— CITY OF PORTLAND —
ENVIRONMENTAL SERVICES

Tryon Creek Wastewater Treatment Plant

195 SW Foothills Road, Bldg 310, Lake Oswego, Oregon 97034 ▪ Dan Saltzman, Commissioner ▪ Dean Marriott, Director

February 12, 2009

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

Dear Mr. Christensen:

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

Effluent E. coli value on the January 5th sample exceeded 406 organisms per 100 ml due to higher than normal rainfall events. In both cases, the five re-sample geometric mean values came in less than 126 organisms per 100 ml and therefore do not trigger a violation (Schedule A, Note 1 in NPDES Permit #101614). The initial and re-sample values are as follows:

1/5/09 initial: 610 resamples: 1, 1, 1, 4, 2 Geometric mean: 1.5

All other 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	PLANT TYPE	ACTIVATED SLUDGE	MAJOR BASIN	WILLAMETTE	POPULATION EQUIVALENT 48,902
195 FOOTHILLS ROAD	TREATMENT SYSTEM	CLASS IV	RECEIVING STREAM	WILLAMETTE	PERMIT NUMBER 101614
LAKE OSWEGO OR 97034-3163	COLLECTION SYSTEM	CLASS IV	COUNTY	CLACKAMAS	FILE NUMBER 70735
					EXPIRATION 9/30/2009

DATE	FLOW			PLANT INFLUENT			PLANT EFFLUENT																
Jan-09	INF	INF PEAK	EFF	pH	BOD	TSS	pH	BOD	BOD Wkly Avg	BOD Rem	BOD Dis	BOD Wkly Avg	TSS	TSS Wkly Avg	TSS Rem	TSS Dis	TSS Wkly Avg	EFF TEMP	CL2 Res	E.COLI /	Total P	TKN	NH3 N	NO3+ NO2-N
	mgd	mgd	mgd		mg/l	mg/l		mg/l	mg/l	%	lbs	Dis lbs	mg/l	mg/l	%	lbs	Dis lbs	0 'C	mg/l	100ml	mg/l	mg/l	mg/l	mg/l
1	27.53	33.30	27.51	6.6	60	88	6.7	EST 13					6		93	1376		12	0.4	310				
2	18.23	29.30	18.22	6.4			6.4											11	0.8					
3	11.82	17.00	11.82						8			763		7			960	12	0.7					
4	11.27	13.20	11.27		69	40		6		91	564		8		80	752		12	0.5					
5	10.15	13.00	10.13	6.9			6.9											12	0.4	610				
6	7.40	12.90	7.37	6.7	156	120	6.8	4		97	246		5		96	307		12	0.3					
7	13.52	15.50	13.50	6.9			6.9											12	0.9	2				
8	10.14	14.50	10.12	6.7	47	29	6.7	5		89	422		7		76	591		12	0.8	55				
9	8.42	12.40	8.40	6.7			6.6											12	0.5					
10	7.54	12.20	7.53						5			411		7			550	12	0.4					
11	7.70	10.30	7.69		190	234		4		98	256		4		98	256		12	0.4					
12	6.83	11.00	6.81	6.8			6.8											13	0.4	10				
13	6.53	11.00	6.51	6.8	212	258	6.6	5		98	271		3		99	163		13	0.5					
14	5.90	8.50	5.87	6.9			6.8											12	0.5	4				
15	5.67	11.50	5.65	6.8	214	272	6.8	5		98	236		4		99	189		12	0.5	1				
16	5.18	10.00	5.15	6.9			6.8											12	0.5					
17	5.22	11.30	5.22						5			255		4			203	11	0.5					
18	5.51	10.50	5.51		285	298		6		98	276		6		98	276		11	0.4					
19	5.36	9.50	5.34	7.1			7.0											11	0.6	13				
20	4.85	10.20	4.82	6.9	195	200	6.8	6		97	241		5		98	201		11	0.5					
21	4.87	11.00	4.85	7.1			6.9											11	0.5	1				
22	4.55	10.00	4.53	6.9	255	234	6.9	5		98	189		5		98	189		11	0.6	<1				
23	4.43	10.00	4.41	7.0			7.1											11	0.5					
24	4.69	12.20	4.68						6			235		5			222	11	0.5					
25	5.35	11.50	5.35		270	226		7		97	312		6		97	268		11	0.5					
26	4.65	11.50	4.64	7.0			7.0											11	0.5	<1				
27	5.05	10.00	5.03	7.0	203	218	6.9	11		95	461		13		94	545		12	0.4					
28	4.72	10.00	4.69	7.1			7.1											12	0.4	<1				
29	4.55	10.00	4.53	6.9	215	242	6.9	4		98	151		4		98	151		12	0.4	<1				
30	4.28	10.00	4.26	7.0			7.0											11	0.5					
31	4.59	9.00	4.59						7			308		8			321	11	0.4					
Max	27.53	33.30	27.51	7.1	285	298	7.1	11	8	98	564	763	13	8	99	1376	960	13	0.9	610				
Min	4.28		4.26	6.4	47	29	6.4	4		89	151		3		76	151		11	0.3	<1				
Avg	7.63		7.61		182	189		6		97	302		6		97	405		12	0.50	9				
Sum	236.49		236.00																					

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	

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 A. Hettman
CLASS Oregon T/IV #4600
TITLE O & M Supervisor
SIGNATURE Greg A. Hettman

REMARKS Nutrients are sampled May 1 -> October 31

Digested and TWAS sludges are hauled to Columbia Blvd Treatment Plant.

Effluent BOD for January 1st is a maximum because the seed could not be calculated.

* The Ecoli sample for January 5 exceeded the 406 organisms per 100 ml limitation. Five consecutive re-samples were taken on January 6th and 7th. The results were 1, 1, 1, 4, 2 with a geometric mean of 1.5 organisms per 100 ml.

PRIMARY TREATMENT

Influent	mg/l	lbs/ day	Effluent	mg/l	lbs/ day	Rem %
S S	189	10375	SS	116	6173	39
BOD5	182	9780	BOD5	127	6521	31

Detent Time hrs	Population Equivalent	Flow mgd	Precip "
3.6	48902	7.63	6.35

SECONDARY TREATMENT

Influent	mg/l	lbs/ day	Effluent	mg/l	lbs/ day	Rem %
S S	189	10375	SS	6	405	97
BOD5	182	9780	BOD5	6	302	97
F/M		SVI		SRT days		MLSS mg/l
0.00		163		0.0		1599

RAS Flow mgd	CL2 Res mg/l	CL2 Feed lbs/day
1.36	0.5	116

WAS Flow mgd	Aerator Detention Time hrs	Aerator DO mg/l
.000	5.7	0.0

MONTHLY REPORT SUMMARY

Primary Feed Sludge

Flow gal/ day	Total Solids %	Volatile Content %
13451	6.49	79.4

Detention Time days	Loading lbs VS / ft3 /day
27	

Total Solids %	Volatile Content %	Vol Sol Reduct %
2.91	65.9	

Total Solids (TWS) %	Capture %	Filtrate Solids mg/l
5.70		

Sludge Hauled

	gal/day	lbs /day	lbs/mo
Digst	4461	1081	
TWS	11371	5406	
Total	15832	6486	

Page 1									
	Plant Effluent Nutrients				Flow		Weather		
Date			NO3+		Portland	Lake	Temperature		Precip
Jan-09	Total P	NH3-N	NO2-N	TKN		Oswego	Max	Min	
	mg/l	mg/l	mg/l	mg/l	mgd	mgd	o F	o F	"
01/01/09					9.90	17.63	51	33	3.20
01/02/09					5.60	12.63	45	34	0.20
01/03/09					3.74	8.08	44	29	0.00
01/04/09					3.80	7.47	48	32	0.60
01/05/09					3.43	6.72	53	46	0.25
01/06/09					3.20	4.19	55	50	0.35
01/07/09					4.08	9.44	55	46	0.65
01/08/09					2.83	7.31	53	38	0.00
01/09/09					2.86	5.56	37	31	0.00
01/10/09					2.57	4.97	49	43	0.20
01/11/09					2.68	5.01	52	46	0.15
01/12/09					2.39	4.43	52	40	0.05
01/13/09					2.30	4.24	52	39	0.00
01/14/09					2.02	3.88	37	32	0.00
01/15/09					1.92	3.75	48	34	0.00
01/16/09					1.72	3.46	48	34	0.00
01/17/09					1.79	3.43	44	37	0.00
01/18/09					1.85	3.66			0.00
01/19/09					1.83	3.54	45	36	0.00
01/20/09					1.65	3.20	45	33	0.00
01/21/09					1.66	3.21	44	32	0.00
01/22/09					1.58	2.97	48	35	0.00
01/23/09					1.50	2.93	44	36	0.00
01/24/09					1.60	3.09	46	32	0.25
01/25/09					1.88	3.47	39	27	0.10
01/26/09					1.59	3.06	40	30	0.05
01/27/09					1.77	3.28	44	33	0.20
01/28/09					1.65	3.08	52	32	0.00
01/29/09					1.55	3.01	45	32	0.10
01/30/09					1.43	2.85	40	31	0.00
01/31/09					1.57	3.03	50	31	0.00
Max	0.00	0.00	0.00	0.00	9.90	17.63	55	50	3.20
Min	0.00	0.00	0.00	0.00	1.43	2.85	37	27	0.00
Avg					2.58	5.05	47	35	0.20
Sum					80.0	156.5			6.35

Page 2	PRIMARY TREATMENT															
	INFLUENT									EFFLUENT						
Date															Det	No.
Jan-09	Flow	Peak Q	Susp Sol.		BOD5		Pop	Temp	pH	Susp Sol.		BOD5			Time	Basins
	mgd	mgd	mg/l	lbs	mg/l	lbs	Equiv	oC		mg/l	lbs	mg/l	lbs		hrs	On
01/01/09	27.53	33.3	88	20206	60	13777	68885		6.6	50	11478	31	7116		1.0	5
01/02/09	18.23	29.3							6.4						1.2	4
01/03/09	11.82	17.0													1.9	4
01/04/09	11.27	13.2	40	3760	69	6486	32430			61	5734	70	6580		2.0	4
01/05/09	10.15	13.0							6.9						2.8	5
01/06/09	7.40	12.9	120	7402	156	9622	48112		6.7	52	3205	70	4314		3.1	4
01/07/09	13.52	15.5							6.9						2.1	5
01/08/09	10.14	14.5	29	2452	47	3974	19871		6.7	42	3549	50	4225		2.2	4
01/09/09	8.42	12.4							6.7						2.0	3
01/10/09	7.54	12.2													3.0	4
01/11/09	7.70	10.3	234	15021	190	12197	60983			80	5135	84	5392		2.9	4
01/12/09	6.83	11.0							6.8						3.3	4
01/13/09	6.53	11.0	258	14057	212	11551	57754		6.8	69	3756	96	5226		3.5	4
01/14/09	5.90	8.5							6.9						3.8	4
01/15/09	5.67	11.5	272	12869	214	10125	50625		6.8	70	3308	102	4821		4.0	4
01/16/09	5.18	10.0							6.9						4.4	4
01/17/09	5.22	11.3													4.3	4
01/18/09	5.51	10.5	298	13692	285	13094	65472			140	6432	177	8132		4.1	4
01/19/09	5.36	9.5							7.1						4.2	4
01/20/09	4.85	10.2	200	8088	195	7886	39430		6.9	140	5654	170	6866		4.7	4
01/21/09	4.87	11.0							7.1						4.6	4
01/22/09	4.55	10.0	234	8874	255	9670	48351		6.9	348	13179	275	10414		5.0	4
01/23/09	4.43	10.0							7.0						4.8	4
01/24/09	4.69	12.2													4.2	4
01/25/09	5.35	11.5	226	10086	270	12049	60247			85	3793	154	6873		4.2	4
01/26/09	4.65	11.5							7.0						4.9	4
01/27/09	5.05	10.0	218	9183	203	8551	42757		7.0	240	10097	206	8667		4.5	4
01/28/09	4.72	10.0							7.1						4.8	4
01/29/09	4.55	10.0	242	9187	215	8162	40811		6.9	130	4928	162	6142		5.0	4
01/30/09	4.28	10.0							7.0						5.3	4
01/31/09	4.59	9.0													4.9	4
Max	27.53	33.30	298	20206	285	13777	68885		7.1	348.0	13178.6	275.0	10414.1		5.3	5
Min	4.28		29	2452	47	3974	19871		6.4	42.0	3204.8	31.0	4225.3		1.0	3
Avg	7.63		189	10375	182	9780	48902		6.9	115.9	6173.1	126.7	6520.6		3.6	4
Sum	236.5															

Page 3	SECONDARY EFFLUENT											
Date		Susp Sol.		BOD5		FCSS		SBD	RSSS	Ovr-flow	pH	No.
Jan-09	Flow									Rate		Basins
	mgd	mg/l	lbs	mg/l	lbs	mg/l	lbs	ft	mg/l	gpd / ft2		On
01/01/09	27.51					804	12205	3.5		1824		2
01/02/09	18.22					1096	16637	1.9		1208		2
01/03/09	11.82					1068	16212	1.5		784		2
01/04/09	11.27					1304	19795	2.0		748		2
01/05/09	10.13					1607	24394	3.8		672		2
01/06/09	7.37					1460	22163	2.2		489		2
01/07/09	13.50					1118	16971	1.0		895		2
01/08/09	10.12					976	14816	1.4		671		2
01/09/09	8.40					822	12478	1.0		557		2
01/10/09	7.53					1453	22057	2.0		500		2
01/11/09	7.69					920	13966	1.5		510		2
01/12/09	6.81					1056	16030	1.9		452		2
01/13/09	6.51					1057	16045	1.0		432		2
01/14/09	5.87					1081	16410	1.3		390		2
01/15/09	5.65					960	14573	1.3		375		2
01/16/09	5.15					792	12023	1.0		342		2
01/17/09	5.22					933	14163	0.9		346		2
01/18/09	5.51					1148	17427	1.3		365		2
01/19/09	5.34					1403	21298	1.7		354		2
01/20/09	4.82					1126	17093	1.3		320		2
01/21/09	4.85					973	14770	1.3		321		2
01/22/09	4.53					922	13996	1.6		300		2
01/23/09	4.41					939	14254	1.0		292		2
01/24/09	4.68					819	12432	0.9		310		2
01/25/09	5.35					815	12372	1.0		355		2
01/26/09	4.64					1723	26155	2.4		308		2
01/27/09	5.03					1262	19157	1.7		333		2
01/28/09	4.69					998	15150	1.4		311		2
01/29/09	4.53					1077	16349	1.1		301		2
01/30/09	4.26					894	13571	1.1		283		2
01/31/09	4.59					864	13116	1.1		305		2
Max	27.51					1723	26155	3.8		1824		2
Min	4.26					792	12023	0.9		283		2
Avg	7.61					1080	16390	1.5		505		2
Sum	236.0											

Page 4											E. COLI					
	PLANT EFFLUENT											G Ave				
Date	FLOW	SUS SOL			BOD5			CL2			45		Temp	Ph	BYPASS	
Jan-09	mgd	mg/l	lbs	% Rem	mg/l	lbs	% Rem	Contact hrs	Feed lbs/day	Res mg/l	460		°C	SU	mgd	
01/01/09	27.51	6	1376	93	EST 13			0.6	380	0.41	310		12.1	6.7	11.86	
01/02/09	18.22							0.9	255	0.82			10.9	6.4	5.33	
01/03/09	11.82							1.4	174	0.68		186	11.5		0.27	
01/04/09	11.27	8	752	80	6	564	91	1.5	221	0.45			11.7		0.00	
01/05/09	10.13							1.7	160	0.42	610		11.7	6.9	0.00	
01/06/09	7.37	5	307	96	4	246	97	2.3	249	0.34			11.7	6.8	0.00	
01/07/09	13.50							1.2	246	0.85	2		12.1	6.9	0.00	
01/08/09	10.12	7	591	76	5	422	89	1.7	251	0.76	55		12.0	6.7	0.00	
01/09/09	8.40							2.0	162	0.52			11.9	6.6	0.00	
01/10/09	7.53							2.2	85	0.38		41	12.1		0.00	
01/11/09	7.69	4	256	98	4	256	98	2.2	74	0.35			12.1		0.00	
01/12/09	6.81							2.5	66	0.43	10		12.5	6.8	0.00	
01/13/09	6.51	3	163	99	5	271	98	2.6	78	0.50			12.6	6.6	0.00	
01/14/09	5.87							2.9	62	0.50	4		12.3	6.8	0.00	
01/15/09	5.65	4	189	99	5	236	98	3.0	72	0.52	1		12.1	6.8	0.00	
01/16/09	5.15							3.3	51	0.53			11.5	6.8	0.00	
01/17/09	5.22							3.2	55	0.47		3	11.3		0.00	
01/18/09	5.51	6	276	98	6	276	98	3.1	69	0.41			11.1		0.00	
01/19/09	5.34							3.1	56	0.60	13		11.3	7.0	0.00	
01/20/09	4.82	5	201	98	6	241	97	3.5	104	0.52			11.4	6.8	0.00	
01/21/09	4.85							3.5	55	0.52	1		11.4	6.9	0.00	
01/22/09	4.53	5	189	98	5	189	98	3.7	51	0.55	1		11.4	6.9	0.00	
01/23/09	4.41							3.8	71	0.47			11.3	7.1	0.00	
01/24/09	4.68							3.6	81	0.47		2	11.3		0.00	
01/25/09	5.35	6	268	97	7	312	97	3.1	69	0.49			11.4		0.00	
01/26/09	4.64							3.6	70	0.46	1		11.4	7.0	0.00	
01/27/09	5.03	13	545	94	11	461	95	3.3	61	0.40			11.6	6.9	0.00	
01/28/09	4.69							3.6	82	0.35	1		11.7	7.1	0.00	
01/29/09	4.53	4	151	98	4	151	98	3.7	62	0.42	1		11.7	6.9	0.00	
01/30/09	4.26							4.0	57	0.48			11.3	7.0	0.00	
01/31/09	4.59							3.7	65	0.43		1	11.3		0.00	
Max	27.51	13	1376	99	11	564	98	4.0	380	0.85	610	186	12.6	7.1	11.86	
Min	4.26	3	151	76	4	151	89	0.6	51	0.34	1	1	10.9	6.4	0.00	
Avg	7.61	6	405	97	6	302	97	2.7	116	0.50	9	47	11.7		0.56	
Sum	236.0														17.46	

Page 5	AERATORS										
Date	FLOW		MLSS		SVI	F/M	SRT	INVENTORY	DO	D. TIME	BASINS
Jan-09	Influ.	Return									
	MGD	MGD	mg/l	lbs			days	lbs	mg/l	hrs	#On
01/01/09	15.68	3.76	1444	17501	174	0.41		29706		2.2	2
01/02/09	12.90	3.29	1599	19380	152			36017		2.7	2
01/03/09	11.54	2.84	1596	19344	161			35556		3.0	2
01/04/09	10.93	2.65	1748	21186	175	0.31		40980		3.2	2
01/05/09	9.91	2.54	1759	21319	160			45713		3.5	2
01/06/09	9.14	2.00	1882	22810	157	0.19		44973		3.8	2
01/07/09	11.20	2.21	1407	17053	155			34024		3.1	2
01/08/09	11.09	2.23	1510	18301	146	0.23		33117		3.1	2
01/09/09	8.30	1.64	1559	18895	169			31373		4.2	2
01/10/09	7.15	1.43	1832	22204	151			44260		4.9	2
01/11/09	7.48	1.49	1778	21549	149	0.25		35515		4.7	2
01/12/09	6.74	1.32	1810	21937	150			37967		5.2	2
01/13/09	6.30	1.01	1625	19695	156	0.26		35740		5.5	2
01/14/09	5.75	0.93	1436	17404	171			33814		6.1	2
01/15/09	5.55	0.87	1545	18725	159	0.26		33298		6.3	2
01/16/09	5.11	1.07	1507	18265	152			30287		6.8	2
01/17/09	4.50	0.68	1693	20519	144			34682		7.7	2
01/18/09	5.17	0.71	1493	18095	178	0.45		35522		6.8	2
01/19/09	5.16	0.74	1541	18677	154			39974		6.8	2
01/20/09	4.96	0.77	1612	19537	152	0.35		36630		7.0	2
01/21/09	4.61	0.77	1575	19089	165			33859		7.6	2
01/22/09	4.57	0.74	1612	19537	149	0.53		33533		7.6	2
01/23/09	4.41	0.71	1506	18253	159			32507		7.9	2
01/24/09	9.42	0.74	1343	16277	194			28710		3.7	2
01/25/09	5.26	0.84	1659	20107	157	0.34		32479		6.6	2
01/26/09	4.69	0.64	1585	19210	213			45365		7.4	2
01/27/09	4.96	0.77	1538	18641	169	0.46		37798		7.0	2
01/28/09	4.63	0.75	1641	19889	168			35039		7.5	2
01/29/09	4.47	0.72	1600	19392	170	0.32		35741		7.8	2
01/30/09	4.26	0.69	1467	17780	174			31351		8.2	2
01/31/09	4.55	0.74	1655	20059	156			33174		7.7	2
Max	15.68	3.76	1882	22810	213			45713		8.2	2
Min	4.26	0.64	1343	16277	144			28710		2.2	2
Avg	7.11	1.36	1599	19375	163			35765		5.7	2
Sum	220.4										

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Date	Digester No. 1							Digester No. 2				Digested
Jan-09	Alk mg/l	Vol Acids mg/l	pH	Tmp oF	CO2 %	Heat Exch in oF	out oF	Tot Sol %	Vol Sol %	Vol Ctnt %	Tmp oF	Gal Haul
01/01/09				100.0		90.0	105.0	2.88	1.91	66	91.0	6300
01/02/09				100.0		93.0	105.0				91.0	6300
01/03/09				100.0		93.0	104.0				91.0	0
01/04/09				99.1		99.0	103.7				88.1	0
01/05/09	4500	55		99.2		99.2	103.7				87.8	6300
01/06/09				99.2		99.1	104.2				88.1	6300
01/07/09				99.2		99.2	104.3	2.93	1.92	66	87.9	0
01/08/09				99.2		99.2	99.2				88.5	6300
01/09/09				100.0		94.0	103.0				91.0	6300
01/10/09				100.0		93.0	103.0				92.0	6000
01/11/09				100.0		93.0	105.0				92.0	0
01/12/09	3810	62		99.4		99.4	104.4				89.9	6300
01/13/09				98.9		98.9	103.3				89.7	6300
01/14/09				99.1		99.1	103.9				89.8	6300
01/15/09				99.2		99.2	99.4				90.3	6300
01/16/09				100.0		93.0	104.0				93.0	6300
01/17/09				100.0		93.0	100.0				95.0	0
01/18/09				99.2		99.2	103.7				92.7	0
01/19/09	3660	75		99.1		99.2	103.5				92.5	6300
01/20/09				99.1		99.2	103.6				92.3	6300
01/21/09				99.8		98.6	103.3				91.6	6300
01/22/09				100.0		94.0	104.0				94.0	6300
01/23/09				100.0		94.0	104.0				94.0	6300
01/24/09				100.0		93.0	104.0				94.0	0
01/25/09				99.4		104.6	99.4				91.5	0
01/26/09				99.4		99.4	103.7				89.4	6300
01/27/09				99.5		99.5	104.0				89.8	6300
01/28/09	3920	52		99.2		99.2	103.8				89.7	6300
01/29/09				100.0		93.0	104.0				92.0	6300
01/30/09				100.0		93.0	104.0				92.0	6300
01/31/09				100.0		94.0	105.0				92.0	0
Max	4500	75		100	0	105	105	2.93	1.92	66	95	6300
Min	3660	52		99	0	90	99	2.88	1.91	66	88	0
Avg				99.6		97	103	2.91	1.92	65.9	91.1	4461
Sum												138300

Page 7	SLUDGE PROCESSING													
	Thickened Primary Sludge				WAS			Gravity Belt			TWAS			TPS + Twas
Date	Dig	Tot	Fixed	Vol										Sludge Disp
Jan-09	Feed	Sol	Content	Content	Flow	Susp. Sols		Capture	Filtrate	Poly	Total Sols.		Gal	Off Site
	gal	%	%	%	mgd	mg/l	lbs	%	mg/l	lbs	%	lbs	Hauled	MGD
01/01/09	11700										6.14	9217	18000	0.0243
01/02/09	15610												6000	0.0123
01/03/09	11850												0	0.0000
01/04/09	11850												0	0.0000
01/05/09	12550												12000	0.0183
01/06/09	13210	6.53	17.20	82.8							7.00	10508	18000	0.0243
01/07/09	13720												17600	0.0176
01/08/09	15540												17600	0.0239
01/09/09	15040												11800	0.0181
01/10/09	22040										5.64	2822	6000	0.0120
01/11/09	11720												11900	0.0119
01/12/09	11790												6000	0.0123
01/13/09	11400	6.81	17.60	82.4							5.55	8193	17700	0.0240
01/14/09	11630										5.74	8569	17900	0.0242
01/15/09	11610												12000	0.0183
01/16/09	11680												18000	0.0243
01/17/09	12760												0	0.0000
01/18/09	13330												0	0.0000
01/19/09	13190												12000	0.0183
01/20/09	12980												18000	0.0243
01/21/09	11830												18000	0.0243
01/22/09	13000												12000	0.0183
01/23/09	13250												18000	0.0243
01/24/09	13060												12000	0.0120
01/25/09	12960												0	0.0000
01/26/09	13320												6000	0.0123
01/27/09	13500	6.14	26.90	73.1									18000	0.0243
01/28/09	16440										4.99	9988	24000	0.0303
01/29/09	15370										5.26	5264	12000	0.0183
01/30/09	15340										5.28	5284	12000	0.0183
01/31/09	13700												0	0.0000
Max	22040	6.81	26.90	82.80							7.00	10508	24000	0.030
Min	11400	6.14	17.20	73.10							4.99	2822	0	0.000
Avg	13451	6.49	20.57	79.43							5.70	7481	11371	0.016
Sum	416970												352500	0.491

Page 8	NPDES Peak Mass Limits										
Date	Total			Instantaneous		DML=9382 lbs			DML=4153 lbs		
Jan-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
01/01/09	9.9	17.6	27.5	33.3		33.3		1376			
01/02/09	5.6	12.6	18.2	29.3		29.3					
01/03/09	3.7	8.1	11.8	17.0		17.0					
01/04/09	3.8	7.5	11.3	13.2					13.2	564	752
01/05/09	3.4	6.7	10.1	13.0					13.0		
01/06/09	3.2	4.2	7.4	12.9					12.9	246	307
01/07/09	4.1	9.4	13.5	15.5					15.5		
01/08/09	2.8	7.3	10.1	14.5					14.5	422	591
01/09/09	2.9	5.6	8.4	12.4					12.4		
01/10/09	2.6	5.0	7.5	12.2					12.2		
01/11/09	2.7	5.0	7.7	10.3					10.3	256	256
01/12/09	2.4	4.4	6.8	11.0					11.0		
01/13/09	2.3	4.2	6.5	11.0					11.0	271	163
01/14/09	2.0	3.9	5.9	8.5					8.5		
01/15/09	1.9	3.8	5.7	11.5					11.5	236	189
01/16/09	1.7	3.5	5.2	10.0					10.0		
01/17/09	1.8	3.4	5.2	11.3					11.3		
01/18/09	1.9	3.7	5.5	10.5					10.5	276	276
01/19/09	1.8	3.5	5.4	9.5					9.5		
01/20/09	1.7	3.2	4.8	10.2					10.2	241	201
01/21/09	1.7	3.2	4.9	11.0					11.0		
01/22/09	1.6	3.0	4.5	10.0					10.0	189	189
01/23/09	1.5	2.9	4.4	10.0					10.0		
01/24/09	1.6	3.1	4.7	12.2					12.2		
01/25/09	1.9	3.5	5.4	11.5					11.5	312	268
01/26/09	1.6	3.1	4.7	11.5					11.5		
01/27/09	1.8	3.3	5.1	10.0					10.0	461	545
01/28/09	1.6	3.1	4.7	10.0					10.0		
01/29/09	1.5	3.0	4.6	10.0					10.0	151	151
01/30/09	1.4	2.8	4.3	10.0					10.0		
01/31/09	1.6	3.0	4.6	9.0					9.0		
Max	9.9	17.6	27.5	33.3		33	N/A	1376	15.5	564	752
Min	1.4	2.8	4.3								
Avg	2.6	5.0	7.6								
Sum	80	157	236			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: 2/10/2009

TO: Pat McDougal, City of Lake Oswego

FAX (503) 635-0269

FROM: City of Portland

SUBJECT: Rainfall and Flow Data

DATE	Flow		Temperature		
	Portland	Lake Oswego	Maximum	Minimum	Rain
1/1/2009	9.90	17.63	51	33	3.20
1/2/2009	5.60	12.63	45	34	0.20
1/3/2009	3.74	8.08	44	29	0.00
1/4/2009	3.80	7.47	48	32	0.60
1/5/2009	3.43	6.72	53	46	0.25
1/6/2009	3.20	4.19	55	50	0.35
1/7/2009	4.08	9.44	55	46	0.65
1/8/2009	2.83	7.31	53	38	0.00
1/9/2009	2.86	5.56	37	31	0.00
1/10/2009	2.57	4.97	49	43	0.20
1/11/2009	2.68	5.01	52	46	0.15
1/12/2009	2.39	4.43	52	40	0.05
1/13/2009	2.30	4.24	52	39	0.00
1/14/2009	2.02	3.88	37	32	0.00
1/15/2009	1.92	3.75	48	34	0.00
1/16/2009	1.72	3.46	48	34	0.00
1/17/2009	1.79	3.43	44	37	0.00
1/18/2009	1.85	3.66			0.00
1/19/2009	1.83	3.54	45	36	0.00
1/20/2009	1.65	3.20	45	33	0.00
1/21/2009	1.66	3.21	44	32	0.00
1/22/2009	1.58	2.97	48	35	0.00
1/23/2009	1.50	2.93	44	36	0.00
1/24/2009	1.60	3.09	46	32	0.25
1/25/2009	1.88	3.47	39	27	0.10
1/26/2009	1.59	3.06	40	30	0.05
1/27/2009	1.77	3.28	44	33	0.20
1/28/2009	1.65	3.08	52	32	0.00
1/29/2009	1.55	3.01	45	32	0.10
1/30/2009	1.43	2.85	40	31	0.00
1/31/2009	1.57	3.03	50	31	0.00
Max	9.90	17.63	55	50	3.20
Min	1.43	2.85	37	27	0.00
Avg	2.58	5.05	47	35	0.20
SUM	79.95	156.54			6.35