean the City of Jenks, Oklahoma unless the context clearly dictates otherwise.
- All construction activities on private property will require property owner approval. Contractor, upon needing to do any construction activities on property other than the developers (i.e. other property owners, City of Jenks, City of Tulsa, Tulsa County, etc.) shall leave the property in the same or better conditions.
- Contractor and all related construction activities will be required to maintain normal working hours if significant public request is made to the City in this regard.
- A pre-construction meeting is required and can be coordinated with City staff at (918) 556-7467. Five (5) 11"x17" sets of final plans are to be provided at the time of the meeting.
- All sanitary sewer collection systems shall be designed in accordance with the current City of Jenks Land Subdivision Code and construction installation shall meet or exceed the City of Jenks construction standards and municipal policy.
- The project responsible contractor and any other sub-contractors under separate contract, is/are required to have a pre-construction meeting with City staff. Such a meeting is required before any infrastructure construction is performed. Should the responsible contractor(s) representative fail to participate within a mutually scheduled pre-construction meeting, all construction activities shall be immediately terminated indefinitely by the City. Such meetings will also be mandatory, upon City's request, during the construction process, if necessary.
- All sanitary sewer collection system construction shall be inspected by the Engineering Department utility inspectors.
- C900 PVC pipe shall be used under all street crossings manhole to manhole, at any point where concrete encasement is specified, or where a water main is within two (2) feet of the sewer.
- Concrete encasement will be required at any point where centerline cut to original ground is 30 inches or less.
- All taps shall be installed during main line construction.
- Special risers shall be installed for each lot.
- Bedding, backfill, and compaction shall be in accordance with standard drawing. When crossing the street, backfill and compaction requirements shall extend two (2) feet

back of curb. When replacing a sewer in service 3/8 inch chips shall be used for bedding and initial backfill.

- Taps on existing lines, that did not have taps installed during construction, shall be installed in accordance with City standard drawings and inspected by Public Works Department.
- All force mains constructed of non-metallic pipe shall have a No. 8 bare copper conductor wire taped to the top surface of the pipe and bolted to lift station and manhole ring, if applicable.
- When working in or adjacent to existing subdivisions only one (1) days worth of trench may be open at a given time. This requirement may be modified, in writing by the City Engineer, for a specific project.
- Road closures must be coordinated a minimum of forty-eight (48) hours in advance. Roads will not be closed for over eight (8) hours without written permission from the City Engineer.
- Dig through locator tape will be buried 2 feet above the sewer line.
- All sanitary sewer piping under roadways shall have compacted backfill.
- No construction activities on the sewer system are permitted until the City Engineer's office has received a copy of the ODEQ "Permit to Construct" and authorization to proceed with the sewer system has been provided by the City Engineer.
- All sanitary sewer pipe under pavement section or at pavement section crossings shall be backfilled with "ODOT Type A Aggregate Base" as specified in Section 703.01 in the 2019 ODOT Standard Specifications and compacted to 95% Standard Proctor Density, or a flowable fill consisting of a sand-cement slurry of 2,970 pounds of sand, 100 pounds of cement and approximately 458 pounds of water per cubic yard. The slurry will be mixed to a pourable soupy mix in a ready-mix truck. All proposed pavement crossings shall be backfilled 2.0 feet beyond the back curb. The cost of this backfill shall be included in the priced bid for other items. No additional payment will be made.
- All utility trench backfill material shall be compacted to at least 95 percent of the maximum dry density, as determined by the appropriate moisture-density relation test or as directed by the City of Jenks.
- All sanitary sewer manholes shall be constructed the top level, and further, they shall be constructed to allow for future adjustment to accommodate final grading and pavement construction. Top Rim of Manholes not in pavement shall be 2 inches above final grade.

Revised 12/2020

Temporary Erosion Control

SMALL GRAINS SUCH AS OATS, RYE, WHEAT, SUDANS AND SORGHUMS ARE THE MOST FEASIBLE TEMPORARY VEGETATION TO CONTROL EROSION. THE PRACTICE IS EFFECTIVE FOR AREAS WHERE THE SOIL IS LEFT EXPOSED FOR A PERIOD OF 6 TO 12 MONTHS. THE TIME PERIOD MAY BE SHORTER DURING PERIODS OF EROSION RAINFALL.

- PRIOR TO SEEDING, NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS, DIKES, ETC., SHALL BE INSTALLED.
- TEMPORARY VEGETATIVE PRACTICE IS USUALLY APPLIED PRIOR TO THE COMPLETION OF FINAL GRADING OF THE SITE.
- IF THE AREA TO BE SEEDED HAS BEEN RECENTLY LOOSENED TO THE EXTENT THAT AN ADEQUATE SEEDBED EXISTS, NO ADDITIONAL TREATMENT IS REQUIRED. HOWEVER IF THE AREA TO BE SEEDED IS PACKED, CRUSTED, AND/OR HARD, THE TOP LAYER OF SOIL SHALL BE LOOSENEED BY DISCING OR OTHER SUITABLE MEANS.
- FERTILIZER SHALL BE APPLIED AT A RATE OF 600 POUNDS PER ACRE OR 15 POUNDS PER 1000 SQUARE FOOT USING 10-20-10 OR EQUAL.
- SEEDING OPTIONS ARE AS FOLLOWS:

PLANT	ACRE	QUANTITY PER 1000 S.F.	PLANTING DATE	DEPTH
ANNUAL	40 LBS	0.90 LBS	09/15 TO 11/30	1/4 IN.
ELBON RYE	2 BU.	3.00 LBS	08/15 TO 11/30	2 IN.
WHEAT	2 BU.	3.00 LBS	08/15 TO 11/30	2 IN.
OATS	3 BU.	2.50 LBS	08/15 TO 11/30	2 IN.
SORGHUM	60 LBS	1.40 LBS	03/01 TO 09/15	2 IN.
SUDAN	40 LBS	0.90 LBS	04/01 TO 09/15	2 IN.

- SEEDING IMPLEMENTS SHOULD BE USED AT RIGHT ANGLES TO THE GENERAL SLOPE TO MINIMIZE EROSION.
- 1 TO 3 MONTHS AFTER PLANTING, THE SEEDED SITE SHALL BE TOP DRESSED WITH 8 POUNDS PER 1000 SQUARE FEET OR 350 POUNDS PER ACRE OF 33-0-0.
- AREAS WHICH DO NOT DEVELOP A SUFFICIENT COVER SHALL BE REPLANTED.
- THE SEEDED AREA SHALL BE WATERED WHEN FEASIBLE AND NEEDED.

Permanent Erosion Control

BERMUDA GRASS, KENTUCKY 31, TALL FESCUE AND WEEPING LOVEGRASS ARE SOME OF THE TYPES OF PERMANENT VEGETATION THAT MAY BE EFFECTIVELY USED TO CONTROL EROSION.

- PRIOR TO SEEDING, NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, BERMS, DIKES, ETC., SHALL BE INSTALLED.
 - THE SUBGRADE SHALL BE LOOSENEED EVENLY TO A DEPTH OF 2 TO 3 INCHES AND 10-20-10 FERTILIZER (10 POUNDS PER 1000 SQUARE FOOT OR 450 POUNDS PER ACRE) SHALL BE MIXED WITH THE LOOSENEED SURFACE SOIL BY DISCING OR OTHER SUITABLE MEANS.
 - SEEDING OPTIONS ARE AS FOLLOWS:
- | PLANT | ACRE | QUANTITY PER 1000 S.F. | PLANTING DATE | DEPTH |
|-----------|--------|------------------------|----------------|---------|
| BERMUDA | 10 LBS | 0.25 LBS | 04/01 TO 08/15 | 1/2 IN. |
| FESCUE | 40 LBS | 0.90 LBS | 09/01 TO 11/01 | 1/2 IN. |
| LOVEGRASS | 40 LBS | 0.90 LBS | 04/01 TO 06/30 | 1/2 IN. |
- SEEDING IMPLEMENTS SHOULD BE USED AT RIGHT ANGLES TO THE GENERAL SLOPE TO MINIMIZE EROSION.
 - MULCH SHALL BE USED WHERE NEEDED.
 - THE AREA SHALL BE WATERED DAILY OR AS OFTEN AS NECESSARY TO MAINTAIN ADEQUATE SOIL MOISTURE UNTIL THE PLANTS GROW 1/2 TO 1 INCH.

Storm Water Pollution Prevention Note

THE OWNER/DEVELOPER, THEMSELVES OR THROUGH THE USE OF INDIVIDUAL CONTRACTORS, SHALL BE HELD TOTALLY RESPONSIBLE FOR COMPLYING WITH ANY OR ALL APPLICABLE EROSION AND SEDIMENTATION CONTROL AND POLLUTION PREVENTION REQUIREMENTS ESTABLISHED BY FEDERAL, STATE AND LOCAL AGENCIES OR ANY OTHER GOVERNING AGENCY SPECIFICALLY RELATED TO THE PROJECT. THE LOCATION, INSTALLATION, AND MAINTENANCE OF ALL EROSION CONTROL PRACTICES ON THIS PROJECT SHALL BE DONE IN COMPLETE ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (FOR THE PROJECT) AND OPDES GENERAL PERMIT OKR-10.

CONSULTANTS



ENGINEERED BY DESIGN

Engineered by Design, PLLC
10700 Myers Lane, Choctaw, OK 73020
Ph: 405-234-0980
CA# 7655 - Expires 6/30/2026



P.O. Box 548
Bixby, Oklahoma 74008
Phone: (918) 798-6356

PROJECT NAME

Belvedere Reserve

Jenks, OK

Project No. 2296

SEAL



"I hereby certify that I am familiar with the adopted ordinances and regulations of the City of Jenks governing drainage, streets, detention, and floodplains; that these plans have been prepared under my direct supervision, the above and the foregoing plans comply with all governing ordinances and the adopted standards of the City of Jenks to the best of my knowledge, information, and belief."
"These plans comply with all governing ordinances and the adopted criteria of the City of Jenks pertaining to drainage, streets, detention, and earth change to the best of my knowledge, information and belief."

REVISIONS

REVISED PER CITY COMMENTS	8/10/2026
REVISED PER CITY COMMENTS	10/28/2025
REVISED PER CITY COMMENTS	12/18/2025
REVISED PER CITY COMMENTS	2/9/2026
REVISED PER CITY COMMENTS	3/23/2026

ISSUE DATE

12/18/2025

SCALE

N/A

SHEET NAME

CONSTRUCTION NOTES & EROSION CONTROL DETAILS

SHEET NO.

C2



EXISTING UNDERGROUND LINES HAVE BEEN SHOWN TO THE EXTENT KNOWN. CALL 811 BEFORE YOU DIG!

ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH THE CITY OF JENKS ENGINEERING STANDARD SPECIFICATIONS, INCLUDING O.D.O.T. 2019 EDITION AND APPLICABLE SUPPLEMENTS.



"I hereby certify that I am familiar with the adopted ordinances and regulations of the City of Jenks governing drainage, streets, detention, and floodplains; that these plans have been prepared under my direct supervision; the above and the foregoing plans comply with all governing ordinances and the adopted standards of the City of Jenks to the best of my knowledge, information, and belief."

"These plans comply with all governing ordinances and the adopted criteria of the City of Jenks pertaining to drainage, streets, detention, and earth change to the best of my knowledge, information and belief."

REVISED PER CITY COMMENTS	8/10/2025
REVISED PER CITY COMMENTS	10/28/2025
REVISED PER CITY COMMENTS	12/18/2025
REVISED PER CITY COMMENTS	2/3/2026
REVISED PER CITY COMMENTS	3/25/2026

SCALE 1"=60'

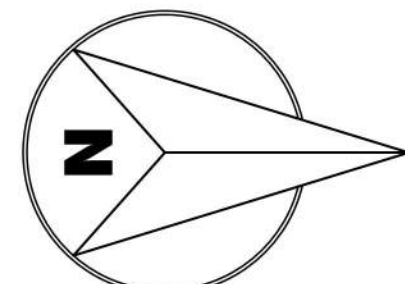
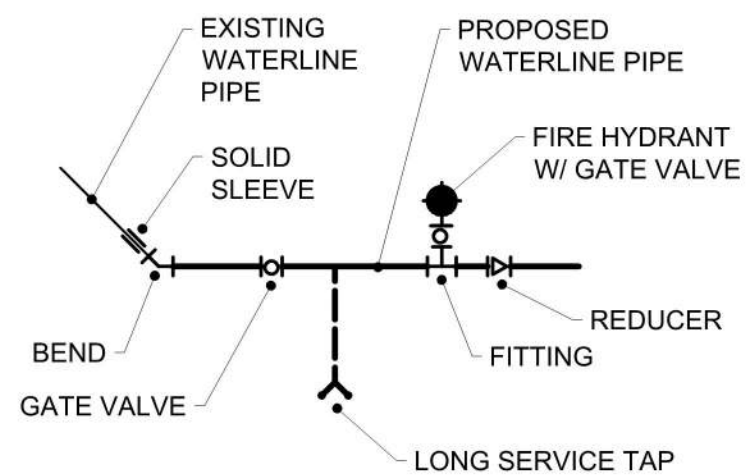
WATERLINE PLAN

WL01



EXISTING UNDERGROUND LINES HAVE BEEN SHOWN TO THE EXTENT KNOWN. CALL 811 BEFORE YOU DIG!

ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH
THE CITY OF JENKS ENGINEERING STANDARD
SPECIFICATIONS, INCLUDING O.D.O.T. 2019 EDITION AND
APPLICABLE SUPPLEMENTS.



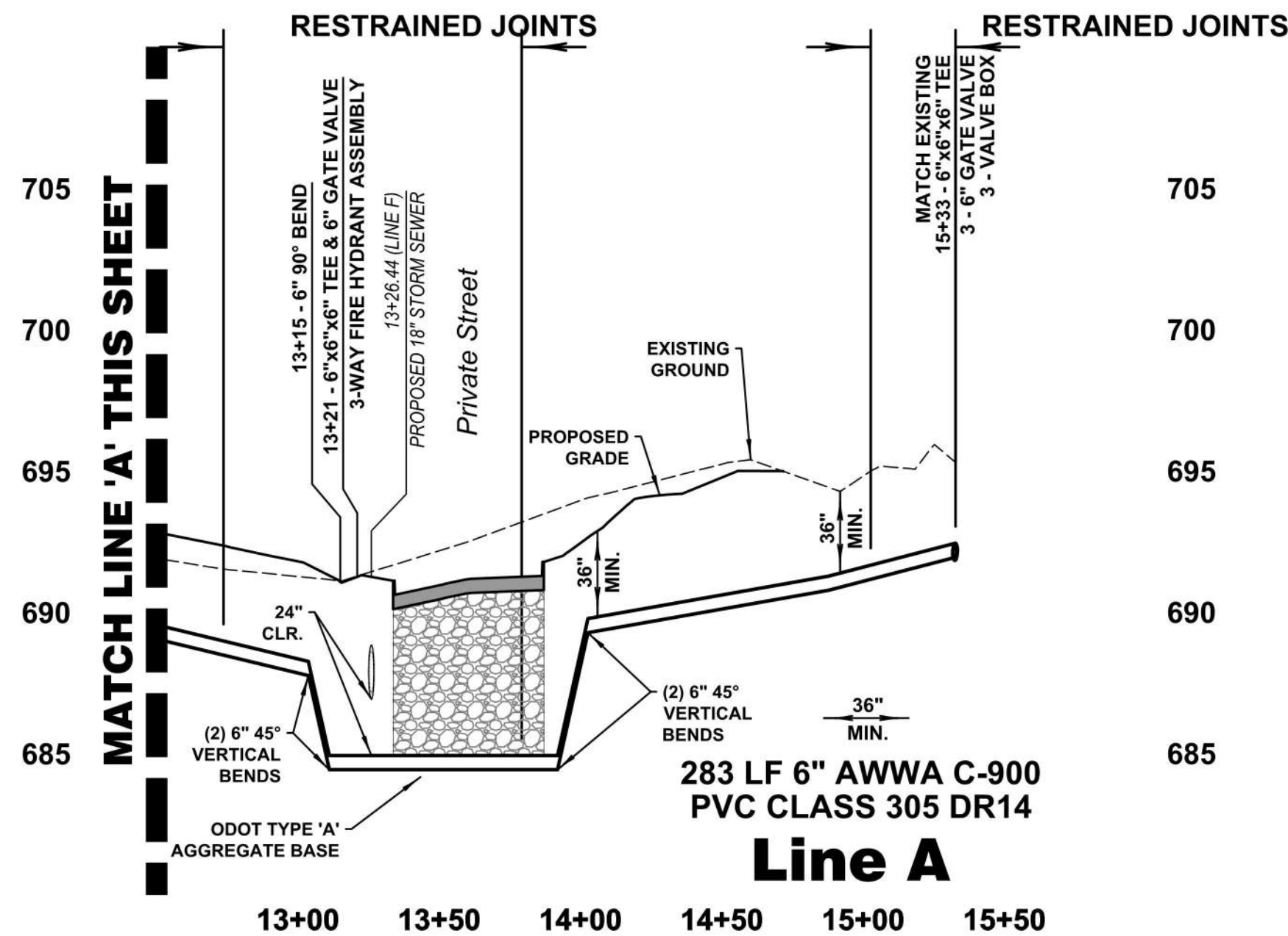
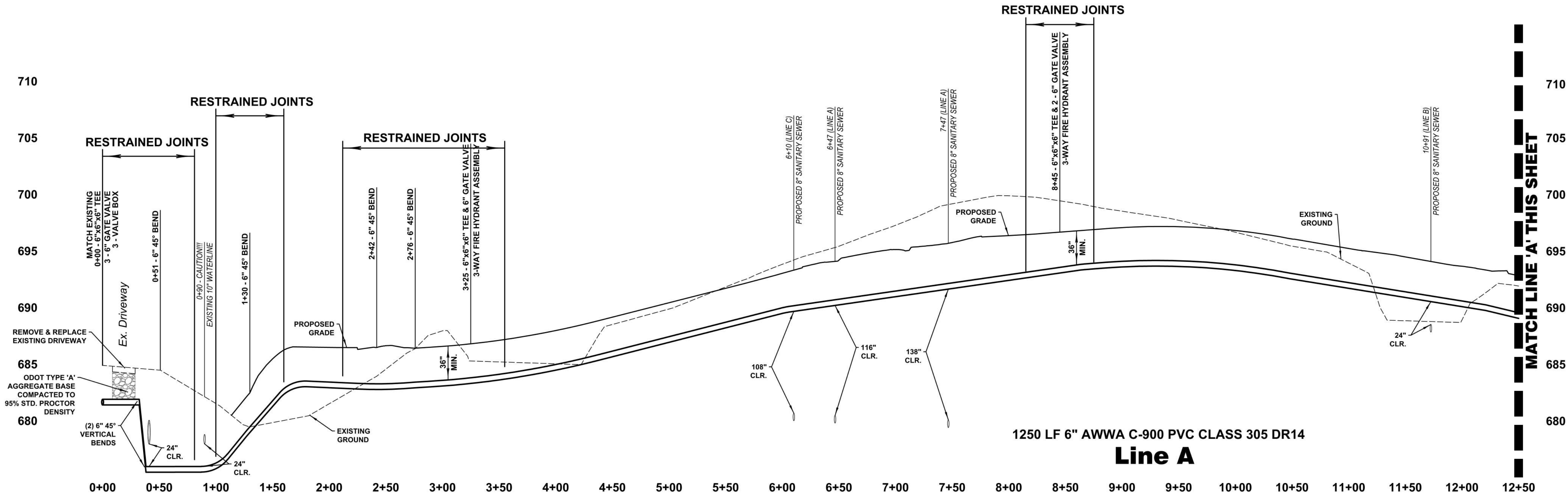
Scale: 1" = 60'



A horizontal scale bar with alternating black and white segments. It is marked with the numbers 0, 30, 60, and 120, representing feet.

REFER TO SHEET C2 FOR CITY OF JENKS STANDARD NOTES

SURVEY CONTROL TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM1	361890.05	2579309.15	686.69	CUT BOX IN CONCRETE
BM2	361049.19	2579272.77	686.45	CUT BOX IN CONCRETE



Waterline Construction Notes

- ALL FITTINGS, VALVES, AND JOINTS SHALL BE RESTRAINED USING MEGA LUGS OR OTHER APPROVED MECHANICAL RESTRAINT SYSTEM OR PRODUCT. DIG THROUGH LOCATOR TAPE WILL BE BURIED 2 FEET ABOVE THE LINE.
- ALL DISTRIBUTION LINES IN CONDUIT AND AT DRAINAGE FEATURE CROSSINGS SHALL BE CONSTRUCTED WITH RESTRAINED JOINTS.
- THE CITY SHALL BE NOTIFIED 48 HOURS PRIOR TO TESTING AND DISINFECTION. ESCROW PAYMENTS TO THE CITY FOR METER SETTINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- FLUSHING, TESTING AND DISINFECTION SHALL BE PERFORMED BY THE CONTRACTOR, AT HIS EXPENSE, UNDER THE SUPERVISION OF THE CITY.
- CONTRACTOR SHALL TEST THE INSTALLED PIPE FOR LEAKAGE IN ACCORDANCE WITH AWWA STANDARD SPECIFICATIONS. LEAKAGE MUST NOT EXCEED 10 GAL/INCH DIAMETER PER MILE OF PIPE PER 24 HOURS AT 150 PSI TESTING PRESSURE.
- CONTRACTOR SHALL INSTALL AND DISINFECT ALL AWWA PVC PIPING ACCORDING TO THE AWWA STANDARD SPECIFICATIONS. CONTRACTOR SHALL OBTAIN SAFE BACTERIOLOGICAL SAMPLES ON TWO CONSECUTIVE DAYS BEFORE PLACING THE WATERLINE INTO SERVICE.

AREA TO BE COMPACTED TO 95%
STANDARD PROCTOR DENSITY
PRIOR TO UTILITY CONSTRUCTION

CONSULTANTS



ENGINEERED BY DESIGN

Engineered by Design, PLLC
10700 Myers Lane, Choctaw, OK 73020
Ph: 405-234-0980
CA# 7655 - Expires 6/30/2026



DEVELOPMENT ANALYSIS
PROJECT MANAGEMENT
DRAFTING & DESIGN

P.O. Box 548
Bixby, Oklahoma 74008
Phone: (918) 798-8356

PROJECT NAME

Belvedere Reserve

Jenks, OK

Project No. 2296

SEAL



"I hereby certify that I am familiar with the adopted ordinances and regulations of the City of Jenks governing drainage, streets, detention, and floodplains; that these plans have been prepared under my direct supervision; the above and the foregoing plans comply with all governing ordinances and the adopted standards of the City of Jenks to the best of my knowledge, information, and belief."

"These plans comply with all governing ordinances and the adopted criteria of the City of Jenks pertaining to drainage, streets, detention, and earth change to the best of my knowledge, information and belief."

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REVISED PER CITY COMMENTS	3/23/2026

ISSUE DATE

12/18/2025

SCALE

1"=50' (H) & 1"=5' (V)

SHEET NAME

WATERLINE
PROFILES

SHEET NO.

WL02



EXISTING UNDERGROUND LINES HAVE BEEN SHOWN TO THE EXTENT KNOWN. CALL 811 BEFORE YOU DIG!

ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH THE CITY OF JENKS ENGINEERING STANDARD SPECIFICATIONS, INCLUDING O.D.O.T. 2019 EDITION AND APPLICABLE SUPPLEMENTS.



CITY OF JENKS

211 NORTH ELM STREET • P.O. BOX 2007
JENKS, OKLAHOMA 74037-2007
PHONE (918) 299-5883 • FAX (918) 299-4489

To: Mayor and Councilmembers

Date: May 7, 2026

Re: First Amendment to Purchase Agreement with Royce Enterprises (Coal Creek Development)

The City and Royce Enterprises Incorporated (“Buyer”) entered into a Purchase Agreement approved by the City Council on May 2, 2023 (the “Purchase Agreement”) for the purchase and sale of unimproved real property generally located on the west side of the South Union Avenue right-of-way north of 121st St. which the City purchased from ODOT in anticipation of economic development on adjacent properties. The Buyer is affiliated with Sooner Investment, the developer of the Coal Creek development.

The developer has faced delays particularly those related to dealing with oil wells on the properties being developed. As a result, the closing date in the Purchase Agreement has passed. Thus, the parties desire to amend the Purchase Agreement. The First Amendment provides that closing of this transaction shall occur on August 15, 2027.

FIRST AMENDMENT TO PURCHASE AGREEMENT

THIS FIRST AMENDMENT TO PURCHASE AGREEMENT (this “First Amendment”) is made and entered into this ____ day of _____ 2026, by and between the City of Jenks, a municipal corporation (hereinafter referred to as “Seller”) and Royce Enterprises Incorporated, a Nebraska corporation, or its assigns (hereinafter referred to as “Purchaser”).

PRELIMINARY STATEMENT

Seller and Purchaser entered into that certain Purchase Agreement which was approved by the City of Jenks as Resolution number 800 on May 2, 2023 (the “Purchase Agreement”) for the purchase and sale of certain unimproved real property generally located on the west side of the South Union Avenue right-of-way in Jenks, Tulsa County, Oklahoma, and more particularly described on Exhibit A to the Purchase Agreement (the “Property”). Seller and Purchaser desire to amend the Purchase Agreement pursuant to the terms set forth below.

TERMS AND PROVISIONS

In consideration of the forgoing Preliminary Statement and in consideration of the mutual covenants and agreements set forth in the First Amendment, the receipt and sufficiency of which is hereby acknowledged, Seller and Purchaser agree as follows:

1. **Definitions.** Unless otherwise expressly defined herein, capitalized terms shall have the same meaning as provided in the Purchase Agreement.
2. **Effective Date.** This First Amendment is dated effective as of May 28, 2024 (the “Effective Date”).
3. **Inspection Period.** The parties acknowledge and agree that the Inspection Period has expired.
4. **Closing.** Section 4 of the Purchase Agreement is hereby amended in part as follows:

Assuming all contingencies herein have been satisfied or waived, the Closing of this transaction shall occur in the offices of the Escrow Agent on August 15, 2027, or on such earlier date as designated by Purchaser and acceptable to Seller.

5. **No Further Amendments; Full Force and Effect.** Except as otherwise provided in this First Amendment, there are no further amendments to the Purchase Agreement, and the Purchase Agreement otherwise remains in full force and effect.

IN WITNESS WHEREOF, this First Amendment is made effective as of the Effective Date provided herein.

SELLER:

CITY OF JENKS,
an Oklahoma municipal corporation

By: _____
Name: Christopher Shrout, City Manager
Date: _____

PURCHASER:

ROYCE ENTERPRISES INCORPORATED,
a Nebraska corporation

By: _____
Name: Lawrence R. James, II, President
Date: _____

PURCHASE AGREEMENT

THIS PURCHASE AGREEMENT (this "Agreement") is made this ___ day of April, 2023 (the "Effective Date"), by and between City of Jenks, an municipal corporation (hereinafter referred to as "Seller") and Royce Enterprises Incorporated, a Nebraska corporation, or its assigns (hereinafter referred to as "Purchaser").

PRELIMINARY STATEMENT

Seller is the legal and beneficial owner of certain unimproved real property consisting of approximately 13.4 acres located at the northwest quadrant of US Highway 75 and 121st Street in Jenks, Tulsa County, Oklahoma and legally described on Exhibit A to this Agreement, including, without limitation, all easements, licenses, appurtenances and mineral rights benefiting such real property, and any interest in the streets or alleys adjacent to such real property (hereinafter the "City Property").

Seller desires to sell a portion of the City Property to Purchaser and Purchaser desires to purchase a portion of the City Property from Seller, and for the purpose of evidencing the agreements of Purchaser and Seller with respect to the purchase and sale of a portion of the City Property, Seller and Purchaser have entered into this Agreement.

Purchaser is under contract to purchase multiple parcels surrounding the City Property. Jenks City Code section 7-2-6 provides that surplus real property may be sold to an adjoining property owner at fair market value where sale other than to adjacent landowner would create an undue hardship to the adjacent landowner.

TERMS AND PROVISIONS

In consideration of the foregoing Preliminary Statement and in consideration of the mutual covenants and agreements set forth in this Agreement, the receipt and sufficiency of which is hereby acknowledged, Seller and Purchaser agree as follows:

1. **Sale and Purchase.** Subject to the terms, conditions, representations, and warranties set forth herein, Seller agrees to sell the Property to Purchaser, and Purchaser agrees to purchase the Property from Seller.
2. **Property.** At the Closing, Seller shall convey to Purchaser a portion of the City Property, generally located on the west side of the South Union Avenue right-of-way (the "Property"), and which Property shall be specifically identified and approved by Seller and Purchaser in good faith pursuant to the Survey (defined below).
3. **Purchase Price.** Purchaser, in consideration of the mutual covenants and agreements contained herein, agrees to pay to Seller the amount in U.S. Dollars of One Million Three Hundred Thousand and NO/100 Dollars (\$1,300,000.00) (the "Purchase Price").
 - a. Five Thousand and No/100 Dollars (\$5,000.00) as earnest money ("Earnest Money") shall be deposited by Purchaser into an interest bearing trust account of Chicago Title Company of Oklahoma, Attn: Dawn Brooks, 210 Park Ave., Oklahoma City, OK 73102

(405-810-2400; dawnb@ctt.com) (hereinafter "Escrow Agent") within three (3) business days following acceptance of this Agreement by Seller, which shall be refundable to Purchaser until expiration of the Inspection Period, as hereinafter defined. Any interest that accrues on the Earnest Money shall accrue to the benefit of Purchaser.

b. The balance of the Purchase Price, subject to adjustments provided herein, shall be payable by wire transfer of available funds to Seller at Closing.

4. **Closing.** Assuming all contingencies herein have been satisfied or waived, the Closing of this transaction shall occur in the offices of the Escrow Agent thirty (30) days following the expiration of the Inspection Period or on such earlier date as designated by Purchaser and acceptable to Seller. All risk of loss in the Property in this transaction shall remain with Seller until Closing has occurred and possession of the Property has been delivered to Purchaser.

5. **Special Warranty Deed.** At Closing, the Seller shall execute and deliver to Purchaser, or its successors, assigns or nominees, a special warranty deed conveying insurable, marketable fee-simple title to the Property, free and clear of all liens, encumbrances, limitations, covenants, reservations, conditions, restrictions, and easements, except for such covenants, reservations, restrictions or easements as permitted in accordance with Section 6 of this Purchase Agreement. Such conveyance shall also convey to Purchaser, its successors, assigns or nominees, any and all interest of the Seller in any easements, licenses and appurtenances which benefit the Property and in any streets and alleys which are adjacent to the Property.

6. **Title Policy.**

a. **The Commitment.** Within ten (10) days after execution of this Agreement, Purchaser shall obtain a commitment (hereinafter the "Commitment") from Chicago Title Company of Oklahoma for issuance of an Owner's (ALTA Form B) policy of title insurance to be issued at Closing by a title insurance company acceptable to Purchaser. The Commitment shall be irrevocable for a period of six (6) months and shall commit the insurer to insure the title to the Property in the condition required herein for the benefit of the Purchaser and its assigns or nominees, for an amount equal to the Purchase Price. The Commitment shall exclude all standard exceptions to coverage shown on Schedule B, and shall include an extended coverage endorsement acceptable to Purchaser, the cost of which extended coverage endorsement, if any, shall be borne by Purchaser. The cost of the Commitment shall be paid by Purchaser.

b. **Purchaser's Objections to Title.** Within thirty (30) days after delivery of the Commitment and Purchaser's receipt of the Survey contemplated by Section 14, Purchaser shall notify Seller of any conditions disclosed in the Commitment and Survey which are objectionable to Purchaser. Upon expiration of said thirty (30) days, Purchaser shall be deemed to have accepted all exceptions to title to the Property as shown on the Commitment except for objectionable conditions of which notification to Seller has been made. In the event of notification to Seller of objectionable conditions by Purchaser, Seller may undertake to eliminate or modify such title defects to the reasonable satisfaction of Purchaser within thirty (30) days (the "Cure Period") after receipt of such notice. It is contemplated that any objections regarding liens and other encumbrances against the Property which may be satisfied by the payment of money may, in Seller's sole discretion, be satisfied at Closing. In the event Seller has not cured, or chooses not to cure such

conditions within the Cure Period or otherwise notified Purchaser that Seller has chosen not to cure earlier, Purchaser may, at its option, and as Purchaser's sole remedy, terminate the Purchase Agreement by written notice to Seller within ten (10) days from expiration of Cure Period or notification of Seller choosing not to cure, whichever is earlier. If this Purchase Agreement is terminated, the Earnest Money shall be promptly returned to Purchaser, Purchaser to pay all costs, fees, and expenses payable to the Title Company; and neither party shall thereafter have any further duties, rights or obligations hereunder with respect to this Purchase Agreement. Any title defects accepted by the Purchaser or not timely objected to as aforesaid shall be hereunder collectively referred to as "Permitted Encumbrances". Possession of the Property shall be delivered at the Closing free and clear of all matters except the Permitted Encumbrances.

c. **New Liens or Conditions.** So long as this Agreement is in effect, the Seller shall not transfer, convey, or otherwise dispose of any right, title or interest in the Property, except subject to the terms of this Agreement, or with written consent of Purchaser. Seller further agrees not to consent to, or allow to exist, any new lien, encumbrance, condition reservation, easement, lease, restriction, or covenant against the Property, other than the lien for current real estate taxes which are due but not yet delinquent.

7. **Existing Reports.** Not later than seven (7) days following acceptance of this Agreement, Seller shall provide to Purchaser all surveys, engineering reports, reports concerning environmental matters, reports concerning hazardous or toxic substances, engineering studies, zoning information, subdivision and development agreements, topographical maps, abstracts, tax statements and other reports, studies and information which Seller has in its possession.

8. **Right of Entry.** Purchaser, and its duly authorized agents, shall have the right during the Inspection Period, as hereinafter defined, and thereafter until closing, to enter into and upon the Property in order to make, at Purchaser's expense, necessary surveys, measurements, soil tests, environmental studies and other tests as Purchaser shall deem necessary. Purchaser agrees to restore any resulting damage to the Property and to indemnify, hold harmless and defend Seller from any and all claims by third persons of any nature whatsoever arising from Purchaser's right of entry hereunder, including all actions, suits, proceedings, demands, assessments, costs, expenses and attorney fees. Purchaser shall provide Seller with reasonable advance notice of all times in which Purchaser wishes to enter into and upon the Property.

9. **Tax Increment Financing and Entitlements.** Seller and Purchaser agree and acknowledge that an essential element of Purchaser's ability to develop the Property is the availability and access to tax increment financing ("TIF"). Seller represents that, to the best of Seller's knowledge, the Property is located in an area that has been designated by the City of Jenks, Oklahoma. Purchaser shall be responsible for completing and submitting all applications required by Seller to substantiate and apply for TIF funds (the "Project TIF"). Seller agrees to cooperate with Purchaser in processing the Project TIF and any entitlements reasonably requested by Purchaser associated with Purchaser's intended use in a timely manner during the "Inspection Period", as hereinafter defined, and at no cost to Seller, including but not limited to the execution of any applications associated therewith.

10. **Leases and Other Interests.** At Closing, no portion of the Property will be subject to any purchase agreement or right of first refusal and no portion of the Property will be subject to any lease or other undisclosed and unrecorded interest, right or restriction. Seller certifies that

there will have been no labor performed and no materials furnished to the Property by any person or entity that have not been paid in full, for at least one hundred twenty (120) days prior to closing. Seller hereby indemnifies and agrees to hold Purchaser harmless from any such claims.

11. **Hazardous Materials.** Seller represents and warrants that, to the best of Seller's knowledge, Seller has not used, generated, stored or disposed of, above, in, on, under or around the Property any "hazardous materials", as hereinafter defined, and Seller has no knowledge that there are any hazardous materials above, in, on, under, or around the Property. The term "hazardous materials" means any material or substance which is listed in the United States Department of Transportation Hazardous Materials' Table (49 CFR 172.101) on the date of this Agreement which is kept, used or disposed of in a manner and in quantities which do not comply with applicable laws and regulations pertaining to said materials or substances. Seller agrees that it will not use, generate, store or dispose of, or permit the use, generation, storage, or disposal of any hazardous materials as herein above described above, in, on, under or around the Property now or at any time prior to closing.

12. **Pending Actions.** Seller has no notice of any action, litigation, proceeding, or investigation against itself or its partners, or the Property, which would affect the Property or the right of Seller to sell and convey the Property, or any action, litigation, proceeding or investigation, including, without limitation, any eminent domain proceeding which would result in any lien, claim, right or interest in the Property in favor of any third party.

13. **Status of Seller.** Seller is not a foreign person, a foreign partnership, a foreign trust or a foreign estate as those defined in Section 1445 of the Internal Revenue Code.

14. **Survey.** Not later than thirty (30) days following receipt of the Commitment, Purchaser shall have its engineers prepare a certified ALTA land survey for the Property (hereinafter the "Survey"), at Purchaser's sole cost and expense. The Survey shall reflect the legal description of the Property and the "Surveyed Square Footage" of the Property, which shall be determinative of the square footage of the Property exclusive of existing road right-of-way, roadway easements, floodplain and floodway, and for calculation of the Purchase Price per Section 3. The accuracy and validity of the Survey shall be certified to Seller and Purchaser by the surveyor using a certification form reasonably acceptable to Seller and Purchaser.

15. **Purchaser's Conditions Precedent.** The obligation of Purchaser to consummate the transactions contemplated herein is expressly subject to satisfaction as determined by Purchaser, in its absolute discretion, of the Property's condition during the period commencing on complete execution of this Agreement and ending December 1, 2023 (hereinafter the "Inspection Period"). In the event that Purchaser determines the Property's condition is unsuitable in any manner in Purchaser's absolute discretion on or before expiration of the Inspection Period, Purchaser may terminate this transaction by giving written notice thereof to Seller on or before the expiration of the Inspection Period, and in the event of such termination, all Earnest Money paid herein, together with accrued interest, shall be refunded to Purchaser, and the parties shall have no further liability hereunder except for the provisions of Section 8 above. Notwithstanding the above, Purchaser may elect to extend the Inspection Period for two (2) additional ninety (90) day periods (hereinafter the "Extension Periods"). Upon exercising the Extension Period, Purchaser shall authorize Escrow Agent to release to Seller \$2,500 of the Earnest Money for each ninety (90) day Extension Period, which funds shall be nonrefundable to Purchaser and applicable to the Purchase Price at Closing. In the event Purchaser fails to terminate this Agreement prior to expiration of the

Inspection Period or any Extension Period, the conditions listed below, except for a. and b. shall be deemed waived.

a. **Title.** This Agreement is contingent upon condition of title to the Property being established in accordance with the Section 6 of this Agreement, subject only to Permitted Encumbrances.

b. **Warranties.** This Agreement is contingent upon all warranties and representations of Seller hereunder being true and correct in all material respects as of the date hereof and as of the closing date.

In the event the Purchase Agreement is terminated by Purchaser during the Inspection Period, Purchaser shall provide to Seller copies of all materials prepared by Purchaser during the Inspection Period at no additional cost to Seller.

16. Closing Costs and Apportionments.

a. **Real Estate Taxes.** All consolidated real estate taxes which become delinquent in the year in which Closing takes place shall be treated as though all are current taxes, and those taxes shall be prorated as of the date of Closing, and all prior years' taxes, interest, and other charges, if any, will be paid by Seller. In the event the Property does not contain all of the property included in the tax parcel, Seller and Purchaser shall agree on an equitable allocation of the valuation attributable to the Property and the portion of the tax parcel that is not purchased by Purchaser.

b. **Special Assessments.** Seller agrees that it shall pay and/or be responsible for all special assessments, preliminary or final, including any deficiency assessments or such assessments deferred for any reason, which relate to the installation of public improvements or which are attributable to public improvements that have been assessed as of execution of this Purchase Agreement, with Purchaser being responsible to pay for all special assessments, preliminary or final, including any deficiency assessments or such assessments deferred for any reason, which relate to the installation of public improvements or which are attributable to public improvements that are assessed at any time after the date of execution of this Purchase Agreement so long as the Purchase Agreement is closed.

c. **Real Estate Transfer Taxes.** Real estate transfer taxes predicated on the Purchase Price will be paid by Seller.

d. **Recording Fees.** Purchaser shall be responsible for recording fees for the deed of conveyance.

e. **Title Insurance.** Seller and Purchaser each shall pay one-half of the title insurance required by Section 6 of this Agreement. Purchaser shall pay the cost of any endorsements on such policy. Seller and Purchaser shall each shall pay one-half of the cost of closing fee charged by the closing company or agent.

f. **Survey.** Purchaser shall pay the cost of the Survey required by Section 14 of this Agreement.

17. **Other Documents and Deliveries.** Seller agrees to deliver at Closing such documents and assurances as may be reasonably required by Purchaser to affirm the title of the Property, and to verify to Seller's satisfaction the conditions of this Agreement, including, but not limited to:

- a. Affidavit of possession;
- b. Construction lien and special assessment affidavit and indemnity; and
- c. Special warranty deed.

Possession of the Property shall be delivered to Purchaser at closing.

18. **Notices.** All notices, demands, writings, supplements, or other documents which are required or permitted by the terms of this Agreement to be given to any party shall be delivered in person, via electronic mail with receipt, or shall be deposited in the United States Mail, postage prepaid, return receipt requested, addressed as set forth below, and shall be effective on the date of such deposit or the date of delivery, as the case may be:

To Seller:

City of Jenks, Oklahoma
c/o Chris Shrout, City Manager
211 North Elm Street
Jenks, OK 74037
Email: csshrout@jenksok.org

With copy to:

City of Jenks, Oklahoma
Attn: Teresa Nowlin, Esquire
City Attorney
211 North Elm Street
Jenks, OK 74037
Email: tnowlin@jenksok.org

To Purchaser:

Royce Enterprises Incorporated
c/o Lawrence R. James, II
12910 Pierce Street, Suite 110
Omaha, NE 68144
Email: chip@lockwooddev.com

With copy to:

Sooner Investment Group, Inc.
Attn: Chris Challis
2301 W. I-44 Service Rd., Suite 100
Oklahoma City, OK 73112
Email: chris@soonerinvestment.com

And with a copy to:

James D. Buser, Esq.
Pansing Hogan Ernst & Bachman, LLP
10250 Regency Circle, Suite 300
Omaha, NE 68114
Email: jbuser@pheblaw.com

19. **Entire Agreement.** This Agreement evidences the entire agreement of the parties and may only be amended in a written agreement signed by both parties. No oral representations may be relied upon.

20. **Broker.** Each party represents one to the other that it has not engaged any broker or real estate agent in this transaction. Each party agrees to indemnify and hold the other party harmless from and against any such fees or commissions, including reasonable attorney fees and court costs incurred, should any such expense arise other than as contemplated in this Section.

21. **Remedies of the Parties.** If Purchaser defaults in the performance of this Agreement, Seller may forfeit this Agreement upon thirty (30) days' written notice and the Earnest Money, including accrued interest thereon shall be deemed to be liquidated damages and shall be retained by Seller as its sole and exclusive remedy. If Seller defaults in the performance of any of its obligations pursuant to this Agreement, Purchaser shall give Seller notice of such default. If Seller has not cured such default or begun significant steps for such cure, the Agreement may be terminated by Purchaser at the expiration of the thirty (30) days following notice of default and the Earnest Money and interest shall be immediately refunded to Purchaser or Purchaser may elect to pursue an action for specific performance.

22. **Offer and Acceptance.** If this offer is not accepted by Seller on or before the 30th day of March, 2023, at 5:00 p.m., it shall become void, and all payments shall be repaid to Purchaser. Purchaser shall, however, have the right to withdraw the offer at any time prior to acceptance thereof by Seller.

23. **Prior Agreements.** This offer replaces any and all prior written or oral representations made by either party and shall be binding upon the parties hereto, their successors and assigns. This Agreement may not be changed or altered in any way, except pursuant to a written agreement signed by both parties, provided, however, Purchaser shall have the right to assign this Agreement to another entity in which Lawrence R. James, II has a controlling equity interest. No oral representations of any kind shall be binding upon either party unless fully set forth herein or in any such amendment.

24. **Survival of Warranties.** Any warranties, covenants and representations herein shall survive the execution of this Agreement and any other documents, including the Special Warranty Deed given by Seller to Purchaser to consummate this transaction, and shall not be merged into such documents.

25. **Construction; Jurisdiction; Costs and Fees.** This Agreement shall be construed pursuant to the laws of the State of Oklahoma. Jurisdiction for any legal proceeding involving the interpretation or enforcement of this Agreement shall lie exclusively in the State and Federal Courts located in Tulsa County, Oklahoma. In the event of any legal proceedings involving the interpretation or enforcement of this Agreement, the prevailing party shall be entitled to recover from the non-prevailing party all of its costs, expenses and reasonable attorneys' fees. Wherever possible, each provision of this Agreement shall be interpreted in such manner as to be effective and valid. If any such provision of this Agreement shall be determined to be invalid or unenforceable, such provision shall be ineffective to the extent of such prohibition or invalidity without invalidating or otherwise affecting the remaining provisions of this Agreement. Time is of the essence.

26. **Headings.** Article and section headings used in this Agreement are for the convenience of the parties only and shall not affect the construction of this Agreement.

27. **Signs.** Seller agrees to allow Purchaser the right to place marketing sign(s) on the Property during the first and second Extension Periods. Notwithstanding the foregoing, Purchaser shall be able to market the property through other forms of marketing materials such as brochures, flyers and emails. Should Purchaser elect to terminate this agreement during any extensions of the Inspection Period, Purchaser shall remove all marketing signs from the property within 10 days of notice of termination and return the property to its condition prior to sign installation.

**[THE REMAINDER OF THIS PAGE LEFT INTENTIONALLY BLANK – SIGNATURES APPEAR ON
THE FOLLOWING PAGE]**

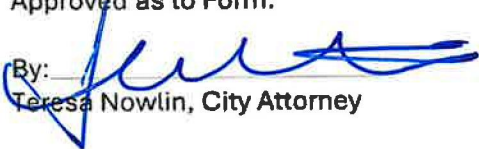
IN WITNESS WHEREOF, this Agreement is made effective as of the Effective Date written above.

SELLER:

City of Jenks, Oklahoma, an Oklahoma municipal corporation

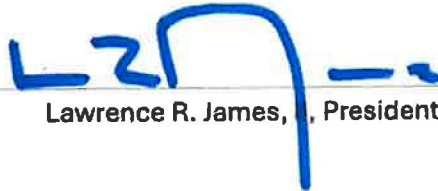
By: 
Christopher Shrout, City Manager

Approved as to Form:

By: 
Teresa Nowlin, City Attorney

PURCHASER:

ROYCE ENTERPRISES INCORPORATED

By: 
Lawrence R. James, President

City Property Description

Phase II MS4 Annual Stormwater Management Program (SWMP) Report

Name of Phase II MS4 Operator:	City of Jenks
Permit ID Number:	OKR040024
Annual Report Reporting Period:	January 1 – December 31, 2025
Phase II MS4 Responsible Authority:	Christopher Shrout
Title:	City Manager
Designated Phase II MS4 Stormwater Management Program Contact:	Anthony Wilkins, P.E.
Title:	City Engineer
Mailing Address:	P.O. Box 2007
	Jenks, OK 74037
Telephone Number:	918.299.5883
E-mail Address:	awilkins@jenksok.org

SECTION I. OVERVIEW OF STORMWATER PROGRAM IMPLEMENTATION, COMPLIANCE AND CERTIFICATION

Phase II regulations issued by EPA (64 FR 68722) require NPDES permits for stormwater discharges from certain small municipal separate storm sewer systems and construction activity generally disturbing between 1 and 5 acres. Under the Phase II MS4 stormwater program, operators of regulated small MS4s are required to:

- Apply for NPDES permit coverage
- Develop a SWMP which includes the six minimum control measures (MCMs)
- Implement the SWMP using appropriate stormwater management controls, or best management practices (BMPs)
- Develop measurable goals for the program
- Evaluate the effectiveness of the program

In accordance with ODEQ General Permit OKR04, November 1, 2015, City of Jenks submitted its Notice of Intent (NOI) and supporting documents for permit renewal on January 29, 2016. Also required was the development of the City's Storm Water Management Program (SWMP), dated January 29, 2016, that identifies MCMs and BMPs. City of Jenks' Authorization for Stormwater Discharge from Phase II Small Municipal Separate Storm Sewer System (MS4) was issued with an effective date of January 6, 2017 and an expiration date of October 31, 2020. On June 1, 2021, the modified ODEQ General Permit OKR04 was approved, and the City of Jenks submitted its Notice of Intent (NOI) for permit renewal on July 7, 2021. City of Jenks' Authorization for Stormwater Discharge from Phase II Small Municipal Separate Storm Sewer System (MS4) was re-issued with an effective date of August 5, 2021 and an expiration date of May 31, 2026. A requirement for the ODEQ General Permit OKR04 was to update our existing Stormwater Management Program (SWMP) by May 31, 2023. The City of Jenks Storm Water Management Program was updated at the end of 2022 and begun implementing the updated requirements May 25, 2023. On March 14, 2024 the City of Jenks received comments on their 2022 annual stormwater report from ODEQ. The City will comply with all requirements stated in the OKR04 permit and consider implementing recommendations provided during the annual reporting period between January 1, 2024 through December 31, 2024. On July 24, 2024 the City of Jenks received comments on their 2023 annual stormwater report from ODEQ. The City will comply with all requirements stated in the OKR04 permit and consider implementing recommendations provided during the annual reporting period between January 1, 2025 through December 31, 2025. March 19, 2026 through March 20, 2026 ODEQ and EPA conducted an audit of the City of Jenks' Stormwater Program. During this audit ODEQ and EPA provided clarification to the requirements of the OKR04 permit and the City of Jenks will comply with all requirements stated in the OKR04 permit and consider implementing recommendations provided during the annual reporting period between January 1, 2026 through December 31, 2026.

As required by ODEQ General Permit OKR04, the City of Jenks herein submits this Annual Report (AR) of activities accomplished from January 1st through December 31st, 2025. This Annual Report is based on the June 1, 2021 ODEQ General Permit OKR04. A summary of the data collected is provided with all supporting documentation kept on file and available. Best Management Practices (BMPs) for each Minimum Control Measure (MCM) are evaluated and determined to be in compliance with the City of Jenks Stormwater Management Program (SWMP) annually.

This report and assessment of the City of Jenks stormwater program will address annual report requirements as outlined in OKR04, Part VI.C. Tables 1 through 6 provide the City's status of compliance with permit conditions, assessment of appropriateness of BMPs and progress towards achieving measurable goals.

"Permit Conditions" represent all major areas of permit requirements that are to be addressed in OKR04 compliance. The status assigned to each of these Permit Conditions is addressed in Tables 1 through Table 6, assessing BMPs.

SECTION	TITLE	PAGE
I	OVERVIEW OF STORMWATER PROGRAM IMPLEMENTATION, COMPLIANCE AND CERTIFICATION	1
II	BMP ASSESSMENT AND ACHIEVEMENT PROGRESS	2
III	CHANGES TO BEST MANAGEMENT PRACTICES (BMPs)	10
IV	STORMWATER ACTIVITIES PLANNED DURING THE NEXT REPORTING CYCLE (Calendar Year 2022)	10
V	TRANSFER OF OWNERSHIP OR OPERATIONAL AUTHORITY	13
VI	ADDITIONAL BMPs BEING IMPLEMENTED TO ADDRESS 303(d) WATERS	17
VII	TMDL IMPLEMENTATION REPORTS, STATUS AND COMPLIANCE ACTIONS TAKEN	17
VIII	ADDITIONAL BMPs BEING IMPLEMENTED TO COMPLY WITH TMDLS	17
IX	AGREEMENTS WITH OTHER GOVERNMENTAL ENTITIES	18

Questions for local officials about this AR or stormwater program should be directed to the MS4 Contact Person listed on the cover page. Questions about the State's Phase II stormwater permit program should be directed to the ODEQ Water Quality Division.

✦ ✦ ✦ ✦ ✦ ✦

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."


Anthony Wilkins, P.E., City Engineer

4/30/26
Date

SECTION II. BMP ASSESSMENT AND ACHIEVEMENT PROGRESS

The City of Jenks has remained in compliance with the OKR04 permit over the period of January 1, 2025 to December 31, 2025. Our completion of compliancy can be attributed to the City staff following annual stormwater program schedule developed by the City. Following the stormwater program schedule, the City's BMPs were able to be completed and documented in a systematic manner, enabling City staff to easily track the compliance status throughout the year. All BMP assessments and achievement processes are based on the June 1, 2021 ODEQ General Permit OKR04. As the City of Jenks updates the Storm Water Management Program the current BMPs for each MCM will be updated to reflect the required changes.

MCM V.C1: PUBLIC EDUCATION AND INVOLVMENT

Purpose: The City of Jenks uses a variety of public education BMPs to inform individuals and groups within the community about the steps they can take to reduce stormwater pollution and become involved in the stormwater program. Public Involvement is different from Public Education in that the citizens of the City of Jenks actively participate in a program component. These activities include the use of recycling centers, participation in household pollutant collection events, and community cleanup events. By participating, citizens not only learn about the urban stormwater quality issues but contribute towards improving water quality in their community. Appendix A summarizes all BMPs that will be used for this MCM.

Annual Reporting Items:

- Achievement of measurable goals for this MCM: 100%
- Are the BMPs in this MCM in compliance with Permit Conditions? ☒ YES ☐ NO
- Summary of attainment of annual measurable goals:

TABLE 1			
BMP	MEASURABLE GOAL	RESULTS	DESIGNATED 303(d) AND TMDL BMP
a. Comply with all state and local public notification	Permit application	Application Submitted - July 7, 2021: Approved August 5, 2021	
b. Public Meetings – Present Phase II Program in City Manager's Report	Once per year	To be included in CM Report –May 5, 2026	
c. Public Notification	Once per year	Events publicized – 5 Stormwater information/events publicized – 5	
d. Receive and consider information from the Public	Contact records	Contacts made by public - 3	
1) Education programs will provide access to materials or links to online resources that target commercial and industrial enterprises. Stormwater Website 1) INCOG/Green Country Stormwater Alliance (CGSA) website 2) City of Jenks Stormwater Management webpage	Materials INCOG records Webpage usage records	Brochures/flyers distributed – 100 Items distributed – 50 City of Jenks Website includes: • Stormwater Management information • Brochures and Fact Sheets • Link to Regional Stormwater Management Information (GCSA) Website annual views: • Jenks Stormwater Management – 348 • Trash & Recycling webpages – 6,842 • GCSA (stormwaterok.net) – 453	
f. Distribute brochures.	100 Total	Brochures/flyers distributed – 100	*
g. Distribute give away items	50 per year	Items distributed - 50	
h. Aquarium Education Program 1) Promote/coordinate Programs with Aquarium Education Department 2) Behind the Scenes (BTS) Tours 3) Virtual Field Trips 4) Oklahoma Energy Resources Board (OERB) Program	Number of daily visitors Number of participants Number of participants Number of participants	Participants – No additional activities were accounted for during this reporting cycle. Participants – 79 Participants – Participants – 50	
i. Oklahoma Aquarium Graphics and Video 1) Graphics displayed that address wastewater and storm drains 2) Video to educate visitors about the zebra mussel	Number of visitors annually	Visitors – 392,874	
j. Give presentations to Leadership Jenks classes.	1 Session per year	Stormwater Phase II / Leadership Jenks – April 08,2025 – 15 participants	
k. Curbside Recycling Program	Participating Residents	Average monthly customers – 8,790 Annual amount of recyclables – 3,483,500 lbs.	
l. Make SWMP available to the public; assist with notifications by ODEQ	City office hours	8:00 a.m. - 5:00 p.m. Monday through Friday (excluding City holidays)	
m. Promote regional or implement local household pollutant collection events (Household Pollutant Collection Events and Jenks Trash Bash)	Trash Bash - 1 event per year	Jenks Trash Bash – May 10, 2025; 22 qty 30-yd containers Additional events: ▪ March 1, 2025 – Big Spring Clean ▪ March 20, 2025 – Fire Extinguisher & Smoke Alarm Recycling Collection ▪ May 8, 2025 – Fire Extinguisher & Smoke Alarm Recycling Collection ▪ December 6, 2025 – Jenks Collection Event	
n. Promote use of regional recycling centers	Webpage posting and directed to Tulsa/Glenpool	City of Jenks Website includes: • Curbside recycling information for Jenks residents • Link to Mr. Murph website and location information • Link to M.E.T. website and Recycling Center locations • Household Pollutant (HHP) Facility information – 90 vouchers Used	
o. Purchase and maintain pet waste disposal stations	Maintain site	Disposal stations are regularly maintained. Seven (7) disposal stations are regularly checked/ maintained in three (3) City Parks regularly	*
p. Promote citizen participation in city cleanup events, use of recycling centers in the vicinity and participation in pollutant collection facility	Webpage postings	Cleanup Events posted on Website – 2 City of Jenks website includes: • Mr. Murph Program and location information • Nearby M.E.T. Recycling Center locations • Household Pollutant (HHP) Facility information • E-waste Disposal information	*
q. INCOG's GCSA regional stormwater web site (www.stormwaterok.net)	INCOG records GCSA Website Annual Views	GCSA website (stormwaterok.net) – 453 annual views	

Assessment of Appropriateness: BMPs for this MCM have been reviewed/evaluated and determined to be appropriate for the City of Jenks SWMP. See table below.

BMP	Assessment of Appropriateness
a. Comply with all state and local public notification requirements	City staff has reviewed, evaluated, and determined BMP (a) for MCM V. C1 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
b. Public Meetings – Present Phase II Program in City Manager’s Report	City staff has reviewed, evaluated, and determined BMP (b) for MCM V. C1 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
c. Public Notification	City staff has reviewed, evaluated, and determined BMP (c) for MCM V. C1 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
d. Receive and consider information from the Public	City staff has reviewed, evaluated, and determined BMP (d) for MCM V. C1 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
2) Education programs will provide access to materials or links to online resources that target commercial and industrial enterprises. Stormwater Website 1) INCOG/Green Country Stormwater Alliance (GCSA) website 2) City of Jenks Stormwater Management webpage	City staff has reviewed, evaluated, and determined BMP (e) for MCM V. C1 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
f. Distribute brochures.	City staff has reviewed, evaluated, and determined BMP (f) for MCM V. C1 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit. During this review BMP (f) for MCM V.C1 was designated as a 303(d) and TMDL BMP.
g. Distribute give away items	City staff has reviewed, evaluated, and determined BMP (g) for MCM V. C1 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
h. Aquarium Education Program 1) Promote/coordinate Programs with Aquarium Education Department 2) Behind the Scenes (BTS) Tours 3) Virtual Field Trips 4) Oklahoma Energy Resources Board (OERB) Program	City staff has reviewed, evaluated, and determined BMP (h) for MCM V. C1 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
i. Oklahoma Aquarium Graphics and Video 1) Graphics displayed that address wastewater and storm drains 2) Video to educate visitors about the zebra mussel	City staff has reviewed, evaluated, and determined BMP (i) for MCM V. C1 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
j. Give presentations to Leadership Jenks classes.	City staff has reviewed, evaluated, and determined BMP (j) for MCM V. C1 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
k. Curbside Recycling Program	City staff has reviewed, evaluated, and determined BMP (k) for MCM V. C1 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
l. Make SWMP available to the public; assist with notifications by ODEQ	City staff has reviewed, evaluated, and determined BMP (l) for MCM V. C1 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
m. Promote regional or implement local household pollutant collection events (Household Pollutant Collection Events and Jenks Trash Bash)	City staff has reviewed, evaluated, and determined BMP (m) for MCM V. C1 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
n. Promote use of regional recycling centers	City staff has reviewed, evaluated, and determined BMP (n) for MCM V. C1 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
o. Purchase and maintain pet waste disposal stations	City staff has reviewed, evaluated, and determined BMP (o) for MCM V. C1 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit. During this review BMP (o) for MCM V.C1 was designated as a 303(d) and TMDL BMP.
p. Promote citizen participation in city cleanup events, use of recycling centers in the vicinity and participation in pollutant collection facility	City staff has reviewed, evaluated, and determined BMP (p) for MCM V. C1 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit. During this review BMP (p) for MCM V.C1 was designated as a 303(d) and TMDL BMP.
q. INCOG’s GCSA regional stormwater web site (www.stormwaterok.net)	City staff has reviewed, evaluated, and determined BMP (q) for MCM V. C1 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit. During this review the measurable goal BMP (q) for MCM V.C1 was change from “INCOG records” to “INCOG records and GCSA Website Annual Views”.

MCM V.C2: INDUSTRIAL STORMWATER RUNOFF CONTROL

The City of Jenks does not meet the requirement (serving a population greater than or equal to 50,000 within an UA) to be considered a Category 3 small MS4. However, the City of Jenks does meet the requirements (serving a population greater than or equal to 10,000, but less than 50,000 within an UA, or a population greater than or equal to 10,000 but less than or equal to 100,000 with a population density greater than or equal to 1,000/square mile or more located outside of an UA) to be considered a Category 2 small MS4. Therefore, MCM V.C2 does not apply to the City of Jenks.

MCM V.C3: ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)

Purpose: The City of Jenks will continue to follow and update their program to detect and eliminate illicit discharges per the requirements in the OKR04 General Permit. Our program relies upon a number of methods, see Table 3 below, to detect and eliminate pollutants within our MS4. There are two categories of pollutants that are addressed 1) episodic incident with no determinable source, and 2) chronic or frequent incident with a potentially determinable source.

Annual Reporting Items:

- Achievement of measurable goals for this MCM: 100%
- Are the BMPs in this MCM in compliance with Permit Conditions? ☒ YES ☐ NO
- Summary of attainment of annual measurable goals:

BMP	MEASURABLE GOAL	RESULTS	DESIGNATED 303(d) AND TMDL BMP
a. MS4 Mapping 1) Update map showing basic system features, major outfalls, and prominent receiving streams. 2) Map data from substate planning agencies, State, and Federal agencies to be used with Jenks maps.	Updated Annually	Map Last Updated March 19, 2026	*
b. Review/modify stormwater ordinance for illicit discharge (MCM #3), construction (MCM #4) and post-construction (MCM #5).	Yearly	City Ordinance No. 1206 Reviewed – March 26, 2025	
c. Site Plan Review - Incorporate review of erosion and sediment control BMPs (#4) and post-construction BMPs (#5) that address water quality into site plan review process.	Number of new developments	New developments – 17	
d. Conduct inspections for illicit discharges (MCM #3) to City waters. 1) Inspections will be conducted within 72-hours of reported illicit discharge incidents. 2) Identified sources of illicit discharges will be removed. 3) Inspection training to be attended by City employees. 4) Provide technical guidance for staff on methods to identify illicit discharges.	Reported illicit discharge incidents inspected within 72-hours	Number of reported illicit discharges: 3 Create a plan and implement the plan to remove illicit discharges when identified. Employees attended GCSA Workshops. Training/technical guidance acquired through GCSA Workshops, conferences, and webinars.	*
e. Dry Weather Screenings	40% per year 14 of 35 Outfall Locations	DWFS Procedures Review – September 1, 2025 Visual Inspections completed – 14 Test kits used during inspections – 0 New outfall locations identified – 0	*
f. Periodically review/update an IDDE ordinance or local code to control pollution.	Yearly	City Ordinance No. 1206 Reviewed – March 26, 2025	
g. Evaluate Dry Weather Field Screening (DWFS) inspection program.	Yearly	DWFS Procedures Review – September 1, 2025	
h. Address sanitary sewer overflows and bypasses.	As occurs	DEQ Forms 605-011 submitted: 3	*
i. Use GCSA website and brochures to inform the public about improper waste disposal.	GCSA Website Annual Views	GCSA website (stormwaterok.net) – 453 views Brochures/flyers distributed – 100	*
j. Assess Spill Response and Prevention Plan for spills within the MS4.	As occurs	Jenks Fire Department has a current Spill Response Procedure in effect.	
k. Train city field workers to inspect for, identify, report, and removal of pollution.	Yearly	Training provided: • Module 1 / September 5, 2025 – 20 employees • Module 2 / October 6, 2025 – 16 employees • Module 3 / October 6, 2025 – 17 employees • Module 1 / December 1, 2025 – 2 employees	*
l. Develop 303(d) priority areas for pollution source inspections and update as needed.	Once per year	303(d) Listed Waterbodies within the MS4 (2022): • Arkansas River • Nickel Creek • Polecat Creek	*
m. Conduct pollutant source inspections in 303(d) high priority areas.	Once per year	Visual inspections were performed.	*
n. Update as needed operation and maintenance (O&M) program for structural and non-structural stormwater controls.	Once per year	City Ordinance No. 1206 - §13-4-2 defines structural and non-structural practices; §13-4-9 addresses structural and non-structural BMPs for Post-Construction Runoff Control.	
o. Maintain a list of occasional incidental non-stormwater discharges.	As occurs	List of occasional non-stormwater discharges is maintained. Recorded non-stormwater discharges – 0	
p. Education programs will provide access to materials or links to online resources that target commercial and industrial enterprises that have business activities that may negatively impact the stormwater quality of the MS4.	Materials distributed/online usage records	Brochures/flyers distributed – 100 City of Jenks Website includes: • Stormwater Management information • Brochures and Fact Sheets • Link to Regional Stormwater Management Information (GCSA) Website annual views: • Jenks Stormwater Management – 348 • Trash & Recycling webpages – 6,842 • GCSA (stormwaterok.net) – 453	
q. Inventory on-site sewage disposal systems (OSSDS) in the MS4.	Once per year	Inventory of OSSDS performed and map reviewed – October 16, 2025.	*

Assessment of Appropriateness: BMPs for this MCM have been reviewed/evaluated and determined to be appropriate for the City of Jenks SWMP. See table below.

BMP	Assessment of Appropriateness
a. MS4 Mapping 1) Update map showing basic system features, major outfalls, and prominent receiving streams. 2) Map data from substate planning agencies, State, and Federal agencies to be used with Jenks maps.	City staff has reviewed, evaluated, and determined BMP (a) for MCM V. C3 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit. During this review BMP (a) for MCM V.C3 was designated as a 303(d) and TMDL BMP.
b. Review/modify stormwater ordinance for illicit discharge (MCM #3), construction (MCM #4) and post-construction (MCM #5).	City staff has reviewed, evaluated, and determined BMP (b) for MCM V. C3 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
c. Site Plan Review - Incorporate review of erosion and sediment control BMPs (#4) and post-construction BMPs (#5) that address water quality into site plan review process.	City staff has reviewed, evaluated, and determined BMP (c) for MCM V. C3 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
d. Conduct inspections for illicit discharges (MCM #3) to City waters. 1) Inspections will be conducted within 72-hours for 75% of all reported illicit discharge incidents. 2) Identified sources of illicit discharges will be removed. 3) Inspection training to be attended by City employees. 4) Provide technical guidance for staff on methods to identify illicit discharges.	City staff has reviewed, evaluated, and determined BMP (d) for MCM V. C3 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit. During this review BMP (d) for MCM V.C3 was designated as a 303(d) and TMDL BMP.
e. Dry Weather Screenings	City staff has reviewed, evaluated, and determined BMP (e) for MCM V. C3 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit. During this review BMP (e) for MCM V.C3 was designated as a 303(d) and TMDL BMP.
f. Periodically review/update an IDDE ordinance or local code to control pollution.	City staff has reviewed, evaluated, and determined BMP (f) for MCM V. C3 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
g. Evaluate Dry Weather Field Screening (DWFS) inspection program.	City staff has reviewed, evaluated, and determined BMP (g) for MCM V. C3 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
h. Address sanitary sewer overflows and bypasses.	City staff has reviewed, evaluated, and determined BMP (h) for MCM V. C3 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit. During this review BMP (h) for MCM V.C3 was designated as a 303(d) and TMDL BMP.
i. Use GCSA website and brochures to inform the public about improper waste disposal.	City staff has reviewed, evaluated, and determined BMP (i) for MCM V. C3 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit. During this review BMP (i) for MCM V.C3 was designated as a 303(d) and TMDL BMP and the measurable goal BMP (i) for MCM V.C3 was change from "GCSA Website" to "GCSA Website Annual Views"...
j. Assess Spill Response and Prevention Plan for spills within the MS4.	City staff has reviewed, evaluated, and determined BMP (j) for MCM V. C3 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit. During this review the measurable goal BMP (j) for MCM V.C3 was change from "Unknown Occurrences" to "As Occurs".
k. Train city field workers to inspect for, identify, report, and removal of pollution.	City staff has reviewed, evaluated, and determined BMP (k) for MCM V. C3 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit. During this review BMP (k) for MCM V.C3 was designated as a 303(d) and TMDL BMP.
l. Develop 303(d) priority areas for pollution source inspections and update as needed.	City staff has reviewed, evaluated, and determined BMP (l) for MCM V. C3 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit. During this review BMP (l) for MCM V.C3 was designated as a 303(d) and TMDL BMP.
m. Conduct pollutant source inspections in 303(d) high priority areas.	City staff has reviewed, evaluated, and determined BMP (m) for MCM V. C3 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit. During this review BMP (m) for MCM V.C3 was designated as a 303(d) and TMDL BMP.
n. Update as needed operation and maintenance (O&M) program for structural and non-structural stormwater controls.	City staff has reviewed, evaluated, and determined BMP (n) for MCM V. C3 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
o. Maintain a list of occasional incidental non-stormwater discharges.	City staff has reviewed, evaluated, and determined BMP (o) for MCM V. C3 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit. During this review the measurable goal BMP (o) for MCM V.C3 was change from "As Occurrences" to "As Occurs".
p. Education programs will provide access to materials or links to online resources that target commercial and industrial enterprises that have business activities that may negatively impact the stormwater quality of the MS4.	City staff has reviewed, evaluated, and determined BMP (p) for MCM V. C3 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
q. Inventory on-site sewage disposal systems (OSSDS) in the MS4.	City staff has reviewed, evaluated, and determined BMP (q) for MCM V. C3 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit. During this review BMP (q) for MCM V.C3 was designated as a 303(d) and TMDL BMP.

Details:

Mapping

a. Utilizing GIS data, aerial photos, and digital mapping of Jenks' MS4 system provided by INCOG, City staff identified major outfalls and prominent receiving streams. Watersheds and drainage systems were identified, and the City's MS4 Map was first developed in 2007 with twenty-one (21) outfall locations.

- | | | |
|--|---|---|
| 1) Nickel Creek at 91 st Street | 13) Posey Creek at 141 st Street | 25) Waterfront Grill – 24 Inch |
| 2) Polecat Creek at 33 rd W. Avenue | 14) Aquarium – 42 Inch South | 26) Aquarium Place – 72 Inch |
| 3) Coal Creek Tributary at US Highway 75 | 15) Aquarium – 42 Inch North | 27) Gateway No. 1 – 42 Inch |
| 4) Coal Creek at 121 st Street | 16) Main Street – 36 Inch | 28) Gateway No. 2 – 42 Inch |
| 5) Coal Creek at Elwood Avenue | 17) "B" Street – 60 Inch | 29) Gateway No. 3 – 36 Inch |
| 6) Hager Creek at 91 st Street | 18) Riverwalk I – 36 Inch | 30) OTA Frontage Road – 60 Inch |
| 7) Polecat Creek at Elm Street | 19) Riverwalk I – 54 Inch | 31) Titan Sports – 48 Inch |
| 8) Parker Ditch at Elm Street | 20) Riverwalk II – 36 Inch | 32) 2900 West Main, Franklin St. – 10'x8' RCB |
| 9) Wilmott Creek at Comanche | 21) Riverwalk II – 66 Inch | 33) 2900 West Main, Franklin St. |
| 10) Wilmott Creek at Lewis Avenue | 22) 106 th Street at Polecat Creek | 34) 2900 West Main, Franklin St. |
| 11) 5 Oaks Creek at PSO | 23) "K" Place – 18 Inch | 35) 2900 West Main, Franklin St. |
| 12) Unnamed Tributary at Florence Avenue | 24) Waterfront Grill parking – 30 Inch | |

Outfall locations added:
2014 – 5
2016 – 4
2018 – 1
2023 – 4

Outfall locations deleted:

- j. The current spill and prevention plan is handled by the City of Jenks Fire Department. The current procedures for spills within city limits are dependent upon the scope of the spill:
1. Small spills, such as a roadway accident, require staff to use an absorbent and gather for towing company to dispose or other responsible party.
 2. Medium to large spills generally are handled by a third-party environmental cleanup company contracted to handle the spill and reporting as required.
 3. In matters of immediate public safety concerns, the area is "washed" off the roadway if the spill is not feasible to be removed by other methods.
- o. The Fire Department and Public Works Department keep records of all occasional incidental non-stormwater discharges that occur under their supervision or that are inspected. The lists are then recorded in the City of Jenks Stormwater Program.

MCM V.C4: CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

Purpose: The City of Jenks has an education, inspection, and enforcement program that addresses the pollution of stormwater runoff from active construction sites. City ordinances prohibit the discharge of pollutants and sediment from construction sites and requires the deployment of adequate sediment and erosion control measures to help facilitate the education, inspection, and enforcement program within the City of Jenks. The MS4 staff performs periodic site inspections for compliance with local stormwater codes either as part of other construction inspections or in response to complaints about site runoff contamination.

Annual Reporting Items:

- Achievement of measurable goals for this MCM: 100%
- Are the BMPs in this MCM in compliance with Permit Conditions? ☒ YES ☐ NO
- Summary of attainment of annual measurable goals:

TABLE 4

BMP	MEASURABLE GOAL	RESULTS	DESIGNATED 303(d) AND TMDL BMP
a. Construction (MCM #4) and post-construction (MCM #5) site inspections. 1) Inspections are regularly scheduled as well as complaint driven. 2) Inspection training will be provided to City Employees. 3) Plan to detect and address non-storm water discharges will be evaluated with consideration of staff and resources available to City.	As occurs	Inspections conducted – 1421; 28 inspection sites Green Country Stormwater Alliance (GCSA) workshops and other training activities attended: • April 3, 2025 – 1 employee • April 9, 2025 – 1 employee • December 9, 2025 – 1 employee Training provided: • Module 1 / September 5, 2025 – 20 employees • Module 1 / December 1, 2025 – 2 employees • Module 4 / December 1, 2025 – 2 employees • Module 4 / December 15, 2025 – 14 employees City Ordinance No. 1206, §13-4-3 and §13-4-7, address non-storm water discharges.	*
b. Review/modify stormwater ordinance for illicit discharge (MCM #3), construction (MCM #4) and post-construction (MCM #5).	Once per year	City Ordinance No. 1206 Review – March 26, 2025	
c. Evaluate program for site plan review for assessing project's water quality impacts.	Once per year	Site plan review process Review – March 26, 2025	
d. Evaluate program to receive and consider information from the public on construction site pollution.	Once per year	Procedures and Recordkeeping Review – March 26, 2025	
e. Evaluate construction site inspection and enforcement program.	Once per year	Procedures and Recordkeeping Review – March 26, 2025	
f. Use GCSA website and brochures to educate builders on construction site pollution.	GCSA Website Annual Views	GCSA website (stormwaterok.net) – 453 annual views Brochures/flyers distributed – 100	

Assessment of Appropriateness: BMPs for this MCM have been reviewed/evaluated and determined to be appropriate for the City of Jenks SWMP. See table below.

BMP	Assessment of Appropriateness
a. Construction (MCM #4) and post-construction (MCM #5) site inspections. 1) Inspections are regularly scheduled as well as complaint driven. 2) Inspection training will be provided to City Employees. 3) Plan to detect and address non-storm water discharges will be evaluated with consideration of staff and resources available to City.	City staff has reviewed, evaluated, and determined BMP (a) for MCM V. C4 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit. During this review BMP (a) for MCM V.C4 was designated as a 303(d) and TMDL BMP.
b. Review/modify stormwater ordinance for illicit discharge (MCM #3), construction (MCM #4) and post-construction (MCM #5).	City staff has reviewed, evaluated, and determined BMP (b) for MCM V. C4 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
c. Evaluate program for site plan review for assessing project's water quality impacts.	City staff has reviewed, evaluated, and determined BMP (c) for MCM V. C4 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
d. Evaluate program to receive and consider information from the public on construction site pollution.	City staff has reviewed, evaluated, and determined BMP (d) for MCM V. C4 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
e. Evaluate construction site inspection and enforcement program.	City staff has reviewed, evaluated, and determined BMP (e) for MCM V. C4 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
f. Use GCSA website and brochures to educate builders on construction site pollution.	City staff has reviewed, evaluated, and determined BMP (f) for MCM V. C4 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit. During this review the measurable goal BMP (f) for MCM V.C4 was change from "GCSA data" to "GCSA Website Annual Views".

MCM V.C5: POST-CONSTRUCTION MANAGEMENT IN NEW AND RE-DEVELOPMENT

Purpose: The City of Jenks has elected not to use the alternative provided in Part VIII of OKR04 relating to construction activities on land owned by the MS4 and to activities that are directly controlled by the City of Jenks.

Annual Reporting Items:

- Achievement of measurable goals for this MCM: 100%
- Are the BMPs in this MCM in compliance with Permit Conditions? ☒ YES ☐ NO
- Summary of attainment of annual measurable goals:

TABLE 5

BMP	MEASURABLE GOAL	RESULTS	DESIGNATED 303(d) AND TMDL BMP
a. Construction (MCM #4) and post-construction (MCM #5) site inspections. 1) Inspections are regularly scheduled as well as complaint driven. 2) Inspection training will be provided to City Employees. 3) Plan to detect and address non-storm water discharges will be developed with consideration of staff and resources available to City.	As occurs	Inspections conducted – 1421; 28 inspection sites Green Country Stormwater Alliance (GCSA) workshops and other training activities attended: • April 3, 2025 – 1 employee • April 9, 2025 – 1 employee • December 9, 2025 – 1 employee Training provided: • Module 1 / September 5, 2025 – 20 employees • Module 1 / December 1, 2025 – 2 employees • Module 4 / December 1, 2025 – 2 employees • Module 4 / December 15, 2025 – 14 employees City Ordinance No. 1206, §13-4-3 and §13-4-7, address non-storm water discharges.	*
b. Review/modify stormwater ordinance for illicit discharge (MCM #3), construction (MCM #4) and post-construction (MCM #5)	Once per year	City Ordinance No. 1206 Review – March 26, 2025	
c. Update the post-construction ordinance or local code for post-construction runoff.	Once per year	City Ordinance No. 1206 Review – March 26, 2025	
d. Review local codes/current street and parking lot design guidelines, and other requirements that affect the creation of impervious cover/identify potential barriers to LID/summarize findings.	Summarize yearly	No potential barriers were identified when local codes, current street and parking lot design guidelines, and other requirements that affect the creation of impervious cover were reviewed. – see item d. below.	
e. Update long-term Operation & Maintenance Plan for municipal BMPs.	Once per year	O&M Plan Reviewed – April 12, 2024	
f. Develop and implement education programs providing access to materials or links to online resources for developers and general public about LID that can be used before/during the building permit application and pre-design phases of projects.	Materials distributed/online usage records	City of Jenks website includes: • Stormwater Management information • Brochures and Fact Sheets • Link to Regional Stormwater Management Information (GCSA) GCSA website includes: • Educational Materials • Resources for Construction, Homeowners and Local Businesses Website views: • Jenks – 348 annual views • GCSA (stormwaterok.net) – 453 views	

Assessment of Appropriateness: BMPs for this MCM have been reviewed/evaluated and determined to be appropriate for the City of Jenks SWMP. See table below.

BMP	Assessment of Appropriateness
a. Construction (MCM #4) and post-construction (MCM #5) site inspections. 1) Inspections are regularly scheduled as well as complaint driven. 2) Inspection training will be provided to City Employees. 3) Plan to detect and address non-storm water discharges will be developed with consideration of staff and resources available to City.	City staff has reviewed, evaluated, and determined BMP (a) for MCM V. C5 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit. During this review BMP (a) for MCM V.C5 was designated as a 303(d) and TMDL BMP.
b. Review/modify stormwater ordinance for illicit discharge (MCM #3), construction (MCM #4) and post-construction (MCM #5)	City staff has reviewed, evaluated, and determined BMP (b) for MCM V. C5 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
c. Update the post-construction ordinance or local code for post-construction runoff.	City staff has reviewed, evaluated, and determined BMP (c) for MCM V. C5 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
d. Review local codes/current street and parking lot design guidelines, and other requirements that affect the creation of impervious cover/identify potential barriers to LID/summarize findings.	City staff has reviewed, evaluated, and determined BMP (d) for MCM V. C5 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
e. Update long-term Operation & Maintenance Plan for municipal BMPs.	City staff has reviewed, evaluated, and determined BMP (e) for MCM V. C5 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
f. Develop and implement education programs providing access to materials or links to online resources for developers and general public about LID that can be used before/during the building permit application and pre-design phases of projects.	City staff has reviewed, evaluated, and determined BMP (f) for MCM V. C5 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit. During this review the measurable goal BMP (f) for MCM V.C5 was change from "Materials distributed/ online usage records" to "Materials distributed/ online usage records and GCSA Website Annual Views".

Details:

- Local codes were reviewed in conjunction with LIDs to determine any potential barriers to implementing LIDs in future developments. The low impact developments (LIDs) that are in common use consist of grass channels, water quality swale, bio retention and extended detention ponds. Other low impact developments that are allowed by the local codes, however, are not in widespread use or have not been commonly used consist of permeable pavement, cistern, green roof, and reforestation. These LIDs are commonly not used for either economic reasons or local aesthetic perception of LIDs and lack of required use of LIDs in new and existing developments. LIDs implementation has not been required by local code and as such, developments have not commonly volunteered to implement the LIDs due to higher development costs. The City has recently updated their local codes to include guidance on LID usage, to help promote LIDs in new developments. This guidance can be found in Sec. 16-8-13(c) of Jenks Code of Ordinance.
- Various online publications, printed publications, and TV news broadcasts concerning stormwater related events and information are available to the residents of Jenks. Online and published items are initiated by the City, organizations which Jenks belong to (INCOG, GCSA, M.e.t.), and area businesses. Due to the close proximity to other municipalities, Jenks' residents are able to participate in events and gain knowledge from a large variety of sources. Public participation events are publicized numerous times through online, printed, and social media and local news channels.
 - Printed publications available to Jenks' citizens.
 - Tulsa World (daily & weekend publications)
 - Major news channels
 - 2Works for You
 - News on 6
 - Channel 8 News

MCM V.C6: POLLUTION PREVENTION / GOOD HOUSEKEEPING FOR MS4 OPERATIONS

Purpose: The “Pollution Prevention / Good Housekeeping For MS4 Operations” Minimum Control Measure (MCM) addresses the operation and maintenance (O&M) of the MS4 and municipal facilities, and requires training of municipal employees. Performing municipal activities in a careful and proper manner can prevent or reduce pollutant runoff. Municipal operations addressed by this “Good Housekeeping” MCM include parks, open space maintenance, buildings for storage and maintenance of fleet vehicles and other public works vehicles and equipment, new construction and land disturbances, and stormwater system maintenance. All contractors hired to perform maintenance activities on the City are contractually required to comply with all of the City’s stormwater control measures with the City providing oversight.

Annual Reporting Items:

- Achievement of measurable goals for this MCM: 100%
- Are the BMPs in this MCM in compliance with Permit Conditions? ☒ YES ☐ NO
- Summary of attainment of annual measurable goals:

TABLE 6			
BMP	MEASURABLE GOAL	RESULTS	DESIGNATED 303(d) AND TMDL BMP
a. City Facilities Inspections			
1) Inspections regularly scheduled	Yearly	City Facilities Inspections conducted: • Annual inspections – 13 • Follow-up inspections – 0	
2) Training to educate City employees about water quality impacts. Employees will participate in regional or similar activities concerning water quality topics. - Seminars - Webinars - Training - Meetings - Conferences	2 employees/1 session per year	Green Country Stormwater Alliance (GCSA) workshops and other training activities attended: • April 3, 2025 – 1 employee • April 9, 2025 – 1 employee • December 9, 2025 – 1 employee Training provided: • Module 1 / September 5, 2025 – 20 employees • Module 2 / October 6, 2025 – 16 employees • Module 3 / October 6, 2025 – 17 employees • Module 1 / December 1, 2025 – 2 employees • Module 4 / December 1, 2025 – 2 employees • Module 4 / December 15, 2025 – 14 employees • Module 5 / December 15, 2025 – 14 employees	
3) Good Housekeeping, Pollution Prevention and Spill Response Procedures review/modify	Yearly	Goodhousekeeping, Pollution Prevention, Spill Response Procedures review – November 14, 2025	
b. Street Sweeping – Utilize street sweeping to remove sediments, trash, debris, leaves and other potential stormwater pollutants from City streets and parking lots.	1 per month	Street sweeping is conducted once per month by Lot Maintenance. An average of 12 cubic yards of debris is collected each month.	*
c. Drain Cleaning - Utilize drain cleaning to remove sediments, trash, debris, leaves and other potential stormwater pollutants from City drains.	Prior to storm events	Storm Drains and Pumps Checklist reviewed; no revision required – June 3, 2025 Debris collected – 3,085.50 [gal]	*
d. Trash and Debris Collection/Public Waste Receptacles, Parks and Open Areas			
1) Provide trash receptacles in public areas	Weekly	• City and Park receptacles – 54	*
2) Trash and debris removal at public parks, city grounds, right-of-way areas and open areas.	Weekly	• Pet Waste Stations – 7	
e. Clean-Up Events/Programs – Sponsor organized clean-up events (e.g. Trash Bash).	1 per year	Jenks Trash Bash – May 10, 2025; 22 qty 30-yd containers	
f. Landscaping/Lawn Care and Pest Control for Municipal Operations			
1) Address city lawn and garden activities and spill prevention to reduce amount of chemicals entering MS4 through improper storage, use and handling practices.	Training once per year	Training provided: • Module 1 / September 5, 2025 – 20 employees • Module 2 / October 6, 2025 – 16 employees • Module 1 / December 1, 2025 – 2 employees • Module 4 / December 1, 2025 – 2 employees • Module 4 / December 15, 2025 – 14 employees	
2) Address spill prevention and control procedures.		Goodhousekeeping, Pollution Prevention, Spill Response Procedures review – November 14, 2025	
3) Educate City personnel on impacts of their work on stormwater quality and requirements to reduce pollutants entering the storm sewer system during City operations.		Training provided: • Module 1 / September 5, 2025 – 20 employees • Module 2 / October 6, 2025 – 16 employees • Module 1 / December 1, 2025 – 2 employees • Module 4 / December 1, 2025 – 2 employees • Module 4 / December 15, 2025 – 14 employees	
g. Review/modify O&M program for all municipal facilities to control pollutant runoff.	Review yearly	Goodhousekeeping, Pollution Prevention, Spill Response Procedures review – November 14, 2025	
h. Maintain and update a list of all municipal facilities subject to OKR05 or OPDES permits.	Update as necessary	OKR05 / OPDES permitted facilities – 1 OKR05 Permit Number – OKR052270 (see attached NOI) OPDES Permit Number – OK0037401 (see attached)	
i. Assess procedures for controlling pollution from streets, storage areas and other city facilities.	Yearly	Goodhousekeeping, Pollution Prevention, Spill Response Procedures review – November 14, 2025	
j. Evaluate procedures to assess impacts on water quality from new flood management projects.	Yearly	Procedures reviewed – March 26, 2025	
k. Evaluate inspection program of city facilities’ structural and nonstructural BMPs.	Yearly	City Ordinance No. 1206 - §13-4-2 (structural and non-structural practices) and §13-4-9 (structural and non-structural BMPs for Post-Construction Runoff Control) reviewed – September 1, 2025	
l. Implement a Spill Response and Prevention Plan for spills within the MS4.	Review yearly	Goodhousekeeping, Pollution Prevention, Spill Response Procedures review – November 14, 2025	
m. Evaluate procedures for inspection and maintenance of catch basins, streets, parking lots.	Yearly	Maintenance procedures reviewed – March 26, 2025	
n. Assess effectiveness of storm drain inlet cleanout program.	Yearly	Maintenance procedures reviewed – March 26, 2025	
o. Assess wash areas for City vehicles	Yearly	City has identified two vehicle wash areas without an oil-water separator systems during the ODEQ Audit on March 20, 2026. The City will work with the Public Works Department to install the oil-water separator systems at these facilities.	
p. Stabilization measures implemented within (14) days of occurrence completion: 1.) General Maintenance 2.) Emergency Maintenance 3.) Waterline Breaks 4.) Sanitary Sewer Breaks 5.) Drainage Repairs	As occurs	1) General Maintenance – 100 2) Emergency Maintenance – 11 3) Waterline Breaks – 35 4) Sanitary Sewer Breaks – 1 5) Drainage Repairs – 107	

BMP	Assessment of Appropriateness
a. City Facilities Inspections 1) Inspections regularly scheduled 2) Training to educate City employees about water quality impacts. Employees will participate in regional or similar activities concerning water quality topics. a. - Seminars - Webinars - Training b. - Meetings - Conferences 3) Good Housekeeping, Pollution Prevention and Spill Response 4) Procedures review/modify	City staff has reviewed, evaluated, and determined BMP (a) for MCM V. C6 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
b. Street Sweeping – Utilize street sweeping to remove sediments, trash, debris, leaves and other potential stormwater pollutants from City streets and parking lots.	City staff has reviewed, evaluated, and determined BMP (b) for MCM V. C6 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit. During this review BMP (b) for MCM V.C6 was designated as a 303(d) and TMDL BMP.
c. Drain Cleaning - Utilize drain cleaning to remove sediments, trash, debris, leaves and other potential stormwater pollutants from City drains.	City staff has reviewed, evaluated, and determined BMP (c) for MCM V. C6 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit. During this review BMP (c) for MCM V.C6 was designated as a 303(d) and TMDL BMP.
d. Trash and Debris Collection/Public Waste Receptacles, Parks and Open Areas 1) Provide trash receptacles in public areas 2) Trash and debris removal at public parks, city grounds, right-of-way areas and open areas.	City staff has reviewed, evaluated, and determined BMP (d) for MCM V. C6 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit. During this review BMP (d) for MCM V.C6 was designated as a 303(d) and TMDL BMP.
e. Clean-Up Events/Programs – Sponsor organized clean-up events (e.g. Trash Bash).	City staff has reviewed, evaluated, and determined BMP (e) for MCM V. C6 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
f. Landscaping/Lawn Care and Pest Control for Municipal Operations 1) Address city lawn and garden activities and spill prevention to reduce amount of chemicals entering MS4 through improper storage, use and handling practices. 2) Address spill prevention and control procedures. 3) Educate City personnel on impacts of their work on stormwater quality and requirements to reduce pollutants entering the storm sewer system during City operations.	City staff has reviewed, evaluated, and determined BMP (f) for MCM V. C6 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
g. Review/modify O&M program for all municipal facilities to control pollutant runoff.	City staff has reviewed, evaluated, and determined BMP (g) for MCM V. C6 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
h. Maintain and update a list of all municipal facilities subject to OKR05 or OPDES permits.	City staff has reviewed, evaluated, and determined BMP (h) for MCM V. C6 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
i. Assess procedures for controlling pollution from streets, storage areas and other city facilities.	City staff has reviewed, evaluated, and determined BMP (i) for MCM V. C6 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
j. Evaluate procedures to assess impacts on water quality from new flood management projects.	City staff has reviewed, evaluated, and determined BMP (j) for MCM V. C6 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
k. Evaluate inspection program of city facilities’ structural and nonstructural BMPs.	City staff has reviewed, evaluated, and determined BMP (k) for MCM V. C6 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
l. Implement a Spill Response and Prevention Plan for spills within the MS4.	City staff has reviewed, evaluated, and determined BMP (l) for MCM V. C6 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
m. Evaluate procedures for inspection and maintenance of catch basins, streets, parking lots.	City staff has reviewed, evaluated, and determined BMP (m) for MCM V. C6 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
n. Assess effectiveness of storm drain inlet cleanout program.	City staff has reviewed, evaluated, and determined BMP (n) for MCM V. C6 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.
o. Assess wash areas for City vehicles	City staff has reviewed, evaluated, and determined BMP (o) for MCM V. C6 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP. City has identified two vehicle wash areas without an oil-water separator systems during the ODEQ Audit on March 20, 2026. The City will work with the Public Works Department to install the oil-water separator systems at these facilities to properly meet the requirements of the OKR04 Permit.
p. Stabilization measures implemented within (14) days of occurrence completion: 1.) General Maintenance 2.) Emergency Maintenance 3.) Waterline Breaks 4.) Sanitary Sewer Breaks 5.) Drainage Repairs	City staff has reviewed, evaluated, and determined BMP (p) for MCM V. C6 is still appropriate to the City of Jenks MS4 Stormwater Program, City of Jenks MS4 SWMP, and meets the requirements of the OKR04 Permit.

Details:

- a.2 The Green Country Stormwater Alliance (GCSA) is comprised of twenty-four (24) cities and counties joined together for the purpose of addressing stormwater pollution regionally. Indian Nations Council of Governments (INCOCG) coordinates the program and its activities on behalf of the GCSA members. Membership is voluntary with annual dues that fund professional support services. As a member of this coalition, Jenks participates in a variety of activities, which include education programs, technical assistance, and employee training. Training was conducted to educate all employees on proper SOPs regarding spill prevention, cleanup and use of any chemicals while performing daily work activities. Two (2) or more relevant City employees participate in at least one regional activity or similar activity concerning water quality topics during each permit year.
- f.1 Public Works Department employees have been instructed on the correct procedures for Spill Prevention and the correct use of all lawn care equipment in order to reduce the amount of chemicals that could enter the MS4 from improper handling, storage, or use.
- f.3 Senior staff in the Public Works Department have been instructing all new public works employees on the impact their work can have on the stormwater quality of our MS4. Employees have had instructions on the proper procedures for reducing pollutant impact by the correct use of equipment and chemicals on each municipal site and each work site.
- j. The City Floodplain Administrator and Public Works Staff procedures for assessing the impact of new floodplain developments are assessed, reviewed yearly, and updated as needed.
- k. The inspection program of the city facilities structural and nonstructural BMPs as well as City Ordinance No. 1206 is reviewed and evaluated yearly. The inspection program is updated or improved as necessary.

SECTION III. CHANGES TO BEST MANAGEMENT PRACTICES (BMPS)

As the City of Jenks updates the Storm Water Management Program the existing BMPs will be evaluated and modified to reflect the required changes.

BMP NO.	PREVIOUS BMP	ANNUAL MEASURABLE GOAL	NEW BMP	NEW / REVISED BMP	REVISED/ NEW ANNUAL MEASURABLE GOAL	SPECIFIC 303(d) AND TMDL BMP
V.C1 PUBLIC EDUCATION AND INVOLVMENT						
f.	Distribute brochures for the following: 1) General purpose 2) Household chemical disposal options 3) Construction / erosion control BMPs 4) How to become involved 5) Recycling and re-use benefits 6) Construction / erosion control 7) Lawn and garden activities 8) Education / outreach for commercial activities ▪ Distribute educational material to general public relating to fertilizer, herbicide, and pesticide usage, proper disposal of household hazardous waste and oils. ▪ Include stormwater education on the web site regarding the City's program and links to other local, state, and national storm water web sites. ▪ Provide educational material to commercial and industrial businesses.	100 Total	f.	a. Distribute brochures for the following: 9) General purpose 10) Household chemical disposal options 11) Construction / erosion control BMPs 12) How to become involved 13) Recycling and re-use benefits 14) Construction / erosion control 15) Lawn and garden activities 16) Education / outreach for commercial activities ▪ Distribute educational material to general public relating to fertilizer, herbicide, and pesticide usage, proper disposal of household hazardous waste and oils. ▪ Include stormwater education on the web site regarding the City's program and links to other local, state, and national storm water web sites. Provide educational material to commercial and industrial businesses.	100 Total	*
o.	Purchase and maintain pet waste disposal stations at city recreational parks.	Purchase and maintain site	o.	Purchase and maintain pet waste disposal stations at city recreational parks.	Purchase and maintain site	*
p.	Promote citizen participation in city cleanup events, use of recycling centers in the vicinity, and participation in pollutant collection facility.	Webpage posting	p.	Promote citizen participation in city cleanup events, use of recycling centers in the vicinity, and participation in pollutant collection facility.	Webpage posting	*
MCM V.C3: ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)						
a.	MS4 Mapping 1) Update map showing basic system features, major outfalls, and prominent receiving streams. 2) Map data from substate planning agencies and State and Federal agencies to be used with Jenks maps. 3) INCOG to provide GIS data and digital and paper aerial photos of Jenks' MS4 system.	Updated Annually	a.	MS4 Mapping 1) Update map showing basic system features, major outfalls, and prominent receiving streams. 2) Map data from substate planning agencies and State and Federal agencies to be used with Jenks maps. 3) INCOG to provide GIS data and digital and paper aerial photos of Jenks' MS4 system.	Updated Annually	*
d.	Conduct inspections for illicit discharges (MCM #3) to City waters. 1) Two categories of pollutants will be addressed: a) Episodic incident with no determinable source. b) Chronic or frequent incident with potentially determinable source. 2) Data collection: a) Investigations under illicit discharge will primarily be complaint driven. b) Inspections will be conducted within 72-hours for 75% of all reported illicit discharge incidents. c) Identified sources of illicit discharges will be removed. d) Inspection training to be attended by City employees. e) Provide technical guidance for staff on methods to identify illicit discharges.	75% of all reported illicit discharge incidents inspected within 72-hours	d.	Conduct inspections for illicit discharges (MCM #3) to City waters. 3) Two categories of pollutants will be addressed: a) Episodic incident with no determinable source. b) Chronic or frequent incident with potentially determinable source. 4) Data collection: a) Investigations under illicit discharge will primarily be complaint driven. b) Inspections will be conducted within 72-hours of reported illicit discharge incidents. c) Identified sources of illicit discharges will be removed. d) Inspection training to be attended by City employees. e) Provide technical guidance for staff on methods to identify illicit discharges.	Reported illicit discharge incidents inspected within 72-hours	*
e.	Dry Weather Screenings 1) Review and modify as required DWFS Standard Operating Procedures 2) Detect and address non-storm water discharges to the storm sewer system. Conduct visual dry weather screening of the City's storm water outfalls as defined following MS4 mapping.	40% per year	e.	Dry Weather Screenings 1) Review and modify as required DWFS Standard Operating Procedures 2) Detect and address non-storm water discharges to the storm sewer system. Conduct visual dry weather screening of the City's storm water outfalls as defined following MS4 mapping.	40% per year	*
h.	Address sanitary sewer overflows and bypasses.	Unknown Occurrences	h.	Address sanitary sewer overflows and bypasses.	As Occurs	*
i.	Use GCSA website and brochures to inform the public about improper waste disposal.	GCSA website	i.	Use GCSA website and brochures to inform the public about improper waste disposal.	GCSA Website Annual views	*
j.	Assess Spill Response and Prevention Plan for spills within the MS4.	Unknown Occurrences	j.	Assess Spill Response and Prevention Plan for spills within the MS4.	As Occurs	*
k.	Train city field workers to inspect for, identify, report, and removal of pollution.	Yearly	k.	Train city field workers to inspect for, identify, report, and removal of pollution.	Yearly	*
l.	Develop 303(d) priority areas for pollution source inspections and update as needed.	Once per Year	l.	Develop 303(d) priority areas for pollution source inspections and update as needed.	Once per Year	*
m.	Conduct pollutant source inspections in 303(d) high priority areas.	Once per Year	m.	Conduct pollutant source inspections in 303(d) high priority areas.	Once per Year	*
q.	Inventory on-site sewage disposal systems (OSSDS) in the MS4.	Once per Year	q.	Inventory on-site sewage disposal systems (OSSDS) in the MS4.	Once per Year	*
V.C4 CONSTRUCTION SITE STORMWATER RUNOFF CONTROL						
a.	Construction (MCM #4) and post-construction (MCM #5) site inspections. 1) Inspections are both regularly scheduled as well as complaint driven. 2) Inspection training will be provided to City Employees (refer to Training Module BMP). 3) Plan to detect and address non-storm water discharges will be evaluated with consideration of staff and resources available to City.	75% of reported construction site incidents	a.	Construction (MCM #4) and post-construction (MCM #5) site inspections. 1) Inspections are both regularly scheduled as well as complaint driven. 2) Inspection training will be provided to City Employees (refer to Training Module BMP). 3) Plan to detect and address non-storm water discharges will be evaluated with consideration of staff and resources available to City.	As occurs	*

V.C5 POST-CONSTRUCTION MANAGEMENT IN NEW AND RE-DEVELOPMENT						
	Construction (MCM #4) and post-construction (MCM #5) site inspections.			Construction (MCM #4) and post-construction (MCM #5) site inspections.		
a.	1) Inspections are both regularly scheduled as well as complaint driven. 2) Inspection training will be provided to City Employees (refer to Training Module BMP). 3) Plan to detect and address non-storm water discharges will be evaluated with consideration of staff and resources available to City.	75% of reported construction site incidents	a.	1) Inspections are both regularly scheduled as well as complaint driven. 2) Inspection training will be provided to City Employees (refer to Training Module BMP). 3) Plan to detect and address non-storm water discharges will be evaluated with consideration of staff and resources available to City.	As occurs	*
V.C6 POLLUTION PREVENTION / GOOD HOUSEKEEPING FOR MS4 OPERATIONS						
b.	Street Sweeping – Utilize street sweeping to remove sediments, trash, debris, leaves and other potential stormwater pollutants from City streets and parking lots.	1 per Month		Street Sweeping – Utilize street sweeping to remove sediments, trash, debris, leaves and other potential stormwater pollutants from City streets and parking lots.	1 per Month	*
c.	Drain Cleaning - Utilize drain cleaning to remove sediments, trash, debris, leaves and other potential stormwater pollutants from City drains.	Prior to storm events	c.	Drain Cleaning - Utilize drain cleaning to remove sediments, trash, debris, leaves and other potential stormwater pollutants from City drains.	Prior to storm events	*
d.	Trash and Debris Collection / Public Waste Receptacles, Parks and Open Areas. 1) Provide trash receptacles in public areas 2) Trash and debris removal at public parks, city grounds, right-of-way areas and open areas.	Weekly	d.	Trash and Debris Collection / Public Waste Receptacles, Parks and Open Areas. 1) Provide trash receptacles in public areas 2) Trash and debris removal at public parks, city grounds, right-of-way areas and open areas.	Weekly	*

SECTION IV. STORMWATER ACTIVITIES PLANNED DURING THE NEXT REPORTING CYCLE (Calendar Year 2025)

Below is the Stormwater Activities Planned during the next reporting cycle taken from Appendix A/ Table 2 (SWMP, May 25, 2023). These activities will be implemented until the changes to the Storm Water Management Program for the City of Jenks is updated and BMPs are modified.

A / TABLE 2 (SWMP, May 25, 2023)

MEASURABLE GOALS & IMPLEMENTATION SCHEDULES FOR EACH BMP

QUARTERS in which BMP will be implemented:		IMPLEMENTATION ACTIONS:	TARGET AUDIENCE:			
1 = Jan – Mar 2 = Apr – Jun 3 = Jul – Sep 4 = Oct – Dec A = All Year (no specific quarter)		D – Develop materials M – Maintain equipment/site P – Purchase equipment R – As requested	1 – General Public 2 – Homeowners 3 – Commercial/Industrial/Institutional 4 – Developers/Builders/Contractors 5 – City Employees 6 – Students 7 – Other Agencies 8 – Others 9 – Governing Body			
BMP MEASURABLE GOALS & IMPLEMENTATION SCHEDULES			TARGET AUDIENCE	ANNUAL MEASURABLE GOAL	2025	DESIGNATED 303(d) AND TMDL BMP
V.C1 PUBLIC EDUCATION AND INVOLVMENT						
a.	Comply with all state and local public notification requirements.		1, 2, 3, 4, 5	Permit application (1 time only)	-	
b.	Public Meetings – Present Phase II Program in City Manager’s Report.		5, 9	Once per year	1	
c.	Public Notification - Place article or notification in local publication about stormwater quality and/or public participation issues or special events (i.e., Household Pollutant Program & Jenks Trash Bash).		1, 2, 3, 4, 6	Once per year	2	
d.	Receive and consider information from the Public – Public input from email, letters, faxes, phone calls & personal contacts.		1, 2, 3, 4, 6	Contact records	A	
e.	Stormwater Website 1) Regional stormwater website developed and maintained by INCOG/Green Country Stormwater Alliance (CGSA). 2) Stormwater Management webpage on City of Jenks website		5, 7, 8	INCOG records Webpage usage records	A A	
f.	Distribute brochures for the following: 1) General purpose 2) Household chemical disposal options 3) Construction / erosion control BMPs 4) How to become involved 5) Recycling and re-use benefits 6) Construction / erosion control 7) Lawn and garden activities 8) Education / outreach for commercial activities - Distribute educational material to general public relating to fertilizer, herbicide, and pesticide usage, proper disposal of household hazardous waste and oils. - Include stormwater education on the web site regarding the City’s program and links to other local, state, and national storm water web sites. - Provide educational material to commercial and industrial businesses.		1, 2, 3, 4, 6	100 Total	A	*
g.	Distribute give away items with GCSA logo and messages		1, 2, 3, 4, 6	50 Total	A	
h.	Aquarium Education Program. 1) Promote and coordinate with Aquarium Education Department – Programs conducted that include the effects of pollution and urban development on aquatic life in lakes, rivers, and streams; preserving oceans and natural resources and the impact of human actions and natural events on aquatic resources and inhabitants. 2) Behind the Scenes (BTS) Tours – Tours that educate visitors on the importance of proper waste disposal on both individual and industrial level; how pollutants can affect marine life (e.g., otters, turtles, and sharks) & alternatives to single-use plastics; how pollutants impact oceans’ health and human health: and conservation topics (both nonpoint and point source). 3) Virtual Field Trips – Programs provided that educate kindergarten age to adults the importance of preserving turtle habitats and EcoZone habitats such as coral reefs, kelp forests and marshes. 4) Oklahoma Energy Resources Board (OERB) Program – Program focuses on Oklahoma Aquatics throughout geologic time and teaches students about the impact that Oklahoma has on the aquatic system starting at the Arkansas River.		1, 5, 6, 7 1, 5, 6, 7 1, 5, 6, 7 6	Number of daily visitors Number of participants Number of participants Number of participants	A A A	
i.	Oklahoma Aquarium Graphics and Video to address wastewater and storm drains. 1) Graphics displayed that address wastewater and storm drains. 2) Video to educate visitors about the zebra mussel		1, 5, 6, 7	Number of visitors annually	A	
j.	Give presentations to Leadership Jenks classes on City’s Stormwater Management Program regarding urban water quality protection.		1, 3, 5	1 Session per year	1	
k.	Curbside Recycling Program.		2, 3	Participating Residents	A	
l.	Make SWMP available to the public and assist with notifications by ODEQ as needed.		1, 2, 3, 4, 5	City office hours	A	
m.	Promote regional or implement local household pollutant collection events (Household Pollutant Collection Event and Jenks Trash Bash)		1, 2, 3, 6	Trash Bash - 1 event per year	2	
n.	Promote use of regional recycling centers for materials and chemicals.		1, 2, 3	Webpage posting	A	

o.	Purchase and maintain pet waste disposal stations at city recreational parks.	1	Purchase and maintain site	M	*
p.	Promote citizen participation in city cleanup events, use of recycling centers in the vicinity, and participation in pollutant collection facility.	1	Webpage posting	3	*
q.	INCOG's GCSA regional stormwater web site (www.stormwaterok.net) will provide information to the general public about local and regional water quality and program issues as well as numerous web links to water quality resources.	1, 2, 3, 4	INCOG records	A	
V.C3 ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)					
a.	MS4 1) Update map showing basic system features, major outfalls, and prominent receiving streams. 2) Map data from substate planning agencies and State and Federal agencies to be used with Jenks maps. 3) INCOG to provide GIS data and digital and paper aerial photos of Jenks' MS4 system.	5, 7	Updated Annually	4 4 R	*
b.	Review/modify stormwater ordinance for illicit discharge (MSM #3), construction (MCM #4) and post-construction (MCM #5).	5, 7, 9	Yearly	1	
c.	Site Plan Review - Incorporate review of erosion and sediment control BMPs (#4) and post-construction BMPs (#5) that address water quality into site plan review process.	1, 5, 7, 8	Number of new developments	A	
d.	Conduct inspections for illicit discharges (MCM #3) to City waters. 1) Two categories of pollutants will be addressed: a) Episodic incident with no determinable source. b) Chronic or frequent incident with potentially determinable source. 2) Data collection: a) Investigations under illicit discharge will primarily be complaint driven. b) Inspections will be conducted within 72-hours of reported illicit discharge c) Identified sources of illicit discharges will be removed. d) Inspection training to be attended by City employees. e) Provide technical guidance for staff on methods to identify illicit discharges.	3, 5, 7	Reported illicit discharge incidents inspected within 72-hours	A	*
e.	Dry Weather Screenings 1) Review and modify as required DWFS Standard Operating Procedures 2) Detect and address non-storm water discharges to the storm sewer system. 3) Conduct visual dry weather screening of the City's storm water outfalls as defined following MS4 mapping.	5, 7	40% per year (14 of 35)	3	*
f.	Periodically review/update an IDDE ordinance or local code to control pollution.	5, 7	Yearly	1	
g.	Evaluate Dry Weather Field Screening (DWFS) inspection program.	5	Yearly	3	
h.	Address sanitary sewer overflows and bypasses.	5	As occurs	A	*
i.	Use GCSA website and brochures to inform the public about improper waste disposal.	1	GCSA Website Annual Views	A	*
j.	Assess Spill Response and Prevention Plan for spills within the MS4.	5	As occurs	4	
k.	Train city field workers to inspect for, identify, report, and removal of pollution.	5	Yearly	1	*
l.	Develop 303(d) priority areas for pollution source inspections and update as needed.	5	Once per year	1	*
m.	Conduct pollutant source inspections in 303(d) high priority areas.	5	Once per year	3	*
n.	Update as needed operation and maintenance (O&M) program for structural and non-structural stormwater controls.	5	Once per year	1	
o.	Maintain a list of occasional incidental non-stormwater discharges.	5	As occurs	A	
p.	Education program will provide access to materials or links to online resources that target commercial and industrial enterprises that have business activities that may negatively impact the stormwater quality of the MS4.	3	Materials distributed/online usage records	A	
q.	Inventory on-site sewage disposal systems (OSSDS) in the MS4.	5	Once per year	4	*
V.C4 CONSTRUCTION SITE STORMWATER RUNOFF CONTROL					
a.	Construction (MCM #4) and post-construction (MCM #5) site inspections. 1) Inspections are both regularly scheduled as well as complaint driven. 2) Inspection training will be provided to City Employees (refer to Training Module BMP). 3) Plan to detect and address non-storm water discharges will be evaluated with consideration of staff and resources available to City.	5	As occurs	A	*
b.	Review/modify stormwater ordinance for illicit discharge (MCM #3), construction (MCM #4) and post-construction (MCM #5).	5, 7, 9	Once per year	1	
c.	Evaluate program for site plan review for assessing project's water quality impacts.	5	Once per year	1	
d.	Evaluate program to receive and consider information from the public on construction site pollution.	5	Once per year	1	
e.	Evaluate a construction site inspection and enforcement program.	4, 5	Once per year	1	
f.	Use GCSA website and brochures to educate builders on construction site pollution.	4	GCSA Website Annual Views	A	
V.C5 POST-CONSTRUCTION MANAGEMENT IN NEW AND RE-DEVELOPMENT					
a.	Construction (MCM #4) and post-construction (MCM #5) site inspections. 1) Inspections are both regularly scheduled as well as complaint driven. 2) Inspection training will be provided to City Employees (refer to Training Module BMP) 3) Plan to detect and address non-storm water discharges will be developed with consideration of staff and resources available to City.	5, 7, 9	As occurs	A	*
b.	Review/modify stormwater ordinance for illicit discharge (MCM #3), construction (MCM #4) and post-construction (MCM #5).	5, 7, 9	Once per year	1	
c.	Update the post-construction ordinance or local code for post-construction runoff.	5, 9	Once per year	1	
d.	Review local codes/current street and parking lot design guidelines, and other requirements that affect the creation of impervious cover/identify potential barriers to LID/summarize findings.	5, 9	Summarize yearly	4	
e.	Update long-term Operation & Maintenance Plan for municipal BMPs.	5	Once per year	A	
f.	Develop and implement education program providing access to materials or links to online resources for developers and general public about LID that can be used before/during the building permit application and pre-design phases of projects.	4, 5	Materials distributed/online usage records	A	

V.C6 POLLUTION PREVENTION / GOOD HOUSEKEEPING FOR MS4 OPERATIONS				
a. City Facilities Inspections	5			
1) Inspections regularly scheduled		Yearly	3	
2) Training to educate City employees about water quality impacts. Employees will participate in regional or similar training activities concerning water quality topics. - Seminars - Webinars - Training - Meetings - Conferences		2 employees/1 session per year	1	
3) Good Housekeeping, Pollution Prevention and Spill Response Procedures review/modify.		Yearly	4	
b. Street Sweeping – Utilize street sweeping to remove sediments, trash, debris, leaves and other potential stormwater pollutants from City streets and parking lots.	5, 8	1 per month	A	*
c. Drain Cleaning - Utilize drain cleaning to remove sediments, trash, debris, leaves and other potential stormwater pollutants from City drains.	5, 7, 8	Prior to storm events	A	*
d. Trash and Debris Collection / Public Waste Receptacles, Parks and Open Areas. 1) Provide trash receptacles in public areas 2) Trash and debris removal at public parks, city grounds, right-of-way areas and open areas.	5, 8	Weekly	A	*
e. Clean-Up Events/Programs – Sponsor organized clean-up events (e.g., Trash Bash).	1, 2, 5	1 per year	2	
f. Landscaping/Lawn Care and Pest Control for Municipal Operations 1) Address city lawn and garden activities and spill prevention to reduce amount of chemicals entering MS4 through improper storage, use and handling practices. 2) Address spill prevention and control procedures. 3) Educate City personnel on impacts of their work on stormwater quality and requirements to reduce pollutants entering the storm sewer system during City operations.	5	Training once per year	1	
g. Review/modify O&M program for all municipal facilities to control pollutant runoff.	5	Review yearly	4	
h. Maintain and update a list of all municipal facilities subject to OKR05 or OPDES permits.	5	Update as necessary	A	
i. Assess procedures for controlling pollution from streets, storage areas and other city facilities.	5	Yearly	4	
j. Evaluate procedures to assess impacts on water quality from new flood management projects.	5	Yearly	1	
k. Evaluate inspection program of city facilities' structural and nonstructural BMPs.	5	Yearly	3	
l. Implement a Spill Response and Prevention Plan for spills within the MS4.	5	Review yearly	4	
m. Evaluate procedures for inspection and maintenance of catch basins, streets, parking lots.	5	Yearly	1	
n. Assess effectiveness of storm drain inlet cleanout program.	5	Yearly	1	
o. Assess wash areas for City vehicles	5	Yearly	3	
p. Stabilization measures implemented within (14) days of occurrence completion: 1.) General Maintenance 2.) Emergency Maintenance 3.) Waterline Breaks 4.) Sanitary Sewer Breaks 5.) Drainage Repairs	3,4,5	As occurs	A	

SECTION V. TRANSFER OF OWNERSHIP OR OPERATIONAL AUTHORITY

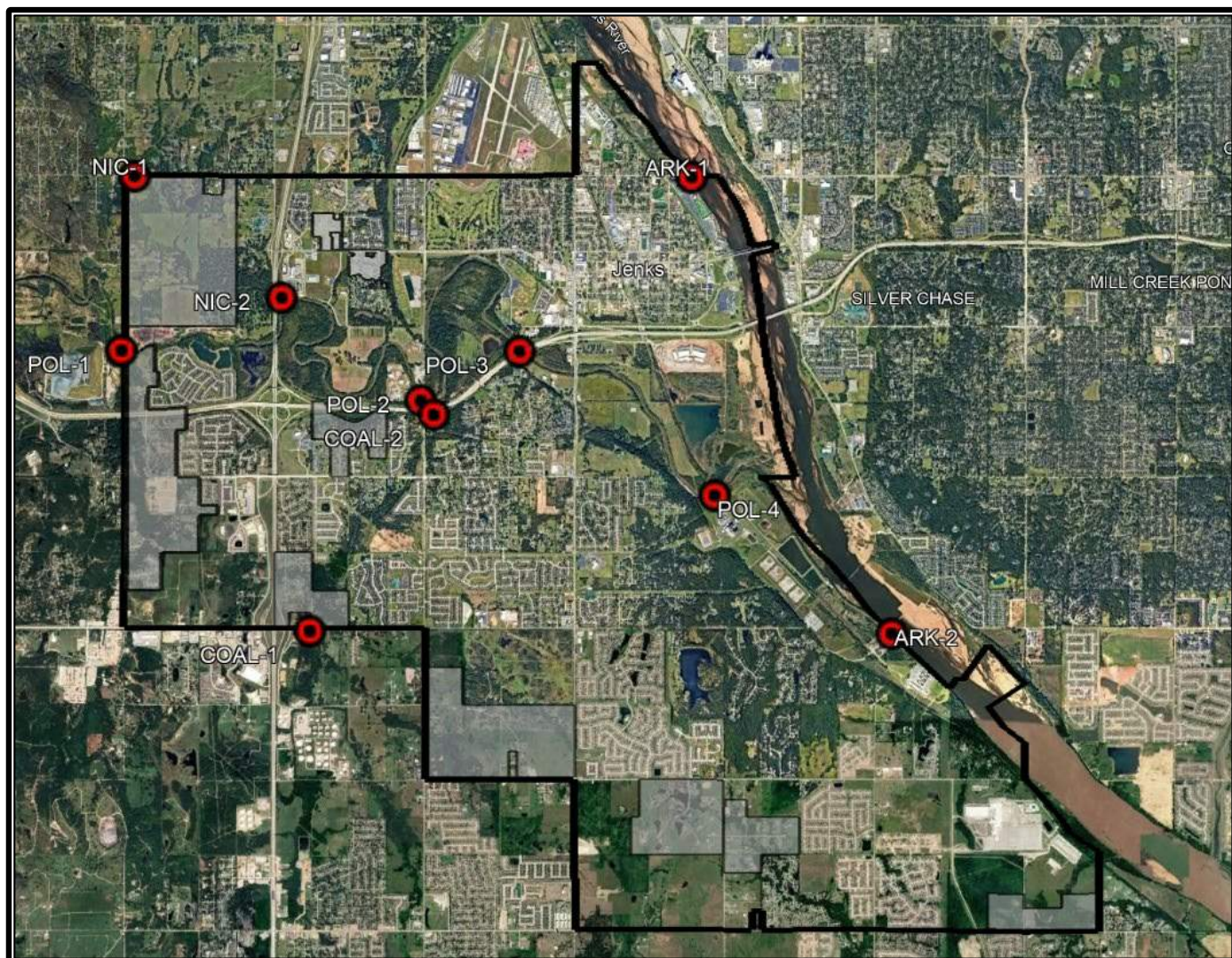
The City of Jenks had no MS4 boundary changes during the AR reporting period which required additional or changes to responsibilities for implementation of stormwater quality controls. OKR04 Part V.E requires that, *"Information on all new annexed areas and any resulting updates required to the SWMP must be included in the annual report."*

SECTION VI. ADDITIONAL BMPs BEING IMPLEMENTED TO ADDRESS 303(d) WATERS

No additional BMPs are proposed for implementation in the 303(d) watershed during this reporting cycle. As the City of Jenks updates the Storm Water Management Program to reflect the new requirements additional BMPs will be proposed for the implementation of the 303(d) watershed.

SECTION VII. TMDL IMPLEMENTATION REPORTS, STATUS AND COMPLIANCE ACTIONS TAKEN

The City of Jenks had TMDL obligations for the Arkansas River (OK120420010010_00)(TMDL: Enterococcus - 35669) and Polecat Creek (OK120420020010_00)(TMDL: E_coli - 42566) within its MS4 during this AR reporting cycle. These obligations were to create and implement a Baseline Monitoring Plan. Ten (10) locations have been selected, below are the location and corresponding waterbodies. These locations were selected based on high priority areas contributing flow to the Arkansas River and Polecat Creek.



SAMPLE LOCATION	WATERBODY (WBID)	TMDL	LATITUDE	LONGITUDE	DATE ESTABLISHED
ARK-1	Arkansas River (OK120420010010_00)	Enterococcus (35669)	36.031978	-95.961728	12/16/2025
ARK-2	Arkansas River (OK120420010010_00)	Enterococcus (35669)	35.988011	-95.937897	12/16/2025
POL-1	Polecat Creek (OK120420020010_00)	E_coli (42566)	36.015281	-96.029664	12/16/2025
POL-2	Polecat Creek (OK120420020010_00)	E_coli (42566)	36.010483	-95.994017	12/16/2025
POL-3	Polecat Creek (OK120420020010_00)	E_coli (42566)	36.015208	-95.982225	12/16/2025
POL-4	Polecat Creek (OK120420020010_00)	E_coli (42566)	36.001331	-95.958967	12/16/2025
COAL-1	Coal Creek (OK120420020030_00)	N/A	35.988261	-96.0072	12/16/2025
COAL-2	Coal Creek (OK120420020030_00)	N/A	36.009106	-95.992436	12/16/2025
NIC-1	Nickel Creek (OK120420020040_00)	N/A	36.032078	-96.028119	12/16/2025
NIC-2	Nickel Creek (OK120420020040_00)	N/A	36.020369	-96.010581	12/16/2025

The Baseline Monitoring Plan will take place from June 1, 2025 to June 1, 2030. During that time a sample will be processed at each site once a month, with one duplicate being taken at one of the sites. Throughout the monitoring period sites may be added or removed from the sampling list. Any updates to the sampling locations will be tracked and reflected on the AR for each reporting period.

SECTION VIII. ADDITIONAL BMPs BEING IMPLEMENTED TO COMPLY WITH TMDLS

No additional BMPs are proposed for implementation in connection with TMDLs of our MS4 during this reporting cycle. New BMPs will be proposed for implementation for TMDLs as the Storm Water Management Program is updated to meet the new requirements.

SECTION IX AGREEMENTS WITH OTHER GOVERNMENTAL ENTITIES

The City of Jenks is a member of INCOG's Green Country Stormwater Alliance (GCSA). INCOG provides a number of technical support services to its members, most of which are not actual permit requirements. The INCOG GCSA services that are considered City of Jenks BMPs include:

1. Employee Training workshops on all OKR04-required employee training topics; and
2. Maintaining the GCSA regional website for all GCSA members.



'24-'25 INCOG Services to Green Country Stormwater Alliance (GCSA) Members

The following is a summary of INCOG services performed annually on behalf of its GCSA Members. The table identifies services as either general program support activities or Best Management Practices (BMPs) falling under one or more of OKR04's Minimum Control Measures (MCMs). This letter fulfills OKR04's Annual Report requirement in Part VI.C.1.i to provide a "written agreement" with "another government entity" if the permittee is relying on them "to satisfy some of your permit obligations". A copy of this agreement must also be kept with the MS4's SWMP per OKR04 Part V.A.5.

INCOG Activity	BMP or Support	Support Service Description
Co-host water quality and stormwater conferences	Support	Work with other agencies as co-host. Assist with conference planning and give presentations on stormwater topics.
Employee training workshops and virtual meetings	BMP	Organize and hold workshops and online virtual training on OKR04-required training topics and MS4 technical priorities.
Education materials	Support	Develop, acquire, and make available to GCSA members. Post downloadable files on GCSA website.
Technical assistance	Support	Research technical and permit issues important to GCSA members. Report results via fact sheets, news bulletins and in workshops.
GCSA website	BMP	Annual updates of website materials on priority issues.
Guidance, Templates, Plans	Support	Prepare technical guidance and templates for member support. Research and develop TMDL-related Plans and guidance.
Education outreach documents	Support	Prepare Workbooks, News Bulletins, Announcements, Fact Sheets, White Papers, and Newsletters on important stormwater topics.
Individual MS4 assistance	Support	Upon request, meet with MS4 staff, city councils, county commissions and committees on OKR04 and local issues.
Mapping and field inspections	Support	Prepare regional and MS4 maps and forms, train members on equipment use and sampling procedures, assist with inspections.
OKR04 permit compliance	Support	Assist MS4s with SWMPs, NOIs, SOPs, Annual Reports, QA, permit requirements, DEQ Audits and enforcement issues.

OKR04 Part VII.H.4 Required Certification Statement:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Director, Office of Energy and Environment

7/1/2024

Date



Regional Partners — Regional Solutions

2 West Second Street Suite 800 | Tulsa, OK 74103 | 918.584.7526 | www.INCOG.org

'25-'26 INCOG Services to Green Country Stormwater Alliance (GCSA) Members

The following is a summary of INCOG services performed annually on behalf of its GCSA Members. The table identifies services as either general program support activities or Best Management Practices (BMPs) falling under one or more of OKR04's Minimum Control Measures (MCMs). This letter fulfills OKR04's Annual Report requirement in Part VI.C.1.i to provide a "written agreement" with "another government entity" if the permittee is relying on them "to satisfy some of your permit obligations". A copy of this agreement must also be kept with the MS4's SWMP per OKR04 Part V.A.5.

INCOG Activity	BMP or Support	Support Service Description
Co-host water quality and stormwater conferences	Support	Work with other agencies as co-host. Assist with conference planning and give presentations on stormwater topics.
Employee training workshops and virtual meetings	BMP	Organize and hold workshops and online virtual training on OKR04-required training topics and MS4 technical priorities.
Education materials	Support	Develop, acquire, and make available to GCSA members. Post downloadable files on GCSA website.
Technical assistance	Support	Research technical and permit issues important to GCSA members. Report results via fact sheets, news bulletins and in workshops.
GCSA website	BMP	Annual updates of website materials on priority issues.
Guidance, Templates, Plans	Support	Prepare technical guidance and templates for member support. Research and develop TMDL-related Plans and guidance.
Education outreach documents	Support	Prepare Workbooks, News Bulletins, Announcements, Fact Sheets, White Papers, and Newsletters on important stormwater topics.
Individual MS4 assistance	Support	Upon request, meet with MS4 staff, city councils, county commissions and committees on OKR04 and local issues.
Mapping and field inspections	Support	Prepare regional and MS4 maps and forms, train members on equipment use and sampling procedures, assist with inspections.
OKR04 permit compliance	Support	Assist MS4s with SWMPs, NOIs, SOPs, Annual Reports, QA, permit requirements, DEQ Audits and enforcement issues.

OKR04 Part VII.H.4 Required Certification Statement:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

7/1/2025

Director, Office of Energy and Environment

Date

AGREEMENT FOR THE PROVISION OF SERVICES

THIS AGREEMENT is entered into between the City of Jenks (Jenks), and The Metropolitan Environmental Trust (M.e.t.) a public trust, having twelve area jurisdictions as its beneficiaries including Jenks.

I. RECITATIONS

Jenks, in conjunction with its comprehensive approach to solid waste management, desires to provide for its citizens public education concerning responsible solid waste disposal, and household hazardous waste collection.

The M.e.t. also has the expertise and the existing relationships to provide public education and to facilitate the collection of household hazardous waste on a regional basis.

The City of Tulsa, Oklahoma, has created a household pollutant collection facility (Facility) for Tulsa citizens to dispose of certain hazardous waste, which is deleterious to the environment if disposed of incorrectly. The facility is located at 4502 S. Galveston. The City of Tulsa desires to make the facility available to area jurisdictions in a manner that is beneficial to the local environment, and consistent with Oklahoma Department of Environmental Quality MS4 water permits.

In consideration of the foregoing, as well as, mutual promises and covenants contained in this agreement, the parties agree as follows:

II. PUBLIC EDUCATION

1. The M.e.t. will promote the responsible disposal of solid waste and hazardous materials through messages to the public on television, radio, newspaper and social media; speeches to civic groups; and information booths at public events. Messages will include the information concerning the proper items to place in the curbside recycling bins, promotion of green businesses located within Jenks, anti-littering campaigns, and the importance of composting to divert green waste from the public waste stream.
2. The M.e.t. will conduct a one-time event for the collection of tires, fire extinguishers, or other items not otherwise routinely collected by the M.e.t, at a regional location designed to attract citizens of Jenks.
3. The M.e.t. will conduct the Enviro Expo event, or a similar event, that promotes area businesses and organizations dedicated to recycling and environmental responsibility.

III. HOUSEHOLD HAZARDOUS WASTE COLLECTION

4. The M.e.t. will field requests via telephone or email, screen, and provide vouchers to the Tulsa Facility to hazardous household waste from citizens of Jenks.
5. Vouchers will be by the M.e.t. using the system agreed to between the M.e.t. and Tulsa. The M.e.t. will enter the name of the citizen, address, and the type of materials to be delivered. The M.e.t. will educate the citizen on the existence of a nearby recycling depot and items they can take there rather than at Tulsa's Household Pollutant Facility, including the convenience and its reduction in the weight at the HHP facility. The M.e.t. will instruct citizens to bring with them valid identification that will match the name shown on the appointment and prove residency in the area jurisdiction. The M.e.t. will instruct the citizen as to the consequences of including poundage exceeding 45 pounds, or different items than permitted by the voucher.
6. Tulsa will receive, weigh and process the materials presented at the facility by citizens that have a voucher. Tulsa reserves the right to reject any materials that do not appear as acceptable on Exhibit A. Tulsa will not receive materials from any citizen of Jenks that does not have a voucher.
7. Tulsa will charge the M.e.t. a fee for disposal of up to **45 lbs.**. The Jenks citizen will be responsible for any additional fees for material exceeding 45 lbs. at a cost of **\$1.37/lb.** provided that automobile, boat and lawn equipment batteries will be accepted, but will not be included in the weight.
8. The M.e.t. will pay Tulsa for the voucher out of the funds provided to it by Jenks under this agreement.
9. Jenks authorizes the M.e.t. to make **80** vouchers for its citizens to use the Tulsa facility plus any carryover appointments from FY22/23. Additional appointments may be authorized in writing upon receiving notice and agreed to arrangement for payment from Jenks.
10. The M.e.t. will deliver to Jenks at the M.e.t. Board meeting, a monthly itemization showing the total number of vouchers. The poundage of and types of waste received, as well as the unanticipated items and excess poundage that were paid for by the citizen will be made available to Jenks upon request.

Excess Poundage, Unanticipated Products, Excess Number of Visits

11. The parties anticipate that citizens may arrive at the facility with different poundage or different products than they disclosed when obtaining the voucher. The parties also anticipate that it may have more participation than anticipated and budgeted in this agreement.
12. In the event that the citizen has materials in excess of 45 pounds excluding

batteries, Tulsa will require that the citizen pay Tulsa for the overage at the time they appear at the facility. The M.e.t. will not be responsible and will not pay for materials in excess of 45 pounds delivered by a citizen. The M.e.t. will instruct the citizen as to the consequences of including more poundage, prior to arrival at the facility.

13. If the citizen includes materials routinely accepted by the M.e.t. such as motor oil, batteries, cooking oil and grease, the M.e.t. will direct the citizen to deposit those materials at a M.e.t. recycling depot.

IV. PAYMENT

14. Jenks will pay the M.e.t. a total of **\$19,534** payable in two equal installments due on **July 15, 2024**, and **January 15, 2024**, upon receipt of invoices from the M.e.t. showing the duties performed and the amount due. In the event that Jenks authorizes vouchers at the Tulsa Facility in excess of the number agreed to above, Jenks will pay the M.e.t. in advance or in a mutually agreed upon manner for an additional number of vouchers at the rate of **\$62** per appointment. Unused vouchers shall roll over to the next contract year.

V. TERM

15. The term of this Agreement shall commence on **July 1, 2024**, and conclude on **June 30, 2025**. This agreement may be renewed for a period equal to the initial term upon written agreement to the extension, signed by both parties. In no event shall an extension term be longer in duration than 1 year.

VI. TERMINATION

16. This agreement may be terminated by either party for cause after notice and an opportunity has been given to present reasons why such action should not be taken. Grounds constituting cause include but are not limited to, failure to comply with the provisions of this agreement, any applicable laws, ordinances or material regulations or guidelines; one party has been unduly dilatory in executing its duties under this agreement; or non-payment. In the event of termination, the M.e.t. shall be entitled to payment for otherwise valid and allowable obligations incurred in good faith prior to notice of termination. The M.e.t. shall make all necessary efforts to mitigate the damages caused by the termination.

17. Neither forbearance nor payment by either party shall constitute waiver of any remedies for any default or breach that exists then or occurs later.

VII. DISCLAIMER OF AGENCY

18. In the performance of this agreement, the parties shall be deemed to be and shall be independent contractors and, as such, neither shall be entitled to any benefits

applicable to employees of the other. Neither party is authorized or empowered to act for the other for any purpose and shall not on behalf of the other enter into any contract, warranty and/or representation as to any matter. Neither shall be bound by the acts or conduct of the other except as expressly set out in this agreement.

VIII. AMENDMENT

19. This agreement may be amended only in writing signed by all parties.

IX. SEVERABILITY

20. If any provision under this agreement, or its application to any person or circumstance is held invalid by any court of competent jurisdiction, such invalidity does not affect any other provision of this contract or its application that can be given effect without the invalid provision or application.

IX. ENTIRETY OF THE AGREEMENT & VENUE

21. This Agreement sets forth the entire understanding of the parties and supersedes any oral agreements. The terms of this agreement shall be interpreted and construed under the laws of the State of Oklahoma.

THIS AGREEMENT may be executed in several counterparts, each of which shall be deemed the original, but all of which shall constitute one and the same instrument.

City of Jenks

The M.e.t.

(title)

Attest:

Clerk

Date:

(seal)

Approved as to form:

Attorney

(title) Chairman

Attest:

Secretary

Date:

Approved as to form:

Attorney

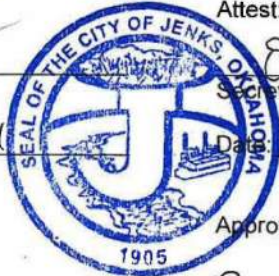


Exhibit A – Accepted and Non Accepted Household Hazardous Waste

The waste list below is to be accepted by Tulsa from outside jurisdictions through services provided by The M.e.t.

- Fluorescent and CFL Light Bulbs
- Oil Based Paints and Paint Thinner
- Latex Paint
- Flammable Liquids
- Lawn Chemicals
- Automotive Fluids
- Cooking Oil/Grease
- Aerosols
- Household and Car Batteries
- Household Cleaners
- Pool Chemicals

The listed wastes below are not accepted by Tulsa.

- Industrial or Commercially Generated Waste (including non-hazardous waste)
- Medical or Biomedical Waste
- Asbestos
- Food or Organic Waste
- Radioactive Material
- Ammunition/Explosives
- Electronics
- Tires
- Compressed Gas Cylinders
- Unknown Materials or Substances

AGREEMENT FOR THE PROVISION OF SERVICES

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The City of Tulsa, Oklahoma, has created a household pollutant collection facility (Facility) for Tulsa citizens to dispose of certain hazardous waste, which is deleterious to the environment if disposed of incorrectly. The facility is located at 4502 S. Galveston. The City of Tulsa desires to make the facility available to area jurisdictions in a manner that is beneficial to the local environment, and consistent with Oklahoma Department of Environmental Quality MS4 water permits.

In consideration of the foregoing, as well as, mutual promises and covenants contained in this agreement, the parties agree as follows:

II. PUBLIC EDUCATION

1. The M.e.t. will promote the responsible disposal of solid waste and hazardous materials through messages to the public on television, radio, newspaper and social media; speeches to civic groups; and information booths at public events. Messages will include the information concerning the proper items to place in the curbside recycling bins, promotion of green businesses located within Jenks, anti-littering campaigns, and the importance of composting to divert green waste from the public waste stream.
2. The M.e.t. will conduct a one-time event for the collection of tires, fire extinguishers, or other items not otherwise routinely collected by the M.e.t, at a regional location designed to attract citizens of Jenks.
3. The M.e.t. will conduct the Enviro Expo event, or a similar event, that promotes area businesses and organizations dedicated to recycling and environmental responsibility.

III. HOUSEHOLD HAZARDOUS WASTE COLLECTION

4. The M.e.t. will field requests via telephone or email, screen, and provide vouchers to the Tulsa Facility to hazardous household waste from citizens of Jenks.

5. Vouchers will be by the M.e.t. using the system agreed to between the M.e.t. and Tulsa. The M.e.t. will enter the name of the citizen, address, and the type of materials to be delivered. The M.e.t. will educate the citizen on the existence of a nearby recycling depot and items they can take there rather than at Tulsa's Household Pollutant Facility, including the convenience and its reduction in the weight at the HHP facility. The M.e.t. will instruct citizens to bring with them valid identification that will match the name shown on the appointment and prove residency in the area jurisdiction. The M.e.t. will instruct the citizen as to the consequences of including poundage exceeding 45 pounds, or different items than permitted by the voucher.

6. Tulsa will receive, weigh and process the materials presented at the facility by citizens that have a voucher. Tulsa reserves the right to reject any materials that do not appear as acceptable on Exhibit A. Tulsa will not receive materials from any citizen of Jenks that does not have a voucher.

7. Tulsa will charge the M.e.t. a fee for disposal of up to **45 lbs.** The Jenks citizen will be responsible for any additional fees for material exceeding 45 lbs. at a cost of **\$1.37/lb.** provided that automobile, boat and lawn equipment batteries will be accepted, but will not be included in the weight.

8. The M.e.t. will pay Tulsa for the voucher out of the funds provided to it by Jenks under this agreement.

9. Jenks authorizes the M.e.t. to make **96** vouchers for its citizens to use the Tulsa facility plus any carryover appointments from FY24/25. Additional appointments may be authorized in writing upon receiving notice and agreed to arrangement for payment from Jenks.

10. The M.e.t. will deliver to Jenks at the M.e.t. Board meeting, a monthly itemization showing the total number of vouchers. The poundage of and types of waste received, as well as the unanticipated items and excess poundage that were paid for by the citizen will be made available to Jenks upon request.

Excess Poundage, Unanticipated Products, Excess Number of Visits

11. The parties anticipate that citizens may arrive at the facility with different poundage or different products than they disclosed when obtaining the voucher. The parties also anticipate that it may have more participation than anticipated and budgeted in this agreement.

12. In the event that the citizen has materials in excess of 45 pounds excluding

batteries, Tulsa will require that the citizen pay Tulsa for the overage at the time they appear at the facility. The M.e.t. will not be responsible and will not pay for materials in excess of 45 pounds delivered by a citizen. The M.e.t. will instruct the citizen as to the consequences of including more poundage, prior to arrival at the facility.

13. If the citizen includes materials routinely accepted by the M.e.t. such as motor oil, batteries, cooking oil and grease, the M.e.t. will direct the citizen to deposit those materials at a M.e.t. recycling depot.

IV. PAYMENT

14. Jenks will pay the M.e.t. a total of **\$21,255** payable in two equal installments due on **July 15, 2025**, and **January 15, 2026**, upon receipt of invoices from the M.e.t. showing the duties performed and the amount due. In the event that Jenks authorizes vouchers at the Tulsa Facility in excess of the number agreed to above, Jenks will pay the M.e.t. in advance or in a mutually agreed upon manner for an additional number of vouchers at the rate of **\$62** per appointment. Unused vouchers shall roll over to the next contract year.

V. TERM

15. The term of this Agreement shall commence on **July 1, 2025**, and conclude on **June 30, 2026**. This agreement may be renewed for a period equal to the initial term upon written agreement to the extension, signed by both parties. In no event shall an extension term be longer in duration than 1 year.

VI. TERMINATION

16. This agreement may be terminated by either party for cause after notice and an opportunity has been given to present reasons why such action should not be taken. Grounds constituting cause include but are not limited to, failure to comply with the provisions of this agreement, any applicable laws, ordinances or material regulations or guidelines; one party has been unduly dilatory in executing its duties under this agreement; or non-payment. In the event of termination, the M.e.t. shall be entitled to payment for otherwise valid and allowable obligations incurred in good faith prior to notice of termination. The M.e.t. shall make all necessary efforts to mitigate the damages caused by the termination.

17. Neither forbearance nor payment by either party shall constitute waiver of any remedies for any default or breach that exists then or occurs later.

VII. DISCLAIMER OF AGENCY

18. In the performance of this agreement, the parties shall be deemed to be and shall be independent contractors and, as such, neither shall be entitled to any benefits

applicable to employees of the other. Neither party is authorized or empowered to act for the other for any purpose and shall not on behalf of the other enter into any contract, warranty and/or representation as to any matter. Neither shall be bound by the acts or conduct of the other except as expressly set out in this agreement.

VIII. AMENDMENT

19. This agreement may be amended only in writing signed by all parties.

IX. SEVERABILITY

20. If any provision under this agreement, or its application to any person or circumstance is held invalid by any court of competent jurisdiction, such invalidity does not affect any other provision of this contract or its application that can be given effect without the invalid provision or application.

IX. ENTIRETY OF THE AGREEMENT & VENUE

21. This Agreement sets forth the entire understanding of the parties and supersedes any oral agreements. The terms of this agreement shall be interpreted and construed under the laws of the State of Oklahoma.

THIS AGREEMENT may be executed in several counterparts, each of which shall be deemed the original, but all of which shall constitute one and the same instrument.

City of Jenks

The M.e.t.

(title)

Attest:

Clerk

Date: 5-15-25

(seal)

Approved as to form:


Attorney



(title)

Attest:

Secretary

Date: 5-8-25

Approved as to form:


Attorney

Exhibit A – Accepted and Non Accepted Household Hazardous Waste

The waste list below is to be accepted by Tulsa from outside jurisdictions through services provided by The M.e.t.

- Fluorescent and CFL Light Bulbs
- Oil Based Paints and Paint Thinner
- Latex Paint
- Flammable Liquids
- Lawn Chemicals
- Automotive Fluids
- Cooking Oil/Grease
- Aerosols
- Household and Car Batteries
- Household Cleaners
- Pool Chemicals

The listed wastes below are not accepted by Tulsa.

- Industrial or Commercially Generated Waste (including non-hazardous waste)
- Medical or Biomedical Waste
- Asbestos
- Food or Organic Waste
- Radioactive Material
- Ammunition/Explosives
- Electronics
- Tires
- Compressed Gas Cylinders
- Unknown Materials or Substances

August 8, 2025

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Cory Box, Chairman
c/o Brandon Macy, Clerk
Jenks Public Works Authority
P.O. Box 2007
Jenks, OK 74037

RE: DEQ Application for Renewal, OPDES Discharge Permit No. OK0037401
Facility ID No. S20403, Jenks Wastewater Treatment Facility, Tulsa County, Oklahoma

Dear Chairman Box:

Your new Oklahoma Pollutant Discharge Eliminations Systems (OPDES) permit which was prepared by Oklahoma Department of Environmental Quality (DEQ), is enclosed. All public notice requirements have been met and public comment periods have expired. The draft permit received no comments; therefore, the final permit has not been changed. The effective and expiration dates of this final permit appear on the cover page.

Pursuant to 40 CFR § 127.1(a), you are required to submit National Pollutant Discharge Eliminations System (NPDES)-program related data electronically either to the State or EPA. Accordingly, DEQ has developed electronic systems so that NPDES-regulated entities can submit required electronic discharge monitoring reports (DMRs) and other reports to DEQ. Part I, Section C of your permit described electronic reporting requirements. Instructions on how to access and use the appropriate electronic reporting tool can be found on the DEQ's website at <https://www.deq.ok.gov/divisions/wqd/>. Please contact DEQ at (405) 702-8100 or email deqreporting@deq.ok.gov if you need any assistance regarding electronic reporting of permit related data.

Should you have any questions regarding the final permit, please contact the Municipal Discharge and Stormwater Permits Section at the letterhead address or telephone (405) 702-8100. Should you have any questions regarding compliance with the conditions of this permit, please contact the Municipal Wastewater Enforcement Section at the same address and phone number.

Sincerely,



Michael B. Moe, P.E., Manager
Municipal Discharge and Stormwater Permits Section
Water Quality Division

MBM/KM/KB CG/WM/ST/HH/SY/AG/BB/TH

Enclosures

cc: LaShunda Brown brown.lashunda@epa.gov, EPA Region 6 (6WQ-CA) w/permit

**AUTHORIZATION TO DISCHARGE UNDER THE
OKLAHOMA POLLUTANT DISCHARGE ELIMINATION SYSTEM**

**PERMIT NUMBER: OK0037401
ID NUMBER: S20403**

PART I

In compliance with the Oklahoma Pollutant Discharge Elimination System (OPDES) Act, Title 27A OS § 2-6-201, *et seq.*, as amended, and the rules of the Oklahoma Department of Environmental Quality (DEQ) adopted thereunder (see the Oklahoma Administrative Code (OAC) 252:606); the Federal Clean Water Act (CWA), Public Law 95-217 (33 USC 1251, *et seq.*), Section 402; and the National Pollutant Discharge Elimination System (NPDES) regulations at Title 40 of the Code of Federal Regulations (CFR) Parts 122, 124, and 403),

Jenks Public Works Authority
P.O. Box 2007
Jenks, OK 74037

is hereby authorized to discharge treated wastewater from the Jenks Wastewater Treatment Facility (WWTF) located at approximately

NW¼, NW¼, NW¼, Section 4, Township 17 North,
Range 13 East, Indian Meridian
Tulsa County, Oklahoma
or at 12301 S. Florence Ave., Jenks, OK 74037

to receiving waters: Arkansas River at the point located at approximately

Latitude: 35° 59' 15.527" N [GPS: NAD83]
Longitude: 95° 56' 16.940" W [GPS: NAD83]

Water Body ID No. OK120420010010_00

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I, II, III, and IV hereof.

This permit replaces and supersedes the previous permit issued on November 8, 2019.

The issuance date of this permit is August 8, 2025.

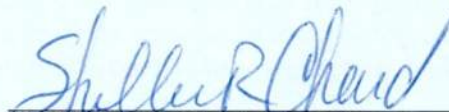
This permit shall become effective September 1, 2025.

This permit and authorization to discharge shall expire at midnight August 31, 2030.

For the Oklahoma Department of Environmental Quality:



Michael B. Moe, P.E., Manager
Municipal Discharge and Stormwater Permits Section
Water Quality Division



Shellie R. Chard, Director
Water Quality Division

A. Effluent Limitations and Monitoring Requirements (Outfall 001)**1. Effluent Limitations**

During the period beginning the effective date and lasting through date of expiration the permittee is authorized to discharge treated wastewater in accordance with the following limitations:

Effluent Characteristics		Discharge Limitations				Monitoring Requirements	
		Mass Loading (lb/day)	Concentration (mg/L, unless otherwise specified)			Measurement Frequency	Sample Type
			Monthly Average	Weekly Average	Daily Max.		
Flow (mgd) [STORET: 50050]		---	Report	---	Report	Daily	Totalized
Biochemical Oxygen Demand -5 Day (BOD ₅) [STORET: 00310]		500.4	30.0	45.0	---	1/week	6-hour composite
Total Suspended Solids (TSS) [STORET: 00530]		500.4	30.0	45.0	---	1/week	6-hour composite
<i>E. coli</i> CFU/100 mL [STORET: 51040]	May– Sep	---	126 ^a	---	406	2/week	Grab
	Oct – Apr	---	630 ^a	---	2,030	1/week	Grab
pH (standard unit) [STORET: 00400]		---	6.5 – 9.0			Daily	Grab

^a Monthly data for *E. coli* shall be reported as geometric mean of all samples in that month.

Sampling Point

Samples taken in compliance with permit limits and monitoring requirements shall be taken at the end of the UV basin located in the NW¼, NW¼, NW¼ of the Section 4, Township 17 North, Range 13 East, IM, Tulsa County, Oklahoma.

Year Round Requirements

- There shall be no discharge of floating solids or visible foam in other than trace amounts.
- There shall be no discharge of a visible sheen of oil or globules of oil or grease on or in the water. Oil and grease shall not be present in quantities that adhere to stream banks and coat bottoms of water courses or which cause deleterious effects to the biota.
- All monitoring and reporting requirements shall also be in compliance with Part III of this permit.

2. Whole Effluent Toxicity Reporting and Monitoring Requirements

During the period beginning the effective date of the permit and lasting through the expiration date, the permittee is authorized to discharge from Outfall TX1 (functionally identical to Outfall 001). Such discharges shall be limited and monitored by the permittee as specified below.

Pimephales promelas (Fathead minnow)

- a. Whole effluent toxicity reporting and monitoring requirements – During the period beginning the effective date of the permit and lasting through the expiration date, the permittee is authorized to discharge from Outfall TX1 (functionally identical to Outfall 001). The discharge consists of domestic wastewater. Such discharge shall be limited and monitored by the permittee as specified below.

The permittee is encouraged to perform required biomonitoring activities as early in the reporting period as is practical to ensure sufficient time remains in the reporting period should retests/repeat tests be necessary.

All laboratory analyses for the biomonitoring parameters specified in this permit must be performed by a laboratory accredited by the Oklahoma Department of Environmental Quality for those parameters.

Acute Whole Effluent Toxicity Reporting and Monitoring Requirements (Outfall TX1)

Effluent Characteristic			Reporting/Monitoring Requirements ^a		
Test	Critical Dilution ^b	Parameter	48-hour Min	Testing Frequency ^c	Sample Type
<i>Pimephales promelas</i> (Fathead minnow), 48-hour acute LC ₅₀ static renewal, freshwater	100%	Pass/Fail Survival [TIM6C]	Report	1/quarter	24-hr comp
		LC ₅₀ Effluent Conc [TAM6C]	Report		
		% Mortality at 100% Effluent [TJM6C]	Report		

^a See Part II, Section F, Whole Effluent Toxicity Limit, for additional monitoring and reporting conditions.

^b All acute WET testing shall use the dilution series specified in Part II, Section F, Item 1.

^c Quarterly reporting periods commence with the effective date of the permit. A valid WET test shall be reported for *Pimephales promelas* for each reporting period. Results of monthly tests conducted pursuant to prior test failure may be substituted for a routine test result if the monthly test coincides within the testing period of the routine testing (See Part II, Section F, Item 2.a).

P. promelas (Fathead minnow) whole effluent toxicity reporting and monitoring requirements apply beginning the effective date of the permit, and the first reporting period is September 1, 2025 to November 30, 2025. The first report is due on December 15, 2025.

Acute Whole Effluent Toxicity Limit and Monitoring Requirements (Outfall TX1)

Effluent Characteristic	Reporting/Monitoring Requirements ^a		
	48-hour Min	Testing Frequency ^b	Sample Type
Whole Effluent Toxicity Limit <i>Pimephales promelas</i> (lowest acute LC ₅₀) [STORET 51714]	>100%	1/quarter	24-hr comp

^a See Part II, Section F, Whole Effluent Toxicity Limit, for additional monitoring and reporting conditions.

^b Results of monthly tests conducted pursuant to prior test failure may be substituted for a routine test result if the monthly test coincides within the testing period of the routine testing (See Part II, Section F, Item 2.a).

Whole effluent toxicity reporting and monitoring requirements apply beginning the effective date of the permit. Compliance with the Whole Effluent Toxicity Limit is required beginning the effective date of the permit.

WET testing summary reports: Reports of all WET testing initiated, regardless of whether such tests are carried to completion, shall follow the requirements of Part II, Section F, Item 4.

- b. Concurrent testing is a provision for acute Whole Effluent Toxicity (WET) testing –

Concurrent analyses of ammonia and pH are required for each individual effluent sample collected for acute WET testing or retesting of the Fathead minnow species. Reporting of concurrent testing results shall be in accordance with the following requirements in the table below.

Concurrent Effluent Testing for Acute WET Tests - Reporting Requirements (Outfall TX1)

Effluent Characteristic	Concentration			Monitoring Requirements	
	Daily Min	Monthly Avg	Daily Max	Monitoring Frequency	Sample Type
Ammonia, (NH ₃ -N) (mg/L) ^a [STORET 00610]	Report	Report	Report	1/quarter	24 hr comp
pH (std units) ^a [STORET 00400]	Report	N/A	Report	1/quarter	Measured in each composite effluent sample, including static renewals, just prior to first use

^a Two sets of samples for concurrent analyses are required for ammonia and pH: Report only those effluent samples collected for WET testing of the *Pimephales promelas*.

Samples collected for WET testing purposes, including static renewals, shall be of sufficient volume to allow for the required concurrent analyses in addition to the WET testing itself.

Samples sent directly to a WET testing laboratory shall NOT undergo any preservation other than refrigeration to maintain a temperature at or below 6°C but not frozen prior to arrival and processing at the WET testing laboratory. These results should be used in the table above. Samples sent directly to a state accredited analytical laboratory must be composite samples that are properly preserved. These results may be included in the results for Outfall 001.

A second concurrent analysis is required for the sample that is sent to the WET testing laboratory and for the table above. Just prior to first use of each composite sample for WET testing purposes, the biomonitoring laboratory shall take an adequately-sized portion of each composite sample, acidify it in accordance with preservation requirements in 40 CFR 136, and have it analyzed for ammonia (NH₃-N) at a state accredited laboratory. The pH measurement required for the above table must be taken just prior to the acidification step. These pH and ammonia readings should NOT be included in the results for Outfall 001.

- c. Sampling location – Samples taken in compliance with the monitoring requirements specified above for Outfall TX1 shall be taken at the following location: at the same location as for Outfall 001.

Daphnia pulex

- a. Whole effluent toxicity reporting and monitoring requirements – During the period beginning the effective date of the permit and lasting through the expiration date, the permittee is authorized to discharge from Outfall TX1 (functionally identical to Outfall 001). The discharge consists of domestic wastewater. Such discharge shall be limited and monitored by the permittee as specified below.

The permittee is encouraged to perform required biomonitoring activities as early in the reporting period as is practical to ensure sufficient time remains in the reporting period should retests/repeat tests be necessary.

All laboratory analyses for the biomonitoring parameters specified in this permit must be performed by a laboratory accredited by the Oklahoma Department of Environmental Quality for those parameters.

Acute Whole Effluent Toxicity Reporting and Monitoring Requirements (Outfall TX1)

Effluent Characteristic				Reporting/Monitoring Requirements ^a		
Test		Critical Dilution ^b	Parameter	48-hour Min	Testing Frequency ^f	Sample Type
Testing	<i>Daphnia pulex</i> , 48-hour acute LC ₅₀ static renewal, freshwater	100%	Pass/Fail Survival [TIM3D]	Report	1/quarter ^e	24-hr comp
			LC ₅₀ Effluent Conc [TAM3D]	Report		
			% Mortality at 100% Effluent [TJM3D]	Report		
Retesting	Retest #1 [22415] ^c			Report	As Required ^d	24-hr comp
	Retest #2 [22416] ^c			Report		

^a See Part II, Section E, Whole Effluent Toxicity Testing, for additional monitoring and reporting conditions.

^b All acute WET testing shall use the dilution series specified in Part II, Section E, Item 1.

^c Apply according to results of test failure triggering monthly retests.

^d Monthly retesting required only if routine test for reporting period fails. Fill out ONLY these two retest parameters on the retest DMRs, do not change the original results, and put the correct submission date in the lower right hand corner of the DMR.

^e Results of retests conducted pursuant to prior test failure shall not be substituted on DMRs in lieu of routine test results (See Part II, Section E, Item 2.a).

^f See provision for monitoring frequency reduction after the first year (Part II, Section E, Item 5.)

D. pulex whole effluent toxicity reporting and monitoring requirements apply beginning the effective date of the permit, and the first reporting period is September 1, 2025, to November 30, 2025. The first report is due on December 15, 2025.

WET testing summary reports: Reports of all WET testing initiated, regardless of whether such tests are carried to completion, shall follow the requirements of Part II, Section E, Item 4.

- b. Sampling location – Samples taken in compliance with the monitoring requirements specified above for Outfall TX1 shall be taken at the following location: at the same location as for Outfall 001.

B. Sanitary Sewer Overflows

Any bypass in the collection system [sanitary sewer overflow (SSO)] shall be reported in accordance with Permit Part III.B.6.

C. Reporting of Monitoring Results

Monitoring results shall be reported in accordance with the provisions of Part III.B.5 of the permit. Monitoring results obtained during the previous month shall be summarized and electronically reported

on an electronic Discharge Monitoring Report (eDMR) form due to the Oklahoma Department of Environmental Quality, Water Quality Division, Wastewater Compliance Tracking Section no later than the 15th day of the month following the completed monthly test. If no discharge occurs during the reporting period, an eDMR form stating "No Discharge" shall be electronically submitted according to the above schedule. Instructions on how to register as a Preparer or Signatory for eDMRs, as well as how to prepare and submit eDMRs, can be found on DEQ's website at <https://www.deq.ok.gov/water-quality-division/electronic-reporting/>. Assistance is also available by contacting DEQ at (405) 702-8100 or email deqreporting@deq.ok.gov.

The first report is due on the 15th of October 2025.

PART II. OTHER PERMIT REQUIREMENTS

A. CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The following pollutants shall not be introduced into a Publicly Owned Treatment Works (POTW) facility, defined in 40 CFR § 403.3(q) “as any devices and systems used in storage, treatment, recycling and reclamation of municipal sewage and industrial wastes of a liquid nature. It also includes sewers, pipes and other conveyances only if they convey wastewater to a POTW Treatment Plant. The term also means the municipality as defined in CWA § 502(4), which has jurisdiction over the Indirect Discharges to and from such treatment works.”
 - a. Pollutants which create a fire or explosion hazard in the POTW facility, including, but not limited to, wastestreams with a closed cup flashpoint of less than 60°C (140°F) using the test methods specified in 40 CFR § 261.21;
 - b. Pollutants which will cause corrosive structural damage to the POTW, but in no case discharges with pH lower than 5.0, unless the works are specifically designed to accommodate such discharges;
 - c. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW, resulting in interference;
 - d. Any pollutant, including oxygen demanding pollutants (e.g., BOD), released in a discharge at a flow rate and/or pollutant concentration which will cause interference with the POTW;
 - e. Heat in amounts which will inhibit biological activity in the POTW resulting in interference but in no case heat in such quantities that the temperature at the POTW treatment plant exceeds 40°C (104°F) unless the Approval Authority, upon request of the POTW, approves alternate temperature limits;
 - f. Petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through;
 - g. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems; and
 - h. Any trucked or hauled pollutants, except at discharge points designated by the POTW.
2. The permittee shall require any indirect discharger to the treatment works to comply with the reporting requirements of CWA § 204(b), 307, and 308, including any requirements established under 40 CFR Part 403.
3. The permittee shall provide adequate notice of the following:
 - a. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to CWA § 301 and 306 and/or 40 CFR Parts 405-499 if it were directly discharging those pollutants; and

- b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.
- c. Any notice shall include information on (i) the quality and quantity of effluent to be introduced into the treatment works, and (ii) any anticipated impact of the change on the quality or quantity of effluent to be discharged from the POTW.

B. REOPENER CLAUSE

This permit may be reopened for modification or revocation and reissuance to require additional monitoring and/or effluent limitations where actual or potential exceedances of State water quality criteria are determined to be the result of the permittee's discharge to the receiving water(s), or a revised Total Maximum Daily Load is established for the receiving water(s), or when required as technology advances. Modification or revocation and reissuance of the permit shall follow regulations listed at 40 CFR § 124.5.

C. BIOSOLIDS/SEWAGE SLUDGE REQUIREMENTS

The biosolids beneficial use and/or sewage sludge disposal practices shall comply with the federal regulations for landfills, biosolids beneficial use, and/or sewage sludge solid waste disposal established at 40 CFR Parts 257, 503, and the DEQ rules governing Sludge Management (OAC 252:515 and OAC 252:606) as applicable.

The sewage sludge disposal shall also comply with the requirements of the Sludge Management Plan (No. 3572036) for the facility approved and amended by DEQ on May 15, 2007, that allows the permittee to landfill sewage sludge at the following landfill facility:

- American Environmental Landfill (Landfill Permit No. 3557021), which is located in the S½ of Section 36, Township 20 North, Range 10 East, I.M., Osage County, Oklahoma.

The permittee is required to maintain all records relevant to biosolids beneficial use and/or sewage sludge disposal for the life of the permit. These records shall be made available to DEQ upon request.

The permittee shall notify DEQ at least 120 days prior to implementing any changes in the biosolids beneficial use and/or sewage sludge disposal practices.

The permittee shall comply with other biosolids/sewage sludge requirements specified in Part IV of this permit.

D. POLLUTION PREVENTION REQUIREMENTS

1. The permittee shall institute a program within 12 months of the effective date of the permit (or continue an existing program) directed towards optimizing the efficiency and extending the useful life of the facility. The permittee shall consider the following items in the program:
 - a. The influent loadings, flow and design capacity;
 - b. The effluent quality and plant performance;
 - c. The age and expected life of the wastewater treatment facility's equipment;
 - d. Bypasses and overflows of the tributary sewerage system and treatment works;

- e. New developments at the facility;
 - f. Operator certification and training plans and status;
 - g. The financial status of the facility;
 - h. Preventative maintenance programs and equipment conditions; and
 - i. An overall evaluation of conditions at the facility.
2. The permittee shall prepare the following information on the biosolids/sewage sludge generated by the facility:
- a. An annual quantitative tabulation of the ultimate disposition of all biosolids/sewage sludge (including, but not limited to, the amount beneficially reused, landfilled, and incinerated).
 - b. An assessment of technological processes and an economic analysis evaluating the potential for beneficial reuse of all biosolids/sewage sludge not currently beneficially reused including a listing of any steps which would be required to achieve the biosolids/sewage sludge quality necessary to beneficially reuse the biosolids/sewage sludge.
 - c. A description of, including the expected results and the anticipated timing for, all projects in process, in planning and/or being considered which are directed towards additional beneficial reuse of biosolids/sewage sludge.
 - d. An analysis of one composite sample of the biosolids/sewage sludge collected prior to ultimate re-use or disposal shall be performed for the pollutants listed in Part IV, Element 1, Section III, Table 3.
 - e. A listing of the specific steps (controls/changes) which would be necessary to achieve and sustain the quality of the biosolids/sewage sludge so that the pollutant concentrations in the biosolids/sewage sludge fall below the pollutant concentration criteria listed in Part IV, Element 1, Section III, Table 3.
 - f. A listing of, and the anticipated timing for, all projects in process, in planning, and/or being considered which are directed towards meeting the biosolids/sewage sludge quality referenced in (e) above.

The permittee shall certify in writing, within three years of the effective date of the permit, that all pertinent information is available. This certification shall be submitted to:

Oklahoma Department of Environmental Quality
 Water Quality Division
 Municipal Discharge and Stormwater Permits Section
 P. O. Box 1677
 707 North Robinson Ave
 Oklahoma City, Oklahoma 73101-1677

E. WHOLE EFFLUENT TOXICITY TESTING FOR *DAPHNIA PULEX*

1. Scope and Methodology

- a. The permittee shall test the effluent for toxicity in accordance with the provisions in this section, which apply individually and separately to the outfalls listed below. No samples or portions of

samples from one outfall may be composited with samples or portions of samples from another outfall. The permittee shall biomonitor for *Daphnia pulex* in accordance with the WET testing frequencies prescribed in Part I.

The permittee is encouraged to perform required biomonitoring activities as early in the reporting period as is practical to ensure sufficient time remains in the reporting period should retests/repeat tests be necessary.

All laboratory analyses for the biomonitoring parameters specified in this permit must be performed by a laboratory accredited by DEQ for those parameters.

Provisions for performance-based monitoring frequency reductions are contained in Item 5 of this section.

Intervals between test initiation dates shall be a function of the required testing frequency, as follows:

- Monthly: No less than 20 days and no more than 40 days.
- Quarterly: No less than 2 months and no more than 4 months.
- Semi-annually: No less than 4 months and no more than 8 months.

APPLICABLE TO OUTFALL(S):	001
REPORTED ON DMR AS OUTFALL(S):	TX1
CRITICAL DILUTION:	100%
EFFLUENT DILUTION SERIES (ALL TESTS):	32%, 42%, 56%, 75%, 100%
SAMPLE TYPE:	Defined at Part I
TEST SPECIES/METHODS:	40 CFR 136, except for changes required by EPA, Region 6.

Daphnia pulex acute static renewal 48-hour definitive toxicity test, Method 2021.0, EPA-821-R-02-012 (October 2002), or latest update thereof. A minimum of five (5) replicates with eight (8) organisms per replicate must be used in the control and in each effluent dilution of this test.

- b. Acute test failure –Acute test failure (LC₅₀ test) is defined as 50% or more lethality (toxicity) at 48 hours to test organisms at any effluent concentration. The 48-hour LC₅₀ effluent value must be >100% to indicate a passing test. Any 48-hour LC₅₀ effluent value of 100% or less (or equivalently, a survival value of less than 50.1% in any test dilution) will constitute a test failure.
- c. Reopener clause – This permit may be reopened to require whole effluent toxicity limits, chemical specific effluent limits, additional testing, and/or other appropriate actions to address toxicity.

2. Testing Requirements due to Test Failure

Upon becoming aware of the failure of any test, the permittee shall immediately notify the DEQ Water Quality Division biomonitoring coordinator, and shall provide written notification within 5 working days, of the test failure with a summary of the results of, and any other pertinent circumstances associated with, the failed test.

- a. Whenever there is a test failure for *Daphnia pulex* during routine testing, the frequency of testing for *Daphnia pulex* shall automatically increase to, or continue at, as appropriate, the WET testing frequency prescribed in Part I for the remaining life of the permit. In addition, two (2) additional monthly tests (retests) of *Daphnia pulex* are required. The two additional tests shall be conducted monthly during the next two consecutive months. The permittee shall not substitute either of the two additional tests for routine toxicity testing. A full laboratory report for the failed routine test and both additional tests, if required, shall be prepared and submitted to DEQ in accordance with procedures outlined in Item 4 of this section.
- b. Persistent toxicity – If either of the two additional tests results in an LC₅₀ value less than or equal to 100%, persistent toxicity is exhibited. Then the permittee shall initiate a Toxicity Reduction Evaluation (TRE) as specified in Item 6 of this section. The TRE initiation date will be the test completion date of the first failed retest. The permittee may request a temporary exemption to this TRE-triggering criterion only if the permittee is under a compliance schedule defined in an OPDES permit or an enforcement order to effect aquatic toxicity reduction measures.
- c. Intermittent toxicity – If both additional tests result in an LC₅₀ value of greater than 100%, persistent toxicity is not exhibited. However, if any routine test failure occurs within 18 months of a prior test failure, intermittent toxicity is exhibited, and the permittee may be required by DEQ to initiate a TRE, as described in Item 6 of this section, based on the severity and pattern of such toxic effect over time.
- d. Suspension of Retesting Requirement During TRE - Retesting requirements in Item 2.a are temporarily suspended upon submittal of a TRE Action Plan. Such suspension of retesting requirements applies only to the species under evaluation by a TRE and only to the period during which a TRE is being performed.

3. Required Toxicity Testing Conditions

- a. Test acceptance – The permittee shall repeat a test, including the control and all effluent dilutions, if the procedures and quality assurance requirements defined in the test methods or in this permit are not satisfied, including the following additional criteria:
 - (1) The toxicity test control (0% effluent) must have survival equal to or greater than 90%.
 - (2) The percent coefficient of variation between replicates shall be 40% or less in the control (0% effluent) for the *Daphnia pulex* survival test.
 - (3) The percent coefficient of variation between replicates shall be 40% or less in the critical dilution, unless significant toxicity is exhibited in the *Daphnia pulex* survival test.
 - (4) As documented at test termination, no more than forty (40) percent of the daphnid test organisms in any replicate of any effluent dilution or in any replicate of the control (0% effluent) shall be male.

If the above criteria or criteria listed in Item 1.a are not met the test will be considered invalid. Test failure may not be construed or reported as invalid due to a coefficient of variation value for toxicity of greater than 40% for replicates tested at the critical dilution. A repeat test shall be conducted and the biomonitoring enforcement coordinator notified, within the reporting period of any test determined to be invalid.

- b. The permittee shall follow the requirements listed below in determining success or failure of a WET test:

The statistical analyses in the *Daphnia pulex* test, used to determine the LC₅₀ shall be in accordance with the methods described in EPA-821-R-02-012, or the most recent update thereof.

- c. The permittee shall use dilution water that meets the following standards:

(1) Dilution water used in the toxicity tests will be receiving water collected as close to the point of discharge as possible but unaffected by the discharge. In OAC 252:606-6-36, for discharges to a receiving stream classified as intermittent or to a receiving stream with no flow due to zero flow, the permittee shall substitute synthetic dilution water of similar pH, hardness and alkalinity to the closest downstream perennial water where the toxicity test is conducted. In the event that the receiving stream has sufficient flow for a sample to be collected, the facility will return to receiving stream water instead of synthetic.

(2) If the receiving water is unsatisfactory as a result of instream toxicity (fails to meet the test acceptance criteria in Item 3.a), the permittee must submit the test results exhibiting receiving water toxicity with the full test report required in Item 4 below and may thereafter substitute synthetic dilution water for the receiving water in all subsequent tests, provided the unacceptable receiving water test met the following stipulations:

(a) a synthetic dilution water control which fulfills the test acceptance requirements of Item 3.a was run concurrently with the receiving water control;

(b) the test indicating receiving water toxicity was carried out to completion (i.e., 48 hours);

(c) the synthetic dilution water had a pH, hardness and alkalinity similar to that of the receiving water or closest downstream perennial water not adversely affected by the discharge, provided the magnitude of these parameters will not cause toxicity in the synthetic dilution water; and

(d) the receiving water test must be conducted at the start of each permitting cycle.

- d. The permittee shall collect samples that are representative of their effluent by following the criteria listed below:

(1) Unless grab sampling is specifically authorized in Part I of the permit, the permittee shall collect two flow-weighted 24-hour composite samples representative of the flows during normal operation from the outfall(s) listed at Item 1.a above. If grab sampling is authorized, all the requirements listed below for composite sampling also pertain to grab sampling. In such cases, collection of the grab sample is considered equivalent to collection of the last portion of a composite sample. Unless otherwise specified in Part I of the permit, a 24-hour composite sample consists of a minimum of 12 effluent portions collected at equal time intervals representative of a 24-hour operating day and combined proportional to flow, or a sample continuously collected proportional to flow over a 24-hour operating day.

- (2) The permittee must collect the composite samples so that the maximum holding time for any effluent sample shall not exceed 36 hours. The permittee must initiate the toxicity test within 36 hours after the collection of the last portion of the first composite sample. The first composite sample shall be used to initiate each test. The second composite sample shall be used for 24-hour static renewal of each dilution concentration for each test. Samples shall be chilled to maintain a temperature at or below 6° C but not frozen during collection, shipping, and/or storage.
- (3) The permittee must collect the composite samples such that the effluent samples are representative of any periodic episode of chlorination, biocide usage or other potentially toxic substance discharged on an intermittent basis.
- (4) If it is anticipated that flow from the outfall being tested may cease prior to collection of the second composite sample, the permittee must ensure that the first composite sample is of sufficient volume to complete the required testing with daily renewal of effluent. The abbreviated composite sample collection duration, the static renewal protocol associated with an abbreviated sample collection, and a summary of the circumstances justifying collection of an abbreviated sample must be adequately documented in the full test report required in Item 4 below. DEQ reserves the right to require a retest and/or consider the permittee in violation of this permit if the basis offered for justification of an abbreviated sample is insufficient, flawed, or in any way reflects an effort on the part of the permittee to avoid test failure by use of an abbreviated sample.

4. Reporting

- a. The permittee shall retain each full report pursuant to the records retention provisions of Part III of this permit. The permittee shall also submit to the DEQ biomonitoring enforcement coordinator a copy of the full laboratory test reports at TX1 in accordance with the Report Preparation Section of EPA-821-R-02-012 for every valid or invalid toxicity test initiated, whether carried to completion or not, including any test which is considered invalid, is terminated early for any reason, or which indicates receiving water toxicity. The reports shall be received no later than the 15th day of the month following the end of the testing period.
- b. A valid test for *Daphnia pulex* (excluding retests) at TX1 must be reported on the DMR for each reporting period specified in Part I of this permit, unless the permittee is performing a TRE, which may increase the frequency of testing and reporting. An electronic DMR and a copy of the lab report must be received by the 15th day of the month following the end of the testing period.

If a test is determined to be invalid, the repeat test must be conducted in the coinciding testing period; if the first sample of the repeat test is taken after the last day of the final month in a testing period, the facility will be out of compliance with the reporting period. If a lethal failure is experienced for *Daphnia pulex*, two (2) monthly WET retests are required during the two-month period following the month in which the test failure is experienced.

If more than one valid test (excluding retests) is performed on a species during a reporting period, the permittee shall report the lowest lethality LC₅₀ effluent concentrations for all such tests as the 7-day minimum on the DMR for the reporting period in question, specifying the dates of each test in the comments section of the DMR. Under no circumstance shall the monitoring/reporting period dates at the top of the DMR form be altered.

- c. If any test results in anomalous LC₅₀ findings (i.e., it indicates an interrupted dose response across the dilution series), DEQ recommends that the permittee contact the DEQ biomonitoring coordinator for a technical review of the test results prior to submitting the full laboratory test report and DMR. A summary of all tests initiated during the reporting period, including invalid tests, repeat tests, and retests, shall be attached to the reporting period DMR for DEQ review.

A test is a REPEAT test if it is performed as the result of a previously invalid test. A test is a RETEST if it is performed as the result of a previously failed test, the exception being where the test is the first (valid) test of a reporting period, in which case it is reported as such on the DMR for that period.

- (1) The reporting period test summary attached to the DMR shall be organized as follows:
 - (a) Invalid tests (basis for test invalidity must be described)
 - (b) Valid tests (other than retests) initiated during current reporting period
 - (c) Valid retests for tests failed during previous reporting period (if not submitted in the previous reporting period test summary)
 - (d) Valid retests for tests failed during current reporting period
 - (2) The following information shall be listed in the reporting period test summary for each valid test in categories (b) through (d) in Item 4.b(1) above:
 - (a) Test species
 - (b) Date of test initiation at laboratory
 - (c) Results of all concurrent effluent analyses specified in Part I of this permit
 - (d) All test result parameters for the test species specified in Item 4.c below.
- d. The permittee shall report the following results for all VALID routine toxicity tests (excluding retests) on the DMR(s) for that reporting period in accordance with Item 4.b above and Part III of this permit.

Daphnia pulex

- (1) Parameter TIM3D: If the *Daphnia pulex* 48-hour LC₅₀ for survival is equal to or less than 100%, report a “1”; otherwise, report a “0”.
 - (2) Parameter TAM3D: Report the *Daphnia pulex* 48-hour LC₅₀ value for survival.
 - (3) Parameter TJM3D: Report the *Daphnia pulex* 48-hour percent mortality in the 100% effluent concentration.
- e. The permittee shall report the following results for all VALID toxicity retests on the DMR(s) for that reporting period.
- (1) Retest #1 (STORET 22415): If the first monthly retest following failure of a routine test for *Daphnia pulex* results in a 48-hour LC₅₀ for survival equal to or less than 100%, report a “1”; otherwise, report a “0”.

- (2) Retest #2 (STORET 22416): If the second monthly retest following failure of a routine test for *Daphnia pulex* results in a 48-hour LC₅₀ for survival equal to or less than 100%, report a “1”; otherwise, report a “0”.

Results of all retests shall be reported on a copy of the DMR for the reporting period (see Item 4.b above) in which the triggering routine test failure is experienced. Such retest results (using STORET codes 22415 and 22416 only) shall be received no later than the 15th day of the month at the end of the testing period for the retest. The full report for the retest (see Item 4.a above) shall be submitted along with the retest DMR. Even if a retest cannot be conducted before the end of the reporting period for which it is required (due to test initiation interval requirements), the retest results shall still be reported for the reporting period in which the triggering test failure is experienced. Under no circumstance shall the monitoring/reporting period dates for a supplemental retest DMR ever be modified. The permittee shall indicate the retest date in the comments section of the supplemental DMR and insert the date the DMR is submitted in the lower right hand corner. In this manner, both retests are reported for the same reporting period as the failed routine test triggering the retests. If retesting is not required during a given reporting period, the permittee shall leave the DMR retest fields blank.

5. Monitoring Frequency Reduction

- a. The permittee may apply for a testing frequency reduction upon the successful completion of the first year of testing for *Daphnia pulex* with no lethal effects demonstrated at or below the critical dilution. Certification in accordance with Item 5.b of this section shall be submitted with the application for monitoring frequency reduction. If granted, the monitoring frequency may be reduced to a minimum of once per 6 months (actual testing must occur during the periods June 1 through September 30 and December 1 through March 31) for the approved test specie(s).
- b. Certification – The permittee must certify in writing that no lethal test failures have occurred for the species for which the monitoring frequency reduction is being requested and that all tests meet all test acceptability criteria in Item 3.a above. In addition, the permittee must provide a summary of all tests initiated during the period of certification including test initiation dates, species, test acceptability parameters, LC₅₀ concentrations, percent mortality at the 100% effluent dilution, and coefficients of variation for the control and 100% effluent dilution. If the certification is approvable, DEQ will issue a letter of confirmation of the monitoring frequency reduction. A copy of the confirmation letter will be forwarded to DEQ's Permit Compliance Tracking Section to update the permit reporting requirements and TX1S will be activated while TX1Q will be deactivated. DEQ may refuse to approve the certification if it determines that, during the period for which the certification is submitted, there were errors in meeting test acceptability requirements, errors in statistical interpretation affecting test results reported on DMRs, late submissions of test reports or submissions of substantively incomplete test reports. If the certification is not approved, the permittee shall continue biomonitoring of the affected test species at a frequency of once per quarter until the permit is reissued.
- c. Lethal failures after a monitoring frequency reduction – If any lethal endpoint test is failed at any time after the granting of a monitoring frequency reduction, two monthly retests are required for that species in accordance with Item 2 above and the monitoring frequency for the affected test species shall be increased to the WET testing frequency prescribed in Part I before the frequency reduction was granted and shall remain for the life of the permit. TX1Q will be reactivated and TX1S will be discontinued for the life of the permit. If the permittee is performing a TRE this section does not apply.

6. Toxicity Reduction Evaluation (TRE)

- a. Within ninety (90) days of confirming toxicity in the retests for a test species, the permittee shall submit to DEQ a TRE Action Plan and Schedule for conducting a Toxicity Reduction Evaluation (TRE). The TRE Action Plan shall specify the approach and methodology to be used in performing the TRE. A Toxicity Reduction Evaluation is an investigation intended to determine those actions necessary to achieve compliance with water quality-based effluent limits by reducing an effluent's toxicity to an acceptable level. A TRE is defined as a step-wise process which combines toxicity testing and analyses of the physical and chemical characteristics of a toxic effluent to identify the constituents causing effluent toxicity and/or treatment methods which will reduce the effluent toxicity. The TRE Action Plan shall lead to the successful elimination of effluent toxicity and include the following:

- (1) Specific Activities. DEQ requires that a thorough audit of the design, operation and maintenance of the entire plant be done at the **outset** of the Toxicity Identification Evaluation (TIE) and/or TRE, rather than later in the process.

The plan shall detail the specific approach the permittee intends to utilize in conducting the TRE. The approach may include toxicity characterizations, identifications and confirmation activities, source evaluation, treatability studies, or alternative approaches. When the permittee conducts Toxicity Characterization Procedures, the permittee shall perform multiple characterizations and follow the procedures specified in the documents "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA-600/6-91/003) and "Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I" (EPA-600/6-91/005F), or alternate procedures. When the permittee conducts Toxicity Identification Evaluations and Confirmations, the permittee shall perform multiple identifications and follow the methods specified in the documents "Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations, Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081), as appropriate.

The documents referenced above may be available through the

National Technical Information Service (NTIS)

U.S. Department of Commerce
National Technical Information Service
5301 Shawnee Rd., Alexandria, VA 22312
E-mail: orders@ntis.gov
(800) 553-NTIS (6847), or at the

National Service Center for Environmental Publications (NSCEP) U.S. EPA/NSCEP
P.O. Box 42419
Cincinnati, Ohio 45242-0419
E-mail: nscep@bps-lmit.com
1-(800) 490-9198

- (2) Sampling Plan (e.g., locations, methods, holding times, chain of custody, preservation, etc.). The effluent sample volume collected for all tests shall be adequate to perform the toxicity

test, toxicity characterization, identification and confirmation procedures, and to conduct chemical specific analyses when a probable toxicant has been identified. Where the permittee has identified or suspects specific pollutant(s) and/or source(s) of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical specific analyses for the identified and/or suspected pollutant(s) and/or source(s) of effluent toxicity. Where toxicity was demonstrated within 48 hours of test initiation, each composite sample shall be analyzed independently. Otherwise, the permittee may substitute a composite sample, comprised of equal portions of the individual composite samples, for the chemical specific analysis.

- (3) Quality Assurance Plan (e.g., QA/QC implementation, corrective actions, etc.).
- (4) Project Organization (e.g., project staff, project manager, consulting services, etc.).
- b. The permittee shall initiate the TRE Action Plan within thirty (30) days of submitting the plan and schedule. The permittee shall assume all risks for failure to achieve the required toxicity reduction.
- c. The permittee shall submit to DEQ a quarterly TRE Activities Report with the Discharge Monitoring Report in months to be specified in their TRE plan, containing the following information:
 - (1) all data and/or substantiating documentation which identifies the pollutant(s) and/or source(s) of effluent toxicity;
 - (2) all studies/evaluations and results on the treatability of the facility's effluent toxicity; and
 - (3) all data which identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant toxicity at any dilution.
- d. The permittee shall submit to DEQ a Final Report on Toxicity Reduction Evaluation Activities no later than twenty-eight (28) months after confirming toxicity in the retests. The final report shall provide information pertaining to the specific control mechanism(s) selected that will, when implemented, result in reduction of effluent toxicity to a 48-hour LC₅₀ effluent value of greater than 100%. The final report shall also provide a schedule for implementing the selected control mechanism(s).
- e. Quarterly testing during the TRE is the minimum monitoring requirement. DEQ recommends that permittees performing a TRE not rely on quarterly testing alone. Failure to identify the specific chemical compound(s) causing toxicity test failure will normally result in a permit limit for whole effluent toxicity per federal regulations at 40 CFR 122.44(d)(1)(v).

F. WHOLE EFFLUENT TOXICITY TESTING FOR *PIMEPHALES PROMELAS*

1. Scope and Methodology

- a. The permittee shall test the effluent for toxicity in accordance with the provisions in this section, which apply individually and separately to the outfalls listed below. No samples or portions of samples from one outfall may be composited with samples or portions of samples from another outfall. The permittee shall biomonitor for *Pimephales promelas* in accordance with the WET testing frequencies prescribed in Part I.

The permittee is encouraged to perform required biomonitoring activities as early in the reporting period as is practical to ensure sufficient time remains in the reporting period should retests/repeat tests be necessary.

All laboratory analyses for the biomonitoring parameters specified in this permit must be performed by a laboratory accredited by the Oklahoma Department of Environmental Quality for those parameters.

Intervals between test initiation dates shall be a function of the required testing frequency, as follows:

- Monthly: No less than 20 days and no more than 40 days.
- Quarterly: No less than 2 months and no more than 4 months.
- Semi-annually: No less than 4 months and no more than 8 months.

APPLICABLE TO OUTFALL(S): 00I

REPORTED ON DMR AS OUTFALL(S): TXI

CRITICAL DILUTION: 100%

EFFLUENT DILUTION SERIES (ALL TESTS): 32%, 42%, 56%, 75%, 100%

SAMPLE TYPE: Defined at Part I

TEST SPECIES/METHODS: 40 CFR 136, except for changes required by EPA, Region 6.

Pimephales promelas (Fathead minnow) acute static renewal 48-hour definitive toxicity test, Method 2000.0, EPA-821-R-02-012 (October 2002), or latest update thereof. A minimum of five (5) replicates with eight (8) organisms per replicate must be used in the control and in each effluent dilution of this test.

- b. Acute test failure –Acute test failure (LC₅₀ test) is defined as 50% or more lethality (toxicity) at 48 hours to test organisms at any effluent concentration. The 48-hour LC₅₀ effluent value must be >100% to indicate a passing test. Any 48-hour LC₅₀ effluent value of 100% or less (or equivalently, a survival value of less than 50.1% in any test dilution) will constitute a test failure.
- c. The conditions of this item are effective beginning with the effective date of the WET limit, as established in Part I of this permit. When a whole effluent toxicity test for *Pimephales promelas* results in an LC₅₀ value of 100% or less (i.e., greater than or equal to 50% lethality (toxicity) in any effluent dilution), the permittee shall be considered in violation of this permit, and the frequency of testing for that species will increase to monthly until such time as compliance with the LC₅₀ whole effluent toxicity limit is demonstrated for that test species for a period of three (3) consecutive months, at which time the permittee may return to the testing frequency for each species stated in Part I of this permit. The increased frequency for WET testing after a violation is used to determine the duration of a toxic event. A test that meets all test acceptability criteria and demonstrates significant toxic effects does not need additional confirmation. Such testing cannot confirm or disprove a previous test result. Testing conducted pursuant to the provision shall be reported in accordance with Item 3 of this section.

- d. Reopener clause – This permit may be reopened to require chemical specific effluent limits, additional testing, and/or other appropriate actions to address toxicity. Accelerated or intensified testing may be required in accordance with Section 308 of the Clean Water Act.
- e. Upon becoming aware of the failure of any test, the permittee shall immediately notify the DEQ Water Quality Division biomonitoring coordinator, and shall provide written notification within five (5) working days of the test failure with a summary of the results of and any other pertinent circumstances associated with the failed test.

2. Testing Requirements due to Test Failure

Upon becoming aware of the failure of any test, the permittee shall immediately notify the DEQ Water Quality Division biomonitoring coordinator, and shall provide written notification within 5 working days, of the test failure with a summary of the results of, and any other pertinent circumstances associated with, the failed test.

Beginning with the effective date of the WET limit, as established in Part I of this permit, the following testing requirements due to acute test failure apply:

- a. When there is an acute test failure for *Pimephales promelas* during routine testing, at least three additional monthly tests for *Pimephales promelas* are required (Part II, Section F.1.c above). The additional tests shall be conducted monthly during subsequent consecutive months until there are three consecutive months of passing tests at which time the frequency of testing shall return to that stated in Part 1 of the permit. The permittee may substitute one of the monthly tests that coincides within the quarter of a routine toxicity testing.
- b. A full laboratory report for the failed routine test and all additional tests shall be provided and submitted to DEQ in accordance with the procedure outlined in Item 3.
- c. If the permittee cannot pass three tests in a row within the next six months, DEQ will review the test results and may require a Toxicity Identification Evaluation (TIE) be done to determine the cause of the toxicity. If the TIE cannot detect the problem, another Toxicity Reduction Evaluation (TRE) may be required.

3. Required Toxicity Testing Conditions

- a. Test acceptance – The permittee shall repeat a test, including the control and all effluent dilutions, if the procedures and quality assurance requirements defined in the test methods or in this permit are not satisfied, including the following additional criteria:
 - (1) The toxicity test control (0% effluent) must have survival equal to or greater than 90%.
 - (2) The percent coefficient of variation between replicates shall be 40% or less in the control (0% effluent) for the Fathead minnow survival test.
 - (3) The percent coefficient of variation between replicates shall be 40% or less in the critical dilution, unless significant toxicity is exhibited in the Fathead minnow survival test.

If the above criteria or criteria listed in Item 1.a are not met the test will be considered invalid. Test failure may not be construed or reported as invalid due to a coefficient of variation value for toxicity of greater than 40% for replicates tested at the critical dilution. A repeat test shall be

conducted and the biomonitoring enforcement coordinator notified, within the reporting period of any test determined to be invalid.

- b. The permittee shall follow the requirements listed below in determining success or failure of a WET test:

The statistical analyses in the Fathead minnow survival test, used to determine the LC_{50} shall be in accordance with the methods described in EPA-821-R-02-012, or the most recent update thereof.

- c. The permittee shall use dilution water that meets the following standards:

(1) Dilution water used in the toxicity tests will be receiving water collected as close to the point of discharge as possible but unaffected by the discharge. In OAC 252:606-6-36, for discharges to a receiving stream classified as intermittent or to a receiving stream with no flow due to zero flow, the permittee shall substitute synthetic dilution water of similar pH, hardness and alkalinity to the closest downstream perennial water where the toxicity test is conducted. In the event that the receiving stream has sufficient flow for a sample to be collected, the facility will return to receiving stream water instead of synthetic.

(2) If the receiving water is unsatisfactory as a result of instream toxicity (fails to meet the test acceptance criteria in Item 3.a), the permittee must submit the test results exhibiting receiving water toxicity with the full test report required in Item 4 below and may thereafter substitute synthetic dilution water for the receiving water in all subsequent tests, provided the unacceptable receiving water test met the following stipulations:

- (a) a synthetic dilution water control which fulfills the test acceptance requirements of Item 3.a was run concurrently with the receiving water control;
- (b) the test indicating receiving water toxicity was carried out to completion (i.e., 48 (c) the synthetic dilution water had a pH, hardness and alkalinity similar to that of the receiving water or closest downstream perennial water not adversely affected by the discharge, provided the magnitude of these parameters will not cause toxicity in the synthetic dilution water; and
- (c) the receiving water test must be conducted at the start of each permitting cycle.
- (d) the receiving water test must be conducted at the start of each permitting cycle.

- d. The permittee shall collect samples that are representative of their effluent by following the criteria listed below:

(1) Unless grab sampling is specifically authorized in Part I of the permit, the permittee shall collect two flow-weighted 24-hour composite samples representative of the flows during normal operation from the outfall(s) listed at Item 1.a above. If grab sampling is authorized, all the requirements listed below for composite sampling also pertain to grab sampling. In such cases, collection of the grab sample is considered equivalent to collection of the last portion of a composite sample. Unless otherwise specified in Part I of the permit, a 24-hour composite sample consists of a minimum of 12 effluent portions collected at equal time intervals representative of a 24-hour operating day and combined proportional to flow, or a sample continuously collected proportional to flow over a 24-hour operating day.

- (2) The permittee must collect the composite samples so that the maximum holding time for any effluent sample shall not exceed 36 hours. The permittee must initiate the toxicity test within 36 hours after the collection of the last portion of the first composite sample. The first composite sample shall be used to initiate each test. The second composite sample shall be used for 24-hour static renewal of each dilution concentration for each test. Samples shall be chilled to maintain a temperature at or below 6° C but not frozen during collection, shipping, and/or storage.
- (3) The permittee must collect the composite samples such that the effluent samples are representative of any periodic episode of chlorination, biocide usage or other potentially toxic substance discharged on an intermittent basis.
- (4) If it is anticipated that flow from the outfall being tested may cease prior to collection of the second composite sample, the permittee must ensure that the first composite sample is of sufficient volume to complete the required testing with daily renewal of effluent. The abbreviated composite sample collection duration, the static renewal protocol associated with an abbreviated sample collection, and a summary of the circumstances justifying collection of an abbreviated sample must be adequately documented in the full test report required in Item 4 below. DEQ reserves the right to require a retest and/or consider the permittee in violation of this permit if the basis offered for justification of an abbreviated sample is insufficient, flawed, or in any way reflects an effort on the part of the permittee to avoid test failure by use of an abbreviated sample.

4. Reporting

- a. The permittee shall retain each full report pursuant to the records retention provisions of Part III of this permit. The permittee shall also submit to the DEQ biomonitoring enforcement coordinator a copy of the full laboratory test reports at TX1 in accordance with the Report Preparation Section of EPA-821-R-02-012 for every valid or invalid toxicity test initiated, whether carried to completion or not, including any test which is considered invalid, is terminated early for any reason, or which indicates receiving water toxicity. The reports shall be received no later than the 15th day of the month following the end of the testing period.
- b. A valid test for *Pimephales promelas* (excluding retests) at TX1 must be reported on the DMR for each reporting period specified in Part I of this permit. DMRs must be received by the 15th day of the month following the end of the testing period. The full report for the test (see Item 3.a above) shall be submitted along with the DMR. If a test is determined to be invalid, the repeat test must be conducted in the coinciding testing period; if the first sample of the repeat test is taken after the last day of the final month in a testing period, the facility will be out of compliance with the reporting period. If monthly retesting is required as a result of a WET limit permit violation, the monthly DMR will be reported to TX1A. Quarterly testing at TX1Q shall continue; the facility may substitute a monthly test from TX1A for the quarterly report if the test falls within the testing period. If more than one valid test (excluding retests) is performed on a species during a reporting period, the permittee shall report the lowest lethal test results as the 48-hour minimum and the *P. promelas* [51714] result.
- c. If any test results in anomalous LC₅₀ findings (i.e., it indicates an interrupted dose response across the dilution series), DEQ recommends that the permittee contact the DEQ biomonitoring coordinator for a technical review of the test results prior to submitting the

full laboratory test report and DMR. A summary of all tests initiated during the reporting period, including invalid tests, repeat tests, and monthly tests, shall be attached to the reporting period DMR for DEQ review.

A test is a REPEAT test if it is performed as the result of a previously invalid test. A test is a RETEST if it is performed as the result of a previously failed test, the exception being where the test is the first (valid) test of a reporting period, in which case it is reported as such on the DMR for that period.

- (1) The reporting period test summary attached to the DMR shall be organized as follows:
 - (a) Invalid tests (basis for test invalidity must be described)
 - (b) Valid tests (other than retests) initiated during current reporting period
 - (c) Valid retests for tests failed during previous reporting period (if not submitted in the previous reporting period test summary)
 - (d) Valid retests for tests failed during current reporting period
- (2) The following information shall be listed in the reporting period test summary for each valid test in categories (b) through (d) in Item 4.b(1) above:
 - (a) Test species
 - (b) Date of test initiation at laboratory
 - (c) Results of all concurrent effluent analyses specified in Part I of this permit
 - (d) All test result parameters for the test species specified in Item 4.c below.

- d. The permittee shall report the following results for all VALID routine toxicity tests (excluding retests) on the DMR(s) for that reporting period in accordance with Item 4.b above and Part III of this permit.

Pimephales promelas (Fathead Minnow)

- (1) Parameter TIM6C: If the Fathead minnow 48-hour LC_{50} for survival is equal to or less than 100%, report a “1”; otherwise, report a “0”.
 - (2) Parameter TAM6C: Report the Fathead minnow 48-hour LC_{50} value for survival.
 - (3) Parameter TJM6C: Report the Fathead minnow 48-hour percent mortality in the 100% effluent concentration.
 - (4) Parameter 51714: Report the lowest acute LC_{50} for Fathead minnow.
- e. The permittee shall report the results for all toxicity monthly testing on the DMR(s) for the reporting period in which monthly testing is required, which shall be received no later than the 15th day of the month following the end of the monthly period. Results of all required monthly tests shall be reported under TX1A of the DMR for the reporting period (see Item 4.b above). If the permittee passes three consecutive tests in the six months after the initial

failure, the permittee will return to quarterly testing. If the permittee takes the first sample of the monthly test after the last day of the final month in the monthly period, the facility will be out of compliance with the reporting period. The full laboratory report for the WET tests (see Item 4.a above) shall be submitted along with the retest DMR. Should test failures necessitate the continuation of monthly testing into subsequent reporting periods, the results of the first test in any reporting period will be reported using the parameter STORET codes listed in Items 4.c above. If monthly testing is not required during a given reporting period, the permittee shall leave these DMR fields blank and DMR TX1A will not be activated.

- f. Whole effluent toxicity limit – The permittee shall report the lowest LC₅₀ value across these species for the 48-hour minimum under STORET No. *P. promelas* [51714] on the DMR for the reporting period in accordance with Part III of this permit.

MINIMUM QUANTIFICATION LEVELS (MQL)

<u>METALS AND CYANIDE</u>	<u>(µg/L)</u>	<u>EPA METHOD</u>
Antimony (Total) ¹	60	200.7
Arsenic (Total) ¹	0.5	206.5
		200.7 revision 4.4 (1994)
		200.8 revision 5.4 (1994)
		200.9 revision 2.2 (1994)
Beryllium (Total) ¹	5	200.7
Cadmium (Total)	1	200.7 revision 4.4 (1994)
		200.8 revision 5.4 (1994)
		200.9 revision 2.2 (1994)
Chromium (Total) ¹	10	200.7
Chromium (3+) ¹	10	200.7
Chromium (6+) ¹	10	200.7
Copper (Total)	1	200.7 revision 4.4 (1994)
		200.8 revision 5.4 (1994)
		200.9 revision 2.2 (1994)
Lead (Total)	0.5	200.7 revision 4.4 (1994)
		200.8 revision 5.4 (1994)
		200.9 revision 2.2 (1994)
Mercury (Total) ¹	0.05	245.1 revision 3.0 (1994)
Molybdenum (Total)	30	200.7
Nickel (Total) ¹ [Freshwater]	10	200.7
Nickel (Total) [Marine]	5	200.8 revision 5.4 (1994)
		200.9 revision 2.2 (1994)
Selenium (Total) ¹	5	200.7 revision 4.4 (1994)
		200.8 revision 5.4 (1994)
		200.9 revision 2.2 (1994)
Silver (Total)	0.5	200.7 revision 4.4 (1994)
		200.8 revision 5.4 (1994)
		200.9 revision 2.2 (1994)
Thallium (Total) ¹	0.5	279.2 revision
Zinc (Total) ¹	20	200.7
Cyanide (Total) ¹	10	335.4
Phenols, (Total) ¹	10	604

DIOXIN

2,3,7,8-Tetrachlorodibenzo- P-Dioxin (TCDD) ^{2,4}	0.00001	1613
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VOLATILE COMPOUNDS

Acrolein ³	50	624.1
Acrylonitrile ³	50	624.1
Benzene ³	10	624.1
Bromoform ⁴	10	624.1
Carbon Tetrachloride ⁴	10	624.1
Chlorobenzene ⁴	10	624.1

MINIMUM QUANTIFICATION LEVELS (MQL)

Chlorodibromomethane ⁴	10	624.1
Chloroethane	50	624.1
2-Chloroethylvinyl Ether ³	10	624.1
Chloroform ⁴	10	624.1
Dichlorobromomethane ⁴	10	624.1
1,1-Dichloroethane ⁴	10	624.1
1,2-Dichloroethane ⁴	10	624.1
1,1-Dichloroethylene ⁴	10	624.1
1,2-Dichloropropane ⁴	10	624.1
1,3-Dichloropropylene ⁴	10	624.1
Ethylbenzene ⁴	10	624.1
Methyl Bromide [Bromomethane]	50	624.1
Methyl Chloride [Chloromethane]	50	624.1
Methylene Chloride ⁴	20	624.1
1,1,2,2-Tetrachloroethane ⁴	10	624.1
Tetrachloroethylene ⁴	10	624.1
Toluene ⁴	10	624.1
1,2-Trans-Dichloroethylene ⁴	10	624.1
1,1,1-Trichloroethane ⁴	10	624.1
1,1,2-Trichloroethane ⁴	10	624.1
Trichloroethylene ⁴	10	624.1
Vinyl Chloride ⁴	10	624.1

ACID COMPOUNDS

2-Chlorophenol ⁴	20	625.1
2,4-Dichlorophenol ⁴	20	625.1
2,4-Dimethylphenol ¹	20	625.1
4,6-Dinitro-o-Cresol [12 methyl 4,6-dinitrophenol] ⁴	50	625.1
2,4-Dinitrophenol ⁴	50	625.1
2-Nitrophenol ⁴	20	625.1
4-Nitrophenol ⁴	50	625.1
p-Chloro-m-cresol [4 chloro-3-methylphenol] ¹	20	625.1
Pentachlorophenol ⁴	50	625.1
Phenol ⁴	20	625.1
2,4,6-Trichlorophenol ⁴	20	625.1

BASE/NEUTRAL COMPOUNDS

Acenaphthene ⁴	20	625.1
Acenaphthylene ⁴	20	625.1
Anthracene ⁴	20	625.1
Benzidine ³	50	625.1
Benzo(a)Anthracene ⁴	20	625.1
Benzo(a)Pyrene ⁴	20	625.1
3,4-Benzofluoranthene ⁴	20	625.1

MINIMUM QUANTIFICATION LEVELS (MQL)

Benzo(ghi)Perylene	20	625.1
Benzo(k)Fluoranthene ⁴	20	625.1
Bis(2-Chloroethoxy) Methane ⁴	20	625.1
Bis(2-Chloroethyl) Ether ⁴	20	625.1
Bis(2-Chloroisopropyl) Ether ⁴	20	625.1
Bis(2-Ethylhexyl) Phthalate ⁴	20	625.1
4-Bromophenyl Phenyl Ether ⁴	20	625.1
Butylbenzyl Phthalate ⁴	20	625.1
2-Chloronaphthalene ⁴	20	625.1
4-Chlorophenyl Phenyl Ether ⁴	20	625.1
Chrysene ⁴	20	625.1
Dibenzo (a,h) Anthracene	20	625.1
1,2-Dichlorobenzene ⁴	20	625.1
1,3-Dichlorobenzene ⁴	20	625.1
1,4-Dichlorobenzene ⁴	20	625.1
3,3'-Dichlorobenzidine	20	625.1
Diethyl Phthalate ⁴	20	625.1
Dimethyl Phthalate ⁴	20	625.1
Di-n-butyl Phthalate ⁴	20	625.1
2,4-Dinitrotoluene ⁴	20	625.1
2,6-Dinitrotoluene ⁴	20	625.1
Di-n-octyl Phthalate ⁴	20	625.1
1,2-Diphenylhydrazine ³	20	625.1
Fluoranthene ⁴	20	625.1
Fluorene ⁴	20	625.1
Hexachlorobenzene ⁴	10	625.1
Hexachlorobutadiene ⁴	20	625.1
Hexachlorocyclopentadiene ⁴	20	625.1
Hexachloroethane	20	625.1
Indeno (1,2,3-cd) Pyrene (2,3-o-phenylene pyrene)	20	625.1
Isophorone ⁴	20	625.1
Naphthalene ⁴	10	625.1
Nitrobenzene ⁴	20	625.1
N-nitrosodimethylamine	50	625.1
N-nitrosodi-n-propylamine	20	625.1
N-nitrosodiphenylamine	20	625.1
Phenanthrene ⁴	20	625.1
Pyrene ⁴	20	625.1
1,2,4-Trichlorobenzene ⁴	20	625.1

PESTICIDES

Aldrin ¹	0.05	608.3
Alpha-BHC ¹	0.05	608.3

MINIMUM QUANTIFICATION LEVELS (MQL)

Beta-BHC ¹	0.05	609
Gamma-BHC (Lindane) ¹	0.05	608.3
Delta-BHC ¹	0.05	608.3
Chlordane ¹	0.2	608.3
4,4'-DDT ¹	0.05	608.3
4,4'-DDE (p,p-DDX) ¹	0.05	608.3
4,4'-DDD (p,p-TDE) ¹	0.05	608.3
Dieldrin ¹	0.05	608.3
Alpha-endosulfan ¹	0.05	608.3
Beta-endosulfan ¹	0.05	608.3
Endosulfan sulfate ¹	0.05	608.3
Endrin ¹	0.05	608.3
Endrin aldehyde ¹	0.05	608.3
Heptachlor ¹	0.05	608.3
Heptachlor epoxide ¹	0.05	608.3
(BHC-hexachlorocyclohexane)		
PCB-1242 ¹	0.25	608.3
PCB-1254	0.25	608.3
PCB-1221	0.25	608.3
PCB-1232	0.25	608.3
PCB-1248	0.25	608.3
PCB-1260	0.25	609
PCB-1016	0.25	608.3
PCB, total	0.25	608.3
Toxaphene ¹	0.3	608.3

¹ Based on Contract Required Quantitation Level (CRQL) developed pursuant to 40 CFR Part 122

² Dioxin National Strategy

³ No CRQL ("Contract Required Quantification Level" developed pursuant to 40 CFR Part 122)

⁴ CRQL basis, equivalent to MQL

Note: MQL is based on 3.3 times the Limit of Detection (LOD) or the Method Detection Level (MDL).

Methods/MQL List modified 6/20/08

FACT SHEET

FOR THE DRAFT AUTHORIZATION TO DISCHARGE TO WATERS OF THE UNITED STATES UNDER THE OKLAHOMA POLLUTANT DISCHARGE ELIMINATION SYSTEM.

OPDES Permit Number: OK0037401

Facility ID Number: S20403

Applicant: Jenks Public Works Authority
P.O. Box 2007
Jenks, OK 74037

Issuing Office: Oklahoma Department of Environmental Quality
Water Quality Division
707 North Robinson Ave.
P.O. Box 1677
Oklahoma City, OK 73101-1677

Prepared By: Karen Milford, P.E.
Municipal Discharge and Stormwater Permits Section
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Date Prepared: July 18, 2024

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Municipal Discharge and Stormwater Permits Section
Water Quality Division

Patrick Rosch, P.E., Manager
Municipal Wastewater Group
Water Quality Division

In accordance with 40 CFR § 124.8 and 124.56, this fact sheet describes the applicant's facility operation and sets forth the principal facts and the significant factual, legal, methodological, and policy questions considered in preparing the draft permit. Also set forth are any calculations or other necessary explanations of the derivation of specific effluent limitations and conditions or standards for sewage sludge use or disposal, including a citation to the applicable performance standard, or standard for sewage sludge use or disposal as required by 40 CFR § 122.44. In accordance with 40 CFR § 122.44(l), proposed permit limits for reissued permits are based on the more stringent of applicable technology-based limitations, applicable water quality-based limitations, or limitations in the previous permit.

Citations to 40 CFR refer to promulgated regulations listed at Title 40 of the Code of Federal Regulations. Citations to OAC 252 refer to promulgated regulations listed at Titles 252, Oklahoma Administrative Code.

I. PERMITTING BACKGROUND

A. CHRONOLOGY OF PERMITTING ACTIVITIES

The following is a chronology of permitting activities since issuance of the previous Oklahoma Pollutant Discharge Elimination System (OPDES) permit:

June 5, 2025:	Public Notice of Draft published by facility.
May 16, 2025:	Public Notice of Draft published by DEQ.
May 9, 2025:	Draft permit package sent to applicant for public notice.
April 8, 2025:	EPA no objection letter received.
March 12, 2025:	Draft permit package sent to EPA for review.
April 12, 2025:	Draft permit package sent to applicant for courtesy review.
November 30, 2024:	Scheduled expiration of previous OPDES permit; permit administratively continued.
November 11, 2024:	Additional analytical information received from applicant.
September 26, 2024:	Additional analytical information received from applicant.
August 30, 2024:	Request for additional analytical information sent to applicant.
August 21, 2024:	Administrative review of permit application completed.
August 19, 2024:	Additional information received from applicant.
June 6, 2024:	Certification of public notice of filing of application received.
May 22, 2024:	Site visit conducted.
May 16, 2024:	Notice of incomplete application sent to applicant.
May 3, 2024:	OPDES permit application (Form 2M1) received.
November 8, 2019:	Previous OPDES permit issued.

B. PROPOSED PERMITTING ACTION

It is proposed that permit number OK0037401, which was effective December 1, 2019, and for which application for renewal was timely submitted (>180 prior to permit expiration), be reissued for a five-year term in accordance with regulations promulgated at 40 CFR § 122.46(a) and OAC 252:606-1-3(b).

II. APPLICANT ACTIVITY

A. DESCRIPTION AND LOCATION OF FACILITY

The Jenks Wastewater Treatment Facility (WWTF), owned and operated by the Jenks Public Works Authority, is located in the NW¼, NW¼, NW¼ of Section 4, Township 17 North, Range 13 East, Indian Meridian (IM), Tulsa County, Oklahoma or at 12301 S. Florence Ave., Jenks, OK 74037. Under the Standard Industrial Classification (SIC) Code 4952 or North American Industry Classification System (NAICS) Code 221320, this facility provides biological treatment of domestic sewage for the City of Jenks, with a population of approximately 27,553.

B. WASTEWATER GENERATION AND TREATMENT**1. Treatment Plant****a. Wastewater**

The facility's design average daily flow of 2.0 million gallons per day (mgd) is the same design average daily flow specified in Oklahoma's Water Quality Management Plan (WQMP). The treatment of the waste stream into this Publicly Owned Treatment Works (POTW) facility, which is comprised primarily of domestic sewage, is by an activated sludge system with two oxidation ditches, four secondary clarifiers, and an ultraviolet (UV) radiation disinfection system. Effluent flow measurement is accomplished by a flow meter positioned just upstream from Outfall 001.

b. Biosolids/Sludge

Aerobic digestion is utilized to reduce pathogens and the volatile solids content of the sewage sludge produced from the activated sludge process. The sludge is then thickened, dewatered with mixed polymer, and dried on drying beds. After drying, the processed sludge is transported to American Environmental Landfill (Landfill Permit Number 3557021), located in the S½ of Section 36, Township 20 North, Range 10 East, I.M., Osage County, in accordance with Sludge Management Plan (SMP) No. 3572042, approved by the Oklahoma State Department of Health, the predecessor agency of DEQ on April 26, 1989, and amended with SMP No. 3572036, approved by DEQ on May 15, 2007.

2. Industrial Contributions

The facility does not receive industrial wastewaters.

3. Reclaimed Water for Water Reuse

The facility does not supply reclaimed water for water reuse.

III. DISCHARGE INFORMATION**A. DISCHARGE LOCATION**

Outfall 001 is a bankside discharge from a 24" diameter pipe through a concrete headwall into a perennial stream. The physical location of the outfall and the point designated for sampling are shown in the table below.

Sampling Point and Outfall Location

	Location				Receiving Stream
	General Location	Legal Description	Latitude	Longitude	
Outfall 001 (physical location)	Approximately 320 feet Northeast of the UV system	NW¼, NW¼, NW¼ Section 4, Township 17 N, Range 13 E, IM Tulsa County, OK	35° 59' 15.527" N (GPS: NAD83 ^a)	95° 56' 16.940" W (GPS: NAD83 ^a)	Arkansas River
Sampling point	At the end of the UV system	NW¼, NW¼, NW¼, Section 4, Township 17 N, Range 13 E, IM Mayes County, OK	35° 59' 13.449" N (GPS: NAD83 ^a)	95° 56' 20.251" W (GPS: NAD83 ^a)	---

^a The North American Datum of 1983 or NAD83.

B. DISCHARGE CHARACTERISTICS

1. Priority and Other Pollutants

Data for priority and other pollutants present in the facility's effluent at measurable levels is summarized in the following table:

Priority and Other Pollutants (Outfall 001)
(Concentration in µg/L, unless otherwise specified)

Effluent Characteristic	Number of Samples (N)	MQL ^a	Concentration	
			Average	Maximum
Arsenic, total	1	0.5	0.6	0.6
Zinc, total	1	20.0	36.9	36.9
Copper, total	1	1.0	4.0	4.0
Chloride, in mg/L	1	10.0	70.0	70.0
Sulfate, in mg/L	1	10.0	62.2	62.2
Total Dissolved Solids (TDS)	1	10.0	430.0	430.0

^a Minimum Quantification Level (MQL) is the lowest concentration at which a particular substance can be quantitatively measured, in accordance with Appendix H of OAC 252:606.

2. Biomonitoring Summary

A summary of biomonitoring or whole effluent toxicity (WET) testing data is provided in Section V.D.1.f(2).

IV. TECHNOLOGY-BASED EFFLUENT LIMITATIONS AND CONDITIONS

POTWs treating domestic sewage are required by 40 CFR Part 133 to provide secondary or secondary-equivalent treatment. The Oklahoma definition of secondary treatment, which sets minimum requirements for developing wasteload allocations for municipalities in the Oklahoma's Water Quality Management Plan (WQMP), is defined at OAC 252:606-5-2(2). The definitions are dependent on the type of treatment system and whether the receiving stream flow is perennial or intermittent. Since the Jenks WWTF is a mechanical facility discharging to a perennial stream, secondary treatment is defined according to OAC 252:606-5-2(2)(D) as indicated below:

Mechanical – Perennial

5-day Biochemical Oxygen Demand (BOD₅)

A monthly average effluent concentration of 30 mg/L

A weekly average effluent concentration of 45 mg/L

Total Suspended Solids (TSS)

A monthly average effluent concentration of 30 mg/L

A weekly average effluent concentration of 45 mg/L

pH

A pH range between 6.5 and 9.0 standard units, inclusive.

For an influent waste stream composed primarily of domestic sewage, compliance with the 85% minimum monthly average percent removal criteria for BOD₅/CBOD₅ and TSS is implied if the effluent is in compliance with the concentration standards for secondary treatment.

V. WATER QUALITY-BASED EFFLUENT LIMITATIONS AND CONDITIONS

A. GENERAL

Section 101 of the Clean Water Act (CWA) states that "... it is the national policy that the discharge of toxic pollutants in toxic amounts be prohibited..." A permit containing technology-based permit limitations alone may not adequately protect the quality of a specific receiving stream. Thus, additional water quality-based effluent limitations and/or conditions are considered in the draft permit using narrative and numerical standards contained in the Oklahoma Water Quality Standards (OWQS), as amended (OAC 252:730), and implementation criteria contained in OAC 252:606 and OAC 252:740, promulgated by DEQ, respectively. This is to ensure that no point-source discharge results in instream aquatic toxicity, a violation of applicable narrative or numerical State water quality standards, or aquatic bioaccumulation which threatens human health.

B. RECEIVING STREAM DESIGNATED USES AND ANTIDegradation PROVISIONS

The facility discharges through Outfall 001 into the Arkansas River, waterbody identification (WBID) OK120420010010_00 in the segment 120420 of the Middle Arkansas River Basin. As designated in Appendix A of the OWQS, the designated beneficial uses of the Arkansas River of this stream segment are:

- Emergency Public and Private Water Supplies (OAC 252:730-5-11)
- Fish and Wildlife Propagation (OAC 252:730-12) Warm Water Aquatic Community
- Agriculture (OAC 252:730-13)
- Primary Body Contact Recreation (OAC 252:730-5-16)
- Navigation (OAC 252:730-18)
- Aesthetics (OAC 252:730-5-19)
- Fish Consumption (OAC 252:730-5-20)

The Arkansas River is not designated as an Outstanding Resource Water (ORW), High Quality Water (HQW), or Sensitive Water Supply (SWS) in Appendix A of the OWQS. Neither is it designated in Table 1 of Appendix B of the OWQS as an area of ecological and/or recreational significance or in Table 2 of Appendix B as an area containing federally-listed endangered species.

C. WATER QUALITY STANDARDS IMPLEMENTATION

1. Water Quality Standards Implementation Process

To achieve the objectives stated in Section V.A above, each pollutant present at measurable levels in the facility's effluent, for which there are one or more applicable numerical water quality criteria, is screened against the applicable criteria to determine whether the pollutant has reasonable potential to exceed any of the criteria. The screens are performed in accordance with the OWQS, OWQS implementation criteria in OAC 252:606 and OAC 252:740, and the Continuing Planning Process (CPP) document. In the reasonable potential screening process, the 95th percentile effluent concentration, or estimate thereof if the effluent data set is not sufficiently large to determine it directly, is used to compute an instream concentration according to the regulatory mixing zone equations defined in OAC 252:740. The computed instream concentrations are then compared with the applicable criteria to determine whether reasonable potential is exhibited. If reasonable potential is exhibited, in accordance with 40 CFR § 122.44(d)(1)(vi) and OAC 252:606, a wasteload allocation and criterion long term average is computed for each applicable criterion. Water

quality-based permit limitations are calculated for each pollutant exhibiting reasonable potential for all applicable criteria. The most stringent of the resulting monthly average permit limitations is established in the draft permit for each pollutant requiring such limitations.

2. Summary of Regulatory Parameters

Regulatory receiving water flows are established in OAC 252:740. Effluent regulatory flows, as well as regulatory effluent and background pollutant concentrations are established in OAC 252:606, Subchapter 6. Definitions and values for these terms are as follows:

a. Effluent and Upstream Receiving Water Regulatory Flows

- $Q_{e(D)}$ POTW design average flow rate. The flow rate used must be consistent with that in the WQMP. The design average flow rate specified in the permit application and the approved design flow for this facility in the WQMP is 2.0 mgd.
- $Q_{u(7Q2)}$ Upstream 7Q2 flow rate. This is the annual 7-day, 2-year low flow of the receiving stream. Where flow data published in the United States Geological Survey (USGS) publication, Statistical Summaries of Streamflow in and near Oklahoma Through 2007 by John M. Lewis and Rachel A. Esralew (<http://pubs.usgs.gov/sir/2009/5135/>), is available, minor adjustments for known upstream or downstream perennial flows, as appropriate, may be utilized to estimate the 7Q2 for a specific location upstream or downstream of the USGS gaging station. If streamflow is intermittent or USGS 7Q2 data is not available or the applicant has not developed a site-specific 7Q2, a default value of 1 cubic feet per second (cfs) or 0.6463 mgd is assumed.
- $Q_{u(LTA)}$ Upstream long-term average (LTA) flow rate. This is the mean annual flow of the receiving stream. Where flow data published in the USGS publication, Statistical Summaries of Streamflow in and near Oklahoma Through 2007 by John M. Lewis and Rachel A. Esralew (<http://pubs.usgs.gov/sir/2009/5135/>), is available, minor adjustments for known upstream or downstream perennial flows, as appropriate, may be utilized to estimate the mean annual flow for a specific location upstream or downstream of the USGS gaging station. If published mean annual flow data is not available, it may be approximated by multiplying the receiving water's drainage area at the point of discharge by the mean annual runoff per unit area published in the CPP.
- $Q_{u(STA)}$ Upstream short-term average (STA) flow rate. This flow rate, used only in the sample standard (SS) agriculture screen, is a function of $Q_{u(LTA)}$. The equation is $Q_{u(STA)} = 0.68 \times Q_{u(LTA)}$.

Upstream flows for this facility are based on published data for USGS gaging station 07164500, located on Arkansas River, and approximately 12 miles upstream of the facility's point of discharge (POD). There are no significant perennial flows between the gaging station and the POD. Thus, no adjustment in $Q_{u(7Q2)}$ is necessary

This draft permit does not include discharges from the following outfalls in calculating $Q_{u(LTA)}$: Anchor Stone Co. – Delaware Sand (OK0042404), Public Service Co. – Riverside (OK002429), Anchor Stone Co. – Jenks South Sand Plant (OK0045993), Anchor Stone Co. – Jenks Sand Plant (OK0044547), and Public Service Co. – Tulsa Power Station (OK0000108). These facilities were listed in the previous permit. However, the discharges from these facilities are considered insignificant compared to the upstream flow $Q_{u(LTA)}$ at the gaging station 07164500 and are therefore not included in the $Q_{u(LTA)}$ calculation for upstream flow.

As shown in the following table, $Q_{u(LTA)}$ is adjusted from the gaging station to the POD by multiplying the mean annual runoff per unit area (0.50 cfs/mi^2 or 0.323 mgd/mi^2) by the stream's drainage area between the gaging station and the POD (432 mi^2), and adding that value and the Jenks WWTF's design flow discharge from the gaging station's mean annual flow.

Upstream Regulatory Flows
(Stream flow in mgd)

Stream Flow	$Q_{u(7Q2)}$	$Q_{u(LTA)}$	$Q_{u(STA)}^a$
Arkansas River at Gaging Station 07164500, approximately 12 miles upstream of the facility's POD	513.2	4905.4	---
Plus mean annual runoff for portion of Arkansas River drainage basin between gaging station and POD	---	$0.323 \times 432 = 139.5$	---
Upstream flow at POD	513.2	5044.9	3431.0

^a $Q_{u(STA)} = 0.68 \times Q_{u(LTA)}$

b. Dilution Ratios (Q^*)

Q^* Ratio of effluent flow to stream flow, also known as dilution capacity. The Q^* ratios for municipal discharges, as well as their values, are defined in the following table:

Q^* Values (Outfall 001)

Q* Ratio	Corresponding Water Quality Screens	Implementation Reference	Value
Q _{e(D)} / Q _{u(7Q2)}	Type of WET Testing	OAC 252:606-6-31	0.00390
	Chronic Toxicity	OAC 252:606-6-53(1)(B)	
Q _{e(D)} / Q _{u(LTA)}	Human Health/Fish Flesh	OAC 252:606-6-66(2)	0.00040
	Human Health/Fish Flesh and Water	OAC 252:606-6-73(2)	
	Raw Water		
	Agriculture/Yearly Mean Standard	OAC 252:606-6-81(1)(B)	
Q _{e(D)} / Q _{u(STA)}	Agriculture/Sample Standard	OAC 252:606-6-81(2)(B)	0.00058

c. Characterization of Pollutant Effluent Concentrations

For purposes of determining whether water quality-based effluent limitations are required, one of two methods for determining C_{95} is employed, depending on the size of the effluent data set (i.e., number of data points).

C_{95} 95th percentile maximum likelihood effluent concentration for purposes of determining whether effluent limitations are required.

Method 1:

In accordance with OAC 252:606-6-4, at least 10 data points are required to calculate the standard deviation, and in accordance with OAC 252:606-6-8(a), if at least 10 data points are available, C_{95} is calculated directly from the effluent data set, assuming a log-normal distribution, according to the following equation:

$$C_{95} = \text{EXP}(\ln(x)_{\text{avg}} + 1.645 \times s_{\ln(x)})$$

$$\text{where } \ln(x)_{\text{avg}} = \frac{\left(\sum_{i=1}^N \ln(x_i) \right)}{N} \text{ and } s_{\ln(x)} = \sqrt{\frac{N \sum_{i=1}^N (\ln(x_i))^2 - \left(\sum_{i=1}^N \ln(x_i) \right)^2}{N(N-1)}}.$$

In the above equations, $\ln(x)_{\text{avg}}$ represents the arithmetic average of the set of log-transformed data points, and $s_{\ln(x)}$ represents the standard deviation of the set of log-transformed data points.

In accordance with OAC 252:606-6-2(1), Robust Regression on Order Statistics (ROS) will be used to estimate the unmeasurable quantities if the data set has at least three measurable data points. However, if the data set has fewer than three measurable data points, Robust ROS will not be used and DEQ will use ½ of the MQL to estimate the unmeasurable quantities.

Method 2:

In accordance with OAC 252:606-6-8(a), if less than 10 effluent data points are available; C_{95} must be estimated from the mean effluent concentration, as follows:

$$C_{95} = C_{\text{mean}} \times 2.135, \text{ where } C_{\text{mean}} \text{ is calculated as the geometric mean.}$$

In accordance with OAC 252:606-6-2(1), the DEQ will use ½ of the MQL to estimate the unmeasurable quantities for the calculation of C_{mean} .

In accordance with OAC 252:606-6-5, if the geometric mean is not available or cannot be determined, the arithmetic mean may be used in the above equation.

$C_{95(M)}$ 95th percentile maximum likelihood effluent concentration for purposes of determining whether additional effluent monitoring is required.

In accordance with OAC 252:606-6-90, where the effluent data set is comprised of fewer than 10 data points, a determination of whether further effluent monitoring of a pollutant is warranted in the absence of a requirement for effluent limitations by using the "TSD method." The TSD method is based on the methodology in Section 3.3.2 of Technical Support Document for Water Quality-Based Toxics Control, EPA/505/2-90-001. The 95th percentile effluent concentration calculated using the TSD method is referred to as $C_{95(M)}$.

$C_{95(M)}$ is calculated according to the following equation:

$$C_{95(M)} = C_{\text{max}} \times \text{RPF}_{95(M)}$$

$\text{RPF}_{95(M)}$ is calculated, assuming a log-normal distribution, according to the following equation:

$$RPF_{95(M)} = \frac{\text{EXP} \left(1.645 \sqrt{\ln(1 + CV^2)} - 0.5 \ln(1 + CV^2) \right)}{\text{EXP} \left(z_N \sqrt{\ln(1 + CV^2)} - 0.5 \ln(1 + CV^2) \right)}$$

where z_N is the upper k^{th} percentile of the normal distribution, $k = 0.05^{1/N}$ (for the 95% confidence level), and coefficient of variance (CV) is assumed to equal 0.6.

The values of z_N and the resulting value of $RPF_{95(M)}$ for values of N from 1 to 9 are shown in the following table:

N	1	2	3	4	5	6	7	8	9
z_N	-1.645	-0.760	-0.336	-0.068	0.124	0.272	0.390	0.489	0.574
$RPF_{95(M)}$	6.199	3.795	3.000	2.585	2.324	2.141	2.006	1.898	1.811

CV

Relative variability of a data set. In accordance with OAC 252:606-6-7, CV is defined as the standard deviation of a data set divided by its arithmetic average. Where at least 10 effluent data points are available, CV may be determined according to the following equation.

$$CV = \frac{S_x}{C_{\text{avg}}}$$

Where fewer than 10 data points are available, a default CV value of 0.6 is assumed.

Values of C_{95} , $C_{95(M)}$, and CV are summarized for quantifiable pollutants with applicable water quality criteria in the following table:

C_{mean} , C_{max} , C_{95} , $C_{95(M)}$, and CV Values for Quantifiable Pollutants (Outfall 001) (Concentrations in $\mu\text{g/L}$, unless otherwise specified)

Effluent Characteristic	No. of Data Points (N)	MQL	Concentration				CV ^a
			C_{mean}	C_{95}	C_{max}	$C_{95(M)}$	
Arsenic, total	1	0.5	0.6	1.28	0.6	3.72	---
Copper, total	1	1	4	8.54	4	24.8	---
Zinc, total	1	20	36.9	78.78	36.9	228.74	---
Chloride (mg/L)	1	10	70	149.45	70	433.93	---
Sulfate (mg/L)	1	10	62.2	132.8	62.2	385.58	---
TDS (mg/L)	1	10	430	918.05	430	2,665.57	---

^a A coefficient of variation (CV) is calculated only where an effluent data set consists of at least ten data points, of which at least three must be measurable. A CV value of 0.6 is assumed where a data set is of insufficient size to calculate a CV directly (see OAC 252:606-6-7).

d. Pollutant Background Concentrations

C_b Upstream or background concentration of a pollutant. Site specific data is used where available. Where such data is not available, and in streams where the 7Q2 = 0 in the absence of known upstream toxicants, background concentrations are assumed to be zero. For the agriculture screens, C_b is computed using the segment average YMS and SS values for the receiving stream segment published in Appendix F to OAC 252:730 according to the following equation: $C_b = 2 \times YMS - SS$. Background levels are described in the following table:

Background Concentrations of Pollutants Present in Effluent (Outfall 001)
(Concentration in µg/L, unless otherwise specified)

Pollutant	No. of Data Points(N)	Background Concentration (C _b)	Data Source
Arsenic, total	---	Assumed zero ^a	---
Copper, total	---	Assumed zero ^a	---
Zinc, total	---	Assumed zero ^a	---
Chloride (mg/L)	---	513	Calculated ^b
Sulfate (mg/L)	---	116	Calculated ^b
TDS (mg/L)	---	1,124	Calculated ^b

^a No background data available. Background level is assumed to be zero in accordance with OAC 252:606-6-11(c).

^b Since no site-specific background data is available, background is calculated from segment - averaged YMS and SS criteria in accordance with OAC 252:606-6-16(a). For chloride, $C_b = 2 \times 719 - 925 = 513$ mg/L. For sulfate, $C_b = 2 \times 147 - 178 = 116$ mg/L. For TDS, $C_b = 2 \times 1,496 - 1,868 = 1,124$ mg/L

e. Other Applicable Terminology

C_{crit} Numerical water quality criterion for a specific pollutant. For some pollutants, aquatic toxicity criteria are pH- or hardness-dependent. In such cases, in accordance with OAC 252:740-5-4, site-specific pH or hardness data, if available, may be used. If site-specific pH or hardness data is not available, the segment averaged pH or hardness from OAC 252:740, Appendix B, is used. Where a specific pollutant screen exhibits reasonable potential, C_{crit} is used to calculate the wasteload allocation (WLA). Criteria applicable to Outfall 001 are as follows:

Fish and wildlife propagation (F&WP/WWAC) use

C_A: Acute toxicity criterion
C_C: Chronic toxicity criterion

Fish consumption use

C_{FF}: Human health criterion for the consumption of fish flesh

Agriculture use

C_{YMS}: Yearly mean standard
C_{SS}: Sample standard

C_a Instream concentration of a specific pollutant, according to the appropriate mixing equation.

D. WATER QUALITY-BASED REQUIREMENTS

1. Criteria for Protection of the Fish and Wildlife Propagation Use

a. DO and DO-Demanding Substances (Outfall 001)

OAC 252:730-5-12(f)(1) requires that where dissolved oxygen (DO)-demanding substances are present in an effluent at significant levels, a WLA must be established according to certain seasonal criteria dependent on the receiving water's aquatic community subcategory. A model was run which indicated that secondary treatment standards are sufficient to maintain water quality standards. The approved WLA for DO-demanding substances for this facility at a design average flow of 2.0 mgd is shown in the following table:

DO-Based WLA (Outfall 001)
(Concentration in mg/L, unless otherwise specified)

Season	Level of Treatment	WLA Parameters			
		BOD ₅	TSS	NH ₃ -N	DO
Year round	Secondary	30.0	30.0	---	---

For purposes of establishing permit limitations for DO-demanding substances, the seasonal monthly average limit in the draft permit for each effluent characteristic is set equal to the corresponding WLA concentration shown in the table. The corresponding weekly average limit is set equal to 1.5 times the seasonal WLA concentration in accordance with 40 CFR § 122.45(d)(2).

b. pH (Outfall 001)

OAC 252:730-5-12(f)(3) states, "pH values shall be between 6.5 and 9.0 in waters designated for fish and wildlife propagation; unless pH values outside that range are due to natural conditions." This pH range is established in the draft permit.

c. Oil and Grease (Outfall 001)

In accordance with OAC 252:730-5-12(f)(4), a narrative condition prohibiting the discharge of any visible sheen or globules of oil or grease or in quantities that adhere to stream banks and coat bottoms of water courses or which cause deleterious effects to the biota will be included in the draft permit.

d. Toxicity from Halogenated Oxidants (Outfall 001)

This facility uses an ultraviolet (UV) light system for disinfection rather than halogens. Therefore, a halogen limit is not required.

e. Ammonia Toxicity (Outfall 001)

(1) Criterion and Implementation

Interim implementation for controlling ammonia toxicity is described in OAC 252:606 and OAC 252:740. OAC 252:740-5-3(b)(3) states "For regulatory purposes, there is a reasonable potential for chronic toxicity if concentrations of ammonia outside the chronic regulatory mixing zone exceed 6 mg/L." For POTWs, OAC 252:606-3-20 through 3-23 requires that where seasonal DO-based monthly average ammonia limits are established, those limits must be compared with

toxicity-based monthly average ammonia limits determined using the interim 6 mg/L chronic toxicity criterion, the conservative substance mixing zone equations for chronic toxicity, and a monitoring frequency of 3 per week.

(2) Determination of Toxicity-Based Limits

Toxicity-based ammonia limitation implementation discussed above relates to the control of chronic toxicity outside the chronic mixing zone. Since Q^* for this application is 0.0039, chronic toxicity is not applicable to the discharge from this facility, in accordance with OAC 252:606-6-31.

(3) Ammonia Monitoring

The previous permit has concurrent testing required for ammonia on all composite samples collected for WET testing of the fathead minnow species. This concurrent testing requirement for ammonia will be carried over to this draft permit.

f. Whole Effluent Toxicity (Outfall 001)

(1) Criterion and Implementation

Whole effluent toxicity (WET) testing is the most direct measure of potential aquatic toxicity, since it incorporates the effects of synergism of effluent components and receiving stream water quality characteristics. OAC 252:730-5-12(f)(6)(A) states, "Surface waters of the state shall not exhibit acute toxicity and shall not exhibit chronic toxicity outside the chronic regulatory mixing zone. Acute test failure and chronic test failure shall be used to determine discharger compliance with these narrative aquatic life toxics criteria." This narrative toxicity criterion is implemented according to procedures described at OAC 252:740, Subchapter 3, OAC 252:606-6-17 through 6-43, and Chapter 3 of the CPP.

Two types of WET tests are used to implement the narrative toxicity criterion. The 48-hour acute test is used to protect against acute toxicity, and the 7-day chronic test is used to protect against chronic toxicity outside the chronic regulatory mixing zone. Two test species are used. The vertebrate species is *Pimephales promelas* (fathead minnow), and the invertebrate species is *Daphnia pulex* (*D. pulex* for acute testing) or *Ceriodaphnia dubia* (*C. dubia* for chronic testing).

(2) WET Testing Historical Summary

The previous permit required acute WET testing for *Daphnia pulex* and a WET limit for fathead minnow species on a quarterly basis. The previous permit used a 7Q2 flow of only 513.2 mgd for the Arkansas River immediately upstream of the Jenks's facility, which resulted in a Q^* value < 0.054. The critical dilution was 100% and a 0.75 dilution series was used. In the following summary table, where a test failed, or would have failed under current test failure criteria, the interpolated LC_{50} concentrations (LC_{50} is defined as the concentration of the effluent that is lethal to 50% of the test species) are shown **underlined in bold face**.

Summary of Acute WET Test Results by Species
(December 1, 2019 through November 30, 2024)

<i>Daphnia Pulex</i>			<i>Pimephales Promelas (Fathead Minnows)</i>		
Date	LC ₅₀	Wet Limit 22414	Date	LC ₅₀	Wet Limit 22414 ^a
12/1/19 to 2/29/20	>100%	N/A	12/1/19 to 2/29/20	>100%	>100%
3/1/20 to 5/31/20	>100%	N/A	3/1/20 to 5/31/20	>100%	>100%
6/1/20 to 8/31/20	>100%	N/A	6/1/20 to 8/31/20	>100%	>100%
9/1/20 to 11/30/20	>100%	N/A	9/1/20 to 11/30/20	>100%	>100%
12/1/20 to 2/28/21	>100%	N/A	12/1/20 to 2/28/21	>100%	>100%
3/1/21 to 5/31/21	>100%	N/A	3/1/21 to 5/31/21	>100%	>100%
6/1/21 to 8/31/21	>100%	N/A	6/1/21 to 8/31/21	>100%	>100%
9/1/21 to 11/30/21	>100%	N/A	9/1/21 to 11/30/21	>100%	>100%
12/1/21 to 2/28/22	>100%	N/A	12/1/21 to 2/28/22	>100%	>100%
3/1/22 to 5/31/22	>100%	N/A	3/1/22 to 5/31/22	>100%	>100%
6/1/22 to 8/31/22	>100%	N/A	6/1/22 to 8/31/22	>100%	>100%
9/1/22 to 11/30/22	>100%	N/A	9/1/22 to 11/30/22	>100%	>100%
12/1/22 to 2/28/23	>100%	N/A	12/1/22 to 2/28/23	>100%	>100%
3/1/23 to 5/31/23	>100%	N/A	3/1/23 to 5/31/23	>100%	>100%
6/1/23 to 8/31/23	>100%	N/A	6/1/23 to 8/31/23	>100%	>100%
9/1/23 to 11/30/23	>100%	N/A	9/1/23 to 11/30/23 ^b	71.87%	71.87%
---	---	---	October	>100%	>100%
---	---	---	November	>100%	>100%
---	---	---	December	>100%	>100%
12/1/23 to 2/28/24	>100%	N/A	12/1/23 to 2/28/24	>100%	>100%
3/1/24 to 5/31/24	>100%	N/A	3/1/24 to 5/31/24	>100%	>100%
6/1/24 to 8/31/24	>100%	N/A	6/1/24 to 8/31/24	>100%	>100%

^a There was a WET limit (22414) for fathead minnows during this permit cycle.

^b The failed test in 9/23 – 11/23 was due to high ammonia levels.

(3) Reasonable Potential

(a) Criteria for Reasonable Potential

According to 40 CFR § 122.44(d)(1)(v), when the permitting authority determines that a discharge causes, has the reasonable potential (RP) to cause, or contributes to an in-stream excursion above a narrative criterion within an applicable State water quality standard for whole effluent toxicity, the permit must contain effluent limits for whole effluent toxicity.

In accordance with the narrative criteria established in OAC 252:740-3-5 and cited by reference in OAC 252:606-6-18, RP exists whenever persistent lethality is demonstrated. In addition, the OAC 252:740-3-4 states that the permitting authority may deem RP to be demonstrated whenever intermittent toxicity or persistent toxicity occurs. Persistent toxicity (lethality and/or sublethality) is defined in OAC 252:606-1-2 as repeat failure (failure of the routine test plus one of the two monthly retests) of an acute or chronic WET test and

intermittent toxicity is defined as two or more lethal or sublethal effect test failures of a routine acute or chronic WET test within any 18-month period. OAC 252:606-6-19(a) requires a toxicity reduction evaluation (TRE) when persistent toxicity is demonstrated. In accordance with OAC 252:606-6-19(b) the effective date of a WET limit for the affected species may be deferred up to three years from the effective date of the permit.

(b) Application of Criteria to the Draft Permit and Permitting Actions

As shown in the summary of WET testing above, there was one (1) acute test failure for *Pimephales promelas* (fathead minnow) that occurred from September to November 2023. However, the results of the three consecutive monthly retests in October to December 2023 for *Pimephales promelas* (fathead minnow) demonstrated compliance with the LC₅₀ WET limit. Therefore, the draft permit will continue quarterly WET limits for *Pimephales promelas* (Fathead minnow) with concurrent testing for ammonia and pH.

The facility had no lethal or sublethal test failures for *Daphnia pulex* during the previous permit cycle. Therefore, no RP to *Daphnia pulex* is demonstrated and no further action is required for this species. The previous permit had biomonitoring for *Daphnia pulex* and this quarterly biomonitoring will be continued in the draft permit.

(4) Whole Effluent Toxicity Testing Requirements

(a) Type of WET Testing Required

In accordance with OAC 252:606-6-31, the type of WET test(s) required is based on the value of Q^* , as follows:

Where $Q^* < 0.054$, acute testing only is required.

Where $Q^* > 0.3333$, chronic testing only is required.

Where $0.054 \leq Q^* \leq 0.3333$, both acute and chronic testing are required.

Since Q^* is 0.0039, acute testing only is required.

(b) Critical Dilutions

Since Q^* for this application is < 0.054 acute testing only is required and in accordance with OAC 252:606-6-35, the acute critical dilution (ACD) is 100%.

(c) Dilution Series

A 0.75 dilution series is used for all WET testing. Where it is practical to do so, the critical dilution is bracketed. The purpose of doing so is to evaluate dose response both above and below the critical dilution. For critical dilutions between 76% and 95%, OAC 252:606, Appendix D, Table D-2, requires that a 100% effluent dilution be added to the dilution series to bracket the critical dilution. In accordance with OAC 252:606-6-33, the dilution series for each type test are as follows (critical dilutions are shown **underlined in bold face**):

Acute test: **100%**, 75%, 56%, 42%, and 32%, plus a dilution water control.

(d) Frequency of WET Testing

Since there is no failure of *Daphnia pulex* during the previous permitting cycle, the DEQ has established a WET testing trial period of one year for *Daphnia pulex*. After completion of the stated trial period, the permittee may request for a reduction in the frequency of WET testing for *Daphnia pulex* in accordance with OAC 252:606-6-42(2).

The draft permit will not allow any reduction in frequency of WET testing for the fathead minnow species due to the established WET limit, in accordance with OAC 252:606-6-42(4).

(e) Concurrent Testing Requirements

In accordance with OAC 252:606-6-25, the draft permit will include a provision for concurrent testing of ammonia and pH on all composite samples collected for WET testing of the Fathead minnow species. The draft permit will not specify any concurrent testing requirements for *Daphnia pulex* testing.

2. Aquatic Toxicity, Human Health and Raw Water Criteria for Toxic Substances for Protection of the Fish and Wildlife Propagation, Fish Consumption and Public and Private Water Supply Uses

a. Criteria and Implementation

(1) Aquatic Toxicity – Fish and Wildlife Propagation Use (Outfall 001)

Acute and chronic aquatic toxicity numerical criteria are specified at OAC 252:730-5-12(f)(6)(G) and are implemented according to procedures in OAC 252:740, Subchapter 5, OAC. 252:606-6-51 through 6-57, and Chapter 3 of the CPP.

Aquatic toxicity numerical criteria are hardness-dependent for certain metals. The equations for calculating hardness-dependent criteria (for those metals present at quantifiable levels in the combined discharge) and the resulting acute and chronic criteria are as follows:

Hardness-dependent Aquatic Toxicity Criteria for The Arkansas River
(Concentrations in µg/L, unless otherwise specified)

Effluent Characteristic	Acute Toxicity Criteria		Chronic Toxicity Criteria	
	Equation	Value ^a	Equation	Value ^a
Copper, total	$C_{acute} = e^{(0.9422 (\ln (\text{hardness})) - 1.3844)}$	48.56	$C_{chronic} = e^{(0.8545 (\ln (\text{hardness})) - 1.386)}$	29.69
Zinc, total	$C_{acute} = e^{(0.8473 (\ln (\text{hardness})) + 0.884)}$	276.08	N/A	---

^a Based on a segment-averaged receiving water hardness of 267.83 mg/L.

(2) Protection of Human Health – Fish Consumption Use (Outfall 001)

Criteria for the protection of human health for the consumption of fish flesh apply only to receiving waters not designated as habitat-limited aquatic communities. Additional human health/fish flesh criteria are recommended by EPA in the National Recommended Water Quality Criteria (NRWQC). NRWQC criteria are not binding upon individual states, however.

OWQS and NRWQC criteria for the protection of human health for the consumption of fish flesh are specified at OAC 252:730-5-20(b) and Publication No. EPA 822-Z-99-001, respectively, and

are implemented according to the procedures in OAC 252:740, Subchapter 7, OAC 252:606-6-64 through 6-70, and Chapter 3 of the CPP.

(3) Protection of Raw Water and Human Health – Public and Private Water Supply Use (Outfall 001)

OWQS raw water criteria and criteria for the protection of human health for the consumption of fish flesh and water are specified at OAC 252:730-5-10(1) and OAC 252:740-5-10(6), respectively, and are implemented according to the procedures in OAC 252:740, Subchapter 7, OAC 252:606-6-71 through 6-77, and Chapter 3 of the CPP. These criteria apply only to receiving waters specifically designated in OAC 252:730, Appendix A, for the Public and Private Water Supply (PPWS) use.

b. Determination of Reasonable Potential and Wasteload Allocation

(1) Reasonable Potential and WLA Equations

(a) Aquatic Toxicity – Fish and Wildlife Propagation Use (Outfall 001)

For determining whether there is reasonable potential to exceed acute toxicity numerical criteria for discharges to streams, OAC 252:740-5-3(b)(2) defines a pollutant's concentration at the edge of the acute regulatory mixing zone (C_d) as:

$$C_d = C_b + \frac{Q_{e(D)}}{64.63} (C_{95} - C_b), \text{ where } Q_{e(D)} \text{ is expressed in mgd.}$$

In order for C_d to fall in the range between C_b and C_{95} , the value for $Q_{e(D)}$ used in the equation must be less than or equal to 64.63 mgd. If the actual $Q_{e(D)} > 64.63$ mgd, a value of 64.63 mgd is used in the reasonable potential equation.

Should a pollutant's acute toxicity screen exhibit reasonable potential, a water quality-based limit is required for that pollutant and a wasteload allocation is calculated for each applicable criterion. For discharges to streams, the acute toxicity wasteload allocation is calculated in accordance with OAC 252:606-6-55(1)(A), as follows:

$$WLA_A = C_b + \frac{64.63}{Q_{e(D)}} (C_A - C_b), \text{ where } Q_{e(D)} \text{ is expressed in mgd.}$$

As with the reasonable potential equation, if the actual $Q_{e(D)} > 64.63$ mgd, a value of 64.63 mgd is used in the WLA equation.

For determining whether there is reasonable potential to exceed chronic toxicity numerical criteria, OAC 252:740-5-3(b)(2) defines a pollutant's maximum concentration at the boundary of the chronic regulatory mixing zone (C_d) as:

$$C_d = C_b + 1.94 Q^* \frac{(C_{95} - C_b)}{(1 + Q^*)}, \text{ for } Q^* \leq 0.1823$$

$$C_d = C_b + \frac{(C_{95} - C_b)}{(6.17 - 15.51 Q^*)}, \text{ for } 0.1823 < Q^* < 0.3333$$

$$C_d = C_{95}, \text{ for } Q^* \geq 0.3333$$

Should a pollutant's chronic toxicity screen exhibit reasonable potential, a water quality-based limit is required for that pollutant and a wasteload allocation is calculated for each applicable criterion. For discharges to streams, the chronic toxicity wasteload allocation is calculated in accordance with OAC 252:606-6-55(1)(B), as follows:

$$WLA_C = C_b + \left(\frac{1 + Q^*}{1.94Q^*} \right) (C_C - C_b), \text{ for } Q^* \leq 0.1823$$

$$WLA_C = C_b + (6.17 - 15.51 Q^*) (C_C - C_b), \text{ for } 0.1823 < Q^* < 0.3333$$

$$WLA_C = C_C, \text{ for } Q^* \geq 0.3333$$

(b) Protection of Human Health – Fish Consumption Use (Outfall 001)

OAC 252:740-7-3(b)(2) defines the reasonable potential equation for a pollutant's instream concentration C_d after complete mixing as follows:

$$C_d = \frac{(C_{95} Q^* + C_b)}{(1 + Q^*)}$$

The human health/fish flesh wasteload allocation is calculated in accordance with OAC 252:606-6-68, as follows:

$$WLA_{FF} = C_{FF} + \frac{(C_{FF} - C_b)}{Q^*}$$

Should a pollutant's OWQS human health/fish flesh screen exhibit reasonable potential, a water quality-based limit is required for that pollutant and a wasteload allocation is calculated for each applicable criterion. Where a discharge is located less than five miles upstream of a PWS intake (see Section III.A), OAC 252:606-6-68 requires that a human health/fish flesh wasteload allocation equal to the criterion be established for any pollutant detected in the discharge to which a human health/fish flesh criterion applies. Since there is no PWS intake within five miles of this discharge the WLA uses the above equation.

In accordance with EPA Region 6 policy, pollutants are screened for reasonable potential to exceed NRWQC human health/fish flesh consumption criteria and, if reasonable potential is exhibited, effluent monitoring of those pollutants is required as a permit condition in lieu of establishing effluent limitations.

(c) Protection of Raw Water and Human Health – Public and Private Water Supply Use (Outfall 001)

OAC 252:740-7-3(b)(2) defines the reasonable potential equation for a pollutant's instream concentration C_d after complete mixing as follows:

$$C_d = \frac{(C_{95} Q^* + C_b)}{(1 + Q^*)}$$

Raw water and human health/fish flesh and water wasteload allocations are calculated in accordance with OAC 252:606-6-75, as follows:

$$WLA_{Raw} = C_{Raw} + \frac{(C_{Raw} - C_b)}{Q^*}, \text{ for the raw water criterion, and}$$

$$WLA_{FFW} = C_{FFW} + \frac{(C_{FFW} - C_b)}{Q^*}, \text{ for the human health/fish flesh and water criterion.}$$

Should a pollutant's raw water or human health/fish flesh and water screen exhibit reasonable potential, a water quality-based limit is required for that pollutant and a wasteload allocation is calculated for each applicable criterion.

(2) Results of Reasonable Potential Screening

(a) Aquatic Toxicity – Fish and Wildlife Propagation Use (Outfall 001)

Results of the acute and chronic toxicity screens for Outfall 001, using $Q_{e(D)} = 2.0$ mgd, C_{95} values reflected in Section V.C.2.c, pollutant background levels reflected in Section V.C.2.d, and any hardness-dependent metals criteria reflected in Section V.D.2.a(1), are shown in the table below. Any required WLAs are also shown.

Results of Acute and Chronic Toxicity Screens (Outfall 001)

(Concentrations in $\mu\text{g/l}$ unless otherwise specified)

Effluent Characteristic	Acute Toxicity				Chronic Toxicity			
	C_d	C_A	$C_d > C_A?$	WLA_A	C_d	C_C	$C_d > C_C?$	WLA_C
Arsenic, total	0.04	340	No	---	0.01	150	No	---
Copper, total	0.26	48.56	No	---	0.06	29.69	No	---
Zinc, total	2.46	276.08	No	---	---	---	---	---

(b) Protection of Human Health – Fish Consumption Use (Outfall 001)

Not applicable.

(c) Protection of Raw Water and Human Health – Public and Private Water Supply Use (Outfall 001)

Not applicable.

c. Criterion Long Term Average Concentration

(1) Aquatic Toxicity – Fish and Wildlife Propagation Use (Outfall 001)

Acute and chronic toxicity criteria long term average (LTA_A and LTA_C) are calculated for the pollutants requiring water quality-based limits assuming a log-normal distribution and using a 99%

probability basis according to the following equations. A CV of 0.6 is assumed when the effluent data set is not sufficiently large to determine a CV directly.

$$LTA_A = WLA_A \times \exp\left(0.5 \ln(1 + CV^2) - 2.326 \sqrt{\ln(1 + CV^2)}\right)$$

$$LTA_C = WLA_C \times \exp\left(0.5 \ln\left(1 + \frac{CV^2}{4}\right) - 2.326 \sqrt{\ln\left(1 + \frac{CV^2}{4}\right)}\right)$$

Because no reasonable potential is demonstrated and WLA is not calculated, calculation of LTA is not required.

(2) Protection of Human Health – Fish Consumption Use (Outfall 001)

Not applicable.

(3) Protection of Raw Water and Human Health – Public and Private Water Supply Use (Outfall 001)

Not applicable.

d. Permit Limitations

(1) Aquatic Toxicity – Fish and Wildlife Propagation Use (Outfall 001)

Aquatic toxicity-based monthly average limits (MAL_{TOX}) are calculated on a 95% probability basis, and aquatic toxicity-based daily maximum limits (DML_{TOX}) are calculated on a 99% probability basis. In accordance with OAC 252:606-6-89, a monitoring frequency (N_m) of 2 per month is utilized, and a CV of 0.6 is assumed. The permit limit equations are:

$$MAL_{TOX} = LTA_{TOX} \times \exp\left(1.645 \sqrt{\ln\left(1 + \frac{CV^2}{N_m}\right)} - 0.5 \ln\left(1 + \frac{CV^2}{N_m}\right)\right)$$

$$DML_{TOX} = LTA_{TOX} \times \exp\left(2.326 \sqrt{\ln(1 + CV^2)} - 0.5 \ln(1 + CV^2)\right)$$

Because no reasonable potential is demonstrated and LTA is not calculated, calculation of permit limit is not required.

(2) Protection of Human Health – Fish Consumption Use (Outfall 001)

Human health/fish flesh-based monthly average limits (MAL_{FF}) are equal to the respective criterion long term averages, and daily maximum limits (DML_{FF}) are calculated on a 99% probability basis. In accordance with OAC 252:606-6-89, a monitoring frequency (N_m) of 2 per month is utilized, and a CV of 0.6 is assumed. The permit limit equations are as follows:

$$MAL_{FF} = LTA_{FF}$$

$$DML_{FF} = LTA_{FF} \times \exp \left(\frac{2.326 \sqrt{\ln(1+CV^2)} - 0.5 \ln(1+CV^2)}{1.645 \sqrt{\ln \left(1 + \frac{CV^2}{N_m} \right)} - 0.5 \ln \left(1 + \frac{CV^2}{N_m} \right)} \right)$$

Because no reasonable potential is demonstrated and LTA is not calculated, calculation of permit limit is not required.

(3) Protection of Raw Water and Human Health – Public and Private Water Supply Use (Outfall 001)

Not applicable.

(4) Comparison of Permit Limitations for Toxic Substances (Outfall 001)

Because no reasonable potential is demonstrated and LTA is not calculated, calculation of permit limit is not required.

3. Mineral Constituent Criteria for Protection of the Agriculture Use (Outfall 001)

The facility does not receive industrial wastewater. Therefore, it is not expected that the discharge from this facility will exceed criteria for these parameters. Furthermore, the receiving stream to which this facility discharges is not on the Category 5 303(d) list in the Appendix C of the 2022 Integrated Report as being impaired for chloride, sulfate, or TDS. Therefore, a permit limit to protect this beneficial use is not needed.

4. Bacterial Criteria for Protection of the Primary Body Contact Recreation and Public and Private Water Supply Uses

The Arkansas River (WBID OK120420010010_00) immediately downstream from the facility's point of discharge is impaired for bacteria. The Total Maximum Daily Load (TMDL) completed for the Arkansas River (TMDL ID 35669) established a wasteload allocation for bacteria in the discharge from the Jenks WWTF in November 2008.

a. Bacteria Limitation – Primary Body Contact Recreation Use (Outfall 001)

- In accordance with OAC 252:606-6-86(a)(2), the draft permit will have a *E. coli* monthly average limit (MAL) of 126 CFU/100mL, expressed as a geometric mean, and a daily maximum limit (DML) of 406 CFU/100mL, in effect for the “recreational period” of May 1 through September 30.

- Additionally, in accordance with OAC 252:606-6-86(b), from October 1 through April 30; *E. coli* monthly average limit of 630 CFU/100mL, expressed as a geometric mean, and the daily maximum limit of 2,030 CFU/100mL stated in OAC 252:606-6-86(c)(2) apply to permittees that discharge to waterbodies that are impaired for bacteria.
- In accordance with OAC 252:606-6-89(a)(3), the draft permit will have bacteria monitoring frequency of two per week during the months of May through September to protect the PBCR beneficial use and once a week for the months of October through April to protect the SBCR beneficial use since the receiving stream is impaired for bacteria.

b. Total Coliform – Public and Private Water Supply Use (Outfall 001)

Since this receiving stream is not listed as a Public and Private Water Supply no permitting action is necessary to protect this use.

5. Criteria for Protection of the Aesthetics Use (Outfall 001)

a. General

Pursuant to OAC 252:730-5-19, “the surface waters of the state must be free from floating materials and suspended substances that produce objectionable color and turbidity. The surface water must also be free from noxious odors and tastes, from materials that settle to form objectionable deposits, and discharges that produce undesirable effects or are a nuisance to aquatic life. In addition, surface waters of the state shall be virtually free from all coloring materials which produce an aesthetically unpleasant appearance.”

b. Floatable Solids and Foam

OAC 252:730-5-9(b) states that the surface waters of the state shall be free of floating debris, bottom deposits, scum, foam and other materials from other than natural sources. A narrative condition prohibiting the discharge of floating solids or visible foam in other than trace amounts will be included in the permit.

c. Nutrient Limitations and Monitoring Requirements

Nutrient loading in Oklahoma’s surface waters, particularly of phosphorus, has become an area of concern. OAC 252:730-5-9(d) states, “Nutrients from point source discharges or other sources shall not cause excessive growth of periphyton, phytoplankton, or aquatic saprophyte communities which impairs any existing or designated beneficial use.” This narrative criterion is echoed in the Oklahoma’s general antidegradation policy as applied to beneficial uses (OAC 252:730-3-2(d)) as, “No water quality degradation which will interfere with the attainment or maintenance of an existing or designated beneficial use shall be allowed.”

The previous permit for the facility did not contain any nitrogen or phosphorus limits or reporting requirements. According to data published by the OWRB in its Beneficial Use Monitoring Program (BUMP) 2018 Final Report, the trophic condition of Arkansas River downstream of the Jenks WWTF’s discharge is stable. Thus, in the judgment of the permit writer, monitoring of effluent nutrient levels is not warranted at this time. The permit will, however, contain a narrative condition for control of solids to protect the Aesthetics use.

E. MONITORING REQUIREMENTS

1. Effluent Monitoring Requirements (Outfall 001)

a. General

In accordance with OAC 252:606-6-90, where reasonable potential to exceed an applicable criterion is not exhibited, the background is unknown and there are fewer than 10 effluent data points to characterize the effluent, further effluent monitoring may be warranted based on use of the TSD method for computing $C_{95(M)}$ (see Section V.C.2.c). The TSD procedure accounts for the inherent uncertainty in characterizing an effluent distribution from a small data set.

b. Applicability

Water quality-based limitations are not required. All other pollutants detectable in the discharge which have State of Oklahoma water quality criteria are screened for reasonable potential using $C_{95(M)}$ in place of C_{95} to determine which of them may require effluent monitoring (see Section V.C.2.c).

c. Results of Reasonable Potential Screening Using $C_{95(M)}$

Where C_d , calculated using $C_{95(M)}$ in place of C_{95} , exceeds an applicable criterion for a pollutant, a short term effluent monitoring requirement (sufficient to collect a minimum of ten data points) is established in the permit for that pollutant in accordance with OAC 252:606-6-90(a). Reasonable potential may then be reassessed with the larger effluent data set and the permit reopened, if necessary, to add appropriate effluent limitations. Results of the reasonable potential screens using $C_{95(M)}$ are shown in the following tables:

(1) Aquatic Toxicity Criteria

Results of Acute and Chronic Toxicity RP Screens using $C_{95(M)}$ (Outfall 001)
(Concentrations in $\mu\text{g/L}$ unless otherwise specified)

Effluent Characteristic	Acute Toxicity			Chronic Toxicity		
	C_d	C_A	$C_d > C_A?$	C_d	C_C	$C_d > C_C?$
Arsenic, total	0.12	340.0	No	0.03	150.0	No
Copper, total	0.77	48.56	No	0.19	19.69	No
Zinc, total	7.08	276.08	No	---	---	---

(2) Human Health/Fish Flesh Criteria

Not applicable.

(3) Raw Water and Human Health/Fish Flesh and Water Criteria

Not applicable.

(4) YMS and SS Agriculture Criteria

Results of Agriculture YMS and SS RP Screens Using $C_{95(M)}$ (Outfall 001) (Concentrations in mg/L unless otherwise specified)

Effluent Characteristic	YMS Criteria			SS Criteria		
	C_d	C_{YMS}	$C_d > C_{YMS}?$	C_d	C_{SS}	$C_d > C_{SS}?$
Chloride	512.9	719	No	512.9	925	No
Sulfate	116.0	147	No	116.0	178	No
TDS	1123.9	1,496	No	1,123.9	1,868	No

Based on the results of these reasonable potential screens using $C_{95(M)}$, the draft permit will not contain any effluent monitoring requirements.

2. Background Monitoring Requirements (Monitoring Point 999)

OAC 252:606-6-10 requires that, where available, background levels be included in reasonable potential assessments and in calculating wasteload allocations.

a. Assessment for Aquatic Toxicity, Human Health, and Raw Water Column Criteria

In general, if water quality-based limits derived from aquatic toxicity, human health, or raw water column criteria are established in a permit for a pollutant based on an assumed zero background (or a partial background data set consisting of less than 10 data points), background monitoring for that pollutant will be required. There are two exceptions to this requirement, both of which exclude background concentration as a component in the wasteload allocation equation. These exceptions are as follows:

- where permit limits are based on a chronic toxicity criterion in an effluent-dominated discharge situation, and
- where permit limits are based on a raw water column or human health/fish flesh and water criterion and the associated wasteload allocation was set equal to that criterion because the discharge is in close proximity to a PWS intake (not applicable to this facility).

Where permit limits for a pollutant are not required and the background is unknown (assumed zero), background monitoring may be justified for the purpose of reassessing whether there is reasonable potential to exceed an applicable criterion. In such cases, OAC 252:606-6-12 requires that the background trigger to criterion (BT/C) ratio be used to determine whether background monitoring is warranted for a pollutant. The trigger background concentration for a criterion is defined in OAC 252:606-1-2 as “the background concentration necessary to trigger reasonable potential for a substance to exceed an applicable criterion given a specified mean effluent concentration.” As described in Appendix J of OAC 252:606, the procedure involves calculating a BT/C ratio for each applicable criterion and comparing each such ratio with an associated threshold value, $(BT/C)_{max}$, which is a function of the magnitude of each criterion. Where the BT/C ratio > 1.0 , the C_{95} concentration is less than the criterion and there is no possibility of exhibiting reasonable potential to exceed that criterion at any background level which is less than or equal to the criterion. Where the BT/C ratio ≤ 1.0 , the C_{95} concentration is at least as high as the criterion and, depending on the magnitude of the criterion, background monitoring may be justified. If the BT/C ratio $\leq (BT/C)_{max}$ for any of the applicable criteria for a pollutant, then background monitoring for that pollutant is required. In order for $(BT/C)_{max}$ to be appropriately more sensitive to criteria of smaller magnitude, at which a measurable background level

of a pollutant may have a relatively greater impact in the determination of reasonable potential, the value of the $(BT/C)_{\max}$ threshold value function increases as the magnitude of a criterion decreases within the range of 1 to 1000 $\mu\text{g/L}$.

(1) Calculation of $(BT/C)_{\max}$

The value of $(BT/C)_{\max}$ for each applicable criterion is an inverse function of the criterion's magnitude with two break points (or "hinges"), one at 1.0 $\mu\text{g/L}$ and the other at 1,000.0 $\mu\text{g/L}$. It is calculated as follows:

$$(BT/C)_{\max} = 1.0, \text{ where the criterion} \leq 1.0 \mu\text{g/L.}$$

$$(BT/C)_{\max} = \frac{1}{2^{\log(\text{criterion})}}, \text{ where the criterion} > 1.0 \mu\text{g/L and} \leq 1,000.0 \mu\text{g/L.}$$

$$(BT/C)_{\max} = 0.125, \text{ where the criterion} > 1,000.0 \mu\text{g/L.}$$

(2) Calculation of BT/C Ratios

Background trigger concentrations are first calculated for all applicable criteria and the BT/C concentration is then calculated by dividing the criterion-specific background trigger concentration by the applicable criterion. Values of $Q_{e(D)}$, Q^* , C_{95} , C_A , C_C , C_{FF} , C_{FFW} , and C_{Raw} are as previously defined.

(a) Acute Toxicity Criteria

$$BT/C_{\text{Acute}} = \frac{\left(\frac{64.63 C_A - Q_{e(D)} C_{95}}{64.63 - Q_{e(D)}} \right)}{C_A}, \text{ where } Q_{e(D)} < 64.63 \text{ mgd.}$$

BT/C_{Acute} is not defined for values of $Q_{e(D)} \geq 64.63$ mgd.

(b) Chronic Toxicity Criteria

For discharges to streams, the following equations are used:

$$BT/C_{\text{Chronic}} = \frac{\left(\frac{(1 + Q^*) C_C - 1.94 Q^* C_{95}}{1 - 0.94 Q^*} \right)}{C_C}, \text{ where } Q^* \leq 0.1823$$

$$BT/C_{\text{Chronic}} = \frac{\left(\frac{(6.17 - 15.51 Q^*) C_C - C_{95}}{5.17 - 15.51 Q^*} \right)}{C_C}, \text{ where } 0.1823 < Q^* < 0.3333$$

BT/C_{Chronic} is not defined for $Q^* \geq 0.3333$ (effluent-dominated discharge situations), since the background level is not a component of the chronic toxicity reasonable potential equation.

(c) Human Health/Fish Flesh Criteria

$$BT/C_{FF} = \frac{(1 + Q^*)C_{FF} - Q^*C_{95}}{C_{FF}}$$

(d) Raw Water Column Criteria

$$BT/C_{Raw} = \frac{(1 + Q^*)C_{Raw} - Q^*C_{95}}{C_{Raw}}$$

(e) Human Health/Fish Flesh and Water Criteria

$$BT/C_{FFW} = \frac{(1 + Q^*)C_{FFW} - Q^*C_{95}}{C_{FFW}}$$

(3) Summary of Background Monitoring Requirements

Summary of Background Monitoring Requirements (Outfall 001)

Effluent Characteristic	Effluent limit required? ^a	Background assumed zero? ^b	BT/C ratio procedure applicable?	BT/C Ratio Assessment				Background monitoring required?
				Type Criterion	BT/C Ratio	(BT/C) _{max}	BT/C ratio ≤ (BT/C) _{max} ?	
Arsenic, total	No	Yes	Yes	Acute	>1	0.173	No	No
				Chronic	>1	0.221	No	
				FF	>1	0.201	No	
Copper, total	No	Yes	Yes	Acute	>1	0.311	No	No
				Chronic	>1	0.360	No	
Zinc, total	No	Yes	Yes	Acute	>1	0.184	No	No

F. BIOSOLIDS/SEWAGE SLUDGE REQUIREMENTS

Biosolids beneficial use and/or sewage sludge disposal practices shall comply with the Federal regulations for landfills, biosolids beneficial use and/or sewage sludge solid waste disposal established at 40 CFR Parts 257, 503, and the DEQ rules governing Sludge Management (OAC 252:515 and OAC 252:606) as applicable.

The sewage sludge disposal shall also comply with the requirements the Sludge Management Plan (No. 3572036) for the facility approved and amended by DEQ on May 15, 2007, that allows the permittee to landfill sewage sludge at the following landfill facility:

- American Environmental Landfill (Landfill Permit No. 3557021), which is located in the S½ of Section 36, Township 20 North, Range 10 East, I.M., Osage County, Oklahoma.

The permittee is required to maintain all records relevant to biosolids beneficial use and/or sewage sludge disposal for the life of the permit. These records shall be made available to DEQ upon request.

The permittee shall notify DEQ at least 120 days prior to implementing any changes in the biosolids beneficial use and/or sewage sludge disposal practices.

G. 303(d) LIST

1. Water Quality Assessment and Causes of Impairment

The facility discharges to the Arkansas River in Segment 120420 of the Middle Arkansas River Basin, which is on the Category 5 303(d) list, in the Appendix C of the 2022 Integrated Report. This portion of the Arkansas River, with WBID OK 120420010010_00, is listed for enterococcus, turbidity, and lead. A Total Maximum Daily Load (TMDL) development process was completed for bacteria in early November 2008, establishing a wasteload allocation for the Jenks Public Works Authority WWTF for enterococcus. In accordance with OAC 252:606-6-86(b), *E. coli* limits are currently being implemented for bacterial impairments. Therefore, the *E. coli* limits described in Section V.D.4 are applied to this permit, and additional permit limits are not needed.

2. 303(d) List-Related Permitting Actions

Where impairments are listed, EPA Region 6 policy requires that the draft permit include WQ-based limits or a monitoring and reporting requirement for the listed pollutants if present in the discharge, and a re-opener clause as permit conditions. Therefore, the following permitting actions are taken according to the listed impairments:

a. Enterococcus

As discussed in Section V.D.4, permit limits for *E. coli* at 126 CFU MPN/100 mL geometric mean and 406 CFU MPN/100 mL or daily maximum during the PBCR season; and 630 CFU MPN/100 mL geometric mean and 2,030 CFU MPN/100 mL daily maximum during the SBCR season are established in the draft permit to control the discharge of bacteria in the receiving stream.

b. Turbidity

Controls for turbidity are established in the draft permit through effluent limits for TSS.

c. Lead

Three metals were detected in the discharge from Outfall 001: arsenic, copper, and zinc. No water quality-based effluent limits are required for these metals. Additionally, lead was not detected in the discharge from Outfall 001. Therefore, no further permit action for lead is needed.

Reopener Clause

A re-opener clause is included in the permit to allow for modification and/or reissuance to require additional monitoring and/or effluent limitations where actual or potential exceedances of State water quality criteria are determined to be the result of the permittee's discharge to the receiving water(s), or a revised Total Maximum Daily Load is established for the receiving water(s). Modification and/or reissuance of the permit shall follow regulations listed at 40 CFR § 124.5.

H. ANTIDEGRADATION REQUIREMENTS

Because no antidegradation restrictions are listed in Appendix A of the OWQS for this water body, implementation of the State of Oklahoma antidegradation policy, as described at OAC 252:740, Subchapter 13, states that no special requirements beyond Tier 1 protection (maintenance and protection of designated uses, as herein described) are necessary.

I. PROTECTION OF ENDANGERED AND THREATENED SPECIES AND CRITICAL HABITAT

The stream segment of the Arkansas River, to which the Jenks WWTF discharges, is considered by the U.S. Fish and Wildlife Service (USFWS) to be a sensitive area for endangered or threatened species. Since there is no proposed increase in the facility's design average daily flow nor a change in location of the point of discharge (POD), no adverse impact on endangered or threatened species or their critical habitat is expected.

VI. GROUNDWATER PROTECTION

For municipal facilities, permits issued through the Water Quality Division's Construction Permit Section for plant design and construction (pursuant to the requirements of OAC 252:656) and land application of non-industrial wastewater and/or biosolids (pursuant to the requirements of OAC 252:621 and OAC 252:606, respectively) are considered sufficient to protect groundwater quality.

VII. DRAFT PERMIT EFFLUENT LIMITATIONS

A. GENERAL

In accordance with 40 CFR § 122.44(a), (d) and (l), pollutant limitations and monitoring requirements are established in the draft permit based on the more stringent of technology-based, water quality-based, or previous permit requirements. Both concentration and mass (loading) limits are established unless it is impractical to specify loading limits because of the units in which concentration limits are expressed (e.g., standard units for pH). Such loading limitations are calculated using the facility's design average daily flow according to the following equation:

$$\text{Mass loading limit (in lbs/day)} = \text{Concentration limit (in mg/L)} \times Q_{e(D)} \text{ (in mgd)} \times 8.34$$

The facility's approved design average daily flow of 2.0 mgd is used to calculate all loading limits.

B. EFFLUENT LIMITATIONS

The following final limitations and monitoring requirements for Outfall 001 apply for the periods indicated. Based on the effluent analytical data provided with the permit application, the facility appears to be able to comply with all newly established limits.

Final Limitations

Final limits and reporting requirements are effective beginning three years after the effective date of the permit:

a. Limited Parameters

Final Mass Loading Limitations and Reporting Requirements (Outfall 001)

Effluent Characteristic ^a	Water Quality Standards	Previous Permit	Draft Permit
	Monthly Average	Monthly Average	Monthly Average
Flow (mgd)	---	Report	Report
BOD ₅	500.4	500.4	500.4
TSS	500.4	500.4	500.4

^a Units are lb/day, unless otherwise specified.

Final Concentration Limitations and Reporting Requirements (Outfall 001)

Effluent Characteristic ^a		Water Quality Standards				Previous Permit				Draft Permit			
		Daily Min	Monthly Avg	Weekly Avg	Daily Max	Daily Min	Monthly Avg	Weekly Avg	Daily Max	Daily Min	Monthly Avg	Weekly Avg	Daily Max
BOD ₅		---	30.0	45.0	---	---	30.0	45.0	---	---	30.0	45.0	---
TSS		---	30.0	45.0	---	---	30.0	45.0	---	---	30.0	45.0	---
<i>E. coli</i> (colonies/100 mL)	May – Sep	---	126	---	406	---	---	---	---	---	126	---	406
	Oct - Apr	---	630	---	2030	---	---	---	---	---	630	---	2030
pH (standard units)		6.5	---	---	9.0	6.5	---	---	9.0	6.5	---	---	9.0

^a Units are mg/L, unless otherwise specified.

b. Monitoring Frequencies and Sample Types

(1) Evaluation for Performance-Based Monitoring Frequency Reductions

Performance-based monitoring frequency reductions are considered in accordance with OAC 252:606-6-91 and Chapter 3 of the CPP. Where Significant Noncompliance (SNC) with permit limitations has been exhibited during the period of record, the facility is ineligible for any performance-based monitoring frequency reduction for the affected pollutant. Any increased monitoring frequency requirement for ammonia resulting from toxicity-based ammonia limits replacing DO-based ammonia limits pre-empts any performance-based monitoring frequency reduction that might otherwise result from the evaluation using DO-based limits. A performance based monitoring frequency reduction evaluation was not applicable for the Jenks WWTF during this permit renewal cycle.

(2) Monitoring Requirements and Sample Types

Based on monitoring requirements in OAC 252:606-6-90 through 6-91, monitoring requirements for Outfall 001 beginning the effective date of the permit are as follows:

Final Monitoring Requirements and Sample Types (Outfall 001)

Effluent Characteristic		Previous NPDES Permit		Draft Permit	
		Measurement Frequency	Sample Type	Measurement Frequency	Sample Type
Flow		Daily	Totalized	Daily	Totalized
BOD ₅		1/week	6-hour composite	1/week	6-hour composite
TSS		1/week	6-hour composite	1/week	6-hour composite
<i>E. coli</i>	May – Sep	2/week	Grab	2/week	Grab
	Oct – Apr	1/week	Grab	1/week	Grab
pH		Daily	Grab	Daily	Grab

C. BIOMONITORING OUTFALL (OUTFALL TX1)

Outfall TX1 is designated for biomonitoring reporting purposes. It is functionally identical to Outfall 001.

1. Previous Permit

The previous permit required only acute WET testing and contained a WET limit for fathead minnows. The monitoring requirements are restated in the following table:

Previous Permit's WET Test Reporting and Monitoring Requirements for *Daphnia pulex* (Outfall TX1)

Effluent Characteristic				Reporting/Monitoring Requirements		
Test		Critical Dilution	Parameter	48-hour Min	Testing Frequency	Sample Type
Testing	<i>Daphnia pulex</i> , 48-hour acute LC ₅₀ static renewal, freshwater	100%	Pass/Fail Survival [TIM3D]	Report	1/quarter	24-hr comp
			LC ₅₀ Effluent Conc [TAM3D]	Report		
			% Mortality at 100% Effluent [TJM3D]	Report		
Retesting	Retest #1 [22415]			Report	As Required	24-hr comp
	Retest #2 [22416]			Report		

Previous Permit's WET Test Reporting and Monitoring Requirements for *Pimephales promelas* (Outfall TX1)

Effluent Characteristic				Reporting/Monitoring Requirements		
Test		Critical Dilution	Parameter	48-hour Min	Testing Frequency	Sample Type
<i>Pimephales promelas</i> (Fathead minnow), 48-hour acute LC ₅₀ static renewal, freshwater		100%	Pass/Fail Survival [TIM6C]	Report	1/quarter	24-hr comp
			LC ₅₀ Effluent Conc [TAM6C]	Report		
			% Mortality at 100% Effluent [TJM6C]	Report		

Effluent Characteristic		Reporting/Monitoring Requirements		
		48-hour Min	Testing Frequency	Sample Type
Whole Effluent Toxicity Limit (Fatheads only) [STORET 22414]		>100%	1/quarter	24-hr comp

2. Draft Permit

Pimephales promelas (Fathead minnow)

- a. Whole effluent toxicity reporting and monitoring requirements – During the period beginning the effective date of the permit and lasting through the expiration date, the permittee is authorized to discharge from Outfall TX1 (functionally identical to Outfall 001). The discharge consists of domestic wastewater. Such discharge shall be limited and monitored by the permittee as specified below.

The permittee is encouraged to perform required biomonitoring activities as early in the reporting period as is practical to ensure sufficient time remains in the reporting period should retests/repeat tests be necessary.

All laboratory analyses for the biomonitoring parameters specified in this permit must be performed by a laboratory accredited by the Oklahoma Department of Environmental Quality for those parameters.

Acute Whole Effluent Toxicity Reporting and Monitoring Requirements (Outfall TX1)

Effluent Characteristic			Reporting/Monitoring Requirements ^a		
Test	Critical Dilution ^b	Parameter	48-hour Min	Testing Frequency ^c	Sample Type
<i>Pimephales promelas</i> (Fathead minnow), 48-hour acute LC ₅₀ static renewal, freshwater	100%	Pass/Fail Survival [TIM6C]	Report	1/quarter	24-hr comp
		LC ₅₀ Effluent Conc [TAM6C]	Report		
		% Mortality at 100% Effluent [TJM6C]	Report		

^a See Part II, Section F, Whole Effluent Toxicity Limit, for additional monitoring and reporting conditions.

^b All acute WET testing shall use the dilution series specified in Part II, Section F, Item 1.

^c Quarterly reporting periods commence with the effective date of the permit. A valid WET test shall be reported for *Pimephales promelas* for each reporting period. Results of monthly tests conducted pursuant to prior test failure may be substituted for a routine test result if the monthly test coincides within the testing period of the routine testing (See Part II, Section F, Item 2.a).

P. promelas (Fathead minnow) whole effluent toxicity reporting and monitoring requirements apply beginning the effective date of the permit, and the first reporting period is September 1, 2025 to November 30, 2025. The first report is due on December 15, 2025.

Acute Whole Effluent Toxicity Limit and Monitoring Requirements (Outfall TX1)

Effluent Characteristic		Reporting/Monitoring Requirements ^a		
		48-hour Min	Testing Frequency ^b	Sample Type
Whole Effluent Toxicity Limit <i>Pimephales promelas</i> (lowest acute LC ₅₀) [STORET 51714]		>100%	1/quarter	24-hr comp

^a See Part II, Section F, Whole Effluent Toxicity Limit, for additional monitoring and reporting conditions.

^b Results of monthly tests conducted pursuant to prior test failure may be substituted for a routine test result if the monthly test coincides within the testing period of the routine testing (See Part II, Section F, Item 2.a).

Whole effluent toxicity reporting and monitoring requirements apply beginning the effective date of the permit. Compliance with the Whole Effluent Toxicity Limit is required beginning the effective date of the permit.

WET testing summary reports: Reports of all WET testing initiated, regardless of whether such tests are carried to completion, shall follow the requirements of Part II, Section F, Item 4.

- b. Concurrent testing is a provision for acute Whole Effluent Toxicity (WET) testing –

Concurrent analyses of ammonia and pH are required for each individual effluent sample collected for acute WET testing or retesting of the Fathead minnow species. Reporting of concurrent testing results shall be in accordance with the following requirements in the table below.

Concurrent Effluent Testing for Acute WET Tests - Reporting Requirements (Outfall TX1)

Effluent Characteristic	Concentration			Monitoring Requirements	
	Daily Min	Monthly Avg	Daily Max	Monitoring Frequency	Sample Type
Ammonia, (NH ₃ -N) (mg/L) ^a [STORET 00610]	Report	Report	Report	1/quarter	24 hr comp
pH (std units) ^a [STORET 00400]	Report	N/A	Report	1/quarter	Measured in each composite effluent sample, including static renewals, just prior to first use

^a Two sets of samples for concurrent analyses are required for ammonia and pH: Report only those effluent samples collected for WET testing of the *Pimephales promelas*.

Samples collected for WET testing purposes, including static renewals, shall be of sufficient volume to allow for the required concurrent analyses in addition to the WET testing itself.

Samples sent directly to a WET testing laboratory shall NOT undergo any preservation other than refrigeration to maintain a temperature at or below 6°C but not frozen prior to arrival and processing at the WET testing laboratory. These results should be used in the table above. Samples sent directly to a state accredited analytical laboratory must be composite samples that are properly preserved. These results may be included in the results for Outfall 001.

A second concurrent analysis is required for the sample that is sent to the WET testing laboratory and for the table above. Just prior to first use of each composite sample for WET testing purposes, the biomonitoring laboratory shall take an adequately-sized portion of each composite sample, acidify it in accordance with preservation requirements in 40 CFR 136, and have it analyzed for ammonia (NH₃-N) at a state accredited laboratory. The pH measurement required for the above table must be taken just prior to the acidification step. These pH and ammonia readings should NOT be included in the results for Outfall 001.

- c. Sampling location – Samples taken in compliance with the monitoring requirements specified above for Outfall TX1 shall be taken at the following location: at the same location as for Outfall 001.

Daphnia pulex

- a. Whole effluent toxicity reporting and monitoring requirements – During the period beginning the effective date of the permit and lasting through the expiration date, the permittee is authorized to discharge from Outfall TX1 (functionally identical to Outfall 001). The discharge consists of domestic wastewater. Such discharge shall be limited and monitored by the permittee as specified below.

The permittee is encouraged to perform required biomonitoring activities as early in the reporting period as is practical to ensure sufficient time remains in the reporting period should retests/repeat tests be necessary.

All laboratory analyses for the biomonitoring parameters specified in this permit must be performed by a laboratory accredited by the Oklahoma Department of Environmental Quality for those parameters.

Acute Whole Effluent Toxicity Reporting and Monitoring Requirements (Outfall TX1)

Effluent Characteristic			Reporting/Monitoring Requirements ^a		
Test	Critical Dilution ^b	Parameter	48-hour Min	Testing Frequency ^f	Sample Type
Testing <i>Daphnia pulex</i> , 48-hour acute LC ₅₀ static renewal, freshwater	100%	Pass/Fail Survival [TIM3D]	Report	1/quarter ^c	24-hr comp
		LC ₅₀ Effluent Conc [TAM3D]	Report		
		% Mortality at 100% Effluent [TJM3D]	Report		
Retesting	Retest #1 [22415] ^c		Report	As Required ^d	24-hr comp
	Retest #2 [22416] ^c		Report		

^a See Part II, Section E, Whole Effluent Toxicity Testing, for additional monitoring and reporting conditions.

^b All acute WET testing shall use the dilution series specified in Part II, Section E, Item 1.

^c Apply according to results of test failure triggering monthly retests.

^d Monthly retesting required only if routine test for reporting period fails. Fill out ONLY these two retest parameters on the retest DMRs, do not change the original results, and put the correct submission date in the lower right hand corner of the DMR.

^e Results of retests conducted pursuant to prior test failure shall not be substituted on DMRs in lieu of routine test results (See Part II, Section E, Item 2.a).

^f See provision for monitoring frequency reduction after the first year (Part II, Section E, Item 5.)

D. pulex whole effluent toxicity reporting and monitoring requirements apply beginning the effective date of the permit, and the first reporting period is September 1, 2025 to November 30, 2025. The first report is due on December 15, 2025.

WET testing summary reports: Reports of all WET testing initiated, regardless of whether such tests are carried to completion, shall follow the requirements of Part II, Section E, Item 4.

- b. Sampling location – Samples taken in compliance with the monitoring requirements specified above for Outfall TX1 shall be taken at the following location: at the same location as for Outfall 001.

D. BACKGROUND MONITORING (MONITORING POINT 999)

Not applicable.

E. COMPLIANCE SCHEDULE

Not applicable.

VIII. SUMMARY OF CHANGES FROM PREVIOUS PERMIT

No changes were made in the draft permit relative to the previous OPDES Permit.

IX. ADMINISTRATIVE RECORD

The following sources were used to prepare the draft permit and constitute a part of its administrative record:

A. APPLICATIONS

OPDES Permit Application No. OK0037401 (Form 2M1), received May 3, 2024.

B. CLEAN WATER ACT CITATIONS

Sections 301, 303(d), 305(b), 402(a), and 402(o).

C. 40 CFR CITATIONS

40 CFR Parts 122, 124, and 136.

D. STATE LAW, STANDARDS, AND RULES AND REGULATIONS

Oklahoma Pollutant Discharge Elimination System (OPDES) Act, 27A OS § 2-6-201 *et seq.*
OAC 252:606, Discharge Standards and WQS Implementation (DEQ).
OAC 252:730, Oklahoma Water Quality Standards (DEQ).
OAC 252:740, OWQS Implementation (DEQ).
Oklahoma Continuing Planning Process (CPP) Document (DEQ).

E. MISCELLANEOUS

- Category 5 303(d) list, in the Appendix C of the 2022 Integrated Report.
- Beneficial Use Monitoring Program (BUMP) stream data from 2005 to 2021 (OWRB).
- WQMP amendment dated November, 2008, incorporating approved Arkansas River TMDL for DO-demanding substances.
- Permit file, OPDES Permit No. OK0037401, including selected biomonitoring laboratory reports.
- Integrated Compliance Information System (ICIS-OPDES), December 2019 through November 2024.
- EPA Region 6 revision to Post Third Round Biomonitoring Policy, dated June 30, 2000.
- USGS publication, Statistical Summaries of Streamflow in and near Oklahoma Through 2007 by John M. Lewis and Rachel A. Esralew (<http://pubs.usgs.gov/sir/2009/5135/>).
- Part III and IV of OPDES Permit No. OK0037401.

X. REVIEW BY OTHER AGENCIES AND FINAL DETERMINATION

A public notice which includes a link to the DEQ webpage where the draft permit may be viewed will be sent to various Federal and State agencies upon posting the draft permit in the DEQ webpage. If comments are reviewed from these agencies or other State or Federal agencies with jurisdiction over fish, wildlife, or public health, the permit may be denied or additional conditions may be included in accordance with regulations promulgated at 40 CFR § 124.59.

The public notice describes the procedures for the formulation of final determinations.

PART III. STANDARD CONDITIONS FOR OPDES MUNICIPAL/DOMESTIC PERMIT

SECTION A. Definitions

In addition to the definitions included in the Oklahoma Pollutant Discharge Elimination System Act (OPDES Act), Title 27 O.S. § 2-6-201 *et seq.*, and the rules of the State of Oklahoma Department of Environmental Quality (DEQ) adopted thereunder {See OAC 252:606}, the following definitions shall apply to this permit:

- 1 "Act" means the OPDES Act as amended.
- 2 "Applicable effluent standards and limitations" means all state and federal effluent standards and limitations to which a discharge is subject under the Act, including, but not limited to, effluent limitations, standards of performance, toxic effluent standards and prohibitions, and pretreatment standards.
- 3 "Applicable water quality standards" means all water quality standards to which a discharge is subject under the Act.
- 4 "Average limitations"
 - a. "7-day average" (or weekly average), other than for coliform bacteria, is the arithmetic mean of the daily values for all effluent samples collected during a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week. The "7-day average" for coliform bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.
 - b. "30-day average" (or monthly average), other than for coliform bacteria, is the arithmetic mean of the daily values for all effluent samples collected during a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month. The "30-day average" for coliform bacteria is the geometric mean of the values for all effluent samples collected during a calendar month.
- 5 "Bypass" means the diversion, whether intentional or unintentional, of waste streams from any portion of the collection system or treatment facility
- 6 "Daily discharge" means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the sampling day. "Daily discharge" determination of concentrations made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the "daily discharge" determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during that sampling day.
- 7 "Daily maximum" discharge limitation means the highest allowable "daily discharge" during the calendar month.
- 8 "Environmental Protection Agency" (EPA) means the U.S. Environmental Protection Agency
- 9 "Executive Director" means the Executive Director of the State of Oklahoma Department of Environmental Quality (DEQ) or his/her authorized representative(s).
- 10 "Industrial user" means a nondomestic discharger, as identified in 40 CFR, Part 403, introducing pollutants to a publicly owned treatment works.
- 11 "Oklahoma Pollutant Discharge Elimination System" (OPDES) means the state program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under the Act.
- 12 "Oklahoma Department of Environmental Quality" also known as (DEQ), means the State of Oklahoma Department of Environmental Quality
- 13 "OPDES Act" means the Oklahoma Pollutant Discharge Elimination System Act, Title 27 O.S. § 2-6-201 *et seq.*
- 14 "Samples"
 - a. For coliform bacteria, a sample consists of one effluent grab portion collected during a 24-hour period at peak loads.
 - b. "Grab sample" means an individual sample collected in less than 15 minutes.
 - c. "SBR (sequential batch reactor) sample and the various composite samples" are as defined in the OPDES Act, the Oklahoma Environmental Quality Code, rules transferred to or promulgated thereunder by DEQ

SBR Composite Sample

SBR Sample

A minimum of three aliquots collected from the discharge of a reactor. The first aliquot must be collected no later than $\frac{1}{4}$ time, the second approximately $\frac{1}{2}$ time, and the third no earlier than $\frac{3}{4}$ time from the initiation of a discharge cycle to the stoppage of the discharge cycle. The three aliquots shall consist of equal portions unless the rate of discharge from the reactor varies significantly during the cycle, in which case the measurement of the flow occurring at the time of their collection.

Single Composite SBR Sample

One SBR sample collected from each reactor during one discharge cycle and composited proportional to the volume discharged from

each of the reactors. The sample from at least one of the reactors shall represent the expected period of peak influent organic loading.

Two-Cycle Composite SBR Sample

One SBR sample collected from two consecutive discharge cycles of each reactor and composited proportional to the volume discharged during each cycle of each reactor. The sample from at least one cycle shall represent the expected period of peak influent organic loading.

Three-Cycle Composite SBR Sample

One SBR sample collected from three consecutive discharge cycles of each reactor and composited proportional to the volume discharged during each cycle of each reactor. The sample from at least one cycle shall represent the expected period of peak influent organic loading.

- d. "24-hour composite sample" consists of a minimum of 12 effluent portions collected at equal time intervals over the 24-hour period and combined proportional to flow or a sample collected at frequent intervals proportional to flow over the 24-hour period.
 - e. "12-hour composite sample" consists of 12 effluent portions collected no closer together than one hour and composited according to flow. The daily sampling intervals shall include the highest flow periods.
 - f. "6-hour composite sample" consists of six effluent portions collected no closer together than one hour (with the first portion collected no earlier than 10:00 a.m.) and composited according to flow.
 - g. "3-hour composite sample" consists of three effluent portions collected no closer together than one hour (with the first portion collected no earlier than 10:00 a.m.) and composited according to flow.
- 15. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
 - 16. "Sewage sludge" means the solids, residues and precipitates separated from or created in sewage by the unit processes of a publicly owned treatment works. Sewage as used in this definition means any wastes, including wastes from humans, households, commercial establishments, industries, and storm water runoff, that are discharged to or otherwise enter a publicly owned treatment works.
 - 17. "Treatment works" means any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage and industrial wastes of a liquid nature to implement the Act, or necessary to recycle or reuse water at the most economical cost over the estimated life of the works, including intercepting sewers, sewage collection systems, pumping, power and other equipment, and their appurtenances, extension, improvement, remodeling, additions, and alterations thereof.
 - 18. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
 - 19. "MGD" means million gallons per day.
 - 20. "mg/l" means milligrams per liter or parts per million (ppm).
 - 21. "ug/l" means micrograms per liter or parts per billion (ppb).

SECTION B. Monitoring, Record Keeping, Reporting and Liabilities

1. Monitoring

a. Site and Frequency

All monitoring undertaken in compliance with the terms of this permit shall be conducted at the frequency and sample site specified in Part I, Section A of this permit and in accordance with the OPDES Act and the Oklahoma Environmental Quality Code.

b. Representative Samples

Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

c. Averaging of Measurements

Calculations of all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Executive Director in the permit.

d. Additional Monitoring by the Permittee

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 CFR, Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge

Monitoring Report (DMR). Such increased monitoring frequency shall also be indicated on the DMR.

2. Testing Requirements

a. Methods

All sampling and analytical methods used to meet monitoring requirements specified above shall conform to the Act, 40 CFR, Part 136, and DEQ rules and regulations.

b. Maintenance and Calibration

The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instruments at intervals frequent enough to ensure accuracy of measurements and shall maintain appropriate records of such activities.

c. Quality Control

An adequate analytical quality control program, including the analyses of sufficient standards, spikes, and duplicate samples to insure the accuracy to all required analytical results shall be maintained by the permittee or designated commercial laboratory

3. Flow Measurements

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to insure that the accuracy of the measurements is consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 10% from true discharge rates throughout the range of expected discharge rates.

4. Records

a. Contents

Records of monitoring information shall include:

- (1) The date, exact place, and time of sampling or measurements;
- (2) The individual(s) who performed the sampling or measurements;
- (3) The date(s) and time(s) analyses were performed;
- (4) The individual(s) who performed the analyses;
- (5) The analytical techniques or methods used; and
- (6) The results of such analyses.

b. Retention

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date of the sample, measurement, report, or application. This period may be extended by request of the Executive Director at any time.

5. Discharge Monitoring Reports (DMRs)

Monitoring results must be summarized and electronically reported on an electronic Discharge Monitoring Report (eDMR) form through DEQ's e2 electronic reporting system. Reporting periods shall end on the last day of the month. Monitoring reports shall be prepared monthly and electronically submitted to the DEQ no later than the fifteenth (15th) day of the following month. All operating records and reports shall comply with the OPDES Act, the Oklahoma Environmental Quality Code and the requirements of 40 CFR §122.41(j).

Instructions on how to register as a Preparer or Signatory for eDMRs, as well as how to prepare and submit eDMRs, can be found on DEQ's website at <http://www.deq.state.ok.us/wqdnew/ereporting/index.html>. Assistance is also available by contacting DEQ at (405) 702-8100 or deqreporting@deq.ok.gov

6. Noncompliance Reports

a. Twenty-Four Hour Reporting

- (1) The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. The DEQ shall be notified by calling 1-800-256-2365 or 702-8290 (Oklahoma City Metropolitan Area). A written submission shall be provided within five (5) days of the time the permittee becomes aware of the circumstances. The report shall contain the following information:

- (a) A description of the noncompliance and its cause;
- (b) The period of noncompliance including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and,

- (c) Steps being taken to reduce, eliminate, and prevent recurrence of the noncomplying discharge.
- (2) The following shall be included as information which must be reported within 24 hours:
 - (a) Any unanticipated bypass which exceeds any effluent limitation in the permit;
 - (b) Any upset which exceeds any effluent limitation in the permit;
 - (c) Any violation of a maximum daily discharge limit for any of the pollutants listed by the Executive Director in Part I, Section A, and,
 - (d) Any bypass in the collection system [sanitary sewer overflow (SSO)].
- (3) The Executive Director may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.
- b Other Noncompliance

The permittee shall report all instances of noncompliance not reported under Part III, Sections B.5 and B.6.a or the reporting requirements of any Schedule of Compliance included in Part I, Section B at the time monitoring reports are submitted. The reports shall contain the information listed at Part III, Section B.6.a.

7 Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under the Act.

8 Criminal, Civil and Administrative Penalties

Violations of the permit conditions contained in this permit may subject the permittee to state administrative, civil or criminal penalties as set forth in 27A O.S. § 2-6-206 and/or federal penalties as provided for in Title 18 of the United States Code, and regulations promulgated thereto. Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

SECTION C. Other Conditions

1 Permit Application

a. Timely Application

Upon timely application for a permit, any prior permit remains in effect until a new one is issued.

b. Date of Application

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. The application shall be submitted at least 180 days before the expiration date of this permit unless otherwise authorized by the Executive Director. He or she may grant permission to submit an application less than 180 days in advance but no later than the permit expiration date. Continuation of expiring permits shall be governed by regulations promulgated at 40 CFR § 122.6 and any subsequent amendments.

c. Relevant Facts

When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Executive Director, it shall promptly submit such facts or information.

2. Changes

a. Change in discharge

(1) Anticipated Noncompliance

The permittee shall give advance notice of any planned changes in the permitted facility or activity, which may result in noncompliance with permit requirements.

(2) Municipal Permits

Any change in the facility discharge (including the introduction of any new source or significant discharge or significant changes in the quantity or quality of existing discharges to the treatment system that may result in new or increased discharges of pollutants) must be reported to the permitting authorities. In no case are any new connections, increased flows, or significant changes in influent quality permitted that will cause violations or add to existing violations of the effluent limitations specified herein.

(3) Other Permits

The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

- (a) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR § 122.29(b); or,
- (b) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to all pollutants whether or not they are subject to effluent limitations in the permit.

b Transfer of Ownership or Control

This permit is not transferable to any person except after notice to the Executive Director. The Executive Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as necessary under the Act.

3 Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege.

4 Duty to Comply

- a. All authorized discharges shall comply with the rules of the DEQ, which are hereby incorporated by reference: the Act and OPDES Regulations, and all provisions, conditions, and requirements included in this permit.
- b. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of applicable state and federal laws and the Act, the Oklahoma Environmental Quality Code and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
- c. The permittee shall comply with effluent standards or prohibitions established under the Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

5 Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

6. Duty to Halt or Reduce Activity

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

7 Duty to Provide Information

The permittee shall furnish within a reasonable time, any information which the Executive Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish, upon request, copies of records required to be kept by this permit.

8 Permit Modification, Suspension and Revocation

After notice and opportunity for a hearing, as is required by law, this permit may be modified, suspended, revoked and reissued, or terminated during its term in accordance with 40 CFR §§ 122.62 and 122.64, and Title 27 O.S. § 2-6-201 *et seq.*, and the rules of the State of Oklahoma Department of Environmental Quality (DEQ) adopted thereunder {See OAC 252:606}. The filing of a request for a permit modification or reissuance, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

9 Proper Operation and Maintenance

- a. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by permittee as efficiently as possible and in a manner which will minimize upsets and discharges of excessive pollutants and will achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of this permit.
- b. The permittee shall provide an adequate operating staff which is duly qualified to carry out operation, maintenance and testing functions required to insure compliance with the conditions of this permit.
- c. Collected screenings, slurries, sludges and other solids shall be disposed of in accordance with the Oklahoma Solid Waste Management Act and in such a manner as to prevent entry of those wastes (or runoff from the wastes) into waters of the state and in compliance with applicable rules of the DEQ.

10. Power Failure

The permittee is responsible for maintaining adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures either by means of alternative power sources, standby generators, or retention of inadequately treated effluent.

11 Upsets and Bypasses

a. Upsets

- (1) An upset constitutes an affirmative defense to an enforcement action brought for noncompliance with technology-based permit effluent limitations if the following requirements are met. A permittee who wishes to establish the affirmative defense of upset shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - (a) An upset occurred and that the permittee can identify the specific cause(s) of the upset;
 - (b) The permitted facility was at the time being properly operated;
 - (c) The permittee submitted notice of the upset as required in Part III, Section B.6 of this permit;
 - (d) The permittee complied with any remedial measures under Part III, Section C.5
- (2) Burden of Proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

b Bypasses

- (1) Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.
 - (a) Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the reporting requirements of Part III, Sections C.11.b(1) and (2).
 - (b) Bypass exceeding limitations is prohibited, and the Executive Director may take enforcement action against a permittee for bypass, unless:
 - i. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - ii. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and,
 - iii. The permittee submitted notices required by Part III, Section B 6
 - (c) The Executive Director may allow an anticipated bypass that exceeds limitations after considering its adverse effects, if he/she determines that it will meet the three conditions listed at Part III, Section C 11 b.(1)(b).
- (2) Unanticipated bypass. The permittee shall, within 24 hours, submit notice of an unanticipated bypass as required in Part III, Section B 6.

12. Percent Removal

For publicly owned treatment works, the 30-day average (or monthly average) percent removal for Biochemical Oxygen Demand (BOD) and Total Suspended Solids (TSS) shall not be less than 85 percent unless otherwise authorized by the permitting authority in accordance with 40 CFR § 133.103. This requirement may be waived in permits containing mass loading limits for BOD and TSS.

13 Right of Entry

The permittee shall allow the Executive Director, and/or his/her authorized representative(s), upon presentation of credentials and such other documents as may be required by the law to:

- a. Enter upon the permittee's premises or other premises under the control of the permittee, where an effluent source is located or may be located or in which any records are required to be kept under the terms and conditions of this permit;
- b. Have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit, or the Act or DEQ rules;
- c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), maintenance, practices or operations regulated or required under this permit; and

- d. Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the Act, any substances or parameters at any location.

14 Toxic Effluent Standards

- a. Notwithstanding Section III.C.8 of this permit, if any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under the Act for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition.
- b. The permittee is prohibited from discharging any toxic substance in a toxic amount.

15 Signatory Requirements

All applications, reports, or information submitted to the Executive Director shall be signed and certified.

- a. All permit applications shall be signed as follows:

- (1) For a corporation - by a responsible corporate officer For the purpose of this section, a responsible corporate officer means:

- (a) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation; or,
- (b) The manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

- (2) For a partnership or sole proprietorship - by a general partner or the proprietor, respectively

- (3) For a municipality, state, federal, or other public agency - by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a federal agency includes:

- (a) The chief executive officer of the agency, or
- (b) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency

- b. All reports required by the permit and other information requested by the Executive Director shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:

- (1) The authorization is made in writing by a person described above;
- (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company A duly authorized representative may thus be either a named individual or an individual occupying a named position; and,
- (3) The written authorization is submitted to the Executive Director

- c. Certification. Any person signing a document under this section shall make the following certification.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

16. Confidentiality

Except for applications, effluent data, permits, and other data specified in 40 CFR § 122.7, any information submitted pursuant to this permit may be claimed as confidential by the submitter The Executive Director will rule upon such claim in accordance with the Act. If no claim is made at the time of submission, information may be made available to the public without further notice.

PART IV: BIOSOLIDS REQUIREMENTS

PERMIT INSTRUCTIONS TO PERMITTEES

Select only those Elements and Sections that apply to your biosolids/sewage sludge reuse or disposal practice.

If your facility utilizes more than one type of disposal or reuse method (for example, Element 1 and Element 2 apply) or the quality of your biosolids/sewage sludge varies (for example, Section II and Section III of Element 1 apply) use a separate Discharge Monitoring Report (DMR) for each Section that is applicable.

The biosolids/sewage sludge DMRs shall be due by February 19 of each year and shall cover the previous January through December period.

The biosolids/sewage sludge conditions do not apply to wastewater treatment lagoons where biosolids/sewage sludge are not wasted for final reuse/disposal. If the biosolids/sewage sludge is not removed, the permittee shall indicate on the DMR "No Discharge".

NOTE:

The term "Biosolids" refers to municipal solid waste being land applied.

The term "Sewage Sludge" refers to municipal solid waste being disposed of in municipal solid waste landfill.

ELEMENT 1 - LAND APPLICATION

SECTION I: Page 1 - Requirements Applying to All Biosolids Land Application

SECTION II: Page 4 - Requirements Specific to Bulk Biosolids for Application to the Land Meeting Class A or B Pathogen Reduction and the Cumulative Loading Rates in Table 2, or Class B Pathogen Reduction and the Pollutant Concentrations in Table 3

SECTION III: Page 7 - Requirements Specific to Bulk Biosolids Meeting Pollutant Concentrations in Table 3 and Class A Pathogen Reduction Requirements

SECTION IV: Page 8 - Requirements Specific to Biosolids Sold or Given Away in a Bag or Other Container for Application to the Land that does not Meet the Pollutant Concentrations in Table 3

ELEMENT 2 - MUNICIPAL SOLID WASTE LANDFILL DISPOSAL

SECTION I: Page 10 - Requirements Applying to All Municipal Solid Waste Landfill Disposal Activities

ELEMENT 1 - LAND APPLICATION

SECTION I: Requirements Applying to All Land Application of Biosolids

A. General Requirements

- 1 The permittee shall handle and dispose of biosolids in accordance with the Oklahoma Pollutant Discharge Elimination System (OPDES) Act (hereafter "the Act") and all other applicable federal and state regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants which may be present in the biosolids.
- 2 If requirements for biosolids management practices or pollutant criteria become more stringent than the biosolids pollutant limits or acceptable management practices in this permit, or control a pollutant not listed in this permit, this permit may be modified or revoked and reissued to conform to the requirements promulgated under the Act. If new limits for any pollutant in Table 1 below are promulgated prior to permit expiration, then those limits shall become directly enforceable
- 3 In all cases, if the person (permit holder) who prepares the biosolids and/or applies the biosolids to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the biosolids to assure compliance with these regulations.

- 4 The permittee shall give prior notice to the Director, Water Quality Division, State of Oklahoma Department of Environmental Quality (DEQ), 707 North Robinson, Oklahoma City, Oklahoma 73101-1677 of any planned changes in the biosolids disposal practice, in accordance with 40 CFR § 122.41(l)(1)(iii). These changes may justify the application of permit conditions that are different from or absent in the existing permit. Change in the biosolids use or disposal practice may be cause for modification of the permit in accordance with 40 CFR § 122.62(a)(1).

B. Testing Requirements

- 1 Biosolids shall be tested once during the life of the permit within one (1) year from the effective date of the permit in accordance with the method specified at 40 CFR, Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other approved methods. Biosolids shall be tested after final treatment prior to leaving the publicly owned treatment works (POTW) site. Biosolids determined to be a hazardous waste in accordance with 40 CFR, Part 261, shall be handled according to Resource Conservation and Recovery Act (RCRA) standards for the disposal of hazardous waste in accordance with 40 CFR, Part 262. The disposal of biosolids determined to be a hazardous waste, in other than a certified hazardous waste disposal facility shall be prohibited. The DEQ, Waste Management Division at 405-702-5100, shall be notified of test failure within 24 hours. A written report shall be provided to this division within 7 days after failing the TCLP. The report will contain test results, certification that unauthorized disposal has not occurred and a summary of alternative disposal plans that comply with RCRA standards for the disposal of hazardous waste. The report shall be addressed to the Director, Waste Management Division, DEQ, 707 N. Robinson, Oklahoma City, Oklahoma 73101-1677 and a copy sent to the Director, Water Quality Division, DEQ, at the same address.
2. Biosolids shall not be applied to the land if the concentration of the pollutants exceeds the pollutant concentration criteria in Table 1. The frequency of testing for pollutants in Table 1 is found in Element I, Section I.C

TABLE 1

<u>Pollutant</u>	<u>Ceiling Concentration</u> (milligrams per kilogram) (mg/Kg)*
Arsenic	75
Cadmium	85
Copper	4300
Lead	840
Mercury	57
Molybdenum	75
Nickel	420
PCBs	49
Selenium	100
Zinc	7500

* Dry weight basis

3 Pathogen Control

All biosolids that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by either the Class A or Class B pathogen requirements. Biosolids that is applied to a lawn or home garden shall be treated by the Class A pathogen requirements. Biosolids that is sold or given away in a bag shall be treated by the Class A pathogen requirements.

a. Class A Biosolids Requirements:

Six (6) alternatives are available to demonstrate compliance with Class A biosolids. All six (6) options require either the density of fecal coliform in the biosolids be less than 1000 Most Probable Number (MPN) per gram of total solids (dry weight basis), or the density of *Salmonella sp* bacteria in the biosolids be less than three MPN per four grams of total solids (dry weight basis) at the time the biosolids is used or disposed; at the time the biosolids is prepared for sale or given away in a bag or other container for application to the land. Below are the additional requirements necessary to meet the definition of a Class A biosolids.

Alternative 1 The temperature of the biosolids that is used or disposed shall be maintained at a specific value for a period of time. See 40 CFR § 503.32(a)(3)(ii) and Oklahoma Administrative Code (OAC) 252.606 for specific information.

- Alternative 2.
- (i) The pH of the biosolids that is used or disposed shall be raised to above 12 and shall remain above 12 for 72 hours.
 - (ii) The temperature of the biosolids shall be above 52 degrees Celsius for 12 hours or longer during the period that the pH of the biosolids is above 12.
 - (iii) At the end of the 72 hour period during which the pH of the biosolids is above 12, the biosolids shall be air dried to achieve a percent solids in the biosolids greater than 50 percent.

Alternative 3 The biosolids shall be analyzed for enteric viruses prior to pathogen treatment. The limit for enteric viruses is one Plaque-forming Unit per four (4) grams of total solids (dry weight basis) either before or following pathogen treatment. See 40 CFR § 503.32(a)(5)(ii) for specific information. The biosolids shall be analyzed for viable helminth ova prior to pathogen treatment. The limit for viable helminth ova is less than one per four (4) grams of total solids (dry weight basis) either before or following pathogen treatment. See 40 CFR § 503.32(a)(5)(iii) and OAC 252.606 for specific information.

- Alternative 4
- (i) The density of enteric viruses in the biosolids shall be less than one Plaque-forming Unit per four grams of total solids (dry weight basis) at the time the biosolids is used or disposed or at the time the biosolids are prepared for

sale or given away in a bag or other container for application to the land.

- (ii) The density of viable helminth ova in the biosolids shall be less than one per four grams of total solids (dry weight basis) at the time the biosolids are used or disposed or at the time the biosolids are prepared for sale or given away in a bag or other container for application to the land.

Alternative 5 Biosolids shall be treated by one of the Processes to Further Reduce Pathogens (PFRP) described in 40 CFR, Part 503, Appendix B. PFRPs include composting, heat drying, heat treatment, and thermophilic aerobic digestion.

Alternative 6. Biosolids shall be treated by a process that is equivalent to a PFRP, if individually approved by the Pathogen Equivalency Committee representing the DEQ.

b Class B Biosolids Requirements:

Three (3) alternatives are available to demonstrate compliance with Class B biosolids.

- Alternative 1
- (i) Seven separate random samples representative of the biosolids shall be collected for one monitoring episode at the time the biosolids are used or disposed.
 - (ii) The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

Alternative 2: Biosolids shall be treated in one of the Processes to Significantly Reduce Pathogens (PSRP) described in 40 CFR, Part 503, Appendix B.

Alternative 3 Biosolids shall be treated in a process that is equivalent to a PSRP, if individually approved by the Pathogen Equivalency Committee representing the DEQ.

In addition, the following site restrictions must be met if Class B biosolids are land applied:

- (1) Food crops with harvested parts that touch the biosolids /soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
- (2) Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remains on the land surface for four (4) months or longer prior to incorporation into the soil.
- (3) Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remains on the land surface for less than four (4) months prior to incorporation into the soil.
- (4) Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.
- (5) Animals shall not be allowed to graze on the land for 30 days after application of biosolids.
- (6) Turf grown on land where biosolids is applied shall not be harvested for one (1) year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority.
- (7) Public access to land with a high potential for public exposure shall be restricted for one (1) year after application of biosolids.
- (8) Public access to land with a low potential for public exposure shall be restricted for 30 days after application of biosolids.

4 Vector Attraction Reduction Requirements

All bulk biosolids that are applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by one of the following Alternatives 1 through 10 for Vector Attraction Reduction. If bulk biosolids are applied to a home garden, or bagged biosolids are applied to the land, only Alternatives 1 through 8 shall be used.

Alternative 1 The mass of volatile solids in the biosolids shall be reduced by a minimum of 38 %.

Alternative 2: If Alternative 1 cannot be met for an anaerobically digested biosolids, demonstration can be made by digesting a portion of the previously digested biosolids anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30 and 37 degrees Celsius. Volatile solids must be reduced by less than 17 % to demonstrate compliance.

Alternative 3 If Alternative 1 cannot be met for an aerobically digested biosolids, demonstration can be made by digesting a portion of the previously digested biosolids with a percent solid of 2% or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20 degrees Celsius. Volatile solids must be reduced by less than 15 % to demonstrate compliance.

Alternative 4 The specific oxygen uptake rate (SOUR) for biosolids treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius.

Alternative 5 Biosolids shall be treated in an aerobic process for 14 days or longer. During that time, the minimum temperature of the biosolids shall be higher than 40 degrees Celsius and the average temperature of the biosolids shall be higher than 45

degrees Celsius.

- Alternative 6. The pH of biosolids shall be raised to 12 or higher by alkali addition and, without the addition of more alkali, shall remain at 12 or higher for two (2) hours and then at 11.5 or higher for an additional 22 hours.
- Alternative 7. The percent solids of biosolids that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75 % based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in biosolids that have not been treated in either an aerobic or anaerobic treatment process.
- Alternative 8. The percent solids of biosolids that contains unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 90 % based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in biosolids that have not been treated in either an aerobic or anaerobic treatment process.
- Alternative 9.
- (i) Biosolids shall be injected below the surface of the land.
 - (ii) No significant amount of the biosolids shall be present on the land surface within one (1) hour after the biosolids is injected.
 - (iii) When biosolids injected below the surface of the land are Class A with respect to pathogens, the biosolids shall be injected below the land surface within eight (8) hours after being discharged from the pathogen treatment process.
- Alternative 10.
- (i) Biosolids applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six (6) hours after application to or placement on the land.
 - (ii) When biosolids incorporated into the soil are Class A with respect to pathogens, the biosolids shall be applied to or placed on the land within eight (8) hours after being discharged from the pathogen treatment process.

C. Monitoring Requirements

- | | | |
|----|---|------------------|
| 1 | Toxicity Characteristic Leaching Procedure (TCLP) Test performed within one (1) year from the effective date of the permit. | Once/Permit Life |
| 2. | PCBs | Once/Year |
| 3 | All other pollutants shall be monitored at the frequency shown below: | |

<u>Amount of biosolids *</u> <u>(metric tons per 365 day period)</u>	<u>Frequency</u>
0 ≤ Biosolids < 290	Once/Year
290 ≤ Biosolids < 1,500	Once/Quarter
1,500 ≤ Biosolids < 15,000	Once/Two Months
15,000 ≤ Biosolids	Once/Month

*Either the amount of bulk biosolids applied to the land or the amount of biosolids received by a person who prepares biosolids that is sold or given away in a bag or other container for application to the land (dry weight basis).

Representative samples of biosolids shall be collected and analyzed in accordance with the methods referenced in 40 CFR § 503.8(b) and OAC 252.606.

SECTION II: Requirements Specific to Bulk Biosolids for Application to the Land Meeting Class A or B Pathogen Reduction and the Cumulative Loading Rates in Table 2, or Class B Pathogen Reduction and the Pollutant Concentrations in Table 3

For those permittees meeting Class A or B pathogen reduction requirements and that meet the cumulative loading rates in Table 2 below, or the Class B pathogen reduction requirements and contain concentrations of pollutants below those listed in Table 3 found in Element 1, Section III, the following conditions apply:

1 Pollutant Limits:

TABLE 2

<u>Pollutant</u>	<u>Cumulative Pollutant Loading Rate (kilograms per hectare) (kg/ha)</u>
Arsenic	41
Cadmium	39
Copper	1500
Lead	300
Mercury	17
Molybdenum	Report
Nickel	420
Selenium	100
Zinc	2800

2. Pathogen Control

All biosolids that are applied to agricultural land, forest, a public contact site, a reclamation site, or lawn or home garden shall be treated by either Class A or Class B pathogen reduction requirements as defined above in Element 1, Section I.B.3

3 Management Practices

- a. Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk biosolids enter a wetland or other waters of the state, as defined in 40 CFR § 122.2, except as provided in a permit issued pursuant to the Act.
- b. Bulk biosolids shall not be applied within 100 feet of a water of the state.
- c. Bulk biosolids shall be applied at or below the agronomic rate in accordance with recommendations from the following references:
 - (1) *STANDARDS 1992, Standards, Engineering Practices and Data*, 39th Edition (1992) American Society of Agricultural Engineers, 2950 Niles Road, St. Joseph, MI 49085-9659
 - (2) *National Engineering Handbook* Part 651, Agricultural Waste Management Field Handbook (1992), P O Box 2890, Washington, D C 20013
 - (3) Recommendations of local extension services or Soil Conservation Services.
 - (4) Recommendations of a major university's Agronomic Department.
- d. An information sheet shall be provided to the person who receives bulk biosolids that are sold or given away. The information sheet shall contain the following information:
 - (1) The name and address of the person who prepared the biosolids that are sold or given away in a bag or other container for application to the land.
 - (2) A statement that application of the biosolids to the land is prohibited except in accordance with the instructions on the label or information sheet.
 - (3) The annual whole biosolids application rate for the biosolids that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Element 1 Section III below are met.

4 Notification Requirements

- a. If bulk biosolids are applied to land in a state other than the state in which the biosolids are prepared, written notice shall be provided prior to the initial land application to the permitting authority for the state in which the bulk biosolids are proposed to be applied. The notice shall include
 - (1) The location, by either street address or latitude and longitude, of each land application site.
 - (2) The approximate time period bulk biosolids will be applied to the site.
 - (3) The name, address, telephone number, and Oklahoma Pollutant Discharge Elimination System or National Pollutant Discharge Elimination System, whichever is applicable, permit number (if appropriate) for the person who prepares the bulk biosolids.
 - (4) The name, address, telephone number, and Oklahoma Pollutant Discharge Elimination System or National Pollutant Discharge Elimination System, whichever is applicable, permit number (if appropriate) for the person who will apply the bulk biosolids.
- b. The permittee shall give 60 days prior notice to the DEQ of any change planned in the biosolids practice. Any change shall include any planned physical alterations or additions to the permitted treatment works, changes in the permittee's biosolids use or disposal practice, and also alterations, additions, or deletions of disposal sites. These changes may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional disposal sites not reported during the permit application process or absent in the existing permit. Change in the biosolids use or disposal practice may be cause for modification of the permit in accordance with 40 CFR § 122.62(a)(1).

- c. The permittee shall provide the location of all existing biosolids disposal/use sites to the State Historical Commission within 90 days of the effective date of this permit. In addition, the permittee shall provide the location of any new disposal/use site to the State Historical Commission prior to use of the site.
 - d. The permittee shall within 30 days after notification by the State Historical Commission that a specific biosolids disposal/use area will adversely affect a National Historic Site, cease use of such area.
- 5 Recordkeeping Requirements - The biosolids documents will be retained on site at the same location as other OPDES records.
- a. The person who prepares bulk biosolids or a biosolids material shall develop the following information and shall retain the information for **five (5) years**. If the permittee supplies the biosolids to another person who land applies the biosolids, the permittee shall notify the persons who land apply biosolids of the requirements for recordkeeping found in 40 CFR § 503.17 and OAC 252:606.
 - (1) The concentration of milligrams per kilogram (mg/Kg) in the biosolids of each pollutant listed in Table 3 found in Element I, Section III and the applicable pollutant concentration criteria (mg/Kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit of kilograms per hectare (kg/ha) listed in Table 2 above.
 - (2) A description of how the pathogen reduction requirements are met (including site restrictions for Class B biosolids, if applicable).
 - (3) A description of how the vector attraction reduction requirements are met.
 - (4) A description of how the management practices listed above in Section II.3 are being met.
 - (5) The recommended agronomic loading rate from the references listed in Section II.3.c above, as well as the actual agronomic loading rate shall be retained.
 - (6) A description of how the site restrictions in 40 CFR § 503.32(b)(5) and OAC 252:606 are met for each site on which Class B bulk biosolids are applied.
 - (7) The following certification statement:

"I certify, under penalty of law, that the management practices in 40 CFR § 503.14 have been met for each site on which bulk biosolids are applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."
 - (8) A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 40 CFR § 503.17(a)(4)(i)(B) or 40 CFR § 503.17(a)(5)(i)(B) as applicable to the permittees biosolids treatment activities.
 - (9) The permittee shall maintain information that describes future geographical areas where biosolids may be land applied.
 - (10) The permittee shall maintain information identifying site selection criteria regarding land application sites not identified at the time of permit application submission.
 - (11) The permittee shall maintain information regarding how future land application sites will be managed.
 - b. The person who prepares bulk biosolids or a biosolids material shall develop the following information and shall retain the information **indefinitely**. If the permittee supplies the biosolids to another person who land applies the biosolids, the permittee shall notify the persons who land apply biosolids of the requirements for recordkeeping found in 40 CFR § 503.17 and OAC 252:606.
 - (1) The location, by either street address or latitude and longitude, of each site on which biosolids are applied.
 - (2) The number of hectares in each site on which bulk biosolids are applied.
 - (3) The date and time biosolids are applied to each site.
 - (4) The cumulative amount of each pollutant in kilograms/hectare listed in Table 2 applied to each site.
 - (5) The total amount of biosolids applied to each site in metric tons.
 - (6) The following certification statement:

"I certify, under penalty of law, that the requirements to obtain information in 40 CFR § 503.12(e)(2) have been met for each site on which bulk biosolids are applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the requirements to obtain information have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."
 - (7) A description of how the requirements to obtain information in 40 CFR § 503.12(e)(2) and OAC 252:606 are met.
- 6 Reporting Requirements - The permittee shall report annually on the DMR the following information:
- a. Pollutants listed in Table 2 or 3 as appropriate for permittee's land application practices.

- b. The frequency of monitoring listed in Element 1, Section I.C which applies to the permittee.
- c. Toxicity Characteristic Leaching Procedure (TCLP) results (Pass/Fail).
- d. The concentration (mg/Kg) in the biosolids of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/Kg) listed in Table 3 found in Element 1, Section III, or the applicable pollutant loading rate limit (kg/ha) listed in Table 2 above if it exceeds 90% of the limit.
- e. Level of pathogen reduction achieved (Class A or Class B).
- f. Alternative used as listed in Section I.B.3.(a. or b). Alternatives describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how site restrictions were met in the DMR comment section or attach a separate sheet to the DMR.
- g. Vector attraction reduction alternative used as listed in Section I.B 4
- h. Annual biosolids production in dry metric tons/year
- i. Amount of biosolids land applied in dry metric tons/year
- j. Amount of biosolids transported interstate in dry metric tons/year.
- k. The certification statement listed in 40 CFR § 503 17(a)(4)(i)(B) or 40 CFR § 503 17(a)(5)(i)(B) whichever applies to the permittees biosolids treatment activities shall be attached to the DMR.
- l. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the DMR.
 - (1) The location, by either street address or latitude and longitude.
 - (2) The number of hectares in each site on which bulk biosolids is applied.
 - (3) The date and time bulk biosolids is applied to each site.
 - (4) The cumulative amount of each pollutant (i.e., kilograms/hectare) listed in Table 2 in the bulk biosolids applied to each site.
 - (5) The amount of biosolids (i.e., metric tons) applied to each site.
 - (6) The following certification statement:

 "I certify, under penalty of law, that the requirements to obtain information in 40 CFR § 503 12(e)(2) have been met for each site on which bulk biosolids are applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the requirements to obtain information have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."
 - (7) A description of how the requirements to obtain information in 40 CFR § 503 12(e)(2) and OAC 252:606 are met.

SECTION III: Requirements Specific to Bulk or Bagged Biosolids Meeting Pollutant Concentrations in Table 3 and Class A Pathogen Reduction Requirements

For those permittees with biosolids that contain concentrations of pollutants below those pollutant limits listed in Table 3 for bulk or bagged (containerized) biosolids and also meet the Class A pathogen reduction requirements, the following conditions apply (Note: All bagged biosolids must be treated by Class A pathogen reduction requirements.):

- 1 Pollutant Limits - The concentration of the pollutants in the municipal biosolids are at or below the values listed.

TABLE 3

<u>Pollutant</u>	<u>Monthly Average Concentration (milligrams per kilogram) (mg/Kg)*</u>
Arsenic	41
Cadmium	39
Copper	1500
Lead	300
Mercury	17
Molybdenum	Report
Nickel	420
Selenium	36

Zinc

2800

* Dry weight basis

2. Pathogen Control

All bulk biosolids that are applied to agricultural land, forest, a public contact site, a reclamation site, or lawn or home garden shall be treated by the Class A pathogen reduction requirements as defined above in Element I, Section I.B.3. All bagged biosolids must be treated by Class A pathogen reduction requirements.

3 Management Practices - None.

4 Notification Requirements - None.

5 Recordkeeping Requirements - The permittee shall develop the following information and shall retain the information for five (5) years. The biosolids documents will be retained on site at the same location as other OPDES records.

- a. The concentration (mg/Kg) in the biosolids of each pollutant listed in Table 3 and the applicable pollutant concentration criteria listed in Table 3
 - b. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 40 CFR § 503 17(a)(1)(ii) or 40 CFR § 503 17(a)(3)(i)(B), and OAC 252-606 whichever applies to the permittees biosolids treatment activities.
 - c. A description of how the Class A pathogen reduction requirements are met.
 - d. A description of how the vector attraction reduction requirements are met.
- 6 Reporting Requirements - The permittee shall report annually on the DMR the following information.
- a. Pollutants listed in Table 3 as appropriate for permittee's land application practices.
 - b. The frequency of monitoring listed in Element I, Section I.C which applies to the permittee.
 - c. Toxicity Characteristic Leaching Procedure (TCLP) results. (Pass/Fail).
 - d. The concentration (mg/Kg) in the biosolids of each pollutant listed in Table 1 (defined as a monthly average) found in Element I, Section I. In addition, the applicable pollutant concentration criteria listed in Table 3 should be included on the DMR.
 - e. Pathogen reduction Alternative used for Class A bagged or bulk biosolids as listed in Section I.B.3.a.
 - f. Vector attraction reduction Alternative used as listed in Section I.B.4
 - g. Annual biosolids production in dry metric tons/year
 - h. Amount of biosolids land applied in dry metric tons/year.
 - i. Amount of biosolids transported interstate in dry metric tons/year.
 - j. The certification statement listed in 40 CFR § 503 17(a)(1)(ii) or 40 CFR § 503 17(a)(3)(i)(B), and OAC 252:606 whichever applies to the permittees biosolids treatment activities, shall be attached to the DMR.

SECTION IV: Requirements Specific to Biosolids Sold or Given Away in a Bag or Other Container for Application to the Land that Does Not Meet the Pollutant Concentrations in Table 3

1 Pollutant Limits

TABLE 4

<u>Pollutant</u>	<u>Annual Pollutant Loading Rate (kilograms per hectare (kg/ha) per 365 day period)</u>
Arsenic	2.0
Cadmium	1.9
Copper	75.0
Lead	15.0
Mercury	0.85
Molybdenum	Report

Nickel	21.0
Selenium	5.0
Zinc	140.0

2. Pathogen Control

All biosolids that are sold or given away in a bag or other container for application to the land shall be treated by the Class A pathogen requirements as defined in Section I.B.3.a.

3 Management Practices

Either a label shall be affixed to the bag or other container in which biosolids that are sold or given away for application to the land, or an information sheet shall be provided to the person who receives biosolids that are sold or given away in another container for application to the land. The label or information sheet shall contain the following information:

- a. The name and address of the person who prepared the biosolids that are sold or given away in a bag or other container for application to the land.
- b. A statement that application of the biosolids to the land is prohibited except in accordance with the instructions on the label or information sheet.
- c. The annual whole biosolids application rate for the biosolids that will not cause any of the annual pollutant loading rates in Table 4 above to be exceeded.

4 Notification Requirements - None.

5 Recordkeeping Requirements - The biosolids documents will be retained on site at the same location as other OPDES records.

The person who prepares biosolids or a biosolids material shall develop the following information and shall retain the information for five (5) years.

- a. The concentration in the biosolids of each pollutant listed above in found in Element 1, Section I, Table 1
- b. The following certification statement found in 40 CFR § 503.17(a)(6)(iii).

"I certify, under penalty of law, that the management practices in 40 CFR § 503.14(e), the Class A pathogen requirement in 40 CFR § 503.32(a), and the vector attraction reduction requirement in (insert vector attraction reduction option) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices, pathogen requirements, and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment"

- c. A description of how the Class A pathogen reduction requirements are met.
- d. A description of how the vector attraction reduction requirements are met.
- e. The annual whole biosolids application rate for the biosolids that does not cause the annual pollutant loading rates in Table 4 to be exceeded. See Appendix A to 40 CFR, Part 503 - Procedure to Determine the Annual Whole Sludge Application Rate for Biosolids.

6 Reporting Requirements - The permittee shall report annually on the DMR the following information.

- a. Pollutant listed in Table 4 as appropriate for permittee's land application practices.
- b. The frequency of monitoring listed in Element 1, Section I.C which applies to the permittee.
- c. Toxicity Characteristic Leaching Procedure (TCLP) results (Pass/Fail).
- d. The concentration (mg/Kg) in the biosolids of each pollutant listed above in Table 1 (defined as a monthly average) found in Element 1, Section I.
- e. Class A pathogen reduction Alternative used as listed in Section I.B.3.a. Alternatives describe how the pathogen reduction requirements are met.
- f. Vector attraction reduction Alternative used as listed in Section I.B.4
- g. Annual biosolids production in dry metric tons/year.
- h. Amount of biosolids land applied in dry metric tons/year.
- i. Amount of biosolids transported interstate in dry metric tons/year.
- j. The following certification statement found in 40 CFR § 503.17(a)(6)(iii) shall be attached to the DMR.

"I certify, under penalty of law, that the management practice in 40 CFR § 503.14(e), the Class A pathogen requirement in 40 CFR § 503.32(a), and the vector attraction reduction requirement (insert appropriate option) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel gather and evaluate the information used to determine that the management practice, pathogen requirements, and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment."

ELEMENT 2 - MUNICIPAL SOLID WASTE LANDFILL DISPOSAL

SECTION I: Requirements Applying to all Sewage Sludge Disposed in a Municipal Solid Waste Landfill

- 1 The permittee shall handle and dispose of sewage sludge in accordance with the Act and all other applicable federal and state regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge meets the requirements in 40 CFR, Part 258 concerning the quality of the sewage sludge disposed in the municipal solid waste landfill (MSWLF) unit.
- 2 If requirements for the sewage sludge management practices or pollutant criteria become more stringent than the sewage sludge pollutant limits or acceptable management practices in this permit, or control a pollutant not listed in this permit, this permit may be modified or revoked and reissued to conform to the requirements promulgated under the Act.
- 3 If the permittee generates sewage sludge and supplies that sewage sludge to the owner or operator of a MSWLF for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.
- 4 The permittee shall give prior notice to the Director, Water Quality Division, DEQ, 707 N Robinson, Oklahoma City, Oklahoma 73101-1677, of any planned changes in the sewage sludge disposal practice, in accordance with 40 CFR § 122.41(l)(1)(iii). These changes may justify the application of permit conditions that are different from or absent in the existing permit. Change in the sewage sludge use or disposal practice may be cause for modification of the permit in accordance with 40 CFR § 122.62(a)(1).
- 5 The permittee shall provide the location of all existing sewage sludge disposal/use sites to the State Historical Commission within 90 days of the effective date of this permit. In addition, the permittee shall provide the location of any new disposal/use site to the State Historical Commission prior to use of the site.

The permittee shall within 30 days after notification by the State Historical Commission that a specific sewage sludge disposal/use area will adversely affect a National Historic Site, cease use of such area.

- 6 Sewage sludge shall be tested once during the life of the permit within one (1) year from the effective date of the permit in accordance with the method specified at 40 CFR, Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other approved methods. Sewage sludge shall be tested after final treatment prior to leaving the POTW site. Sewage sludge determined to be a hazardous waste in accordance with 40 CFR, Part 261, shall be handled according to RCRA standards for the disposal of hazardous waste in accordance with 40 CFR, Part 262. The disposal of sewage sludge determined to be a hazardous waste, in other than a certified hazardous waste disposal facility shall be prohibited. The DEQ, Waste Management Division at (405) 271-5338, shall be notified of test failure within 24 hours. A written report shall be provided to this office within 7 days after failing the TCLP. The report will contain test results, certification that unauthorized disposal has not occurred and a summary of alternative disposal plans that comply with RCRA standards for the disposal of hazardous waste. The report shall be addressed to the Director, Waste Management Division, DEQ, 707 N. Robinson, Oklahoma City, Oklahoma 73101-1677, and a copy sent to the Director, Water Quality Division, DEQ, at the same address.
- 7 Sewage sludge shall be tested as needed, or at a minimum, once/year in accordance with the method 9095 (Paint Filter Liquids Test) as described in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods" (EPA Pub. No. SW-846).
- 8 Recordkeeping Requirements - The permittee shall develop the following information and shall retain the information for five (5) years.
 - a. The description, including procedures followed, and results of the Paint Filter Tests performed.
 - b. The description, including procedures followed, and results of the TCLP Test.
- 9 Reporting Requirements - The permittee shall report annually on the Discharge Monitoring Report the following information:
 - a. Results of the Toxicity Characteristic Leaching Procedure Test conducted on the sewage sludge to be disposed (Pass/Fail).
 - b. Annual sewage sludge production in dry metric tons/year
 - c. Amount of sewage sludge disposed in a municipal solid waste landfill in dry metric tons/year.
 - d. Amount of sewage sludge transported interstate in dry metric tons/year.
 - e. A certification that the sewage sludge meets the requirements in 40 CFR, Part 258 concerning the quality of the sewage sludge disposed in a municipal solid waste landfill unit shall be attached to the DMR.

f:\standard municipal permit documents\part iv doc
updated 02/01/06

DEQ Form
606-002B
July 5, 2017



Oklahoma Department of Environmental Quality
Notice of Intent (NOI)
for Stormwater Discharges Associated with Industrial Activity
under the OPDES Multi-Sector General Permit OKR05

Submission of this NOI constitutes notice that the party identified in Section I of this form intends to be authorized by DEQ for stormwater discharges associated with industrial activity in the State of Oklahoma. Becoming a permittee obligates such discharger to comply with the terms and conditions of the OKR05 permit. To obtain an authorization from DEQ, this form must be complete with all the pertinent information.

See instructions for completing the NOI on pages 3 and 4 of this form.

☐ NEW APPLICATION, ☐ MODIFICATION or ☒ RENEWAL of current permit, enter the authorization number: OKR052270

I. Operator Information

Operator Name: Jenks Public Work Authority / Veolia North America-Central L.L.C. Phone: (918) 299-3951
Mailing Address: 12301 South Florence
City: Jenks State: OK Zip Code: 74037
Operator's Point of Contact: Wade Geffre Title: Project Manager
Phone: (334) 763-0701 E-mail: wade.geffre@veolia.com

II. Facility Information

Facility Name: Jenks WWTP Phone: (918) 299-3951
Facility Address: 12301 South Florence
City: Jenks County: Tulsa State: OK Zip Code: 74037
Facility's Point of Contact: Wade Geffre Title: Project Manager
Phone: (334) 763-0701 E-mail: wade.geffre@veolia.com
Facility's Type of Ownership: ☐ Federal ☐ State ☒ Municipal ☐ Public ☐ Private
Latitude: 35°59'10.8"N Longitude: 95°56'24.9"W at the entrance of the Facility
SIC or Designated Activity Code and Sector: Primary: TW Sector: T Secondary: Sector:
Total Area of the Facility: 6.50 (acres) Total Impervious Area at the Facility: 2.50 (acres)
Estimated Area of Industrial Activity at your Facility exposed to Stormwater: 2.50 (acres)

Endangered Species Eligibility

- a. ☐ My facility is not located in or draining to Federal and State sensitive waters and watersheds.
b. ☒ My facility is located in or drains to Federal and State sensitive waters and watersheds and I agree to implement the control measures specified in Step 2 of Appendix A.
c. ☐ I am relying on another permittee's certification of eligibility and agree to comply with any conditions of that certification.

III. Facility Discharge Information

Does the facility discharge stormwater into a MS4? ☐ Yes ☒ No, If yes, name of the MS4 Operator: _____
Is the facility required to submit Discharge Monitoring Report due to sector-specific requirement? ☐ Yes ☒ No; If yes, what is your applicable sector? A ☐ C ☐ D ☐ E ☐ J ☐ K ☐ L ☐ O ☐ S ☐; Discharges to impaired water monitoring: ☐ Yes ☒ No
Is the facility's stormwater discharge covered by a separate individual or general permit? ☐ Yes ☒ No, If yes, enter the OPDES Permit Number: _____

Outfall and Receiving Water Information				
Outfall ID	Latitude/Longitude	Name of the Receiving Waterbody	Is this waterbody impaired? If so, what are its impairments?	Is there a TMDL for that impairment?
001	35°59'13.9"N	Arkansas River	☒ Yes ☐ No	☐ Yes ☒ No
	95°56'25.9"W		Enterococc, Lead & Turbidity	
002	35°59'15.2"N	Arkansas River	☒ Yes ☐ No	☐ Yes ☒ No
	95°56'24.0"W		Enterococc, Lead & Turbidity	
003	35°59'13.6"N	Arkansas River	☒ Yes ☐ No	☐ Yes ☒ No
	95°56'19.8"W		Enterococc, Lead & Turbidity	
004	35°59'13.2"N	Arkansas River	☒ Yes ☐ No	☐ Yes ☒ No
	95°56'19.3"W		Enterococc, Lead & Turbidity	
005	35°59'12.3"N	Arkansas River	☒ Yes ☐ No	☐ Yes ☒ No
	95°56'18.3"W		Enterococc, Lead & Turbidity	
006	35°59'09.5"N	Arkansas River	☒ Yes ☐ No	☐ Yes ☒ No
	95°56'20.6"W		Enterococc, Lead & Turbidity	
007			☐ Yes ☐ No	☐ Yes ☐ No

Note: use additional sheet of paper if the facility has more than 7 outfalls.

IV. Stormwater Pollution Prevention Plan (SWP3) Information

Has the SWP3 been prepared in accordance with 2017 OKR05 Permit in advance of filing this NOI? ☒ Yes ☐ No

Is the SWP3 properly certified and available at the Facility? ☒ Yes ☐ No

Proposed **Best Management Practices** to control pollution in the stormwater discharges, check all that apply:

☐ Sediment Basin	☐ Sediment Trap	☐ Ret/Detention Pond	☒ Vegetated Buffer
☐ Vegetative Swale	☐ Runoff Infiltration	☐ Runoff Diversion/Berm	☐ Inlet Protection
☒ Secondary Containment	☐ Dust Collection System	☐ Covered Material Storage	☐ Indoor Vehicle Maint.
☒ Good housekeeping	☒ Employee Training	☒ Spill Prevention Plans	☐

V. Certification

I certify under penalty of law that I have read and understand Part 1 of the permit eligibility requirements for coverage under the Stormwater Multi-Sector Industrial General Permit OKR05, including those requirements relating to the protection of endangered or threatened species or critical habitat in Appendix A. Furthermore, this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I understand that continued coverage under the Stormwater Multi-Sector Industrial General Permit OKR05 is contingent upon maintaining eligibility as provided for in Part 1 of the Permit.

Print Name: Wade A. Geffre Title: Project Manager

Signature: Wade A. Geffre Date: 9-1-2022

For DEQ use only: Assigned Authorization Number: OKR05 _____

City of Jenks, OK WWTP Site Map



Significant Structures

- A - Screenings and Grit
- B - Secondary Treatment Orbital
- C - Secondary Clarifiers (2)
- D - RAS & WAS Pump Building
- E - Maintenance Shop & Storage
- F - Aerobic Digester
- G - Influent Equalization Basin
- H - Administration & Laboratory Building
- I - Diesel Generator (Trailer Mounted)
- J - Aeration Blower Building
- K - Parts & Small Equipment Storage Building
- L - Sludge Drying Beds
- M - Sludge Storage Area and Designated Wash Down Area
- N - Solid Waste Dumpster
- O - Backup Sludge Dumpster Area
- P - Sludge Dumpster Areas
- Q - Effluent Discharge

D - Storm Drainage Outlet Location

City of Jenks, OK WWTP Stormwater Drainage Map



Legend

	Asphalt Paved Area
	Sheet Flow
	Point Source Flow
	Property Boundary
	Facility / Structure
	Storm Drain Location

- No known locations or sources of run-on to the site from adjacent property that contains significant quantities of pollutants

City of Jenks, OK WWTP USGS Map

- Map identifying all receiving waters within one mile of facility
- Jenks WWTP located in the red oval on the map

