



MONTHLY OPERATIONAL REPORT
City of Broken Arrow Lynn Lane Water Reclamation Facility
October-23

WEATHER					INFLUENT								EAST OXIDATION DITCH					WEST OXIDATION DITCH					SLUDGE WASTING					DIGESTER			FINAL EFFLUENT																				NOTES				
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. Settlt.	SVI (ml/gm)	MLSS (mg/L)	Sl. Age (Days)	D.O. (mg/L)	30 Min. Settlt.	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	Sun	90	0.00	Clear	5.092	6.540	22	7.4	290	15								0.2	500					0.160								24	6.8			7.6	200	6.90	226.16	22.00	721.08				0.04	0	3.930	0.000	Electrical Usage :	43,774					
2	Mon	88	0.00	Clear	4.731	6.574	24	7.4	283	14	256	220						0.3	680	248	2,740	18	0.160	3,570	14				13,525	10,775	20	25	6.1	438	12,851	7.6	188	16.70	489.98	31.00	909.54	0.00005	0.0015		0.04	0	3.518	0.034	Labor :	59,685					
3	Tue	83	0.00	Cloudy	5.023	10.676	23	7.3	277	11	186	247						0.2	810	260	3,110	27	0.160	4,660	12	14.76	1.72					24	6.4			7.6	216	7.40	226.37	22.00	673.00				0.04	0	3.668	0.198	Natural Gas :	300					
4	Wed	81	0.66	Cloudy	5.553	10.547	23	7.3	295	15	272	231						0.2	650	204	3,180	17	0.160	4,930	12	15.93	1.85	14,250	10,350	27	24	6.2			7.6	224	8.90	326.45	18.00	660.23				0.04	0	4.398	0.195	Chemical, Laboratory	27,241						
5	Thu	81	0.01	Clear	6.471	10.481	23	7.1	221	19	336	240						0.2	800	239	3,350	12	0.160	5,180	12	15.22	1.77					24	6.3			7.5	196	5.90	260.15	11.00	485.03		83.3	0.04	0	5.287	0.188	Supplies & Services :							
6	Fri	71	0.00	Cloud	6.372	10.460	22	7.5	384	14	228	209						0.2	900	267	3,370	19	0.160	4,850	12	20.03	2.33	15,475	10,000	35	23	6.6			7.6	220							0.04	0	4.992	0.182	Repairs, Maintenance,	60,767							
7	Sat	66	0.00	Clear	5.569	10.381	22	7.4	295	50								0.2	950				0.160								22	7.6			7.7	228								0.04	0	4.201	0.263	Services & Admin. :							
8	Sun	78	0.00	Clear	4.786	10.456	22	7.4	282	22								0.3	930				0.160								22	8.4			7.6	225	5.90	158.59	7.00	188.16				0.04	0	3.223	0.274	Sludge (Generation &	27,798						
9	Mon	80	0.00	Clear	5.015	6.457	22	7.5	287	21	182	251						0.2	940	214	4,390	38	0.160	6,740	12	17.96	2.09	15,200	10,100	34	22	6.8			7.6	233	5.90	169.51	9.00	258.58				0.04	0	3.445	0.232	Transportation) :							
10	Tue	82	0.00	Clear	4.973	6.358	22	7.4	262	19	270	279						0.5	970	227	4,280	26	0.190	6,430	12	24.87	2.90				23	6.7			7.6	242	11.90	344.28	6.00	173.59		648.8	0.04	0	3.469	0.289	TOTAL COSTS :	219,563							
11	Wed	80	0.00	P Cloudy	4.957	6.404	23	7.5	270	19	296	255						0.2	950	216	4,390	24	0.190	6,740	13	32.74	4.13	14,525	9,925	32	23	6.6			7.7	243	6.00	173.14	10.00	288.56				0.04	0	3.460	0.293	COSTS - 1,000 GAL.	1.80						
12	Thu	70	0.00	Cloudy	4.913	6.148	22	7.5	267	17	306	256						0.2	940	207	4,540	24	0.190	7,050	12	70.05	8.16				23	6.6			7.7	259	14.80	458.06	10.00	309.50				0.04	0	3.711	0.249	TREATED :							
13	Fri	69	0.01	Cloudy	4.795	6.034	23	7.6	265	17	214	250						0.8	950	190	4,990	39	0.190	6,460	12	33.81	3.94	16,050			23	6.5			7.7	250							0.04	0	3.684	0.274	Non-Potable Water	6,075							
14	Sat	61	0.00	Cloudy	4.692	6.156	22	7.6	285	24								0.8	930				0.190							22	6.9			7.7	243							0.04	0	3.132	0.269	Use Savings :									
15	Sun	59	0.00	Cloudy	4.427	6.267	22	7.5	265	26								0.6	910				0.190							22	7.0			7.7	232	4.70	131.27	5.00	139.65				0.04	0	3.349	0.267									
16	Mon	67	0.00	Clear	4.307	6.178	21	7.5	295	33	282	268						0.7	840	222	3,780	25	0.190	6,180	11	36.09	3.85	17,100	9,375	45	21	7.0			7.7	225	3.30	99.11	7.00	210.23				0.04	0	3.601	0.243	10-11 Effluent flow estimated due to issue with							
17	Tue	71	0.00	Clear	5.244	6.314	21	7.4	251	20	300	279						0.7	820	207	3,960	20	0.210	6,270	16	28.26	4.39				21	7.0			7.7	236	4.10	113.42	8.00	221.31		57.3	0.04	0	3.317	0.234	Parshal Flume.								
18	Wed	79	0.00	Clear	4.652	6.306	22	7.4	249	3	112	179						0.6	840	230	3,660	56	0.210	5,620	16	38.40	5.96	17,950	10,300	43	22	6.8			7.6	240	4.20	117.34	7.00	195.57				0.04	0	3.350	0.280								
19	Thu	79	0.00	Clear	4.506	6.328	22	7.4	246	23	254	250						0.6	870	241	3,610	25	0.210	5,640	16	28.55	4.43				22	6.8			7.7	249	4.40	119.74	8.00	217.71				0.04	0	3.263	0.269	Note: Running on (2) UV reactors in "Manual"							
20	Fri	84	0.00	Clear	4.560	6.268	22	7.4	250	20	268	259						0.5	780	154	5,060	33	0.230	5,060	17	35.48	5.85	19,325	10,325	47	22	7.0			7.6	255							0.04	0	3.253	0.256	mode, cleaning one reactor per week.								
21	Sat	83	0.00	Clear	4.480	3.551	22	7.5	252	23								0.6	840				0.230			17	21.78	3.59				22	6.7			7.6	266							0.04	0	3.190	0.256								
22	Sun	81	0.00	Clear	4.425	3.429	22	7.5	282	26								0.6	770				0.230							22	6.6			7.6	262	10.60	281.66	10.00	265.71				0.04	0	3.186	0.263									
23	Mon	80	0.00	P Cloudy	4.927	3.401	22	7.5	265	24	236	251						0.5	850	252	3,370	23	0.230	6,890	13	16.98	2.14	15,050	8,125	46	22	6.6			7.6	264	11.20	334.59	12.00	358.49		2419.6	0.04	0	3.582	0.415									
24	Tue	72	0.50	Rain	4.701	3.512	23	7.4	267	14	374	311						0.7	760	258	2,950	13	0.230	6,775	12	58.73	6.84				23	6.4			7.6	262	11.80	365.01	13.00	402.13				0.04	0	3.709	0.262								
25	Wed	75	0.35	Cloudy	5.259	3.496	22	7.5	260	18	308	284						0.6	710	244	2,910	14	0.190	6,670	13	31.13	3.93	14,725	11,500	22	23	5.9			7.6	260	6.90	249.86	9.00	325.91				0.04	0	4.342	0.253								
26	Thu	77	0.22	Rain	5.469	6.082	22	7.5	217	22	472	167						1.0	590	198	2,980	9	0.190	6,470	15	37.01	5.39				23	6.3			7.6	250	7.30	271.35	9.00	334.54				0.04	0	4.457	0.264	PARTIAL WEEKLY AVG.NO.'s							
27	Fri	74	0.00	Cloudy	5.482	2.28.																																																	