



CITY OF PORTLAND ENVIRONMENTAL SERVICES

Erickson



Columbia Blvd. Wastewater Treatment Plant, 5001 N. Columbia Blvd., Portland, OR 97203-2098
(503) 823-2400, FAX (503) 823-2409

12 May 1994

Lyle Christensen, DEQ Northwest Region
2020 SW Fourth Avenue, Suite 400
Portland OR 97201-4959

Dear Mr. Christensen,

Starting with this April NPDES report, I am pleased to state that our NPDES preprints have been fully corrected and now they truly reflect our reporting requirements.

The most significant change from past preprints is the addition of two more lines to allow reporting of daily mass maximums for BOD and TSS for plant flows less than 12.5 MGD. (At flows less than 12.5 MGD, our mass limit is 4153 pounds in winter and 2769 pounds in summer).

Past preprints only allowed reporting daily mass maximums for BOD and TSS for plant flows equal to or greater than 12.5 MGD. (At flows equal to or greater than 12.5 MGD, our mass limit is 9382 pounds in winter and 6255 pounds in summer).

Now both flow conditions can be properly reported.

Lucita Valiere (EPA, Seattle) deserves tremendous credit for implementing the corrections. She had to learn a fairly complicated set of permit conditions and program these conditions into a format for printing.

And for April 29th, we are missing a value for plant influent BOD concentration. A lab scheduling error resulted in that bottle not being read at the proper time. Our lab services are normally very good and I do not expect this type of error to be an ongoing problem.

Please call me at 823-2318 if you have questions.

Sincerely,

Larry Erickson
Operations Manager
Tryon Creek WWTP

Erickson

TRYON CREEK PLANT: CITY OF PORTLAND
PLANT TYPE: ACTIVATED SLUDGE

CLACKAMAS COUNTY

PERMIT NO. 33409-J (FILE 70735)

POPULATION SERVED: 31000

RECEIVING STREAM: WILLAMETTE RIVER

WASTEWATER TREATMENT PLANT MONITORING REPORT

WASTEWATER TREATMENT PROCESS CONTROL

NUTRIENTS

Date	FLOW		PLANT INFLUENT				PLANT EFFLUENT														ANAEROBIC DIGESTER				AERATION BASIN			Sldg Flow to			PLANT EFFLUENT			
																					DIEGESTER				SUS			Pre Off CL2						
	INF	EFF	pH	BOD	Sol	Temp	pH	DO	BOD	Rem	Dis	TSS	Rem	Dis	Fed	Res	Coli /	Fec	Vol.	Sol.	Red. (%)	75.5	SVI	Sol	DO	cip	Site	Str	Total	TKN	NH3	NO3+		
	mgd	mgd	mg/l	mg/l	mg/l	oC	mg/l	mg/l	%	lbs	mg/l	%	lbs	mg/l	lbs	mg/l	100ml	G.M.	pH	CO2	Alk	Temp	mg/l	mg/l	mg/l	mgd	mgd	mg/l	P	mg/l	N	NO2-N		
May-94																																		
1	7.27	7.26	7.1	185	174	15	7.3	6.8	11	94	666	4	98	242	40	0.43																		
2	7.02	7.00	7.5	195	217	15	7.5	8.4	10	95	584	4	98	234	130	0.52	33																	
3	7.07	7.05	7.0	385	195	15	7.5	7.7	11	97	647	8	96	470	40	0.55	38																	
4	7.81	7.79	7.1	180	203	15	7.4	7.5	17	91	1104	5	98	325	90	0.58	50																	
5	7.14	7.12	7.3	180	170	16	7.4	6.4	14	92	832	4	98	238	50	0.69	35																	
6	6.88	6.86	7.1	250	214	16	7.6	6.8	17	93	973	4	98	229	50	0.51	150																	
7	7.00	7.00	7.0	235	183	16	7.4	7.0	16	93	934	5	97	292	50	0.48																		
8	6.84	6.83	7.2	220	190	15	7.3	7.7	11	95	627	3	98	171	90	0.63	27																	
9	7.12	7.10	7.4	245	194	16	7.5	7.6	13	95	770	4	98	237	50	0.57	22																	
10	6.78	6.76	7.4	250	231		7.5		13	95	733	4	98	225	70	0.60	8																	
11	6.69	6.67	6.5	255	205		7.4		16	94	890	4	98	222	50	0.60	7																	
12	6.68	6.66	7.4	185	207	17	7.4	7.2	18	90	999	3	99	167	70	0.65																		
13	6.56	6.54	7.2	225	217	17	7.5	6.8	12	95	655	8	96	436	50	0.52																		
14	6.81	6.81	6.8	280	224	17	7.4	7.1	15	95	852	5	98	284	90	0.53																		
15	7.23	7.23	7.1	220	215	16	7.4	6.6	20	91	1206	8	96	482	70	0.40																		
16	7.18	7.16	7.5	210	212		7.6		20	90	1194	8	96	478	80	0.57	13																	
17	7.12	7.10	6.9	210	249	16	7.4	7.1	24	89	1421	6	98	355	70	0.42	22																	
18	6.95	6.93	7.3	215	201	17	7.5	6.9	23	89	1329	9	96	520	80	0.46	2																	
19	6.94	6.92	7.4	265	210	16	7.4	7.2	25	91	1442	12	94	692	70	0.56	5																	
20	6.82	6.80	7.4	245	205	16	7.4	7.3	24	90	1362	6	97	341	90	0.62	10																	
21	6.76	6.76	7.0	250	209		7.4		26	90	1466	10	95	564	100	0.53																		
22	6.72	6.71	7.4	210	197		7.3		23	89	1288	5	97	280	90	0.38																		
23	6.96	6.92	7.5	200	203	17	7.3	6.8	36	82	2079	27	87	1559	140	0.50	17																	
24	6.65	6.62	7.2	215	218	17	7.4	7.1	24	89	1325	7	97	386	160	0.58	120																	
25	6.59	6.55	7.4	245	237	17	7.4	6.3	23	91	1257	10	96	547	90	0.67	5																	
26	6.74	6.71	7.1	220	206	17	7.4	6.9	22	90	1231	5	98	280	90	0.95	600																	
27	6.66	6.64	7.2	330	221	16	7.4	7.2	22	93	1219	6	97	332	80	0.58	30																	
28	6.50	6.50	7.2	240	196	16	7.4	7.2	25	90	1355	6	97	325	90	0.68	15																	
29	6.35	6.35	7.4	175	192		7.4		15	91	794	4	98	212	80	0.52	2																	
30	6.81	6.79	7.5	325	244		7.5		17	95	962	6	98	340	80	0.57	2																	
31	7.08	7.06	7.2	230	218		7.5		21	91	1236	6	97	353	50	0.68	15																	
Max	7.81	7.79	7.5	385	249	17	7.6	8.4	36	97	2079	27	99	1559	160	1.0	600	51	0.0	41	0	99	724	1651	2.1	0.35	0.036	0.00	5.50	21.70	19.60	0.89		
Min	6.35	6.35	6.5	175	170	15	7.3	6.3	10	82	584	3	87	167	40	0.4	2	8	0.0	40	0	91	220	1143	0.4	0.00	0.000	0.00	2.70	17.60	15.20	0.80		
Avg	6.89	6.88		235	208	16		7.1	19	92	1078	7	97	381	78	0.6	18	27	####	41	####	98	426	1301	1.1	0.05	0.017	0.00	3.45	20.53	17.90	0.84		
Sum	213.73	213.21												2430													1.70	0.516	0.00					
PLANT EFFLUENT PERMIT STANDARDS: pH 6.0-9.0; Fecal Coli 200/100 CL2 Res. 1.0 (Daily Max)																			Remarks: (Improvements, Operational Changes, Weed Control Programs, Etc.)															
*Sus Sol 20/ 30 mg/l Sus Sol Discharged 1384/ 2077 lbs																			Influent BOD5 is a Blended Sample Sludge Hauled to Columbia Blvd WTP															
*BOD 20/ 30 mg/l BOD Discharged 1384/ 2077 lbs																																		
*May 1 - October 31 / November 1 - April 30																																		
I certify that I am familiar with the information contained in this report and that to the best of my knowledge such information is true and complete.											Name and Title: Larry K. Erickson								All Test Data Subject to Variability of Test															
											Operations Manager																							
											Signature <i>Larry K Erickson</i>																							

Page 1									
Date May-94	Plant Effluent Nutrients				Flow		Weather		Precip "
	Total P	NH3-N	NO3 + NO2-N	TKN	Portland	Lake Oswego	Temperature Max o F	Min o F	
	mg/l	mg/l	mg/l	mg/l	mgd	mgd			
5/1/94					3.31	3.96	68	44	0.00
5/2/94	2.80	15.20	0.89	21.30	3.18	3.84	71	48	0.00
5/3/94					3.28	3.79	67	44	0.25
5/4/94					3.65	4.16	79	55	0.15
5/5/94					3.30	3.84			0.00
5/6/94					3.18	3.70	91	52	0.00
5/7/94					3.28	3.72	96	54	0.00
5/8/94					3.21	3.63	87	53	0.00
5/9/94	2.80	18.60	0.86	21.70	3.21	3.91	86	50	0.00
5/10/94					3.11	3.67	95	48	0.00
5/11/94					3.09	3.60	85	55	0.00
5/12/94					3.09	3.59	81	52	0.00
5/13/94					2.98	3.58	77	54	0.00
5/14/94					3.11	3.70	79	46	0.00
5/15/94					3.32	3.91	74	52	0.00
5/16/94					3.37	3.81	52	49	0.35
5/17/94	2.70	19.60	0.80	17.60	3.18	3.94	61	49	0.20
5/18/94					3.11	3.84	79	49	0.00
5/19/94					3.05	3.89	70	49	0.20
5/20/94					3.03	3.79	67	53	0.00
5/21/94					3.10	3.66	82	53	0.00
5/22/94					3.07	3.65	84	53	0.00
5/23/94	5.50	18.20	0.80	21.50	3.08	3.88	87	66	0.00
5/24/94					2.97	3.68	91	51	0.00
5/25/94					2.96	3.63	80	55	0.00
5/26/94					3.01	3.73	74	41	0.00
5/27/94					2.98	3.68	78	43	0.00
5/28/94					2.98	3.52	62	50	0.10
5/29/94					2.94	3.41	73	51	0.20
5/30/94					3.13	3.68	88	44	0.00
5/31/94					3.27	3.81	75	55	0.25
Max	5.50	19.60	0.89	21.70	3.65	4.16	96	66	0.35
Min	2.70	15.20	0.80	17.60	2.94	3.41	52	41	0.00
Avg	3.45	17.90	0.84	20.53	3.15	3.75	78	51	0.05
Sum					97.53	116.20			1.70

PRIMARY TREATMENT

INFLUENT									EFFLUENT					
Date May-94	Flow mgd	Susp Sol. mg/l lbs		BOD5 mg/l lbs		Pop Equiv	Temp oC	pH	Susp Sol. mg/l lbs		BOD5 mg/l lbs		Det Time hrs	No. Basins On
5/1/94	7.27	174	10550	185	11217	65982	15	7.1					3.1	4
5/2/94	7.02	217	12705	195	11417	67157	15	7.5					3.2	4
5/3/94	7.07	195	11498	385	22701	#####	15	7.0					3.2	4
5/4/94	7.81	203	13222	180	11724	68967	15	7.1					2.9	4
5/5/94	7.14	170	10123	180	10719	63050	16	7.3					3.2	4
5/6/94	6.88	214	12279	250	14345	84381	16	7.1					3.3	4
5/7/94	7.00	183	10684	235	13719	80702	16	7.0					3.2	4
5/8/94	6.84	190	10839	220	12550	73824	15	7.2					3.3	4
5/9/94	7.12	194	11520	245	14548	85578	16	7.4					3.2	4
5/10/94	6.78	231	13062	250	14136	83155		7.4					3.3	4
5/11/94	6.69	205	11438	255	14228	83692		6.5					3.4	4
5/12/94	6.68	207	11532	185	10307	60627	17	7.4					3.4	4
5/13/94	6.56	217	11872	225	12310	72411	17	7.2					3.4	4
5/14/94	6.81	224	12722	280	15903	93545	17	6.8					3.3	4
5/15/94	7.23	215	12964	220	13266	78033	16	7.1					3.1	4
5/16/94	7.18	212	12695	210	12575	73971		7.5					3.1	4
5/17/94	7.12	249	14786	210	12470	73353	16	6.9					2.4	3
5/18/94	6.95	201	11651	215	12462	73306	17	7.3					2.4	3
5/19/94	6.94	210	12155	265	15338	90224	16	7.4					2.4	3
5/20/94	6.82	205	11660	245	13935	81972	16	7.4					2.5	3
5/21/94	6.76	209	11783	250	14095	82909		7.0					2.5	3
5/22/94	6.72	197	11041	210	11769	69232		7.4					2.5	3
5/23/94	6.96	203	11783	200	11609	68290	17	7.5					2.4	3
5/24/94	6.65	218	12090	215	11924	70142	17	7.2					2.5	3
5/25/94	6.59	237	13026	245	13465	79208	17	7.4					2.6	3
5/26/94	6.74	206	11580	220	12367	72744	17	7.1					2.5	3
5/27/94	6.66	221	12275	330	18330	#####	16	7.2					2.5	3
5/28/94	6.50	196	10625	240	13010	76532	16	7.2					2.6	3
5/29/94	6.35	192	10168	175	9268	54517		7.4					2.7	3
5/30/94	6.81	244	13858	325	18459	#####		7.5					2.5	3
5/31/94	7.08	218	12872	230	13581	79887		7.2	206	####			2.4	3
Max	7.81	249	14786	385	22701	#####	17	7.5	206	####	0	0	3.4	4
Min	6.35	170	10123	175	9268	54517	15	6.5	206	####	0	0	2.4	3
Avg	6.89	208	11970	235	13476	79269	16		206	####	####	####	2.9	4
Sum	213.73		371058		417746					####		0		

Page 3		SECONDARY EFFLUENT										
Date	Flow	Susp Sol.		BOD5		FCSS		SBD	RSSS	Ovr-flow	pH	No.
May-94	mgd	mg/l	lbs	mg/l	lbs	mg/l	lbs	ft	mg/l	gpd / ft2		Basins
												On
5/1/94	7.26	1	61	16	969	1519	23058	2.2		481		2
5/2/94	7.00	12	701	14	817	2019	30648	2.4		464		2
5/3/94	7.05	7	412	13	764	1959	29738	2.3		468		2
5/4/94	7.79	12	780	18	1169	2334	35430	2.1		517		2
5/5/94	7.12	10	594	20	1188	1611	24455	2.1		472		2
5/6/94	6.86	8	458	14	802	1743	26459	2.2		455		2
5/7/94	7.00	9	525	14	817	2499	37935	2.3		464		2
5/8/94	6.83	9	513	14	797	2442	37070	2.2		453		2
5/9/94	7.10	6	355	18	1066	1726	26201	2.6		471		2
5/10/94	6.76	8	451	13	733	2742	41624	3.1		448		2
5/11/94	6.67	4	222	14	779	1818	27597	2.5		442		2
5/12/94	6.66	8	444	14	777	1990	30208	2.9		441		2
5/13/94	6.54	10	545	15	818	2091	31741	2.5		434		2
5/14/94	6.81	12	682	16	909	2338	35491	2.7		452		2
5/15/94	7.23	17	1025	18	1085	2184	33153	3.0		480		2
5/16/94	7.16	16	955	18	1075	2889	43855	4.3		475		2
5/17/94	7.10	9	533	17	1007	2556	38800	3.4		471		2
5/18/94	6.93	19	1098	20	1156	2288	34732	3.8		460		2
5/19/94	6.92	15	865	22	1269	2435	36963	3.8		459		2
5/20/94	6.80	14	795	22	1249	2211	33563	5.9		451		2
5/21/94	6.76	16	902	22	1240	3060	46451	8.3		448		2
5/22/94	6.71	22	1232	22	1232	3155	47893	8.4		445		2
5/23/94	6.92	72	4158	77	4447	3055	46375	9.2		459		2
5/24/94	6.62	124	6846	40	2208	2835	43035	7.0		439		2
5/25/94	6.55	48	2624	42	2296	2310	35066	5.5		435		2
5/26/94	6.71	10	560	16	896	2262	34337	5.5		445		2
5/27/94	6.64	14	776	16	887	1997	30314	5.7		441		2
5/28/94	6.50	14	759	22	1193	2256	34246	5.8		431		2
5/29/94	6.35	11	583	21	1112	2501	37965	7.2		421		2
5/30/94	6.79	8	453	16	906	2722	41320	7.1		450		2
5/31/94	7.06	19	1118	26	1530	2388	36250	6.6		468		2
Max	7.79	124	6846	77	4447	3155	47893	9.2	0	517		2
Min	6.35	1	61	13	733	1519	23058	2.1	0	421		2
Avg	6.88	18	1033	21	1200	2320	35225	4.3	#DIV/0!	456		2
Sum	213.21		32023		37192							

PLANT EFFLUENT											Fecal Coliform		DO	pH	Flow to Cl2 Str mgd
											Count	G Ave			
Page 4											70				
											55				
											32				
											35				
											44				
Date	Flow	Susp Sol.			BOD5			Cl2 Cntct	Cl2	Cl2		45			
May-94	mgd	mg/l	lbs	% Rem	mg/l	lbs	% Rem	Time	Feed	Res			mg/l		
5/1/94	7.26	4	242	98	11	666	94	2.3	40	0.4			6.8	7.3	0.00
5/2/94	7.00	4	234	98	10	584	95	2.4	130	0.5	33		8.4	7.5	0.00
5/3/94	7.05	8	470	96	11	647	97	2.4	40	0.6	38		7.7	7.5	0.00
5/4/94	7.79	5	325	98	17	1104	91	2.2	90	0.6	50		7.5	7.4	0.00
5/5/94	7.12	4	238	98	14	832	92	2.4	50	0.7	35		6.4	7.4	0.00
5/6/94	6.86	4	229	98	17	973	93	2.5	50	0.5	150		6.8	7.6	0.00
5/7/94	7.00	5	292	97	16	934	93	2.4	50	0.5		51	7.0	7.4	0.00
5/8/94	6.83	3	171	98	11	627	95	2.5	90	0.6	27		7.7	7.3	0.00
5/9/94	7.10	4	237	98	13	770	95	2.4	50	0.6	22		7.6	7.5	0.00
5/10/94	6.76	4	225	98	13	733	95	2.5	70	0.6	8			7.5	0.00
5/11/94	6.67	4	222	98	16	890	94	2.5	50	0.6	7			7.4	0.00
5/12/94	6.66	3	167	99	18	999	90	2.5	70	0.7			7.2	7.4	0.00
5/13/94	6.54	8	436	96	12	655	95	2.6	50	0.5			6.8	7.5	0.00
5/14/94	6.81	5	284	98	15	852	95	2.5	90	0.5		14	7.1	7.4	0.00
5/15/94	7.23	8	482	96	20	1206	91	2.3	70	0.4			6.6	7.4	0.00
5/16/94	7.16	8	478	96	20	1194	90	2.4	80	0.6	13			7.6	0.00
5/17/94	7.10	6	355	98	24	1421	89	2.4	70	0.4	22		7.1	7.4	0.00
5/18/94	6.93	9	520	96	23	1329	89	2.4	80	0.5	2		6.9	7.5	0.00
5/19/94	6.92	12	692	94	25	1442	91	2.4	70	0.6	5		7.2	7.4	0.00
5/20/94	6.80	6	341	97	24	1362	90	2.5	90	0.6	10		7.3	7.4	0.00
5/21/94	6.76	10	564	95	26	1466	90	2.5	100	0.5		8		7.4	0.00
5/22/94	6.71	5	280	97	23	1288	89	2.5	90	0.4				7.3	0.00
5/23/94	6.92	27	1559	87	36	2079	82	2.4	140	0.5	17		6.8	7.3	0.00
5/24/94	6.62	7	386	97	24	1325	89	2.5	160	0.6	120		7.1	7.4	0.00
5/25/94	6.55	10	547	96	23	1257	91	2.6	90	0.7	5		6.3	7.4	0.00
5/26/94	6.71	5	280	98	22	1231	90	2.5	90	1.0	600		6.9	7.4	0.00
5/27/94	6.64	6	332	97	22	1219	93	2.5	80	0.6	30		7.2	7.4	0.00
5/28/94	6.50	6	325	97	25	1355	90	2.6	90	0.7	15	37	7.2	7.4	0.00
5/29/94	6.35	4	212	98	15	794	91	2.7	80	0.5	2			7.4	0.00
5/30/94	6.79	6	340	98	17	962	95	2.5	80	0.6	2			7.5	0.00
5/31/94	7.06	6	353	97	21	1236	91	2.4	50	0.7	15			7.5	0.00
Max	7.79	27	1559	99	36	2079	97	2.7	160	1.0	600.0	50.5	8.4	7.6	0.00
Min	6.35	3	167	87	10	584	82	2.2	40	0.4	2.0	7.8	6.3	7.3	0.00
Avg	6.88	7	381	97	19	1078	92	2.5	78	0.6	17.7	27.3	7.1		0.00
Sum	213.21		11819			33433			2430						0.00

[illegible]

[illegible]

Page 7		SLUDGE PROCESSING												
Date May-94	Thickened Primary Sludge				WAS			Gravity Belt			TWAS			Sludge Disp Off Site MGD
	Flow gal	Tot Sol %	Vol Sol %	Vol Content %	Flow mgd	Susp. mg/l	Sols lbs	Capture %	Filtrate mg/l	Poly lbs	Total Sols. %	lbs	Gal Hauled	
5/1/94	17160				0.038	14130	4491				5.92	5120	10370	0.0104
5/2/94	16180				0.047	20010	7904				6.18	7221	14010	0.0200
5/3/94	15960				0.047	20450	8023				6.26	7638	14630	0.0206
5/4/94	17580				0.042	21530	7551				7.56	9275	14710	0.0207
5/5/94	18400				0.039	19690	6414				6.29	5309	10120	0.0161
5/6/94	17800				0.045	13290	4968				6.59	8272	15050	0.0151
5/7/94	17800				0.000		0					0	0	0.0000
5/8/94	17260	6.12	5.09	83.2	0.031	20380	5244				5.64	4958	10540	0.0105
5/9/94	17190				0.048	25820	10254				6.03	7740	15390	0.0214
5/10/94	17590				0.048	16790	6724				5.93	7626	15420	0.0214
5/11/94	14710				0.045	19630	7367				5.97	7468	15000	0.0210
5/12/94	17320				0.064	19420	10406				6.30	9694	18450	0.0245
5/13/94	16930				0.042	18053	6375				5.76	6817	14190	0.0202
5/14/94	16810				0.000		0					0	0	0.0000
5/15/94	17380				0.000		0					0	0	0.0000
5/16/94	16790	4.87	4.08	83.8	0.045	19990	7502				5.50	6881	15000	0.0210
5/17/94	16730				0.062	17060	8833				6.85	10397	18200	0.0182
5/18/94	17000				0.045	19633	7368				6.06	7581	15000	0.0210
5/19/94	16980				0.052	20650	8880				5.98	7845	15730	0.0217
5/20/94	16900				0.040	19720	6656				5.88	7537	15370	0.0154
5/21/94	16740				0.000		0					0	0	0.0000
5/22/94	17010				0.000		0					0	0	0.0060
5/23/94	17450				0.153	12303	15719				4.82	14439	35920	0.0359
5/24/94	17260				0.085	15117	10696				5.54	11204	24250	0.0303
5/25/94	17920				0.116	16720	16176				5.64	14022	29810	0.0358
5/26/94	18810				0.079	12927	8513				5.88	11019	22470	0.0285
5/27/94	18470				0.062	13110	6741				6.34	8608	16280	0.0163
5/28/94	18660				0.000		0					0	0	0.0000
5/29/94	18140				0.000		0					0	0	0.0000
5/30/94	18920	6.69	5.51	82.4	0.069	12564	7182				6.26	8359	16010	0.0220
5/31/94	18410				0.067	13400	7488				5.44	10018	22080	0.0221
Max	18920	6.69	5.51	83.8	.153	25820	16176	0.00	0		7.56	14439	35920	0.036
Min	14710	4.87	4.08	82.4	.000	12303	0	0.00	0		4.82	0	0	0.000
Avg	17363	5.89	4.90	83.1	.046	17599	6370	#DIV/0!	#DIV/0!		6.03	6614	13355	0.017
Sum	538260				1.411		197473					205047	414000	0.516

MONTHLY REPORT SUMMARY

PRIMARY TREATMENT											
S S	Influent		Effluent		Rem	Primary					
	mg/l	lbs/ day	mg/l	lbs/ day	%	Feed Sludge					
	208	11970	206	12164	1	Flow gal/ day	Total Solids %	Volatile Content %			
	BOD5	235	13476	#DIV/0!	#DIV/0!	#DIV/0!	17363	5.89	83.1		
	Detent Time hrs		Population Equivalent		Flow mgd	Precip "					
	2.9		79269		6.89	1.7	Detention Time days		Loading lbs VS / ft3 /day		
						21		0.15			
SECONDARY TREATMENT											
S S	Influent		Effluent		Rem						
	mg/l	lbs/ day	mg/l	lbs/ day	%						
	208	11970	7	381	97	Total Solids %	Volatile Content %		Vol Sol Reduct %		
	BOD5	235	13476	19	1078	92	5.36	54.7		75.5	
F/M	SVI		SRT days		MLSS mg/l						
#DIV/0!	426		7.6		1301	Total Solids (TWS) %		Capture %		Filtrate Solids mg/l	
	RAS Flow mgd		CL2 Res mg/l		CL2 Feed lbs/day	6.03		#DIV/0!		#DIV/0!	
	0.37		0.6		78						
	WAS Flow mgd		Aerator Detention Time hrs		Aerator DO mg/l	Digst		3290	1472	0	
	.046		4.8		1.1	TWS		13355	6712	0	
						Total		16645	8183	0	
								gal/day	lbs /day	lbs/mo	