CITY OF BROKEN ARROW
Where opportunity lives

MONTHLY OPERATIONAL REPORT

City of Broken Arrow Lynn Lane Water Reclamation Facility

April-26

Date	Day	WEATHER °F	WEATHER Rain	WEATHER Cloud Conditions	INFLUENT Flow (MGD)	INFLUENT RAS (MGD)	INFLUENT °C	INFLUENT pH	INFLUENT Alk.	INFLUENT Sett. Solids	INFLUENT TSS (mg/L)	INFLUENT BOD (mg/L)
1	Wed	79	0.04	P Cloudy	5.565	4.827	20	7.3	258	17	312	286
2	Thu	83	0.96	Cloudy	5.816	4.735	20	7.2	219	19	304	308
3	Fri	76	0.48	Cloudy	6.458	4.918	21	8.3	257	10	290	219
4	Sat	64	0.80	Cloudy	7.989	6.834	19	7.1	143	18		
5	Sun	68	0.00	Clear	11.075	6.987	18	7.3	250	10		
6	Mon	73	0.00	Clear	7.954	5.085	19	7.3	263	13	202	183
7	Tue	74	0.00	Clear	7.152	4.877	19	7.3	262	13	220	194
8	Wed	77	0.00	Clear	6.653	4.810	19	7.3	269	14	296	190
9	Thu	80	0.00	Clear	6.385	4.681	20	7.4	269	10	326	231
10	Fri	77	1.38	Cloudy	6.198	4.834	20	7.3	262	15	244	141
11	Sat	78	0.01	Clear	8.737	4.539	19	7.2	247	13		
12	Sun	79	0.08	Cloudy	7.891	4.747	20	7.3	270	10		
13	Mon	82	0.00	Cloudy	7.827	4.834	20	7.4	259	13	232	227
14	Tue	80	0.76	Cloudy	7.371	5.184	21	7.4	254	11	266	229
15	Wed	77	0.75	Cloudy	8.326	5.003	20	7.1	146	7.5	478	143
16	Thu	80	0.00	Cloudy	11.588	7.428	20	7.4	251	10	146	185
17	Fri	77	0.54	P Cloudy	8.571	7.371	21	7.4	257	10	134	204
18	Sat	63	0.49	Clear	8.508	7.200	19	7.3	200	13		
19	Sun	74	0.00	Clear	9.262	7.415	19	7.4	266	11		
20	Mon	74	0.00	Clear	7.976	7.576	19	7.4	267	11	156	178
21	Tue	68	0.00	Clear	7.296	7.654	20	7.4	259	13	164	277
22	Wed	70	0.00	Cloudy	6.933	7.773	20	7.4	266	18	135	213
23	Thu	77	0.00	Cloudy	6.881	7.729	20	7.4	245	15	288	194
24	Fri	73	1.49	P Cloudy	9.126	7.786	20	6.9	127	13	364	233
25	Sat	76	0.07	Cloudy	12.147	7.642	20	7.3	245	8		
26	Sun	82	0.00	Cloudy	9.110	7.354	20	7.4	237	12		
27	Mon	89	0.00	Clear	8.268	7.551	21	7.4	257	10	162	161
28	Tue	67	0.00	Cloudy	7.890	7.531	20	7.4	254	13	216	167
29	Wed	67	0.01	Clear	7.051	7.832	19	7.4	257	13	258	167
30	Thu	67	0.00	Cloudy	6.765	7.396	19	7.4	257	14	182	195
TOTAL :			7.86		238.769							
MIN :		63	0.00		5.565	4.539	18	6.9	127	7.5	134	141
MAX :		89	1.49		12.147	7.832	21	8.3	270	19	478	308
AVG :		75			7.959	6.338	20			13	244	206

Date	EAST D.O. (mg/L)	EAST 30 Min. Settl.	EAST SVI (ml/gm)	EAST MLSS (mg/L)	EAST Sl. Age (Days)	WEST D.O. (mg/L)	WEST 30 Min. Settl.	WEST SVI (ml/gm)	WEST MLSS (mg/L)	WEST 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. (%)
1	1.2	710	190	3,740	17	1.9	740	204	3,630	17	0.165	6,110	16	27.78	4.03	11,850	8,625	27
2	1.5	720	211	3,420	15	2.2	700	202	3,460	16	0.165	6,750	16					
3	1.9	600	178	3,370	14	2.8	610	175	3,480	15	0.165	6,670				9,825	6,700	32
4	2.5	640				3.4	600				0.165							
5	3.0	610				4.0	700				0.165							
6	2.1	700	196	3,570	18	2.9	740	201	3,690	18	0.165	7,500	15	17.14	2.33	12,300	8,425	32
7	2.8	710	207	3,430	17	3.8	710	220	3,230	16	0.165	6,320	16	32.20	4.67			
8	2.6	660	159	4,160	17	3.5	710	195	3,640	15	0.165	6,530	16	16.97	2.46	10,900	8,550	22
9	2.4	710	192	3,700	14	3.2	700	194	3,600	14	0.165	6,480	16	32.44	4.71			
10	2.7	750	207	3,630	19	3.8	750	209	3,590	19	0.165	6,130	15	31.40	4.27	9,700	8,675	11
11	3.2	600				4.1	640				0.165							
12	2.6	670				3.6	670				0.165							
13	1.0	750	207	3,630	16	1.7	700	193	3,620	16	0.165	7,830	15	30.53	4.15	13,000	8,950	31
14	1.1	780	226	3,450	14	1.8	780	222	3,520	14	0.165	7,020	16	34.77	5.05			
15	2.9	630	211	2,990	6	3.8	640	202	3,170	6	0.165	8,110	16	29.52	4.28	11,025	8,950	19
16	3.1	650	190	3,420	16	4.0	650	184	3,530	17	0.165	7,420	16	39.22	5.69			
17	2.1	740	209	3,540	25	2.9	740	204	3,630	25	0.165	6,310	16	32.58	4.73	10,725	9,075	15
18	3.0	760				3.8	750				0.165							
19	3.8	760				4.6	810				0.165							
20	2.2	770	227	3,390	22	2.8	810	225	3,600	23	0.165	5,990	15	19.13	2.60	12,125	8,900	27
21	2.6	790	232	3,400	23	3.2	800	237	3,380	23	0.165	5,630	15	37.23	5.07			
22	2.3	800	222	3,610	31	3.0	840	233	3,610	31	0.165	5,510	16	35.69	5.18	9,875	8,675	12
23	1.8	780	232	3,360	14	2.6	810	232	3,490	14	0.165	6,060	16	34.56	5.02			
24	2.1	630	185	3,410	8	2.9	630	178	3,540	9	0.165	6,400	17	29.59	4.56	9,900	7,500	24
25	2.7	680				3.4	770				0.165							
26	2.7	770				3.2	750				0.165							
27	1.0	690	189	3,650	22	1.6	730	198	3,680	22	0.165	3,840	16	33.54	4.87	11,200	8,875	21
28	1.6	750	221	3,390	16	2.4	750	208	3,600	17	0.165	6,300	17	32.86	5.07			
29	2.3	720	196	3,680	16	3.0	730	189	3,870	17	0.165	5,660	17	31.41	4.84	11,100	9,075	18
30	2.7	750	219	3,430	22	3.2	780	223	3,500	23	0.165	4,340	17	14.59	2.25			
TOTAL :											4.950			593.15	85.85			
MIN :	1.0		159	2,990	6	1.6		175	3,170	6	0.165	3,840	15	36.00				11
MAX :	3.8		232	4,160	31	4.6		237	3,870	31	0.165	8,110	17	39.22	5.69			32
AVG :			205	3,517				206	3,548		0.165	6,314	16	29.66	4.29			22

Date	FINAL EFFLUENT °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	22	7.0			7.3	128	2.00	77.81	3.80	147.84						4.665	0.332
2	21	6.6			7.3	130	2.60	105.69	3.80	154.47						4.874	0.352
3	22	7.3			7.3	125										5.604	0.344
4	21	5.9			7.2	113										6.942	0.320
5	19	8.0			7.4	133										10.010	0.315
6	19	7.9	549	32,106	7.4	141	2.60	152.05	2.90	169.59	0.00005	0.0026	23.1			7.012	0.312
7	19	7.7			7.4	138	2.00	104.07	2.00	104.07						6.239	0.341
8	20	7.6			7.3	134	2.00	95.94	2.10	100.74						5.752	0.343
9	21	7.5			7.4	140	2.30	105.25	2.00	91.52						5.487	0.343
10	21	7.2			7.3	123										5.314	0.347
11	20	7.8			7.4	120	2.40	156.14	3.70	240.72						7.801	0.345
12	21	7.6			7.4	120	2.00	116.24	2.60	151.12						6.969	0.316
13	22	7.1			7.4	141	2.00	116.64	2.40	139.97			4.1			6.993	0.316
14	22	7.0			7.5	148	2.10	112.44	2.40	128.50						6.420	0.350
15	22	5.9			7.3	129	101.00	6293.12	14.10	878.54						7.471	0.329
16	21	7.2			7.5	140	13.50	1179.83	2.90	253.45						10.479	0.326
17	22	7.1			7.5	145										7.632	0.317
18	20	7.4			7.4	129										7.585	0.307
19	20	8.2			7.5	133	27.50	1905.67	6.20	429.64						8.309	0.297
20	20	7.8			7.5	131	20.00	1179.94	2.00	117.99			1.0			7.074	0.300
21	20	7.5			7.5	139	7.50	402.01	2.00	107.20						6.427	0.304
22	20	7.3			7.4	129	2.00	101.41	2.00	101.41						6.080	0.309
23	21	7.4			7.4	124	2.00	99.76	2.00	99.76						5.981	0.360
24	21	7.2			7.3	110										7.436	0.355
25	21	7.0			7.5	113										10.658	0.348
26	21	7.5			7.5	131	2.00	136.08	2.00	136.08						8.158	0.363
27	23	6.9			7.5	137	2.00	122.73	2.00	122.73			1.0			7.358	0.365
28	21	7.4			7.5	135	2.00	117.73	2.00	117.73						7.058	0.306
29	20	7.7			7.5	129	2.00	104.92	2.00	104.92						6.290	0.300
30	20	6.8			7.3	121	4.60	229.49	2.00	99.78						5.982	0.295
TOTAL :													3.1			210.060	9.857
MIN :	19	5.9			7.2	110	2.00		2.00				1.0	0		4.665	0.295
MAX :	23	8.2	549		7.5	148	24.12		4.88		0.05000		23.1	0		10.658	0.365
AVG :			549	32,106			9.46	591.59	3.13	181.72	0.05000	0.0026				7.002	0.329

NOTES

Electrical Usage :	49,392
Labor :	74,207
Natural Gas :	219
Communications:	715
Chemical, Laboratory Supplies & Services :	25,637
Repairs, Maintenance, Services & Admin. :	58,726
Sludge (Generation & Transportation) :	20,070
TOTAL COSTS :	228,966
COSTS - 1,000 GAL. TREATED :	1.09
Non-Potable Water Use Savings :	8,240

Apr 05 Autosampler failed.

Apr 11 Sampled for Weekly Compliance for the previous week.

PARTIAL WEEKLY AVG.NO.'s

Date	Week No.	TSS	BOD	

WEEK	1	2	3	4	5
TSS	2.26	24.12	11.80	2.52	
BOD	2.54	4.88	2.84	2.00	

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

Signed : [signature]

Title : Lynn Lane Water Reclamation Facility Manager (WRF)