

Permit: 60
 Facility Name: WAYLAND/SUDBURY WWTP
 TOWN: WAYLAND
 Basin: CONC

Monthly Maximum Data Report

Jan 01, 2009 through Dec 31, 2009

Contaminant

Sample Location	Permit Version	Permit Limit	Freq:	Jan 2009	Feb 2009	Mar 2009	Apr 2009	May 2009	Jun 2009	Jul 2009	Aug 2009	Sep 2009	Oct 2009
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Flow (gpd)	1	25,000	D	24,471	12,053	24,451	24,614	24,438	24,621	24,592	24,970		24,448
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pH (s.u.)	1	NR	D				7.1						
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Influent Point	1	RO	D	7.7	7.2	7.2		7.4	7.6	7.5	7.2		7.7
Effluent Point	1	RO	D	6.5	6.3	6.7	6.4	6.8	7.4	6.4	6.6		7.4
D-3(CG)	1	RO	M	6.3	6.1	6.2	6.1	6.3	6.6	6	6.4		7.4
MMW-1(CG)	1	RO	M	6.2	6.4	6.2	6.2	6.4	6.7	6.1	6.5		6.9
MMW-2(DG)	1	RO	M	6.5	6.2	6.7	6	6.2	6.5	6.1	6.5		6.5
MMW-3(DG)	1	RO	M	5.9	6	6.6	6.4	6.3	7.3	6	6.5		6.4
MMW-4(DG)	1	RO	M	6	6.1	6.3	6	6	6.3	6.2	6.3		6.8

BOD (mg/l)	1	RO	M	6,500	1,800	170	430	930	3,300	3,700	1,900		2,400
Effluent Point	1	10	M	32	ND	ND	31	24	18	ND	9.6		ND

TSS (mg/l)	1	RO	M	24,000	21,000	1,300	5,000	7,200	10,000	11,400	5,600		11,000
Effluent Point	1	20	M	24	9	29	18	30	4	4	3.3		2

Total Solids (mg/l)	1	RO	M	26,000	22,000	23,000	64,000	7,900	13,000	13,000	7,000		12,000
Effluent Point	1	RO	M	1,300	1,300	2,400	650	760	600	660	720		1,100

Settleable Solids (ml/l)	1	0.1	D										
Effluent Point	1												

Ammonia-N (mg/l)	1	RO	M	58	46	16	54	40	46	62	59.6		57.4
Influent Point	1												

Nitrate-N (mg/l)	1	RO	M	4.5	6.6	10	10	0.5	5.9	11	7.6		6.4
Effluent Point	1	10	Q		0.02			ND			ND		0.01
D-3(CG)	1	10	Q		5.6			1.5			4.6		10
MMW-1(CG)	1	RO	Q		0.4			ND			ND		0.018
MMW-2(DG)	1	10	Q		1.4			1.5			1.5		0.66
MMW-3(DG)	1	10	Q		1.7			1.2			2		1.9
MMW-4(DG)	1	10	Q		2.6			2.7			2.2		1.8

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Total Nitrogen(NO3+NO2+TKN) (mg/l)													
Effluent Point	1	RO	M	8.3	10.2	13	1.4	5.1	8.6	13	10		9.1
D-3(CG)	1	RO	Q		1.2			1.2			1.1		1
MW-1(CG)	1	RO	Q		6.7			2.5			5.9		11
MW-2(DG)	1	RO	Q		2.5			1.8			2.2		1.8
MW-3(DG)	1	RO	Q		2.6			2.9			3.2		4.5
MW-4(DG)	1	RO	Q		2.1			1.2			2		2.2
MW-5(DG)	1	RO	Q		3.1			2.7			2.2		2.3
Oil & Grease (mg/l)													
Effluent Point	1	15	M	1.5	1.1	3.2	2	4.1	4.8	4.3	4.8		ND
Chlorine Residual (mg/l)													
Effluent Point	1	1	D	0.97	0.92	0.97	0.6	0.94	0.98	0.98	0.88		0.97
UV Intensity (%)													
Effluent Point	1	NR	D		ND								
Fecal Coliform (/100 ml)													
Effluent Point	1	200	M	ND	6	1	21	27	ND	ND	4		ND
Chloride (mg/l)													
D-3(CG)	1	RO	Q		63			70			71		68
MW-1(CG)	1	RO	Q		160			740			210		240
MW-2(DG)	1	RO	Q		66			280			170		220
MW-3(DG)	1	RO	Q		24			190			320		180
MW-4(DG)	1	RO	Q		230			140			390		410
MW-5(DG)	1	RO	Q		120			160			150		260
Static Water Level (Feet)													
D-3(CG)	1	RO	M	6.1	6.5	6.3	6.2	6.4	6.7	6.3	6.3		7.2
MW-1(CG)	1	RO	M	36.1	36.6	36.2	36.2	36.4	36.6	36.2	36.3		37.1
MW-2(DG)	1	RO	M	45.9	46.4	46	46.9	46.2	46.4	45.9	46		46.9
MW-3(DG)	1	RO	M	27	27.4	27.1	27.1	27.3	27.6	27	27.1		28.1
MW-4(DG)	1	RO	M	11.4	11.9	11.6	11.6	11.8	12.1	11.5	11.6		12.5
MW-5(DG)	1	RO	M	13.7	14.1	13.9	15.8	14.1	14.4	13.8	13.9		14.8

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Specific Conductance (umhos/c)

D-3(CG)	1	RO	M	347	538	600	651	635	641	598	536		567
MMW-1(CG)	1	RO	M	512	898	1,014	2,041	2,330	1,530	1,243	882		1,003
MMW-2(DG)	1	RO	M	462	757	694	925	524	1,200	964	840		916
MMW-3(DG)	1	RO	M	231	299	356	628	319	466	1,345	1,044		815
MMW-4(DG)	1	RO	M	422	912	829	923	268	670	1,275	1,269		1,177
MMW-5(DG)	1	RO	M	513	740	1,305	888	312	858	970	878		1,014

Lead (mg/l)

D-3(CG)	1	0.05	Q		ND			ND			ND		ND
MMW-1(CG)	1	0.05	Q		ND			ND			ND		ND
MMW-2(DG)	1	RO	Q		ND			ND			ND		ND
MMW-3(DG)	1	0.05	Q		ND			ND			ND		ND
MMW-4(DG)	1	0.05	Q		ND			ND			ND		ND
MMW-5(DG)	1	0.05	Q		ND			ND			ND		ND

Manganese (mg/l)

D-3(CG)	1	0.05	Q	6.59		7.36		7.38	7.7				
MMW-1(CG)	1	0.05	Q	0.185		0.11		0.288	0.08				
MMW-2(DG)	1	RO	Q	1.02		2.06		1.43	1.69				
MMW-3(DG)	1	0.05	Q	5.69		5.9		7.99	12.2				
MMW-4(DG)	1	0.05	Q	0.13		0.11		3.07	0.539				
MMW-5(DG)	1	0.05	Q	0.378		0.37		0.107	0.09				

Mercury (mg/l)

D-3(CG)	1	0.002	Q		ND			ND			ND		ND
MMW-1(CG)	1	0.002	Q		ND			ND			ND		ND
MMW-2(DG)	1	RO	Q		ND			ND			ND		ND
MMW-3(DG)	1	0.002	Q		ND			ND			ND		ND
MMW-4(DG)	1	0.002	Q		ND			ND			ND		ND
MMW-5(DG)	1	0.002	Q		ND			ND			ND		ND

Total VOC (ug/l)

D-3(CG)	1	RO	A								ND		ND
MMW-1(CG)	1	RO	A								2		
MMW-2(DG)	1	RO	A								ND		ND
MMW-3(DG)	1	RO	A								ND		ND
MMW-4(DG)	1	RO	A								ND		ND
MMW-5(DG)	1	RO	A								ND		ND

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Chloroform (ug/l)
MW-1(CG)

2

A

Jan 2009 Feb 2009 Mar 2009 Apr 2009 May 2009 Jun 2009 Jul 2009 Aug 2009 Sep 2009 Oct 2009

Report Parameters

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Flow (gpd)															
Effluent Point	1	25,000	D	24,714	24,676	25,006	24,853	24,801	24,752	24,754	25,015	24,828	24,676	24,659	24,864
pH (s.u.)															
Effluent Point	1	RO	D	8	7.6	7.3	7.2	7.7	7.5	7.4	7.4	7.9	7.6	7.6	7.7
D-3(CG)	1	RO	M	8.1	7.5	6.8	7.1	6.6		6.2	6.3	7.1	7	6.6	7.4
MMW-1(CG)	1	RO	M	6.3	6.5	6.3	6.4	6.3		6.4	6.2	6.8	6.5	6.3	6.3
MMW-2(DG)	1	RO	M	8.4	6.7	6.5	6.4	6.4		6.3	6.5	7.2	6.5	6.7	6.6
MMW-3(DG)	1	RO	M	6.5	26.5	6.2	6.7	6.1		6	5.8	6.8	6.9	6.1	6.5
MMW-4(DG)	1	RO	M	6.2	6	5.8	6.5	5.8		6.5	6.5	6.3	7.1	6.1	5.9
MMW-5(DG)	1	RO	M	8.8	6.5	6.4	6.9	6.2		6	6.3	6.7	6.6	6.2	6.1
BOD (mg/l)															
Influent Point	1	RO	M	5,200	240	2,600	3,200	4,400		4,600	1,400	810	600	1,800	3,900
Effluent Point	1	10	M	24	ND	15	ND	9		7.9	8.4	7.6	26	23	28
TSS (mg/l)															
Influent Point	1	RO	M	24,000	280	9,500	5,900	13,000		13,000	4,700	4,700	4,200	8,300	15,000
Effluent Point	1	20	M	5.6	85	11	12	9.7		5.3	9.5	8	6.5	14	20
Total Solids (mg/l)															
Influent Point	1	RO	M	29,000	3,400	12,000	7,700	14,000		13,000	5,900	4,900	4,400	9,400	17,000
Effluent Point	1	RO	M	2,100	16,000	1,200	840	860		780	650	610	620	660	540
Settleable Solids (ml/l)															
Effluent Point	1	0.1	D												
Ammonia-N (mg/l)															
Influent Point	1	RO	M	62	27	56	61	67		74	50	44	51	52	57
Nitrate-N (mg/l)															
Effluent Point	1	RO	M	10.9	6.5	9.8	24	9.5		5	3.9	4.8	6.5	11	8.5
D-3(CG)	1	10	Q			ND		0.54						ND	
MMW-1(CG)	1	10	Q			11		13						7.4	
MMW-2(DG)	1	RO	Q			ND		ND						ND	
MMW-3(DG)	1	10	Q			1.6		16						0.99	
MMW-4(DG)	1	10	Q			2.4		1.5						2.2	
MMW-5(DG)	1	10	Q			5.2		4.4						4.1	

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Total Nitrogen(NO3+NO2+TKN) (mg/l)															
Effluent Point	1	RO	M	13.4	9.6	28.5	14.3	13.9		7.6	7	7.5	8.8	14	12.8
D-3(CG)	1	RO	Q			1.1		1.5						ND	
MW-1(CG)	1	RO	Q			12		14						7.4	
MW-2(DG)	1	RO	Q			3.2		14						ND	
MW-3(DG)	1	RO	Q			4.4		2.8						0.99	
MW-4(DG)	1	RO	Q			2.8		1.5						2.2	
MW-5(DG)	1	RO	Q			5.8		4.4						4.1	
Oil & Grease (mg/l)															
Effluent Point	1	15	M	1.1	5.8	1.5	2	7		2.4	5.4	3.4	1.8	2.4	2.8
Chlorine Residual (mg/l)															
Effluent Point	1	1	D	0.98	0.98	0.98	0.91	0.92	0.91	0.98	0.99	0.97	0.94	0.99	0.98
UV Intensity (%)															
Effluent Point	1	NR	D	ND											
Fecal Coliform (/100 ml)															
Effluent Point	1	200	M	180	ND	ND	141	ND	ND	ND	ND	6	27	130	16
Chloride (mg/l)															
D-3(CG)	1	RO	Q			63		66						66	
MW-1(CG)	1	RO	Q			390		460						160	
MW-2(DG)	1	RO	Q			190		630						110	
MW-3(DG)	1	RO	Q			97		260						110	
MW-4(DG)	1	RO	Q			240		230						220	
MW-5(DG)	1	RO	Q			260		260						230	
Static Water Level (Feet)															
D-3(CG)	1	RO	M	7.7	6	5.7	6.2	6.2	6.2	7.5	6.6	6.7	6.8	6.9	6.7
MW-1(CG)	1	RO	M	37.8	35.9	35.4	36.2	36.2	36.2	36.9	36.3	36.6	36.7	36.8	36.7
MW-2(DG)	1	RO	M	47.7	45.8	45.5	46.2	46	46	46.8	46.1	36.3	46.5	46.6	46.5
MW-3(DG)	1	RO	M	28.7	26.4	26.8	27.1	27.1	27.1	27.9	27.3	27.5	26.8	27.8	27.5
MW-4(DG)	1	RO	M	12.9	11.2	11	11.6	11.6	11.6	12.3	11.7	11.9	12.1	12.2	12
MW-5(DG)	1	RO	M	15.3	13.2	13.1	13.8	13.8	13.8	14.7	14	14.2	14.5	14.5	14.3

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Specific Conductance (umhos/c)																
D-3(CG)	1	RO	M		309	276	353	300	509		364	330	335	370	423	325
MMW-1(CG)	1	RO	M		364	359	561	546	1,477		633	498	714	600	532	706
MMW-2(DG)	1	RO	M		440	327	486	471	1,651		658	412	756	640	523	460
MMW-3(DG)	1	RO	M		330	256	376	356	756		494	432	530	370	366	283
MMW-4(DG)	1	RO	M		397	366	595	446	739		422	349	640	555	426	349
MMW-5(DG)	1	RO	M		415	383	510	457	892		502	372	770	660	183	482
Lead (mg/l)																
D-3(CG)	1	0.05	Q				ND		ND						ND	
MMW-1(CG)	1	0.05	Q				ND		ND						ND	
MMW-2(DG)	1	RO	Q				ND		ND						0.042	
MMW-3(DG)	1	0.05	Q				ND		ND						ND	
MMW-4(DG)	1	0.05	Q				ND		ND						ND	
MMW-5(DG)	1	0.05	Q				ND		ND						ND	
Manganese (mg/l)																
D-3(CG)	1	0.05	Q				ND		7.98						6.68	
MMW-1(CG)	1	0.05	Q				ND		0.182						0.14	
MMW-2(DG)	1	RO	Q				ND		4.28						1.19	
MMW-3(DG)	1	0.05	Q				ND		4.13						10.6	
MMW-4(DG)	1	0.05	Q				ND		0.172						0.19	
MMW-5(DG)	1	0.05	Q				ND		0.54						0.811	
Mercury (mg/l)																
D-3(CG)	1	0.002	Q				7.61		ND						ND	
MMW-1(CG)	1	0.002	Q				0.234		ND						ND	
MMW-2(DG)	1	RO	Q				2.91		ND						ND	
MMW-3(DG)	1	0.002	Q				8.65		ND						ND	
MMW-4(DG)	1	0.002	Q				0.18		ND						ND	
MMW-5(DG)	1	0.002	Q				2.82		ND						ND	
Total VOC (ug/l)																
Effluent Point	1	RO	A												46	
D-3(CG)	1	RO	A				ND									
MMW-1(CG)	1	RO	A				ND									
MMW-2(DG)	1	RO	A				ND									
MMW-3(DG)	1	RO	A				1									
MMW-4(DG)	1	RO	A				ND									
MMW-5(DG)	1	RO	A				ND									

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Toluene (ug/l)															
Effluent Point	1	RO	A												1
Chloroform (ug/l)															
Effluent Point	1	RO	A												37
4-Methyl-2-pentanone (MIBK) (ug/l)															
MW-3(DG)	1	RO	A			1									
Bromodichloromethane (ug/l)															
Effluent Point	1	RO	A												8

Report Parameters

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