CITY OF BROKEN ARROW
Where opportunity lives

MONTHLY OPERATIONAL REPORT

City of Broken Arrow Lynn Lane Water Reclamation Facility

January-24

		WEATHER			INFLUENT							EAST OXIDATION DITCH					WEST OXIDATION DITCH					SLUDGE WASTING					DIGESTER			FINAL EFFLUENT																		
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)	D.O. (mg/L)	30 Min. Settl.	SVI (ml/gm)	MLSS (mg/L)	Sl. Age (Days)	WAS (MGD)	WAS MLSS (mg/L)	CAKE (%)	LANDFILL (Tons)	LANDFILL (D.M. Tons)	THK EFFL MLVSS (mg/L)	BP FEED MLVSS (mg/L)	VECTOR ATT RED. (%)	°C	D.O. (mg/L)	TDS (mg/L)	TDS (lbs)	pH	Alk.	TSS (mg/L)	TSS (lbs)	BOD (mg/L)	BOD (lbs)	Hg (mg/L)	Hg (lbs.)	E.Coli	Cl2 Res	CL2 lbs/day	Effl. Flow (MGD)	Non-Potable (MGD)
1	Mon	42	0.00	Cloudy	5.136	7.612	18	7.5	289	90	800	491						1.2	800				0.190								18	7.8	491	17,289	7.5	189	4.40	154.93	4.00	140.85	0.00005	0.0018		0.04	0	4.222	0.285
2	Tue	43	0.00	Cloudy	5.184	7.587	18	7.5	287	18	292	311						0.9	700	186	3,770	20	0.190	5,310	12	72.66	8.46				17	7.6			7.5	196	3.90	125.45	6.00	193.00			1.0	0.04	0	3.857	0.298
3	Wed	51	0.00	Clear	5.208	7.713	17	7.5	287	18	462	280						0.6	710	193	3,670	12	0.190	5,440	11	36.95	3.94	18,675	11,650	38	17	7.6			7.4	186	4.10	137.15	4.00	133.81				0.04	0	4.011	0.288
4	Thu	52	0.00	Clear	5.166	7.711	17	7.6	305	18	272	288						0.5	730	206	3,550	20	0.190	5,060	10	57.29	5.56				18	6.8			7.4	185	3.50	112.62	9.00	289.58				0.04	0	3.858	0.279
5	Fri	40	0.35	Cloudy	5.124	7.729	18	7.6	303	26	310	432						0.7	620	176	3,530	18	0.190	5,690	11	31.58	3.37	18,900	11,600	39	18	6.8			7.5	202									0.04	0	3.980	0.268
6	Sat	40	0.00	Cloudy	5.094	8.274	18	7.5	280	16								1.7	750				0.190								17	7.7			7.5	180								0.04	0	4.102	0.282
7	Sun	53	0.01	Cloudy	5.233	8.210	18	7.5	287	16								1.6	700				0.190								17	7.6			7.5	176	2.70	96.33	3.00	107.04				0.04	0	4.278	0.276
8	Mon	46	0.81	Cloudy	5.385	8.175	18	7.5	307	18	229	238						0.4	730	212	3,440	22	0.190	5,400	12	34.75	4.05	17,550	11,800	33	18	7.0			7.4	187	4.10	148.71	4.00	145.08			18.9	0.04	0	4.349	0.277
9	Tue	41	0.02	Cloudy	7.289	8.178	17	7.5	232	14	228	199						1.0	640	186	3,440	17	0.190	5,530	11	32.54	3.47				16	7.3			7.3	145	3.20	164.00	4.00	205.00				0.04	0	6.145	0.275
10	Wed	56	0.00	Clear	7.034	8.220	16	7.5	274	13	184	178						0.9	700	197	3,550	22	0.190	6,170	12	33.83	3.94	16,800	11,950	29	16	7.5			7.5	166	2.90	170.12	4.00	234.65				0.04	0	7.034	0.250
11	Thu	61	0.13	Clear	6.754	8.060	15	7.5	281	13	180	191						1.2	570	157	3,640	24	0.190	5,790	12	53.48	6.23				16	7.3			7.4	172	2.70	152.09	4.00	225.31				0.04	0	6.754	0.240
12	Fri	49	0.01	Cloudy	6.690	8.204	15	7.5	241	15	232	234						0.5	650	191	3,400	18	0.190	5,910	13	33.05	4.17	21,650	15,450	29	16	7.1			7.4	174									0.04	0	6.286	0.247
13	Sat	23	0.00	Clear	6.844	8.154	16	7.4	265	20								1.3	750				0.190								15	8.0			7.3	152								0.04	0	7.496	0.287
14	Sun	5	0.00	Clear	6.230	8.071	17	7.5	248	17								1.7	670				0.190								15	8.0			7.4	170	2.90	114.76	3.00	118.72				0.04	0	4.745	0.260
15	Mon	14	0.00	Clear	6.743	8.145	16	7.5	241	15	176	186						1.0	680				0.190								15	8.1			7.4	170	2.80	116.88	3.00	125.23				0.04	0	5.005	0.279
16	Tue	21	0.00	Clear	6.593	8.143	15	7.4	238	14	200	187						1.3	650	183	3,560	22	0.190	5,870							16	8.2			7.4	159	3.10	127.46	4.00	164.46			1.0	0.04	0	4.930	0.265
17	Wed	40	0.00	Clear	7.060	8.089	17	7.5	235	14	162	207						1.1	730	200	3,650	26	0.190	6,050	13	19.29	2.43	19,200	10,775	44	16	7.8			7.4	158	3.30	133.84	3.00	121.67				0.04	0	4.863	0.265
18	Thu	47	0.00	Clear	6.314	8.122	16	7.5	270	14	198	239						0.3	760	198	3,840	25	0.190	6,140	11	42.11	4.49				17	7.7			7.3	163	3.10	130.72	4.00	168.67				0.04	0	5.056	0.277
19	Fri	29	0.00	Clear	5.976	8.110	15	7.5	270	15	220	278						0.3	770	188	4,100	25	0.190	5,870	11	56.33	6.01	21,875	12,300	44	15	7.1			7.4	174									0.04	0	4.562	0.321
20	Sat	28	0.00	Clear	5.949	8.097	16	7.5	256	16								0.4	810				0.190								15	7.9			7.4	180								0.04	0	4.463	0.284
21	Sun	30	0.00	Cloudy	5.912	8.126	16	7.4	264	15								1.0	800				0.190								15	7.9			7.4	171	6.20	232.01	5.00	187.11				0.04	0	4.487	0.272
22	Mon	36	0.78	Cloudy	5.961	8.150	16	7.5	262	14	282	200						0.9	800	197	4,060	19	0.190	6,270	10			18,400	12,475	32	16	7.7			7.4	189	5.30	217.08	4.00	163.83				0.04	0	4.911	0.264
23	Tue	44	0.11	Cloudy	7.196	8.077	15	7.5	223	15	216	219						1.1	770	214	3,590	18	0.190	6,730	10	35.67	3.46				16	7.2			7.2	139	3.80	193.32	4.00	203.50			6.3	0.04	0	6.100	0.229
24	Wed	45	0.00	Cloudy	7.749	8.139	15	7.4	247	10	190	181						1.2	750	198	3,780	21	0.190	6,780	11	34.67	3.70	18,000	11,525	36	16	7.2			7.3	157	3.50	193.88	4.00	221.58				0.04	0	6.642	0.220
25	Thu	49	0.03	Cloudy	6.903	8.063	16	7.5	258	11	206	197						1.1	830	203	4,080	23	0.190	6,490	11	52.67	5.62				16	7.3			7.4	184	4.40	214.74	5.00	244.03				0.04	0	5.852	0.191
26	Fri	48	0.30	Cloudy	6.272	8.042	15	7.5	277	11	222	215						1.7	740	175	4,230	24	0.190	6,270	10	31.69	3.07	17,975	12,025	33	16	7.8			7.5	194									0.04	0	5.309	0.163
27	Sat	41	0.46	Cloudy	6.303	8.100	15	7.4	218	13								1.2	700				0.190								16	6.8			7.4	183								0.04	0	5.336	0.155
28	Sun	56	0.00	Clear	8.588	8.018	16	7.5	257	12								1.6	660				0.190								17	7.7			7.4	158	4.60	282.13	4.00	245.33				0.04	0	7.354	0.152
29	Mon	68	0.00	Clear	7.816	8.136	16	7.5	267	10	148	182						1.1	760	203	3,740	26	0.190	6,650	11	27.87	2.97	18,750	12,125	35	16	7.2			7.4	181	4.10	219.39	5.00	267.55			2.0	0.04	0	6.416	0.178
30	Tue	68	0.00	Clear	7.433	8.057	15	7.5	283	14	190	239						0.9	720	189	3,800	22	0.190	6,620	11	58.07	6.20				17	7.0			7.4	192	4.40	219.26	5.00	249.16				0.04	0	5.975	0.174
31	Wed	70	0.00	Clear	7.282	8.053	15	7.4	295	15	178	229						0.8	740	183	4,050	25	0.190	6,860	10	64.60	6.27	20,075	13,225	34	17	7.3			7.4	200	3.80	185.68	6.00	293.18				0.04	0	5.859	0.185
TOTAL :			3.01		198.421																		5.890			809.10	87.42																3.0			164.237	7.686
MIN :		5	0.00		5.094	7.587	15	7.4	218	10	148	178						0.3		157	3,400	12	0.190	5,060	10	46.00				29	15	6.8			7.2	139	2.70		3.00				1.0	0.04		3.857	0.152
MAX :		70	0.81		8.588	8.274	18	7.6	307	90	800	491						1.7		214	4,230	26	0.190	6,860	13	72.66	8.46			44	18	8.2	491		7.5	202	4.64		5.60		0.05000		18.9	0.04		7.496	0.321
AVG :		43			6.401	8.050	16			17	251	244								192	3,737		0.190	6,043	11	42.58	4.60			35			491	17,289			3.77	167.07	4.39	193.41	0.05000	0.0018				5.298	0.248

NOTES	
Electrical Usage :	36,895
Labor :	66,285
Natural Gas :	622
Chemical, Laboratory Supplies & Services :	22,223
Repairs, Maintenance, Services & Admin. :	38,251
Sludge (Generation & Transportation) :	31,034
TOTAL COSTS :	195,312
COSTS - 1,000 GAL.	1.19
TREATED :	
Non-Potable Water Use Savings :	6,425
1-15 Holiday	

PARTIAL WEEKLY AVG.NO.'s					
Date	Week No.		TSS	BOD	
31-Dec	1		4.20	5.00	
1-Feb	5		2.00	4.00	
WEEK	1	2	3	4	5
TSS	4.02	3.12	3.04	4.64	3.78
BOD	5.60	3.80	3.40	4.40	4.80

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

Signed : David Hardy

Title : *Lynn Lane Water Reclamation Facility Manager (WRF)*