CITY OF BROKEN ARROW
Where opportunity lives

MONTHLY OPERATIONAL REPORT

City of Broken Arrow Lynn Lane Wastewater Treatment Facility

July-19

		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. Settl.	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.	Hrdss.
1	Mon	91	0.03	clear	5.169	2.840	22	7.4	323	65	214	193	0.2	140	28	5,015	18	0.198	26	44.44	11.21	23	7.1			7.5	172	2.00	52.84	4.00	105.68			1.0	0.05	3.168											
2	Tue			cloudy	5.016	3.224	22	7.4	263	16	248	221	0.2	150	37	4,008	13	0.214	28	22.49	6.11	23	7.1			7.5	188	2.00	48.84	6.00	146.52			2.0	0.05	2.928											
3	Wed			clear	5.190	3.260	22	7.4	214	12	320	213	0.2	150	40	3,780	9	0.208	20	40.28	7.82	22	7.1			7.4	177	3.00	72.83	5.00	121.39				0.05	2.911											
4	Thur			p. cloudy	5.335	3.131	23	7.3	275	16	358	226	0.1	160				0.189	20	18.59	3.61	23	6.9			7.4	165	2.00	55.54	5.00	138.86				0.05	3.330											
5	Fri			clear	5.043	3.185	22	7.4	320	19	474	261	0.1	180				0.202	20	64.39	12.49	24	6.9			7.4	171								0.05	3.185											
6	Sat	92	0.02	cloudy	4.837	2.982	22	7.3	309	18			0.1	200				0.199	20	44.78	8.69	24	7.1			7.4	175								0.05	3.041											
7	Sun			cloudy	5.257	2.883	22	7.2	245	17			0.2	200				0.197				23	6.9	450	12,374	7.3	160	2.00	54.99	4.00	109.99	0.00005	0.0014		0.05	3.297											
8	Mon			cloudy	5.280	2.755	23	7.5	327	15	306	193	0.2	160	23	7,105	18	0.215	17	18.43	3.04	24	6.9			7.4	160	2.00	55.48	4.00	110.96			1.0	0.05	3.326											
9	Tue			clear	5.152	3.282	23	7.4	330	17	290	221	0.2	190	40	4,795	13	0.208	17	24.88	4.10	22	7.1			7.4	170	2.00	53.39	4.00	106.79			1.0	0.05	3.201											
10	Wed	95	0.16	p. cloudy	4.932	3.159	23	7.3	266	18	272	233	0.3	190	34	5,585	17	0.183	25	42.64	10.34	24	6.7			7.4	160	2.00	51.81	4.00	103.62				0.05	3.106											
11	Thur			clear	4.890	3.089	23	7.5	335	8	142	140	0.3	190	56	3,377	19	0.197	24	42.59	9.92	24	7.1			7.4	178	2.00	65.99	6.00	197.96				0.05	3.956											
12	Fri			clear	4.788	3.210	22	7.3	270	5	94	176	0.2	200	45	4,488	40	0.197	24	37.49	8.73	23	7.0			7.5	191								0.05	2.968											
13	Sat			clear	4.654	3.210	22	7.3	268	6			0.2	220				0.196				24	7.0			7.5	184								0.05	2.928											
14	Sun			clear	4.611	3.108	22	7.3	265	15			0.1	250				0.206				24	7.0			7.4	155	2.00	48.12	5.00	120.30				0.05	2.885											
15	Mon			cloudy	4.609	2.992	23	7.3	267	3	92	154	0.2	160	28	5,779	55	0.473	21	22.17	4.52	23	7.0			7.5	165	2.00	48.16	4.00	96.31			1.0	0.05	2.887											
16	Tue	96	0.01	clear	4.361	2.879	23	7.1	225	1.5	166	138	0.2	210	72	2,910	16	0.203	21	42.00	8.56	23	6.9			7.5	183	2.00	43.94	3.00	65.90			1.0	0.33	2.634											
17	Wed			clear	4.945	2.534	23	7.5	354	1	64	154	0.2	200	63	3,175	40	0.197	22	43.28	9.24	23	6.9			7.5	190	2.00	51.74	5.00	129.35				0.05	3.102											
18	Thur			clear	4.749	2.520	24	7.6	358	7	110	186	0.3	220	75	2,930	22	0.190	21	41.24	8.40	24	6.8			7.5	194	2.00	49.01	6.00	147.02				0.05	2.938											
19	Fri			clear	4.767	2.547	24	7.5	355	5.5	118	192	0.5	230	77	3,005	21	0.188	23	39.16	8.74	24	6.9			7.5	196								0.05	2.893											
20	Sat			clear	4.690	3.244	23	7.3	272	4			0.2	240				0.208	23	20.23	4.51	24	6.7			7.4	194								0.05	2.412											
21	Sun			p. cloudy	4.690	3.004	23	7.3	266	6			0.1	260				0.206				24	6.8			7.4	178	3.00	63.93	6.00	127.85				0.05	2.555											
22	Mon			cloudy	4.811	2.932	23	7.4	254	5	168	150	0.2	250	92	2,715	13	0.191	25	40.69	9.87	23	6.9			7.4	169	2.00	48.56	5.00	121.39			1.0	0.05	2.911											
23	Tue			clear	4.885	2.940	23	6.6	382	250	2336	134	0.2	300	78	3,850	1	0.224	21	40.55	8.26	23	7.0			7.5	186	2.00	50.72	5.00	126.81			2.0	0.05	3.041											
24	Wed			clear	4.367	2.748	24	7.5	344	11	216	194	0.4	320	132	2,430	10	0.200	16	137.80	21.39	24	6.8			7.4	184	2.00	45.60	5.00	114.01				0.05	2.734	PARTIAL WEEKLY AVG.NO.'s										
25	Thur			clear	4.714	2.713	24	7.5	348	5	138	235	0.4	280	102	2,755	17	0.190	21	62.74	12.78	23	6.7			7.4	191	3.00	71.48	5.00	119.14				0.05	2.857	Date	Week No.		TSS	BOD						
26	Fri	88	0.00	clear	5.980	2.625	24	7.5	313	18	212	240	0.2	270	109	2,470	8	0.204	18	15.29	2.67	24	6.8			7.5	200								0.05	2.732	6/30	1		2.00	4.00						
27	sat			clear	3.851	2.624	2	7.4	285	16			0.2	280				0.197				24	6.9			7.4	198								0.05	2.962	8/1	5		2.00	4.00						
28	Sun	94	0.00	clear	4.228	2.491	23	7.3	278	14			0.2	270				0.200				25	6.8			7.4	176	2.00	44.17	4.00	88.34				0.05	2.648											
29	Mon	91	0.35	cloudy	4.389	2.579	24	7.3	263	7	122	187	0.1	280	129	2,175	16	0.210	19			24	6.7			7.5	167	2.00	46.80	4.00	93.61			1.0	0.05	2.806											
30	Tue	93	0.01	clear	4.821	3.498	24	7.5	286	2	120	137	0.1	250	125	2,005	14	0.201	19	21.33	3.93	24	6.9			7.5	182	2.00	50.26	5.00	125.64			1.0	0.05	3.013											
31	Wed	95	0.00	clear	4.514	3.221	25	7.5	342	5	138	186	0.2	270	78	3,445	22	0.198	19	16.31	3.01	24	6.9			7.5	177	3.00	71.18	6.00	142.36				0.05	2.845											
TOTAL :			0.58		149.525															943.79	191.94													1.1		92.200	TSS	2.20	2.00	2.00	2.40	2.20					
MIN :		88	0.00		3.851	2.491	2	6.6	214	1	64	134	0.1	150	23	2,005	1	0.183	16	44.00		22	6.7			7.3	155	2.00		3.00				1.0	0.05	2.412	BOD	4.80	4.40	4.60	5.20	4.60					
MAX :		96	0.35		5.980	3.498	25	7.6	382	77	2336	261	0.5	200	132	7,105	55	0.473	28	137.80	21.39	25	7.1	450		7.5	200	2.40		5.20		0.05000		2.0	0.33	3.956											
AVG :		93			4.823	2.949	22			20	292	190		193	70			0.209	21	39.32	8.00			450	12,374			2.17	54.15	4.78	119.99	0.05000	0.0014			2.974											

REMARKS : High effluent CL2 due to plant/head works coming back online
Weather station didn't provide any data

Electrical Costs :	18,328.78
Labor Costs :	46,566.87
Chemicals, Lab Supplies & Services :	14,768.84
Repairs, Maint., Services & Admin. :	15,122.84
Sludge (Generation & Transportation) :	27,084.49
TOTAL COSTS :	121,871.82
COST / TRTD. 1000 GAL :	1.32

I hereby certify the above to be correct to the best of my knowledge.

Signed :

Title : LLWWTP Asst. Manager