



CITY OF PORTLAND ENVIRONMENTAL SERVICES



Tryon Creek Wastewater Treatment Plant

195 SW Foothills Road, Bldg 310, Lake Oswego, Oregon 97034 ■ Sam Adams, Commissioner ■ Dean Marriott, Director

June 11, 2009

Mr. Lyle Christensen
2020 SW Fourth Avenue, Suite 400
Portland OR 97201-4987



Dear Mr. Christensen:

I am enclosing the May 2009, DMR for the City of Portland's Tryon Creek Wastewater Treatment Plant (TCWTP).

All measured parameters were within permit limitations during the month.

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

Sincerely,

Greg A. Hettman
Operations Manager,
Tryon Creek WTP

STATE OF OREGON DISCHARGE MONITORING REPORT

CITY OF PORTLAND TRYON CREEK POTW
195 FOOTHILLS ROAD
LAKE OSWEGO OR 97034-3163

PLANT TYPE ACTIVATED SLUDGE
TREATMENT SYSTEM CLASS IV
COLLECTION SYSTEM CLASS IV

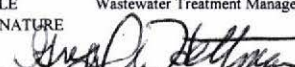
MAJOR BASIN
RECEIVING STREAM
COUNTY

WILLAMETTE
WILLAMETTE
CLACKAMAS

POPULATION EQUIVALENT
PERMIT NUMBER
FILE NUMBER
EXPIRATION

46,784
101614
70735
9/30/2009

DATE	FLOW			PLANT INFLUENT			PLANT EFFLUENT																	
May-09	INF	INF	EFF	pH	BOD	TSS	pH	BOD	BOD	BOD	BOD	BOD	TSS	TSS	TSS	TSS	TSS	EFF	CL2	E.COLI /	Total P mg/l	TKN mg/l	NH3 N mg/l	NO3+ NO2-N mg/l
	mgd	PEAK mgd	mgd		mg/l	mg/l		mg/l	Wkly Avg mg/l	Rem %	Dis lbs	Wkly Avg Dis lbs	mg/l	Wkly Avg mg/l	Rem %	Dis lbs	Wkly Avg Dis lbs	TEMP 0 °C	Res mg/l	100ml				
1	5.38	9.00	5.36	6.8			6.9		6	97	338	279	10	5	93	563	219	15	0.6					
2	6.88	12.40	6.88		176	153		6										14	0.5					
3	6.75	10.50	6.75				7.0											14	0.5					
4	10.35	19.00	10.33	6.8			6.8											13	0.5	<1				
5	9.29	15.00	9.26	6.8			6.8											13	0.5					
6	9.38	12.50	9.35	6.9	116	130	6.8	5		96	390		4		97	312		13	0.4	23	0.36	13.70	12.40	0.24
7	8.48	11.60	8.45	6.8	<100	21	6.8	4		96	282		4		81	282		13	0.5	38				
8	7.11	11.30	7.10	6.7			6.7											14	0.4					
9	6.60	12.00	6.60						5			337		6			386	14	0.4					
10	6.41	12.00	6.41		198	160		5		97	267		6		96	321		14	0.5					
11	5.72	9.40	5.70	6.8			6.8											14	0.4	12				
12	5.25	9.50	5.23	7.0	221	190	7.0	5		98	218		4		98	175		14	0.3		0.96	21.30	20.40	0.28
13	6.25	9.70	6.23	6.9			7.0											14	0.4	8				
14	5.73	10.00	5.71	6.8	196	183	6.8	4		98	190		2		99	95		14	0.5	3				
15	5.01	9.10	4.99	6.8			6.9											15	0.5					
16	5.04	11.10	5.04						5			225		4			197	15	0.5					
17	5.33	9.00	5.33		199	224		6		97	267		4		98	178		16	0.4					
18	5.68	10.80	5.67	6.9			6.9											16	0.5	23				
19	5.23	10.80	5.20	6.8	208	228	6.9	5		98	217		4		98	174		16	0.4		1.31	25.10	22.70	0.26
20	4.87	9.50	4.85	6.8			6.9											15	0.4	1				
21	4.73	8.50	4.71	7.0	226	224	7.0	6		97	236		<2		99	79		15	0.4	3				
22	4.37	7.80	4.35	6.8			6.9											16	0.4					
23	4.37	9.10	4.36						6			240		3			143	16	0.4					
24	4.22	9.50	4.22		275	234		5		98	176		4		98	141		16	0.4					
25	4.86	10.00	4.85	6.9			7.0											16	0.4	1				
26	4.36	8.00	4.33	7.0	250	304	6.9	5		98	181		2		99	72		16	0.5		1.09	27.30	25.40	0.28
27	4.62	8.50	4.60	7.0			7.0											17	0.5	2				
28	4.33	9.00	4.32	7.0	274	304	7.0	<6		98	216		<2		99	72		17	0.5	2				
29	5.21	8.00	5.19	6.9			7.0											17	0.5					
30	4.27	9.00	4.27						5			191		3			95	17	0.6					
	4.90	9.50	4.90		256	292		5	5	98	204		4	3	99	163	103	18	0.4					
Max	10.35	19.00	10.33	7.0	275	304	7.0	6	6	98	390	337	10	6	99	563	386	18	0.6	38				
Min	4.22		4.22	6.7	116	21	6.7	4		96	176		2		81	72		13	0.3	<1				
Avg	5.84		5.82		207	204		5		98	245		4		98	202		15	0.44	7				
Sum	180.96		180.55																					

PLANT EFFLUENT PERMIT		May 1 -> October 31		November 1 -> April 30		January 1 -> December 31		REMARKS		Nutrients are sampled May 1 -> October 31	
MONTHLY STANDARDS		BOD 20 mg/l / 1400 lbs BOD		30 mg/l / 3100 lbs		CL2 max 0.7 mg/l		Digested and TWAS sludges are hauled to Columbia Blvd Treatment Plant.			
		TSS 20 mg/l / 1400 lbs TSS		30 mg/l / 3100 lbs		daily pH range 6.0 -> 9.0					
		E. COLI 126 cts/100 ml E. COLI		126 cts/100 ml							
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.								NAME Daniel Clark			
								CLASS Oregon T/IV #4260			
								TITLE Wastewater Treatment Manager			
								SIGNATURE 			



CITY OF PORTLAND
ENVIRONMENTAL SERVICES



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All measured parameters were within permit limitations during the month.

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Greg A. Hettman
Operations Manager,
Tryon Creek WTP

Page 1									
Date May-09	Plant Effluent Nutrients				Flow		Weather		
	Total P	NH3-N	NO3+	TKN	Portland	Lake	Temperature		Precip
	mg/l	mg/l	mg/l	mg/l	mgd	Oswego	Max o F	Min o F	"
05/01/09					1.87	3.51	80	53	0.58
05/02/09					2.37	4.51	74	44	0.35
05/03/09					2.33	4.42	73	44	0.10
05/04/09					3.73	6.62	61	48	1.23
05/05/09					3.19	6.10	66	49	0.40
05/06/09	0.36	12.40	0.24	13.70	3.16	6.22	69	44	0.40
05/07/09					2.79	5.68	69	41	0.20
05/08/09					2.30	4.81	68	39	0.00
05/09/09					2.20	4.40	78	42	0.00
05/10/09					2.19	4.23	71	52	0.00
05/11/09					1.90	3.82	73	44	0.05
05/12/09	0.96	20.40	0.28	21.30	1.74	3.51	63	39	0.05
05/13/09					2.18	4.07	63	50	0.50
05/14/09					1.88	3.84	71	51	0.00
05/15/09					1.64	3.37	79	44	0.00
05/16/09					1.66	3.38	91	49	0.00
05/17/09					1.82	3.51	91	48	0.00
05/18/09					2.10	3.58	85	49	0.35
05/19/09	1.31	22.70	0.26	25.10	1.73	3.50	68	40	0.10
05/20/09					1.58	3.29	71	46	0.00
05/21/09					1.55	3.19	76	46	0.00
05/22/09					1.41	2.96	80	46	0.00
05/23/09					1.44	2.93	81	44	0.00
05/24/09					1.40	2.82	83	43	0.00
05/25/09					1.61	3.25	82	48	0.00
05/26/09	1.09	25.40	0.28	27.30	1.46	2.90	84	51	0.00
05/27/09					1.43	3.19	83	50	0.00
05/28/09					1.39	2.94	93	55	0.00
05/29/09					1.32	3.89	93	53	0.00
05/30/09					1.36	2.92	95	55	0.00
05/31/09					1.58	3.31	95	71	0.00
Max	1.31	25.40	0.28	27.30	3.73	6.62	95	71	1.23
Min	0.36	12.40	0.24	13.70	1.32	2.82	61	39	0.00
Avg					1.95	3.89	78	48	0.14
Sum					60.3	120.7			4.31

Page 2	PRIMARY TREATMENT														Det Time hrs	No. Basins On
	INFLUENT								EFFLUENT							
	Date May-09	Flow mgd	Peak Q mgd	Susp Sol. mg/l lbs		BOD5 mg/l lbs		Pop Equiv	Temp oC	pH	Susp Sol. mg/l lbs		BOD5 mg/l lbs			
05/01/09	5.38	9.0								6.8					3.2	3
05/02/09	6.88	12.4													2.5	3
05/03/09	6.75	10.5	153	8618	176	9914	49569				100	5633	121	6816	2.5	3
05/04/09	10.35	19.0								6.8					2.2	4
05/05/09	9.29	15.0								6.8					2.4	4
05/06/09	9.38	12.5	130	10172	116	9077	45383			6.9	69	5395	72	5630	2.4	4
05/07/09	8.48	11.6	21	1484	<100	7069	35345			6.8	43	3037	63	4450	2.7	4
05/08/09	7.11	11.3								6.7					3.2	4
05/09/09	6.60	12.0													3.4	4
05/10/09	6.41	12.0	160	8558	198	10590	52950				100	5348	127	6793	3.5	4
05/11/09	5.72	9.4								6.8					4.0	4
05/12/09	5.25	9.5	190	8322	221	9680	48401			7.0	140	6132	136	5957	4.3	4
05/13/09	6.25	9.7								6.9					3.6	4
05/14/09	5.73	10.0	183	8739	196	9360	46800			6.8	94	4484	114	5438	3.9	4
05/15/09	5.01	9.1								6.8					4.5	4
05/16/09	5.04	11.1													4.5	4
05/17/09	5.33	9.0	224	9957	199	8846	44230				79	3512	128	5690	4.2	4
05/18/09	5.68	10.8								6.9					3.0	3
05/19/09	5.23	10.8	228	9935	208	9064	45320			6.8	120	5223	138	6006	3.2	3
05/20/09	4.87	9.5								6.8					3.5	3
05/21/09	4.73	8.5	224	8842	226	8921	44605			7.0	85	3351	123	4849	3.6	3
05/22/09	4.37	7.8								6.8					3.9	3
05/23/09	4.37	9.1													4.0	3
05/24/09	4.22	9.5	234	8239	275	9683	48416				81	2852	141	4965	3.5	3
05/25/09	4.86	10.0								6.9					3.5	3
05/26/09	4.36	8.0	304	11041	250	9080	45401			7.0	85	3083	146	5295	3.9	3
05/27/09	4.62	8.5								7.0					3.7	3
05/28/09	4.33	9.0	304	10986	274	9902	49508			7.0	94	3392	156	5629	3.9	3
05/29/09	5.21	8.0								6.9					3.3	3
05/30/09	4.27	9.0													4.0	3
05/31/09	4.90	9.5	292	11923	256	10453	52266				77	3144	146	5962	3.5	3
Max	10.35	19.00	304	11923	275	10590	52950			7.0	140.0	6132.2	156.0	6815.7	4.5	4

[illegible]

[illegible]

[illegible]

Page 8	NPDES Peak Mass Limits										
Date	Total			Instantaneous		DML=9382 lbs			DML=4153 lbs		
May-09	Portland mgd	Lake Oswego mgd	Combined mgd	Peak mgd	Minimum mgd	"O" Limit mgd	BOD lbs	TSS lbs	"P" Limit mgd	BOD lbs	TSS lbs
05/01/09	1.9	3.5	5.4	9.0		19.0			9.0		
05/02/09	2.4	4.5	6.9	12.4					12.4		
05/03/09	2.3	4.4	6.8	10.5					10.5	338	563
05/04/09	3.7	6.6	10.3	19.0							
05/05/09	3.2	6.1	9.3	15.0					15.0		
05/06/09	3.2	6.2	9.4	12.5					12.5	390	312
05/07/09	2.8	5.7	8.5	11.6					11.6	282	282
05/08/09	2.3	4.8	7.1	11.3					11.3		
05/09/09	2.2	4.4	6.6	12.0					12.0		
05/10/09	2.2	4.2	6.4	12.0					12.0	267	321
05/11/09	1.9	3.8	5.7	9.4					9.4		
05/12/09	1.7	3.5	5.3	9.5					9.5	218	175
05/13/09	2.2	4.1	6.3	9.7					9.7		
05/14/09	1.9	3.8	5.7	10.0					10.0	190	95
05/15/09	1.6	3.4	5.0	9.1					9.1		
05/16/09	1.7	3.4	5.0	11.1					11.1		
05/17/09	1.8	3.5	5.3	9.0					9.0	267	178
05/18/09	2.1	3.6	5.7	10.8					10.8		
05/19/09	1.7	3.5	5.2	10.8					10.8	217	174
05/20/09	1.6	3.3	4.9	9.5					9.5		
05/21/09	1.5	3.2	4.7	8.5					8.5	236	79
05/22/09	1.4	3.0	4.4	7.8					7.8		
05/23/09	1.4	2.9	4.4	9.1					9.1		
05/24/09	1.4	2.8	4.2	9.5					9.5	176	141
05/25/09	1.6	3.2	4.9	10.0					10.0		
05/26/09	1.5	2.9	4.4	8.0					8.0	181	72
05/27/09	1.4	3.2	4.6	8.5					8.5		
05/28/09	1.4	2.9	4.3	9.0					9.0	216	72
05/29/09	1.3	3.9	5.2	8.0					8.0		
05/30/09	1.4	2.9	4.3	9.0					9.0		
05/31/09	1.6	3.3	4.9	9.5					9.5	204	163
Max	3.7	6.6	10.3	19.0		19	N/A	N/A	15.0	390	563
Min	1.3	2.8	4.2								
Avg	1.9	3.9	5.8								
Sum	60	121	181			N/A	N/A	N/A			

City of Portland

Tryon Creek Treatment Plant

Tryon Creek Wastewater Treatment Plant, 195 SW. Foothills Rd., Lake Oswego, OR 97034
(503) 823-2320, FAX (503) 823-2322

DATE: 6/11/2009
TO: Pat McDougal, City of Lake Oswego
FAX (503) 635-0269
FROM: City of Portland
SUBJECT: Rainfall and Flow Data

DATE	Flow		Temperature		Rain
	Portland	Lake Oswego	Maximum	Minimum	
5/1/2009	1.87	3.51	80	53	0.58
5/2/2009	2.37	4.51	74	44	0.35
5/3/2009	2.33	4.42	73	44	0.10
5/4/2009	3.73	6.62	61	48	1.23
5/5/2009	3.19	6.10	66	49	0.40
5/6/2009	3.16	6.22	69	44	0.40
5/7/2009	2.79	5.68	69	41	0.20
5/8/2009	2.30	4.81	68	39	0.00
5/9/2009	2.20	4.40	78	42	0.00
5/10/2009	2.19	4.23	71	52	0.00
5/11/2009	1.90	3.82	73	44	0.05
5/12/2009	1.74	3.51	63	39	0.05
5/13/2009	2.18	4.07	63	50	0.50
5/14/2009	1.88	3.84	71	51	0.00
5/15/2009	1.64	3.37	79	44	0.00
5/16/2009	1.66	3.38	91	49	0.00
5/17/2009	1.82	3.51	91	48	0.00
5/18/2009	2.10	3.58	85	49	0.35
5/19/2009	1.73	3.50	68	40	0.10
5/20/2009	1.58	3.29	71	46	0.00
5/21/2009	1.55	3.19	76	46	0.00
5/22/2009	1.41	2.96	80	46	0.00
5/23/2009	1.44	2.93	81	44	0.00
5/24/2009	1.40	2.82	83	43	0.00
5/25/2009	1.61	3.25	82	48	0.00
5/26/2009	1.46	2.90	84	51	0.00
5/27/2009	1.43	3.19	83	50	0.00
5/28/2009	1.39	2.94	93	55	0.00
5/29/2009	1.32	3.89	93	53	0.00
5/30/2009	1.36	2.92	95	55	0.00
5/31/2009	1.58	3.31	95	71	0.00
Max	3.73	6.62	95	71	1.23
Min	1.32	2.82	61	39	0.00
Avg	1.95	3.89	78	48	0.14
SUM	60.31	120.65			4.31