



MONTHLY OPERATIONAL REPORT
City of Broken Arrow Lynn Lane Water Reclamation Facility
August-20

		WEATHER			INFLUENT							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. Sett.	SVI (ml/gm)	MLSS (mg/L)	Sl. Age (Days)	WAS (MGD)	THK INFL 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	Flow (MGD)													
1	Sat	87	0.00	Clear	5.737	3.989	23	7.5	262	16			0.1	390				0.222									23	6.8			7.6	210								0.05	120	5.818												
2	Sun	87	0.00	Clear	5.176	4.248	23	7.5	312	15			0.1	400				0.244									23	6.8	527	25,571	7.5	206	4.00	175.81	9.00	395.57	0.00005	0.0022		0.05	120	5.270												
3	Mon	84	0.00	Clear	5.105	3.995	23	7.5	258	17	240	282	0.1	420	145	2,890	9	0.255	5,180	16	32.72	5.08	14,750	10,850	26	23	6.9			7.5	204	2.00	86.75	6.00	260.26				1.0	0.05	120	5.201												
4	Tue	82	0.00	Clear	4.981	4.313	22	7.5	265	17	268	265	0.2	400			0	0.199		16	17.01	2.64				23	6.9			7.5	220	3.00	113.62	6.00	227.23					0.05	120	4.541	ELECTRICAL USAGE : 15,891											
5	Wed	85	0.00	Cloudy	4.836	2.900	23	7.5	334	20	220	269	0.2	420	167	2,520	9	0.263	5,400	15	39.88	5.80	14,500	9,750	33	23	7.0			7.5	205	2.00	75.74	6.00	227.23				1.0	0.05	120	4.541	LABOR : 48,176											
6	Thu	87	0.11	Clear	4.788	2.797	23	7.5	328	19	262	298	0.1	380	143	2,660	8	0.255		15	54.37	7.91				24	6.9			7.5	220	2.00	68.87	8.00	275.49					0.05	120	4.129	CHEMICAL, LAB SUPPLIES & SERVICES: 9,807											
7	Fri	85	0.04	Cloudy	5.672	2.811	23	7.5	310	18	310	272	0.1	340	132	2,570	6	0.249	5,300	14	35.06	4.76	16,000	11,200	30	24	6.9			7.5	212									0.05	110	5.404	REPAIRS, MAINT., SERVICES & ADMIN : 47,813											
8	Sat	93	0.00	Clear	5.364	2.799	23	7.5	267	16			0.1	360				0.242									24	6.9			7.5	220									0.05	100	5.312	SLUDGE (Generation & Transportation) : 21,780										
9	Sun	95	0.00	Clear	4.876	2.779	23	7.5	265	15			0.2	320				0.234									24	6.8			7.5	202	5.00	206.79	9.00	372.22					0.05	100	4.959	TOTAL COSTS : 143,467										
10	Mon	94	0.00	Clear	4.977	2.773	23	7.4	289	18	248	244	0.1	310	134	2,320	8	0.234	5,310	14			12,400	11,050	11	24	6.7			7.5	201	5.00	211.09	10.00	422.17				1.0	0.05	100	5.062												
11	Tue	84	2.35	Cloudy	4.988	2.797	23	7.5	303	20	352	304	0.1	300	116	2,590	6	0.233		15	36.03	5.24				24	6.8			7.5	208	7.00	294.53	7.00	294.53				8.0	0.05	110	5.045	COSTS / 1,000 GAL. TREATED : 0.90											
12	Wed	89	0.00	Clear	6.110	5.782	23	7.4	231	16	520	281	0.1	290	94	3,070	4	0.237	5,110	14	34.94	4.75	13,100	11,050	16	24	6.9			7.4	176	3.00	153.50	5.00	255.83					0.05	140	6.135												
13	Thu	79	0.59	Cloudy	5.834	4.612	23	7.3	221	17	280	228	0.2	230	91	2,540	6	0.270		14	34.64	4.71				24	6.6			7.4	198	3.00	146.89	5.00	244.82					0.05	120	5.871												
14	Fri	92	0.04	Cloudy	6.539	4.630	23	7.3	257	13	230	225	0.2	260	97	2,670	7	0.233	5,100	15	36.74	5.35	14,250	10,100	29	24	6.9			7.4	168									0.05	130	6.599												
15	Sat	95	0.00	Clear	6.813	4.611	23	7.5	232	14			0.1	270				0.238									25	6.9			7.4	194									0.05	140	6.804	8-4-20 No solids testing. Plant shutdown for electrical tie-in at the										
16	Sun	91	0.00	Clear	6.099	3.207	23	7.5	304	14			0.1	260				0.237									25	6.7			7.4	193	2.00	102.11	5.00	255.29					0.05	140	6.122	Return Activated Sludge (RAS) building. Effluent flow was										
17	Mon	92	0.00	P Cloudy	5.212	2.936	23	7.4	281	17	250	231	0.2	260	81	3,220	10	0.205	5,250	16	53.25	8.27	12,990	10,550	19	24	6.7			7.4	198	2.00	88.27	7.00	308.95				1.0	0.05	140	5.292	averaged for the day.											
18	Tue	87	0.00	Clear	5.069	2.861	23	7.4	283	18	426	264	0.2	270	94	2,880	5	0.261		16	32.22	5.00				24	6.8			7.5	212	2.00	85.42	8.00	341.67					0.05	140	5.121												
19	Wed	82	0.00	Clear	5.091	2.860	23	7.4	296	25	536	487	0.2	340	134	2,540	4	0.268	6,630	16	18.51	2.87	13,000	11,600	11	24	6.8			7.5	215	7.00	254.24	64.00	2324.52					0.05	140	4.355												
20	Thu	87	0.00	Clear	4.978	2.880	23	7.4	303	26	600	573	0.2	320	104	3,090	4	0.265		16	38.56	5.99				25	6.7			7.4	224	11.00	457.78	28.00	1165.26					0.05	140	4.990												
21	Fri	86	0.00	Clear	4.900	2.886	23	7.4	300	24	368	433	0.2	380	130	2,920	6	0.254	5,670	15	31.67	4.61	14,450	11,250	22	24	6.8			7.5	220									0.05	180	4.958												
22	Sat	91	0.00	Clear	4.830	2.816	23	7.4	265	25			0.1	360				0.255									23	6.7			7.5	225									0.05	140	4.855											
23	Sun	92	0.00	Clear	4.689	2.849	23	7.5	260	20			0.2	420				0.260									23	6.7			7.5	221	4.00	156.09	8.00	312.18					0.05	140	4.679											
24	Mon	94	0.00	Clear	4.831	2.822	23	7.5	306	22	574	376	0.2	400	184	2,170	3	0.217	4,920	16	16.86	2.62	15,000	11,300	25	25	6.9			7.6	213	3.00	122.12	9.00	366.37					0.05	140	4.881	PARTIAL WEEKLY AVG.NO.'s											
25	Tue	94	0.00	Clear	4.890	2.912	23	7.4	299	29	660	1469	0.2	460	196	2,350	3	0.258		15	37.97	5.53				24	6.9			7.5	227	2.00	70.19	8.00	280.76				2.0	0.05	120	4.208	Date	Week No.	TSS	BOD								
26	Wed	86	0.56	Clear	4.800	3.005	24	7.5	300	25	468	868	0.2	390	157	2,480	4	0.256	4,930	15	35.48	5.16	11,750	11,250	4	25	6.8			7.5	225	2.00	71.89	6.00	215.67					0.05	120	4.310												
27	Thu	85	0.05	P Cloudy	5.110	2.936	24	7.5	302	25	714	933	0.2	340	140	2,430	3	0.272		15	67.75	9.86				25	7.0			7.5	212	2.00	79.86	7.00	279.52					1.0	0.05	120	4.788											
28	Fri	97	0.00	Clear	5.022	2.933	24	7.5	307	19	392	794	0.2	350	168	2,080	4	0.258	4,850	15			12,650	10,450	17	24	6.8			7.5	228									0.05	120	5.063												
29	Sat	86	0.00	Cloudy	5.241	2.870	24	7.5	311	17			0.2	280				0.259									25	6.6			7.6	221									0.05	120	5.243											
30	Sun	89	0.00	Cloudy	4.899	2.858	24	7.6	343	20			0.1	300				0.262									24	6.9			7.6	215	3.00	124.60	9.00	373.80					0.05	120	4.980											
31	Mon	82	0.06	P Cloudy	4.888	2.811	24	7.5	301	22	758	449	0.2	360	176	2,050	2	0.214	4,390	14	50.49	6.86	13,950	11,650	16	24	6.7			7.5	225	2.00	83.00	8.00	332.00					0.05	120	4.976	WEEK	1	2	3	4	5						
TOTAL :		3.80			162.345								0.1	150	81	2,050	0	0.199	4,390	14	27.00				4	23	6.6			7.4	168	2.00			5.00				1.0	0.05		4.129	BOD	7.00	7.20	22.40	7.60							
MIN :		79		0.00	4.689	2.773	22	7.3	221	13	220	225	0.1	150	81	2,050	0	0.199	4,390	14	27.00				33	25	7.0			7.6	228	4.80			22.40		0.05000		8.0	0.05		6.804												
MAX :		97		2.35	6.813	5.782	24	7.6	343	29	758	1469	0.2	200	196	3,220	10	0.272	6,630	16	67.75	9.86																																
AVG :		88			5.237	3.299	23			19	413	455		193	134	2,602		0.245	5,234	15	37.06	5.42				20								527	25,571																			