

**2012 ENVIRONMENT SUMMARY**

**Table 1. Effluent Discharges**

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	2011	Target	Permit
<b>Flow</b>	(ML/d)	74.7	75.8	75.1	72.6	71.2	71.5	58.1	75.3	68.9	68.7	73.1	74.4	71.6	72.5		106.5
<b>BOD</b>	(kg/d)	556	286	212	488	568	664	475	514	988	986	1,666	1,962	780	548		
	(kg/t)	0.3	0.1	0.1	0.2	0.3	0.3	0.2	0.3	0.5	0.5	0.8	1.0	0.4	0.3	<1.0	3.95
<b>TSS</b>	(kg/d)	2,781	2,243	3,436	2,692	3,006	3,212	1,710	2,694	5,932	3,285	5,630	5,332	3,496	2,920		
	(kg/t)	1.4	1.2	1.8	1.3	1.5	1.6	0.8	1.3	3.2	1.6	2.8	2.6	1.8	1.5	<2.0	6.1
<b>AOX</b>	(kg/d)	334	328	293	347	396	257	142	223	353	420	297	312	308	286		
	(kg/t)	0.3	0.3	0.2	0.3	0.3	0.2	0.1	0.2	0.3	0.3	0.2	0.2	0.2	0.2	<0.40	0.48
<b>COD</b>	(kg/d)	--	--	--	--	54,329	51,817	48,347	45,739	55,598	48,378	59,225	45,943	51,172	54,956		
	(kg/t)	--	--	--	--	28.1	26.8	25.1	23.7	28.8	25.1	30.7	23.8	26.5	28.1		
<b>Effluent Trout</b>	No.	4	1	1	2	1	1	4	1	1	1	1	1	19	16		
	Pass	3	1	1	2	1	1	3	1	1	1	1	1	17	15	100%	100%
<b>Effluent Daphnia</b>	No.	5	5	4	7	5	4	5	4	4	5	4	4	56	52		
	Pass	4	5	4	4	5	4	5	4	3	5	4	4	51	49	100%	100%
<b>CWS Trout</b>	No.	1	1	1	1	1	1	1	1	1	1	1	1	12	12		
	Pass	1	1	1	1	1	1	1	1	1	1	1	1	12	12	100%	100%
<b>CWS Daphnia</b>	No.	1	1	1	1	1	1	1	1	1	1	1	1	12	12		
	Pass	1	1	1	1	1	1	1	1	1	1	1	1	12	12	100%	100%

TSS, BOD, AOX and Flow are averages; Toxicities are totals

**Table 2. Landfill Volumes (average cubic metres)**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	2011	%
<b>Ash</b>	2,190	2,601	2,486	3,505	3,869	3,707	2,907	4,257	3,155	3,305	3,684	3,146	3,234	2,555	3.2
<b>Lime Mud/ Dregs/ Grits</b>	1,476	1,734	1,703	3,850	1,146	1,290	1,455	712	609	1,455	1,197	846	1,456	1,690	2.1
<b>Brown Fibre Rejects</b>	3,055	3,643	1,693	1,589	1,404	1,321	784	1,208	1,270	1,094	1,321	1,600	1,665	760	0.9
<b>Effluent Sludge</b>	722	10	1,755	21	31	155	2,178	495	0	1,197	237	41	570	2,016	2.5
<b>Other</b>	186	186	237	0	320	4,129	175	21	72	31	0	0	446	104	0.1
<b>Gravel</b>	165	0	0	0	0	0	0	0	0	0	0	31	16	162	

7388.7 7287.0

**Table 3. Landfill Volumes (total cubic metres)**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	Projected	2011
<b>TOTAL (excl. gravel)</b>	7,630	8,175	7,874	8,965	6,770	10,601	7,500	6,693	5,106	7,083	6,439	5,633	7,372	88,468	80,393

TARGET: <80,000 cubic metres/year PERMIT: <92,500 cubic metres/year

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**Table 4. Air Emissions**

			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	2011	Target	Permit
<b>Power Boiler</b>	<b>PM</b>	mg/m3	11			5				6			11		8	15	<100	115***
	<b>SO2</b>	mg/m3	45	143	148	108	135	116	61	77	83	126	169	140	113	127	<200	300
	<b>NOx*</b>	mg/m3	57	199	162	147	176	174	172	107	189	175	205	206	164	201		300
	<b>NOx**</b>	mg/m3	87	232	213	272	285	182	193	113	192	213	235	223	203	239		450
<b>Recovery Boiler</b>	<b>TRS</b>	mg/m3	0.73	0.823	0.8	0.9	0.9	0.9	0.8	0.7	0.6	1	0.5	1.1	0.8	0.6	<1.0	5.0
	<b>PM</b>	mg/m3	48.8			39.5				25.8			59.4		43.4	44.5	<50	150
<b>Kiln</b>	<b>PM</b>	mg/m3	12.3			8				7.8			17.3		11.4	26.8	<20	100
<b>Smelt Tk.</b>	<b>PM</b>	mg/m3	69			70				70			156		91	101	<125	200
<b>Misc.</b>	<b>TRS</b>	g/adut	0.0	0.0	0.0	5.9	0.0	0.3	22.5	16.2	19.4	6.4	13.4	1466.7	129.2	5.5	<75	110
<b>CNCG</b>	<b>vent</b>	min	40	0	7	29	0	132	270	57	19	0	19	17	590	1,073		
<b>DNCG</b>	<b>vent</b>	min	2,105	457	6,459	411	1,219	342	12,677	1,532	249	4,779	1,061	323	31,614	114,295		
<b>Langdale</b>	<b>TRS</b>	hrs>A	0	0	0	0	0	1	4	0	1	4	0	15	25	57		

\* excluding time when >60 t/h steam from gas

\*\*all time

\*\*\*12 month rolling average, single test not to be > 230

All data are averages, except NCG venting and hours >A Level, which are totals