



MONTHLY OPERATIONAL REPORT
City of Broken Arrow Lynn Lane Wastewater Treatment Facility
November-18

		WEATHER			INFLUENT								OXIDATION DITCH					SLUDGE				FINAL EFFLUENT												STREAM SURVEILLANCE																
Date	Day	°F	Rain	Cloud Conditions	Flow (MGD)	RAS (MGD)	°C	pH	Alk.	Sett. Solids	TSS (mg/L)	BOD (mg/L)	D.O. (mg/L)	30 Min. Sett.	SVI (ml/gm)	MLSS (mg/L)	Sl. Age (Days)	WAS (MGD)	CAKE (%)	LANDFILL (Tons)	LANDFILL (D.M. Tons)	°C	D.O. (mg/L)	TDS (mg/L)	TDS (lbs)	pH	Alk.	TSS (mg/L)	TSS (lbs)	BOD (mg/L)	BOD (lbs)	Hg	Hg (lbs.)	E.Coli	Cl2 Res	Flow (MGD)	°C Upstr.	°C Dnstr.	D.O. Upstr.	D.O. Dnstr.	pH Upstr.	pH Dnstr.	App. Upstr.	App. Dnstr.	Fec. Coli. Upstr.	Fec. Coli. Dnstr.	Hrds.			
1	Thur	57	0.17	cloudy	3.935	3.083	20	7.5	259	9	146	215	0.2	330	161	2,050	14	0.214	16	39.04	6.06	19	7.7			7.3	154	2.00	47.92	9.00	215.65				0.03	2.873														
2	Fri	63	0.00	clear	4.283	2.732	20	7.5	261	16	294	386	0.2	280	144	1,940	6	0.216	16	18.08	2.81	19	7.8			7.3	151								0.03	3.102														
3	Sat	67	0.41	cloudy	4.096	2.830	20	7.6	293	12			1.6	300				0.238				19	7.5			7.3	175								0.03	2.982														
4	Sun	60	0.01	cloudy	4.450	2.600	20	7.5	251	15			1.8	270				0.211				19	7.6			7.3	162	2.00	53.63	8.00	214.50				0.03	3.215														
5	Mon	71	0.10	cloudy	4.592	3.009	20	7.4	300	8	162	227	0.2	250	102	2,460	13	0.195	14	59.09	8.03	20	7.2	435	11,979	7.3	157	2.00	55.08	7.00	192.77	0.00005	0.0014		0.03	3.302														
6	Tues	66	0.00	cloudy	4.392	3.192	20	7.4	302	15	262	277	0.2	290	159	1,820	6	0.200	14	38.66	5.25	20	7.2			7.4	173	2.00	52.94	9.00	238.24			1.0	0.03	3.174														
7	Wed	62	0.00	cloudy	4.070	3.249	20	7.4	303	16	262	282	0.3	300	153	1,960	7	0.203	15	58.73	8.55	20	7.3			7.3	170	3.00	74.66	15.00	373.30				0.03	2.984														
8	Thur	49	0.14	cloudy	3.975	3.256	20	7.5	271	7.5	99	205	0.9	260	142	1,830	19	0.216	15	14.25	2.07	20	7.6			7.2	160	2.00	47.92	10.00	239.61				0.03	2.873														
9	Fri	49	0.00	p. cloudy	3.964	3.146	19	7.5	260	15	198	332	1.2	220	149	1,475	8	0.228				19	7.7			7.3	157								0.03	2.892														
10	Sat	48	0.00	clear	3.749	3.366	19	7.5	305	19			2.0	220				0.214				19	7.8			7.3	146								0.03	2.816														
11	Sun	50	0.00	cloudy	4.025	3.145	20	7.6	310	18			2.0	210				0.210				19	7.7			7.4	141	3.00	72.93	15.00	364.67				0.03	2.915														
12	Mon	45	0.22	cloudy	4.142	1.879	19	7.6	294	9	218	261	0.4	160				0.209				18	7.5			7.3	155	4.00	99.98	12.00	299.94				0.03	2.997														
13	Tues	35	0.00	p. cloudy	4.446	2.642	18	7.5	280	16	256	389	0.6	150	74	2,030	7	0.198	15	43.27	6.30	16	7.3			7.3	170	4.00	105.88	16.00	423.54			16.0	0.03	3.174														
14	Wed	42	0.00	clear	4.170	3.254	18	7.5	268	17	120	292	0.7	170	101	1,680	13	0.198	15	36.77	5.35	17	7.7			7.3	165	3.00	71.81	13.00	311.17				0.03	2.870														
15	Thur	64	0.00	clear	4.080	3.130	19	7.5	287	5	159	304	0.4	120	57	2,100	13	0.211	16	20.68	3.21	16	7.9			7.3	166	4.00	95.64	14.00	334.75				0.03	2.867														
16	Fri	67	0.00	clear	3.979	3.680	19	7.5	275	15	202	389	0.2	200	97	2,060	10	0.209	16	23.52	3.65	17	7.6			7.3	178								0.03	2.868														
17	Sat	69	0.00	clear	3.759	3.263	20	7.6	298	5			1.1	170				0.219				20	7.8			7.4	170								0.03	2.687														
18	Sun	43	0.00	cloudy	3.937	3.174	20	7.7	296	4			1.3	200				0.221				19	7.9			7.4	170	4.00	94.51	15.00	354.41				0.03	2.833														
19	Mon	53	0.00	p. cloudy	4.079	3.688	19	7.5	297	19	126	274	0.3	210	105	2,000	16	0.206	14	18.45	2.51	18	7.8			7.4	175	4.00	96.81	13.00	314.63				0.03	2.902														
20	Tues	54	0.00	clear	3.866	3.047	18	7.5	285	20	154	284	0.5	220	109	2,020	14	0.205	14	43.24	5.87	17	7.8			7.4	187	4.00	93.57	12.00	280.72			2.0	0.03	2.805														
21	Wed	62	0.00	clear	3.851	3.358	17	7.5	293	15	346	461	0.4	220				0.213	11	39.99	4.27	17	7.6			7.2	184	4.00	93.41	13.00	303.58				0.03	2.800														
22	Thur	62	0.00	clear	3.969	2.401	19	7.3	290	16	308	317	0.5	250				0.214	11	18.90	2.02	19	7.8			7.4	159	4.00	97.41	14.00	340.94				0.03	2.920														
23	Fri	64	0.00	cloudy	3.872	3.100	19	7.4	310	17	296	358	0.3	270				0.230				18	7.7			7.4	176								0.03	2.777														
24	Sat	74	0.00	clear	3.641	3.100	18	7.4	301	20			0.4	270				0.208				19	7.6			7.3	179							0.03	2.673	PARTIAL WEEKLY AVG.NO.'s														
25	Sun	60	0.00	cloudy	3.794	3.234	19	7.4	308	19			0.2	250				0.188				18	7.4			7.4	175	4.00	91.04	15.00	341.40				0.03	2.729	Date	Week No.	TSS	BOD										
26	Mon	44	0.00	p. cloudy	4.003	3.694	18	7.5	283	20	290	334	0.3	340	142	2,390	8	0.183	13	43.49	5.49	17	7.9			7.4	191	3.00	71.36	11.00	261.64				0.03	2.852														
27	Tues	47	0.00	clear	3.764	3.565	19	7.5	285	22	370	397	0.3	310	133	2,330	7	0.202	24	40.98	9.54	17	7.9			7.3	181	4.00	89.10	12.00	267.31			5.0	0.03	2.671														
28	Wed	60	0.00	cloudy	3.668	3.364	18	7.5	284	21	294	380	0.2	350	162	2,160	8	0.200	15	39.96	5.82	17	7.8			7.3	183	3.00	64.80	12.00	259.21				0.03	2.590														
29	Thur	72	0.00	p. cloudy	3.747	3.479	19	7.5	293	22	456	464	0.2	310	123	2,530	6	0.220	12	21.50	2.50	18	7.6			7.3	180	4.00	87.80	10.00	219.51				0.03	2.632														
30	Fri	70	0.42	p. cloudy	3.642	3.288	19	7.5	275	18	422	436	0.2	350	158	2,210	6	0.213	12	36.79	4.28	18	7.4			7.4	195								0.03	2.592														
31																																																		
TOTAL :			1.47		119.940															655.39	93.57														86.367	TSS	2.20	3.60	4.00	3.60										
MIN :		35	0.00		3.641	1.879	17	7.3	251	4	99	205	0.2	150	57	1,475	6	0.183	11	33.00		16	7.2			7.2	141	2.00		7.00				1.0	0.03	2.590	BOD	9.80	14.00	13.40	12.00									
MAX :		74	0.42		4.592	3.694	20	7.7	310	77	456	464	2.0	200	162	2,530	19	0.238	24	59.09	9.54	20	7.9	435		7.4	195	4.00		14.00		0.05000		16.0	0.03	3.302														
AVG :		58			3.998	3.132	19			15	247	330		193	126			0.210	15	34.49	4.92			435	11,979			3.29	78.96	12.14	292.93	0.05000	0.0014		2.879															

REMARKS : No solids test run due the holidays

Electrical Costs :	15,638.23
Labor Costs :	75,317.98
Chemicals, Lab Supplies & Services :	19,988.85
Repairs, Maint., Services & Admin. :	34,871.60
Sludge (Generation & Transportation) :	18,936.49
TOTAL COSTS :	164,753.15
COST / TRTD. 1000 GAL :	1.91

I hereby certify the