



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

November 10, 2009

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

Dear Mr. Christensen:

I am enclosing the October 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

NOV 13 2009

STATE OF OREGON DISCHARGE MONITORING REPORT

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

PLANT TYPE
TREATMENT SYSTEM
COLLECTION SYSTEM

ACTIVATED SLUDGE
CLASS IV
CLASS IV

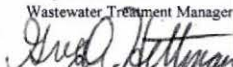
MAJOR BASIN
RECEIVING STREAM
COUNTY

WILLAMETTE
WILLAMETTE
CLACKAMAS

POPULATION EQUIVALENT
PERMIT NUMBER
FILE NUMBER
EXPIRATION

50,134
101614
70735
9/30/2009

DATE	FLOW			PLANT INFLUENT			PLANT EFFLUENT																	
Oct-09	INF	INF	EFF	pH	BOD	TSS	pH	BOD	BOD	BOD	BOD	BOD	TSS	TSS	TSS	TSS	TSS	EFF	CL2	E COLI /	Total	TKN	NH3	NO3+
	mgd	PEAK	mgd																					
1	3.88	10.00	3.86	7.0	314	350	7.2	8		97	258		4		99	129		19	0.5	3				
2	3.38	7.50	3.36	6.9			7.1											19	0.5					
3	3.86	10.10	3.86						7			235		4			123	19	0.4					
4	4.46	10.00	4.46		361	400		7		98	261		<2		100	74		19	0.5					
5	4.12	10.50	4.10	7.0			7.1											18	0.5	2				
6	3.83	9.50	3.80	7.1	EST 378	266	7.0	6			190		2		99	63		18	0.5		0.72	28.30	26.90	1.55
7	3.78	9.50	3.75	7.0			7.1											18	0.7	1				
8	3.54	7.80	3.52	7.0	330	320	7.0	8		98	235		<2		99	59		18	0.5	<1				
9	3.46	8.60	3.44	7.1			7.2											18	0.4					
10	3.63	10.50	3.63						7			229		2			66	18	0.5					
11	4.14	9.50	4.14		342	343		7		98	242		2		99	69		18	0.5					
12	3.88	10.00	3.86	7.0			7.1											17	0.4	84				
13	3.86	9.50	3.84	7.0	324	383	7.0	7		98	224		3		99	96		18	0.5		1.53	28.70	27.50	0.83
14	3.97	8.50	3.95	7.1			7.1											17	0.4	1				
15	3.71	8.50	3.69	6.7	306	411	7.1	5		98	154		3		99	92		17	0.5	1				
16	3.44	8.20	3.42	7.0			7.1											18	0.4					
17	4.38	11.70	4.38						6			207		3			86	18	0.4					
18	4.40	10.00	4.40		EST 369	440		13			477		<2		100	73		18	0.4					
19	3.94	9.00	3.92	7.1			7.2											18	0.5	13				
20	3.89	9.50	3.86	7.1	353	314	7.1	11		97	354		4		99	129		18	0.3		2.01	29.10	27.20	1.07
21	4.22	9.50	4.19	7.1			7.2											18	0.4	43				
22	3.93	11.50	3.91	6.8	244	266	7.0	13		95	424		<2		99	65		18	0.3	<1				
23	4.50	11.10	4.48	7.0			7.2											18	0.5					
24	4.07	10.20	4.07						12			419		3			89	18	0.5					
25	4.47	11.10	4.47		225	177		9		96	335		2		99	74		17	0.5					
26	5.61	13.00	5.59	7.2			7.3											17	0.5	2				
27	4.47	9.50	4.44	7.0	247	230	7.0	7		97	259		2		99	74		17	0.5		1.14	25.00	22.70	0.58
28	4.62	12.00	4.59	6.9			7.1											17	0.4	2				
29	5.22	10.70	5.21	7.1	188	216	7.2	6		97	261		2		99	87		17	0.5	1				
30	4.54	8.60	4.52	6.8			7.1											17	0.7					
	4.66	11.90	4.66						7			285		2			79	17	0.4					
Max	5.61	13.00	5.59	7.2	361	440	7.3	13	12	98	477	419	4	4	100	129	123	19	0.7	84				
Min	3.38		3.36	6.7	188	177	7.0	5		95	154		<2		99	59		17	0.3	<1				
Avg	4.12		4.11		294	317		8		97	283		2		99	84		18	0.47	5				
Sum	127.86		127.40																					

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	* The BOD Influent samples for the 6th and 18th were not used in the calculations and were reported as estimates because the duplicate precision were outside their control limits.	
	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 CLASS TITLE SIGNATURE	Greg Hettman Oregon T/IV #4600 Wastewater Treatment Manager 

Page 1									
Date	Plant Effluent Nutrients				Flow		Weather		
Oct-09	Total P	NH3-N	NO3+ NO2-N	TKN	Portland	Lake Oswego	Temperature		Precip
	mg/l	mg/l	mg/l	mg/l	mgd	mgd	Max o F	Min o F	"
10/01/09					1.22	2.67	70	50	0.20
10/02/09					1.03	2.35	63	39	0.00
10/03/09					1.23	2.63	61	44	0.20
10/04/09					1.55	2.91	68	39	0.01
10/05/09					1.47	2.65	68	38	0.00
10/06/09	0.72	26.90	1.55	28.30	1.24	2.59	71	38	0.00
10/07/09					1.16	2.61	69	42	0.00
10/08/09					1.11	2.43	74	43	0.00
10/09/09					1.05	2.42	68	43	0.00
10/10/09					1.10	2.53	64	44	0.00
10/11/09					1.33	2.81	61	52	0.00
10/12/09					1.19	2.69	61	42	0.05
10/13/09	1.53	27.50	0.83	28.70	1.22	2.64	71	44	0.40
10/14/09					1.23	2.74	69	49	0.05
10/15/09					1.23	2.49	66	50	0.05
10/16/09					1.05	2.38	74	53	0.00
10/17/09					1.46	2.92	68	53	0.45
10/18/09					1.43	2.97	70	53	0.02
10/19/09					1.23	2.71	70	50	0.00
10/20/09	2.01	27.20	1.07	29.10	1.22	2.67	65	49	0.35
10/21/09					1.31	2.91	68	48	0.15
10/22/09					1.25	2.68	59	50	0.33
10/23/09					1.42	3.08	61	42	0.28
10/24/09					1.28	2.80	61	40	0.10
10/25/09					1.44	3.03	58	49	0.55
10/26/09					1.89	3.72	53	42	0.40
10/27/09	1.14	22.70	0.58	25.00	1.51	2.97	56	37	0.05
10/28/09					1.51	3.11	56	43	0.55
10/29/09					1.72	3.50	60	45	0.25
10/30/09					1.44	3.10	64	52	0.12
10/31/09					1.49	3.17	64	41	0.00
Max	2.01	27.50	1.55	29.10	1.89	3.72	74	53	0.55
Min	0.72	22.70	0.58	25.00	1.03	2.35	53	37	0.00
Avg					1.32	2.80	65	45	0.15
Sum					41.0	86.9			4.56

Page 2 Date Oct-09		PRIMARY TREATMENT														Det Time hrs	No. Basins On
		INFLUENT								EFFLUENT							
		Flow mgd	Peak Q mgd	Susp Sol.		BOD5		Pop	Temp oC	pH	Susp Sol.		BOD5				
				mg/l	lbs	mg/l	lbs	Equiv			mg/l	lbs	mg/l	lbs			
10/01/09	3.88	10.0	350	11332	314	10166	50830		7.0	66	2134	136	4396	2.9	2		
10/02/09	3.38	7.5							6.9					3.4	2		
10/03/09	3.86	10.1												2.9	2		
10/04/09	4.46	10.0	400	14889	361	13437	67185			110	4094	186	6923	2.5	2		
10/05/09	4.12	10.5							7.0					2.7	2		
10/06/09	3.83	9.5	266	8490	EST 378				7.1	130	4143	178	5672	3.0	2		
10/07/09	3.78	9.5							7.0					3.0	2		
10/08/09	3.54	7.8	320	9448	330	9743	48714		7.0	70	2063	179	5275	3.2	2		
10/09/09	3.46	8.6							7.1					3.3	2		
10/10/09	3.63	10.5												3.1	2		
10/11/09	4.14	9.5	343	11834	342	11800	58999			88	3036	181	6245	2.7	2		
10/12/09	3.88	10.0							7.0					2.9	2		
10/13/09	3.86	9.5	383	12342	324	10441	52206		7.0	91	2928	160	5148	2.9	2		
10/14/09	3.97	8.5							7.1					2.9	2		
10/15/09	3.71	8.5	411	12727	306	9476	47379		6.7	111	3432	180	5565	3.0	2		
10/16/09	3.44	8.2							7.0					3.3	2		
10/17/09	4.38	11.7												3.9	3		
10/18/09	4.40	10.0	440	16143	EST 369					94	3449	178	6530	3.9	3		
10/19/09	3.94	9.0							7.1					4.3	3		
10/20/09	3.89	9.5	314	10182	353	11446	57232		7.1	80	2590	161	5213	4.4	3		
10/21/09	4.22	9.5							7.1					4.0	3		
10/22/09	3.93	11.5	266	8725	244	8003	40017		6.8	73	2391	147	4814	4.3	3		
10/23/09	4.50	11.1							7.0					4.2	3		
10/24/09	4.07	10.2												3.8	3		
10/25/09	4.47	11.1	177	6593	225	8380	41902			67	2496	156	5810	3.8	3		
10/26/09	5.61	13.0							7.2					3.0	3		
10/27/09	4.47	9.5	230	8578	247	9212	46061		7.0	98	3645	161	5989	2.5	2		
10/28/09	4.62	12.0							6.9					2.4	2		
10/29/09	5.22	10.7	216	9409	188	8189	40946		7.1	84	3659	121	5271	2.2	2		
10/30/09	4.54	8.6							6.8					2.5	2		
10/31/09	4.66	11.9												2.4	2		
Max	5.61	13.00	440	16143	361	13437	67185		7.2	130.0	4142.5	186.0	6923.2	4.4	3		
Min	3.38		177	6593	188	8003	40017		6.7	66.0	2063.0	121.0	4396.3	2.2	2		
Avg	4.12		317	10822	294	10027	50134		7.0	89.4	3081.4	163.4	5603.9	3.2	2		
Sum	127.9																

[illegible]

[illegible]

Page 8	NPDES Peak Mass Limits										
Date	Total			Instantaneous		DML=9382 lbs			DML=4153 lbs		
Oct-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
10/01/09	1.2	2.7	3.9	10.0					10.0	258	129
10/02/09	1.0	2.3	3.4	7.5					7.5		
10/03/09	1.2	2.6	3.9	10.1					10.1		
10/04/09	1.6	2.9	4.5	10.0					10.0	261	74
10/05/09	1.5	2.7	4.1	10.5					10.5		
10/06/09	1.2	2.6	3.8	9.5					9.5	190	63
10/07/09	1.2	2.6	3.8	9.5					9.5		
10/08/09	1.1	2.4	3.5	7.8					7.8	235	59
10/09/09	1.0	2.4	3.5	8.6					8.6		
10/10/09	1.1	2.5	3.6	10.5					10.5		
10/11/09	1.3	2.8	4.1	9.5					9.5	242	69
10/12/09	1.2	2.7	3.9	10.0					10.0		
10/13/09	1.2	2.6	3.9	9.5					9.5	224	96
10/14/09	1.2	2.7	4.0	8.5					8.5		
10/15/09	1.2	2.5	3.7	8.5					8.5	154	92
10/16/09	1.1	2.4	3.4	8.2					8.2		
10/17/09	1.5	2.9	4.4	11.7					11.7		
10/18/09	1.4	3.0	4.4	10.0					10.0	477	73
10/19/09	1.2	2.7	3.9	9.0					9.0		
10/20/09	1.2	2.7	3.9	9.5					9.5	354	129
10/21/09	1.3	2.9	4.2	9.5					9.5		
10/22/09	1.3	2.7	3.9	11.5					11.5	424	65
10/23/09	1.4	3.1	4.5	11.1					11.1		
10/24/09	1.3	2.8	4.1	10.2					10.2		
10/25/09	1.4	3.0	4.5	11.1					11.1	335	74
10/26/09	1.9	3.7	5.6	13.0					13.0		
10/27/09	1.5	3.0	4.5	9.5					9.5	259	74
10/28/09	1.5	3.1	4.6	12.0					12.0		
10/29/09	1.7	3.5	5.2	10.7					10.7	261	87
10/30/09	1.4	3.1	4.5	8.6					8.6		
10/31/09	1.5	3.2	4.7	11.9					11.9		
Max	1.9	3.7	5.6	13.0		N/A	N/A	N/A	13.0	477	129
Min	1.0	2.3	3.4								
Avg	1.3	2.8	4.1								
Sum	41	87	128			N/A	N/A	N/A			

PRIMARY TREATMENT						MONTHLY REPORT SUMMARY					
Influent			Effluent			Rem %	Primary				
mg/l lbs/day			mg/l lbs/day				Feed Sludge				
S S	317	10822	SS	89	3081		Flow gal/day	Total Solids %	Volatile Content %		
BOD5	294	10027	BOD5	163	5604	44	12080	11.69	84.6		
Detent Time hrs			Population Equivalent		Flow mgd	Precip "	Detention Time days		Loading lbs VS / ft3 /day		
3.2			50134		4.12	4.56	30				
SECONDARY TREATMENT											
Influent			Effluent			Rem %					
mg/l lbs/day			mg/l lbs/day								
S S	317	10822	SS	2	84						
BOD5	294	10027	BOD5	8	283	99	Total Solids %	Volatile Content %		Vol Sol Reduct %	
F/M		SVI		SRT days	MLSS mg/l	97	2.60	65.8			
0.00		240		0.0	1401		Total Solids (TWS) %	Capture %		Filtrate Solids mg/l	
							5.67				
RAS Flow mgd		CL2 Res mg/l		CL2 Feed lbs/day		Sludge Hauled					
0.62		0.5		72		gal/day lbs /day lbs/mo					
WAS Flow mgd		Aerator Detention Time hrs		Aerator DO mg/l		Digst 4565 990					
.000		8.9		0.0		TWS 10010 4730					
						Total 14574 5720					



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

November 10, 2009

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

Dear Mr. Christensen:

I am enclosing the October 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

NOV 13 2009

STATE OF OREGON DISCHARGE MONITORING REPORT

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

PLANT TYPE
TREATMENT SYSTEM
COLLECTION SYSTEM

ACTIVATED SLUDGE
CLASS IV
CLASS IV

MAJOR BASIN
RECEIVING STREAM
COUNTY

WILLAMETTE
WILLAMETTE
CLACKAMAS

POPULATION EQUIVALENT
PERMIT NUMBER
FILE NUMBER
EXPIRATION

50,134
101614
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DATE	FLOW			PLANT INFLUENT			PLANT EFFLUENT																	
Oct-09	INF	INF	EFF	pH	BOD mg/l	TSS mg/l	pH	BOD mg/l	BOD Wkly Avg mg/l	BOD Rem %	BOD Dis lbs	BOD Wkly Avg Dis lbs	TSS mg/l	TSS Wkly Avg mg/l	TSS Rem %	TSS Dis lbs	TSS Wkly Avg Dis lbs	EFF TEMP 0 °C	CL2 Res mg/l	E. COLI / 100ml	Total P mg/l	TKN mg/l	NH3 N mg/l	NO3+ NO2-N mg/l
	mgd	PEAK mgd	mgd																					
1	3.88	10.00	3.86	7.0	314	350	7.2	8		97	258		4		99	129		19	0.5	3				
2	3.38	7.50	3.36	6.9			7.1											19	0.5					
3	3.86	10.10	3.86						7			235		4			123	19	0.4					
4	4.46	10.00	4.46		361	400		7		98	261		<2		100	74		19	0.5					
5	4.12	10.50	4.10	7.0			7.1											18	0.5	2				
6	3.83	9.50	3.80	7.1	EST 378	266	7.0	6			190		2		99	63		18	0.5		0.72	28.30	26.90	1.55
7	3.78	9.50	3.75	7.0			7.1											18	0.7	1				
8	3.54	7.80	3.52	7.0	330	320	7.0	8		98	235		<2		99	59		18	0.5	<1				
9	3.46	8.60	3.44	7.1			7.2											18	0.4					
10	3.63	10.50	3.63						7			229		2			66	18	0.5					
11	4.14	9.50	4.14		342	343		7		98	242		2		99	69		18	0.5					
12	3.88	10.00	3.86	7.0			7.1											17	0.4	84				
13	3.86	9.50	3.84	7.0	324	383	7.0	7		98	224		3		99	96		18	0.5		1.53	28.70	27.50	0.83
14	3.97	8.50	3.95	7.1			7.1											17	0.4	1				
15	3.71	8.50	3.69	6.7	306	411	7.1	5		98	154		3		99	92		17	0.5	1				
16	3.44	8.20	3.42	7.0			7.1											18	0.4					
17	4.38	11.70	4.38						6			207		3			86	18	0.4					
18	4.40	10.00	4.40		EST 369	440		13			477		<2		100	73		18	0.4					
19	3.94	9.00	3.92	7.1			7.2											18	0.5	13				
20	3.89	9.50	3.86	7.1	353	314	7.1	11		97	354		4		99	129		18	0.3		2.01	29.10	27.20	1.07
21	4.22	9.50	4.19	7.1			7.2											18	0.4	43				
22	3.93	11.50	3.91	6.8	244	266	7.0	13		95	424		<2		99	65		18	0.3	<1				
23	4.50	11.10	4.48	7.0			7.2											18	0.5					
24	4.07	10.20	4.07						12			419		3			89	18	0.5					
25	4.47	11.10	4.47		225	177		9		96	335		2		99	74		17	0.5					
26	5.61	13.00	5.59	7.2			7.3											17	0.5	2				
27	4.47	9.50	4.44	7.0	247	230	7.0	7		97	259		2		99	74		17	0.5		1.14	25.00	22.70	0.58
28	4.62	12.00	4.59	6.9			7.1											17	0.4	2				
29	5.22	10.70	5.21	7.1	188	216	7.2	6		97	261		2		99	87		17	0.5	1				
30	4.54	8.60	4.52	6.8			7.1											17	0.7					
	4.66	11.90	4.66						7			285		2			79	17	0.4					
Max	5.61	13.00	5.59	7.2	361	440	7.3	13	12	98	477	419	4	4	100	129	123	19	0.7	84				
Min	3.38		3.36	6.7	188	177	7.0	5		95	154		<2		99	59		17	0.3	<1				
Avg	4.12		4.11		294	317		8		97	283		2		99	84		18	0.47	5				
Sum	127.86		127.40																					

PLANT EFFLUENT PERMIT

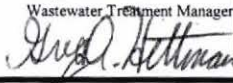
MONTHLY STANDARDS

	May 1 -> October 31	November 1 -> April 30	January 1 -> December 31
BOD	20 mg/l / 1400 lbs BOD	30 mg/l / 3100 lbs	CL2 max 0.7 mg/l
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	

REMARKS

Nutrients are sampled May 1 -> October 31
Digested and TWAS sludges are hauled to Columbia Blvd Treatment Plant.
* The BOD Influent samples for the 6th and 18th were not used in the calculations and were reported as estimates because the duplicate precision were outside their control limits.

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 Greg Hettman
CLASS Oregon T/IV #4600
TITLE Wastewater Treatment Manager
SIGNATURE 

Page 1									
Date Oct-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 mgd	Max o F	Min o F	"
10/01/09					1.22	2.67	70	50	0.20
10/02/09					1.03	2.35	63	39	0.00
10/03/09					1.23	2.63	61	44	0.20
10/04/09					1.55	2.91	68	39	0.01
10/05/09					1.47	2.65	68	38	0.00
10/06/09	0.72	26.90	1.55	28.30	1.24	2.59	71	38	0.00
10/07/09					1.16	2.61	69	42	0.00
10/08/09					1.11	2.43	74	43	0.00
10/09/09					1.05	2.42	68	43	0.00
10/10/09					1.10	2.53	64	44	0.00
10/11/09					1.33	2.81	61	52	0.00
10/12/09					1.19	2.69	61	42	0.05
10/13/09	1.53	27.50	0.83	28.70	1.22	2.64	71	44	0.40
10/14/09					1.23	2.74	69	49	0.05
10/15/09					1.23	2.49	66	50	0.05
10/16/09					1.05	2.38	74	53	0.00
10/17/09					1.46	2.92	68	53	0.45
10/18/09					1.43	2.97	70	53	0.02
10/19/09					1.23	2.71	70	50	0.00
10/20/09	2.01	27.20	1.07	29.10	1.22	2.67	65	49	0.35
10/21/09					1.31	2.91	68	48	0.15
10/22/09					1.25	2.68	59	50	0.33
10/23/09					1.42	3.08	61	42	0.28
10/24/09					1.28	2.80	61	40	0.10
10/25/09					1.44	3.03	58	49	0.55
10/26/09					1.89	3.72	53	42	0.40
10/27/09	1.14	22.70	0.58	25.00	1.51	2.97	56	37	0.05
10/28/09					1.51	3.11	56	43	0.55
10/29/09					1.72	3.50	60	45	0.25
10/30/09					1.44	3.10	64	52	0.12
10/31/09					1.49	3.17	64	41	0.00
Max	2.01	27.50	1.55	29.10	1.89	3.72	74	53	0.55
Min	0.72	22.70	0.58	25.00	1.03	2.35	53	37	0.00
Avg					1.32	2.80	65	45	0.15
Sum					41.0	86.9			4.56

[illegible]

Page 7		SLUDGE PROCESSING												
		Thickened Primary Sludge				WAS		Gravity Belt			TWAS			TPS + Twas
		Dig	Tot	Fixed	Vol	Flow mgd	Susp. Sols mg/l lbs	Capture %	Filtrate mg/l lbs	Poly lbs	Total Sols.		Gal Hauled	Sludge Disp Off Site MGD
Feed gal	Sol %	Content %	Content %	%	lbs									
Date	Oct-09													
10/01/09	12310										5.11	5114	12000	0.0180
10/02/09	11940												12000	0.0180
10/03/09	12160												0	0.0000
10/04/09	12130												0	0.0000
10/05/09	12030										6.34	9095	17200	0.0232
10/06/09	12080	9.56	14.40	85.6									18000	0.0242
10/07/09	12110										7.01	10523	18000	0.0242
10/08/09	12020										5.40	5404	12000	0.0182
10/09/09	12070												12000	0.0182
10/10/09	16610												0	0.0000
10/11/09	11000												0	0.0000
10/12/09	11240										5.13	5006	11700	0.0179
10/13/09	10700	12.10	17.80	82.2							4.79	7191	18000	0.0242
10/14/09	11110										5.50	5504	12000	0.0182
10/15/09	10810										6.05	6055	12000	0.0182
10/16/09	11780												12000	0.0182
10/17/09	11720												0	0.0000
10/18/09	12700												0	0.0000
10/19/09	12800												12000	0.0182
10/20/09	12730	13.00	15.30	84.7									18000	0.0240
10/21/09	12720												18000	0.0242
10/22/09	11970												12000	0.0183
10/23/09	11840												12000	0.0182
10/24/09	9240												0	0.0000
10/25/09	8260												0	0.0000
10/26/09	14750												11400	0.0176
10/27/09	12460	12.10	14.00	86.0									18000	0.0300
10/28/09	12720												18000	0.0242
10/29/09	12560												12000	0.0120
10/30/09	12860												12000	0.0244
10/31/09	13040												0	0.0000
Max	16610	13.00	17.80	86.00							7.01	10523	18000	0.030
Min	8260	9.56	14.00	82.20							4.79	5006	0	0.000
Avg	12080	11.69	15.38	84.63							5.67	6737	10010	0.015
Sum	374470												310300	0.452

Page 8		NPDES Peak Mass Limits									
Date	Total			Instantaneous		DML=9382 lbs			DML=4153 lbs		
Oct-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
10/01/09	1.2	2.7	3.9	10.0					10.0	258	129
10/02/09	1.0	2.3	3.4	7.5					7.5		
10/03/09	1.2	2.6	3.9	10.1					10.1		
10/04/09	1.6	2.9	4.5	10.0					10.0	261	74
10/05/09	1.5	2.7	4.1	10.5					10.5		
10/06/09	1.2	2.6	3.8	9.5					9.5	190	63
10/07/09	1.2	2.6	3.8	9.5					9.5		
10/08/09	1.1	2.4	3.5	7.8					7.8	235	59
10/09/09	1.0	2.4	3.5	8.6					8.6		
10/10/09	1.1	2.5	3.6	10.5					10.5		
10/11/09	1.3	2.8	4.1	9.5					9.5	242	69
10/12/09	1.2	2.7	3.9	10.0					10.0		
10/13/09	1.2	2.6	3.9	9.5					9.5	224	96
10/14/09	1.2	2.7	4.0	8.5					8.5		
10/15/09	1.2	2.5	3.7	8.5					8.5	154	92
10/16/09	1.1	2.4	3.4	8.2					8.2		
10/17/09	1.5	2.9	4.4	11.7					11.7		
10/18/09	1.4	3.0	4.4	10.0					10.0	477	73
10/19/09	1.2	2.7	3.9	9.0					9.0		
10/20/09	1.2	2.7	3.9	9.5					9.5	354	129
10/21/09	1.3	2.9	4.2	9.5					9.5		
10/22/09	1.3	2.7	3.9	11.5					11.5	424	65
10/23/09	1.4	3.1	4.5	11.1					11.1		
10/24/09	1.3	2.8	4.1	10.2					10.2		
10/25/09	1.4	3.0	4.5	11.1					11.1	335	74
10/26/09	1.9	3.7	5.6	13.0					13.0		
10/27/09	1.5	3.0	4.5	9.5					9.5	259	74
10/28/09	1.5	3.1	4.6	12.0					12.0		
10/29/09	1.7	3.5	5.2	10.7					10.7	261	87
10/30/09	1.4	3.1	4.5	8.6					8.6		
10/31/09	1.5	3.2	4.7	11.9					11.9		
Max	1.9	3.7	5.6	13.0		N/A	N/A	N/A	13.0	477	129
Min	1.0	2.3	3.4								
Avg	1.3	2.8	4.1								
Sum	41	87	128			N/A	N/A	N/A			

PRIMARY TREATMENT						MONTHLY REPORT SUMMARY					
Influent			Effluent			Rem %	Primary				
mg/l lbs/day			mg/l lbs/day				Feed Sludge				
S S	317	10822	SS	89	3081		Flow gal/day	Total Solids %	Volatile Content %		
BOD5	294	10027	BOD5	163	5604	44	12080	11.69	84.6		
Detent Time hrs			Population Equivalent		Flow mgd	Precip "	Detention Time days		Loading lbs VS / ft3 /day		
3.2			50134		4.12	4.56	30				
SECONDARY TREATMENT											
Influent			Effluent			Rem %					
mg/l lbs/day			mg/l lbs/day								
S S	317	10822	SS	2	84						
BOD5	294	10027	BOD5	8	283	99	Total Solids %	Volatile Content %		Vol Sol Reduct %	
F/M		SVI				97	2.60	65.8			
0.00 240			0.0 1401								
RAS Flow mgd			CL2 Res mg/l		CL2 Feed lbs/day	Total Solids (TWS) %		Capture %		Filtrate Solids mg/l	
0.62			0.5		72	5.67					
WAS Flow mgd			Aerator Detention Time hrs		Aerator DO mg/l	Sludge Hauled					
.000			8.9		0.0	gal/day lbs /day lbs/mo					
						Digst 4565 990					
						TWS 10010 4730					
						Total 14574 5720					