CITY OF BROKEN ARROW
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MONTHLY OPERATIONAL REPORT

City of Broken Arrow Lynn Lane Water Reclamation Facility

April-22

		WEATHER			INFLUENT								EAST OXIDATION DITCH					WEST OXIDATION DITCH					SLUDGE WASTING					DIGESTER			FINAL EFFLUENT															
Date	Day	ºF	Rain	Cloud Conditions	Flow (MGD)	RAS (MGD)	ºC	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. (%)	ºC	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	Fri	65	0.03	Clear	6.305	6.481	16	7.5	274	19	808	302	3.2	360	120	3,010	5	3.2	360	121	2,970	5	0.140	4,940	15	14.10	2.05	14,350	10,300	28	16	9.0			7.3	104								0.04	120	6.045	0.141
2	Sat	71	0.20	Clear	5.907	6.506	17	7.4	270	23			2.6	400				2.6	400				0.140								17	9.0			7.3	90								0.04	120	5.743	0.131
3	Sun	78	0.00	Clear	6.020	6.459	17	7.4	269	23			2.7	410				2.7	380				0.140								17	8.4	579	27,689	7.2	96	4.00	191.29	8.00	382.57	0.00005	0.0024		0.04	100	5.734	0.106
4	Mon	68	0.15	Cloudy	5.728	6.045	18	7.4	258	18	308	267	1.7	400	145	2,750	12	1.8	380	131	2,900	13	0.140	4,680	15	35.63	5.19	13,400	9,600	28	19	8.3			7.3	106	5.00	230.48	7.00	322.67			13.4	0.04	100	5.527	0.108
5	Tue	77	0.01	P Cloudy	6.182	6.306	18	7.4	261	18	388	349	1.4	400	139	2,870	10	1.2	400	139	2,880	10	0.140	4,880	16	26.91	4.18				19	8.3			7.3	112	4.00	196.16	8.00	392.31				0.04	120	5.880	0.138
6	Wed	67	0.00	P Cloudy	5.876	6.441	18	7.4	257	19	422	354	1.6	400	143	2,800	9	1.9	410	142	2,890	9	0.140	4,810	15	25.56	3.72	15,500	9,400	39	19	8.4			7.3	111	4.00	188.05	7.00	329.09				0.04	120	5.637	0.139
7	Thu	59	0.00	Clear	5.542	6.568	17	7.5	262	19	500	326	2.2	450	160	2,820	8	2.5	460	153	3,000	9	0.140	4,480	15	19.65	2.86				18	8.6			7.3	102	4.00	177.17	7.00	310.06				0.04	120	5.311	0.135
8	Fri	58	0.00	Clear	5.330	6.470	17	7.5	257	17	398	301	2.8	480	169	2,840	11	2.6	500	175	2,860	11	0.140	4,660	16			14,350	9,700	32	17	8.8			7.2	94								0.04	120	5.105	0.129
9	Sat	77	0.00	Clear	5.144	6.421	16	7.6	296	23			3.5	500				2.4	500				0.140								17	8.5			7.2	90								0.04	120	4.867	0.127
10	Sun	78	0.00	Clear	5.109	6.409	18	7.5	287	19			2.3	470				2.1	490				0.140								18	8.4			7.2	81	4.00	160.70	7.00	281.22				0.04	120	4.817	0.114
11	Mon	72	0.26	Cloudy	5.392	6.395	18	7.3	262	20	538	306	1.4	520	182	2,850	8	1.7	520	171	3,040	8	0.140	5,440	15	32.64	4.75	15,650	12,750	19	19	8.2			7.3	95	5.00	215.84	8.00	345.34			11.0	0.04	120	5.176	0.117
12	Tue	80	0.00	Cloudy	5.828	6.395	19	7.4	262	21	602	456	1.5	530	173	3,060	7	1.4	550	168	3,280	7	0.140	4,930	16	20.29	3.15				20	8.0			7.4	140	4.00	184.95	8.00	369.90				0.04	120	5.544	0.142
13	Wed	70	0.04	Cloudy	5.437	6.443	19	7.4	265	21	678	431	1.3	670	211	3,170	7	1.7	730	223	3,280	7	0.140	4,800	16	24.09	3.74	13,600	9,850	28	19	8.0			7.4	140	3.00	128.55	6.00	257.11				0.04	120	5.138	0.140
14	Thu	69	0.00	Clear	5.139	6.392	17	7.5	266	24	850	414	2.0	700	215	3,260	6	1.9	730	230	3,180	6	0.165	4,570	15	12.96	1.89				18	8.5			7.4	122	3.00	121.32	7.00	283.08				0.04	120	4.849	0.130
15	Fri	80	0.06	Clear	5.052	6.446	18	7.5	281	20	124	246	2.4	580			0	2.5	580				0.165								19	8.4			7.4	119								0.04	120	4.643	0.124
16	Sat	70	0.24	Rainy	4.873	6.474	19	7.4	285				2.1	580				2.3	620				0.165								19	8.1			7.1	98								0.04	120	4.588	0.109
17	Sun	57	0.00	Cloudy	5.996	6.524	18	7.3	281	20			2.9	720				2.5	710				0.165								17	8.1			6.9	97	3.00	145.82	7.00	340.24				0.04	120	5.828	0.110
18	Mon	62	0.00	P Cloudy	5.532	6.359	18	7.5	292	20	562	288	2.0	760	243	3,130	8	2.1	760	248	3,070	8	0.165	4,490	15	14.19	2.07	13,250	9,200	31	18	8.5			7.3	95	3.00	127.25	6.00	254.50			12.2	0.04	120	5.086	0.117
19	Tue	70	0.00	P Cloudy	5.353	6.346	18	7.4	262	23	350	350	2.1	800	274	2,920	12	2.2	780	249	3,130	13	0.165	4,510	15	14.62	2.13				18	8.5			7.2	98	3.00	126.00	5.00	210.00				0.04	120	5.036	0.132
20	Wed	73	0.06	Cloudy	5.185	6.201	18	7.4	256	25	442	315	2.2	780	250	3,120	11	2.3	780	238	3,280	11	0.165	4,800	15	24.22	3.52	11,450	9,200	20	18	8.0			7.2	90	2.00	80.68	4.00	161.36				0.04	120	4.837	0.203
21	Thu	81	0.00	Cloudy	5.261	6.448	19	7.4	260	23	376	358	1.7	750	250	3,000	12	1.5	760	246	3,090	12	0.165	4,790	15	26.77	3.90				20	8.0			7.2	95	2.00	80.65	6.00	241.94				0.04	80	4.835	0.218
22	Fri	81	0.00	P Cloudy	5.242	6.199	19	7.5	263	22	410	326	1.2	720	222	3,250	12	1.7	760	235	3,230	12	0.165	4,690	16	24.67	3.83	8,550	9,150	-7	20	7.9			7.3	104								0.04	80	5.222	0.202
23	Sat	78	0.75	Cloudy	5.212	6.395	19	7.4	274	25			1.9	700				2.1	740				0.165								20	7.7			7.3	102								0.04	80	4.889	0.191
24	Sun	67	0.60	Cloudy	6.515	6.581	19	7.1	171	23			2.7	670				2.8	620				0.165								20	7.6			7.2	101	204.00	10715.17	128.00	6723.24				0.04	80	6.298	0.160
25	Mon	65	0.01	Clear	7.838	6.523	18	7.4	250	18	512	265	2.3	510	190	2,680	5	2.2	510	183	2,790	6	0.165	5,010	18			12,350	9,000	27	19	8.3			7.3	113	17.00	924.83	12.00	652.82				0.04	80	6.523	0.117
26	Tue	71	0.00	Clear	6.315	6.912	18	7.5	268	24	534	353	2.4	480	195	2,460	6	2.4	520	198	2,630	6	0.165	4,130	16	15.68	2.43				19	8.5			7.4	116	3.00	172.94	7.00	403.52			2.0	0.04	80	6.912	0.124
27	Wed	75	0.00	Clear	5.802	6.826	18	7.4	273	25	867	412	1.5	520	177	2,940	5	1.5	520	172	3,030	5	0.165	4,590	17			4,850	8,800	-81	19	8.3			7.3	110	790.00	36019.88	8.00	364.76				0.04	80	5.467	0.129
28	Thu	71	0.29	Cloudy	5.596	6.732	19	7.4	261	25	37	416	1.6	510	186	2,740	106	1.5	530	177	3,000	116	0.165	4,770	17	12.08	1.99				19	8.2			7.3	109	3.00	132.23	6.00	264.46				0.04	80	5.285	0.184
29	Fri	76	0.00	Cloudy	6.195	6.710	19	7.5	265	27	466	393	2.2	500	165	3,030	8	2.2	500	158	3,160	9	0.165	4,840				9,000		100	20	8.1			7.3	104								0.04	80	5.852	0.189
30	Sat	76	0.29	Clear	5.778	6.721	19	7.4	208	21			2.6	430				2.6	450				0.165								20	8.0			7.3	100								0.04	80	5.640	0.144
31																																																
TOTAL :			2.99		170.684																					344.06	51.39																7.7		3160	162.314	4.250
MIN :		57	0.00		4.873	6.045	16	7.1	171	17	37	246	1.2		120	2,460	0	1.2		121	2,630	5	0.140	4,130	15	31.00				-81	16	7.6			6.9	81	2.00		4.00				2.0	0.04		4.588	0.106
MAX :		81	0.75		7.838	6.912	19	7.6	296	27	867	456	3.5		274	3,260	106	3.2		249	3,280	116	0.165	5,440	18	35.63	5.19			100	20	9.0	579		7.4	140	203.40		32.20		0.05000		13.4	0.04		6.912	0.218
AVG :		71			5.689	6.471	18			22	484	344			190	2,935				188	3,035		0.154	4,741	16	21.50	3.21			22			579	27,689			53.50	2516.00	13.10	644.51	0.05000	0.0024				5.410	0.142

NOTES	
Electrical Usage :	39,102
Labor :	84,820
Natural Gas :	388
Chemical, Laboratory Supplies & Services :	24,803
Repairs, Maintenance, Services & Admin. :	77,787
Sludge (Generation & Transportation) :	11,357
TOTAL COSTS :	238,257
COSTS - 1,000 GAL. TREATED :	1.47
Non-Potable Water Use Savings :	3,400
4-24 to 4-27 Heavy I / I pushed solids out of West	
Clarifier to Contact Basins. East Clarifier out	
service for rehabilitation improvements.	

PARTIAL WEEKLY AVG NO.'s

Date	Week No.	TSS	BOD

WEEK	1	2	3	4	5
TSS	4.20	3.80	2.60	203.40	
BOD	7.40	7.20	5.60	32.20	

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)*