



MONTHLY OPERATIONAL REPORT
City of Broken Arrow Lynn Lane Water Reclamation Facility
March-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. Settlt.	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	Sun	73	0.00	Cloudy	5.749	4.607	16	7.4	280	18			0.2	380				0.208								16	8.2			7.2	166	3.00	140.44	13.00	608.56				0.05	110	5.613																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
2	Mon	61	0.00	P Cloudy	5.899	4.644	18	7.3	275	18	417	366	0.2	400	164	2,440	4	0.195	4,780	16	19.89	3.09	17,850.00	14,550.00	18	16	7.8	550	26,435	7.2	172	4.00	192.25	9.00	432.57	0.00005	0.0024		0.05	60	5.763																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
3	Tue	67	0.00	P Cloudy	5.642	4.585	18	7.4	285	16	374	284	0.3	390	140	2,780	5	0.195		15	43.23	6.29				18	8.0			7.2	172	4.00	183.51	9.00	412.91			13.0	0.05	60	5.501																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
4	Wed	59	0.00	Cloudy	5.464	4.599	18	7.3	263	17	616	322	0.3	430	146	2,950	4	0.214	4,830	16	41.52	6.45	16,600.00	14,500.00	13	18	8.2		7.2	174	5.00	222.34	12.00	533.63				0.05	60	5.332	ELECTRICAL USAGE : 20,939 LABOR : 38,128 CHEMICAL, LAB SUPPLIES & SERVICES: 18,616 REPAIRS, MAINT., SERVICES & ADMIN : 33,499 SLUDGE (Generation & Transportation) : 20,741 TOTAL COSTS : 131,923																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
5	Thu	67	0.00	Clear	5.345	4.586	17	7.3	286	21	232	412	0.3	370	138	2,690	9	0.212		15	20.67	3.01				17	8.5			7.2	170	5.00	216.30	11.00	475.86				0.05	60											5.187																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
6	Fri	63	0.00	Clear	5.307	4.630	17	7.3	262	20	194	354	0.4	460	185	2,480	10	0.193	4,380	15	53.98	7.86	17,100.00		100	17	8.7			7.2	172							0.05	60	5.187	COSTS / 1,000 GAL. TREATED : 0.65																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
7	Sat	67	0.00	Clear	5.103	4.703	15	7.2	272				1.4	470				0.200							16	8.5			7.2	166							0.05	110	4.989																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
8	Sun	64	0.00	Clear	5.232	4.617	15	7.3	275	16			0.3	520				0.197							16	8.4			7.3	171	3.00	127.75	11.00	468.42				0.05	110	5.106	SLUDGE (Generation & Transportation) : 20,741 TOTAL COSTS : 131,923																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
9	Mon	76	0.22	Cloudy	5.428	4.535	18	7.2	286	21	212	246	0.2	400	158	2,534	9	0.200	4,710	15	18.70	2.72	16,650.00	15,050.00	10	18	7.9		7.3	182	4.00	176.67	10.00	441.69				0.05	60	5.296																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
10	Tue	67	0.00	Clear	5.703	4.523	17	7.3	262	19	210	311	0.2	500	199	2,510	8	0.206		15	21.72	3.16				17	8.0			7.4	201	4.00	185.45	9.00	417.26		1.0	0.05	60	5.559	COSTS / 1,000 GAL. TREATED : 0.65																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
11	Wed	77	0.01	Clear	5.313	4.582	17	7.3	293	19	190	211	0.2	390	147	2,660	11	0.218	4,610	15	18.95	2.76	18,250.00	15,250.00	16	19	8.2		7.4	182	3.00	130.28	9.00	390.84				0.05	60	5.207																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
12	Thu	82	0.00	Clear	5.365	4.566	18	7.3	286	19	202	312	0.2	450	170	2,650	10	0.205		15	38.95	5.67				20	7.8			7.4	192	4.00	175.67	9.00	395.27				0.05	60	5.266	Chlorine feed estimated Mar 2-6 and 9-16 while system being worked on.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
13	Fri	59	0.15	Cloudy	5.004	4.650	18	7.3	294	20	202	314	0.3	460	178	2,590	10	0.212	3,690	15	59.83	8.71	17,700.00	16,150.00	9	18	8.0		7.4	191							0.05	60	4.920																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
14	Sat	51	0.85	Rainy	5.620	4.650	15	7.4	251	22			0.2	480				0.211							16	7.9			7.4	205							0.05	60	5.456	No influent Sett Solid result on Mar 7 because the autosampler was not reset.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
15	Sun	49	0.00	Cloudy	7.481	5.486	15	7.4	250	13			2.5	330				0.179							17	8.0			7.2	150	4.00	243.79	15.00	914.23				0.05	60											7.308																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
16	Mon	49	0.29	Cloudy	6.393	5.718	15	7.4	276	17	186	243	0.3	390	163	2,390	8	0.217	2,710	14	17.73	2.41	17,000.00	15,000.00	12	16	7.9		7.3	165	8.00	414.20	16.00	828.40				0.05	50	6.208	March 6 did not run the Belt Press; No Vector Reduction calc.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
17	Tue	61	1.23	Cloudy	7.020	5.689	16	7.4	283	20	232	362	0.2	370	157	2,360	6	0.208		14	37.75	5.13				17	8.2			7.4	174	5.00	282.89	10.00	565.79			34.0	0.05	150											6.784																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
18	Wed	76	0.50	Cloudy	7.800	5.666	16	7.2	185	17	356	335	1.2	200	104	1,930	3	0.226	4,590	16	17.08	2.65	13,750.00	14,900.00	-8	17	7.3		7.3	156	47.00	2988.85	67.00	4260.70				0.05	160	7.625	because the autosampler was not reset.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
19	Thu	73	1.00	Cloudy	8.844	5.645	16	7.3	229	9	1098	247	0.2	200	81	2,470	1	0.201		14	39.98	5.43				18	7.3			7.2	150	117.00	8522.46	118.00	8595.30				0.05	180											8.734																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
20	Fri	67	0.00	Cloudy	10.542	5.573	17	7.4	241	10	1163	260	0.7	180	64	2,830	1	0.209	5,810	14	36.88	5.01	16,100.00	13,200.00	18	17	7.9		7.3	143							0.05	180	10.478	March 6 did not run the Belt Press; No Vector Reduction calc.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
21	Sat	56	0.05	Clear	8.697	5.649	16	7.5	247	15			2.5	180				0.204							15	8.8			7.3	153							0.05	180	8.540																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
22	Sun	54	0.24	Cloudy	7.901	5.135	15	7.3	239	17			1.2	200				0.213							15	8.0			7.3	164	5.00	318.80	23.00	1466.46				0.05	180	7.645	PARTIAL WEEKLY AVG.NO's																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
23	Mon	62	0.00	Cloudy	8.543	5.157	17	7.4	267	13	454	255	0.2	180	70	2,560	3	0.207	5,840	15	21.49	3.13	16,100.00	13,600.00	16	17	8.0		7.3	154	5.00	351.74	20.00	1406.96				0.05	180	8.435																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
24	Tue	72	0.22	Clear	8.137	5.219	17	7.4	278	18	1064	300	0.2	170	73	2,340	1	0.219		15	38.50	5.60				18	7.7			7.3	172	4.00	264.08	16.00	1056.31		548.0	0.05	180	7.916	Date Week No. TSS BOD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
25	Wed	82	0.01	Clear	8.660	5.244	17	7.3	246	15	1058	289	0.3	200	78	2,570	1	0.232	5,110	15	23.69	3.45	18,050.00	12,600.00	30	18	8.0		7.3	162	9.00	630.88	10.00	700.98				0.05	200	8.405																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
26	Thu	93	0.00	Clear	7.565	5.201	18	7.3	288	19	968	304	0.2	200	72	2,760	2	0.207		16	34.12	5.30				19	7.6			7.2	178	5.00	315.50	12.00	757.21				0.05	200	7.566	1-Apr 5 3.00 8.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					