

INFLUENT STRENGTH (Heart of the Valley Metropolitan Sewerage Facility)

October 2021

MONTH	FLOW		TSS			BOD			TOTAL PHOSPHORUS			AMMONIA			CHLORIDE		
	Million * Gallons	Avg MGD	Avg mg/L	Avg #/day	Total # /Month	Avg mg/L	Avg #/day	Total # Month	Avg mg/L	Avg #/day	Total # Month	Avg mg/L	Avg #/day	Total # Month	Avg mg/L	Avg #/day	Total # Month
Jan	151.4	4.9	217	8,736	270,817	300	12,085	374,624	6.05	243	7,528	49.0	1961	60,780	702	28,228	875,077
Feb	135.2	4.8	231	8,334	258,362	311	12,383	346,731	5.91	235	6,583	46.4	1641	50,873	796	28,751	891,291
Mar	227.7	7.3	150	9,098	282,028	212	12,818	397,347	3.89	234	7,264	32.0	1,929	59,806	590	35,765	1,108,705
Apr	202.9	6.8	179	9,975	299,254	231	12,852	385,562	4.36	241	7,241	34.4	1,790	55,483	580	30,560	916,811
May	198.4	6.4	182	9,555	296,212	264	13,942	432,203	4.92	260	8,054	37.9	1,926	59,693	631	34,789	1,043,666
June	191.7	6.4	204	10,428	312,840	296	14,746	442,373	5.10	255	7,646	37.4	1,831	54,919	679	33,103	993,089
Jul	259.3	8.4	163	11,266	349,258	203	13,606	421,799	3.63	243	7,536	28.3	1,872	58,018	499	32,811	1,017,148
Aug	260.4	8.4	169	11,585	359,123	227	15,206	471,381	3.97	262	8,128	30.6	1,937	60,050	613	39,244	1,216,557
Sep	192.1	6.4	219	11,634	349,029	256	13,525	405,741	4.82	254	7,613	37.4	1,983	59,503	634	33,372	1,001,147
Oct	170.5	5.5	234	10,694	331,525	315	14,406	446,579	5.71	260	8,075	43.7	2,054	61,625	624	29,640	889,197
Nov																	
Dec																	
Yearly Average	199.0	6.5	195	10,131	310,845	262	13,557	412,434	4.83	249	7,567	37.7	1,892	58,075	635	32,626	995,269
Yearly Total	1,989.7				3,108,449			4,124,341			75,668			580,749			9,952,687

*Includes Hauled Waste

[Plant Design Capacity] →

(Hauled Waste Gallons)= 184,170

[Max Design Capacity] →

October % of Max Capacity →

8.5	13,565	12,209	339	1,600
11.9	16,278	14,651	407	1,920
46%	66%	98%	64%	107%

October Max Daily Flow (MGD) 6.21

EFFLUENT QUALITY

MONTH	FLOW		TSS			BOD			TOTAL PHOSPHORUS			AMMONIA			CHLORIDE
	Million Gallons	Avg MGD	Avg mg/L	Avg #/day	Total # /Month	Avg mg/L	Avg #/day	Total # Month	Avg mg/L	Avg #/day	Total # Month	Avg mg/L	Avg #/day	Total # Month	Avg mg/L
Jan	63.8	2.1	10.9	185	5,721	9.3	160	4,957	0.31	5.2	163	0.42	7.8	242	707
Feb	66.3	2.4	11	206	5,759	10	196	5,499	0.31	5.9	167	0.42	7.7	238	808
Mar	136.9	4.4	7.1	259	8,037	7.0	260	8,070	0.20	7.4	229	0.28	10.0	310	603
Apr	123.5	4.1	6.5	222	6,664	5.8	198	5,945	0.19	6.4	193	0.31	10.2	315	600
May	138.3	4.5	5.8	211	6,552	6.2	221	6,864	0.28	9.8	304	0.38	13.0	404	656
June	93.5	3.1	9.8	290	8,712	9.9	262	7,865	0.37	9.4	281	0.37	7.7	240	673
Jul	165.4	5.3	15.1	725	22,480	13.5	628	19,465	0.34	15.4	477	0.45	21.1	654	493
Aug	158.2	5.1	13.6	581	18,018	12.0	490	15,188	0.31	12.6	392	0.42	15.3	476	561
Sep	114.8	3.8	15.9	492	14,770	11.2	343	10,305	0.40	12.3	369	0.53	15.9	492	654
Oct	108.4	3.5	17.0	475	14,722	12.2	337	10,441	0.41	11.7	363	0.52	15.3	473	642
Nov															
Dec															
Yearly Average	116.9	3.8	11.2	365	11,143	9.7	309.7	9,460	0.31	9.6	294	0.41	12.4	384.3	640
Yearly Total	1,169.1				111,434			94,599			2,938			3,842.7	

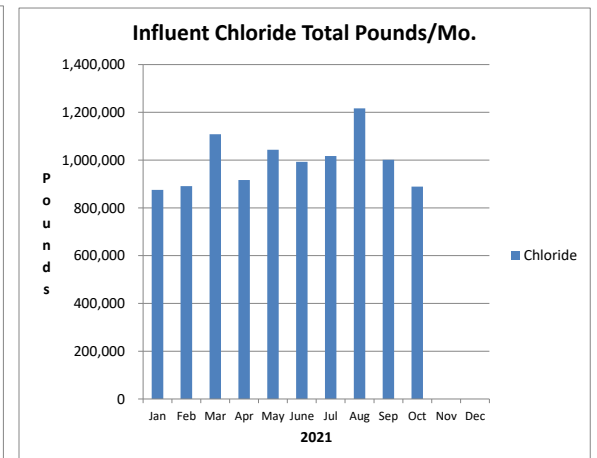
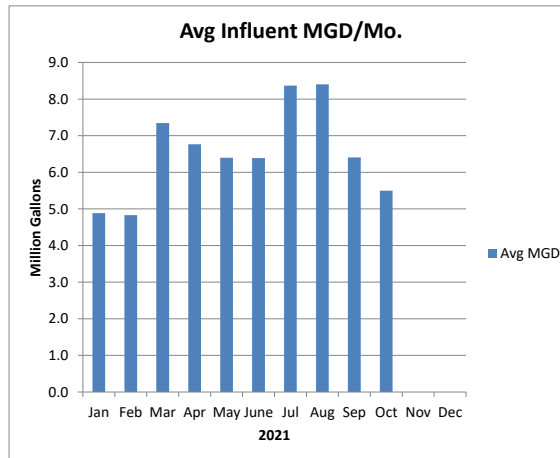
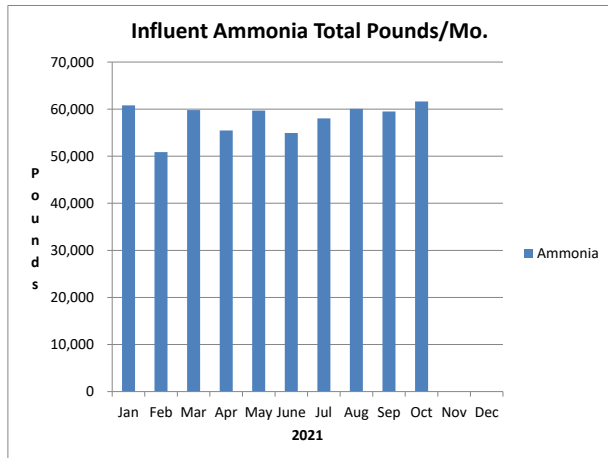
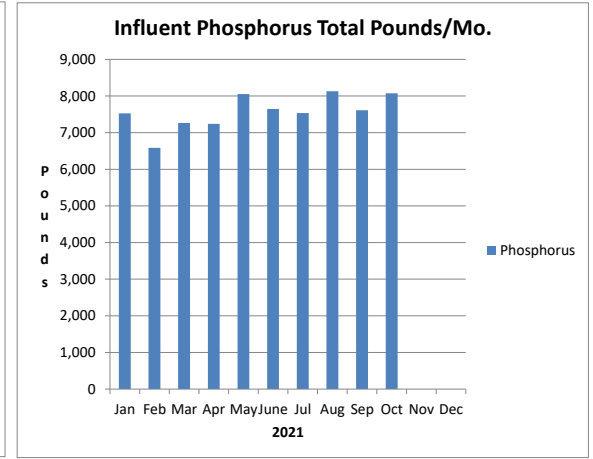
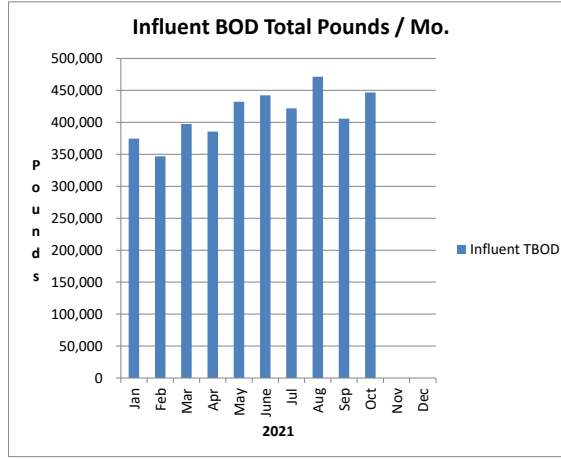
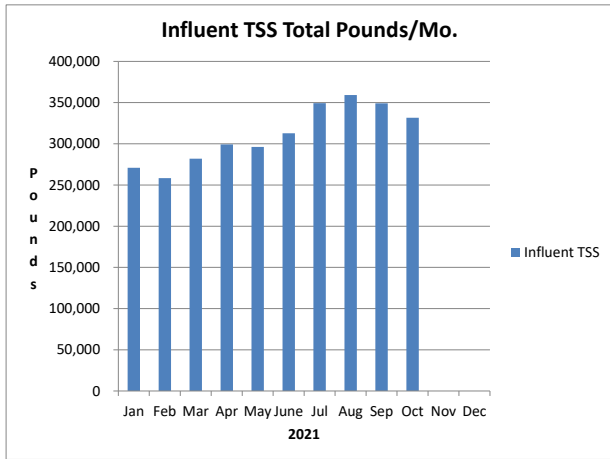
{PERMIT LIMITS (WDNR) →}	Monthly (Avg)	801#	Monthly Avg	30 mg/L	Monthly Avg	31.5#
	Weekly (Avg)	1345#	Weekly Avg	45 mg/L	6 mo Avg	10.5#
	Daily Max (mg/L)	30	WLA June-Oct		Daily Max mg/L	1.0

	Monthly Avg Limit
Jan- March	10 mg/L
April-May	11 mg/L
June-Sept	4.4 mg/L
Oct- Dec	18 mg/L

Effluent Gallons to Fox Energy (October)	62.09	% to Fox Energy	32%
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October	Avg #'s
WEEK 1	660
WEEK 2	635
WEEK 3	363
WEEK 4	323

6 mo. Avg #	11.88	May-Oct
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RAIN GAUGES

DAILY RAINFALL TOTALS

MONTH: OCTOBER

YEAR: 2021

<u>DATE</u>	<u>PLANT</u> <u>INCHES</u>	<u>KAUKAUNA</u> <u>INCHES</u>	<u>LITTLE CHUTE</u> <u>INCHES</u>	<u>KIMBERLY</u> <u>INCHES</u>	<u>DARBOY</u> <u>INCHES</u>
1	0.00	0.00	0.00	0.00	0.00
2	0.01	0.01	0.15	0.21	0.03
3	0.53	0.22	0.01	0.06	0.07
4	0.01	0.01	0.01	0.01	0.01
5	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00
7	0.28	0.27	0.35	0.19	0.18
8	0.04	0.03	0.02	0.01	0.01
9	0.00	0.00	0.00	0.00	0.00
10	0.01	0.01	0.02	0.04	0.01
11	0.04	0.05	0.10	0.06	0.10
12	0.15	0.11	0.02	0.09	0.15
13	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00
21	0.05	0.05	0.04	0.05	0.03
22	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00
28	0.06	0.07	0.06	0.06	0.07
29	0.08	0.08	0.10	0.13	0.11
30	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00
TOTAL:	1.26	0.91	0.88	0.91	0.77