

**2014 ENVIRONMENT SUMMARY**

**Table 1. Effluent Discharges**

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	2013	Target	Permit
<b>Flow</b>	(ML/d)	71.0	69.1	72.8	69.3	54.3	69.5	67.0	67.0	72.8	71.1	67.9	71.3	68.6	68.8		106.5
<b>BOD</b>	(kg/d)	1,529	1,503	1,785	1,489	842	1,294	1,074	720	920	950	881	1,120	1,176	1,515		
	(kg/t)	0.7	0.7	0.9	0.7	0.4	0.6	0.5	0.4	0.4	0.5	0.4	0.5	0.6	0.7	<1.0	3.95
<b>TSS</b>	(kg/d)	3,127	5,111	3,495	3,499	1,749	5,073	2,808	1,564	2,440	2,166	2,861	2,792	3,057	3,920		
	(kg/t)	1.5	2.5	1.7	1.7	0.9	2.5	1.4	0.8	1.2	1.1	1.4	1.4	1.5	1.9	<2.0	6.1
<b>AOX</b>	(kg/d)	458	438	406	348	106	349	554	285	364	284	271	350	351	311		
	(kg/t)	0.3	0.3	0.3	0.3	0.1	0.3	0.4	0.2	0.3	0.2	0.2	0.3	0.3	0.2	<0.40	0.48
<b>COD</b>	(kg/d)	37,154	41,655	36,144	32,312	15,408	44,082	37,747	--	41,792	41,105	41,800	41,847	37,368	42,607		
	(kg/t)	18.1	20.3	17.6	15.7	7.5	21.5	18.4	--	20.4	20.0	20.4	20.4	18.2	21.1		
<b>Effluent Trout</b>	No.	2	1	2	1	1	1	1	1	1	1	1	1	14	28		
	Pass	2	1	2	1	1	1	1	1	1	1	1	1	14	26	100%	100%
<b>Effluent Daphnia</b>	No.	4	4	5	4	4	4	5	4	5	4	4	5	52	56		
	Pass	2	2	4	4	4	4	5	4	5	4	4	5	47	35	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	2013	%
<b>Ash</b>	3,473	2,590	3,962	3,153	2,032	3,280	2,909	4,263	3,983	3,834	4,093	2,813	3,365	2,411	57.4
<b>Lime Mud/ Dregs/ Grits</b>	372	733	1,156	1,166	1,342	877	568	1,858	1,218	258	403	712	889	949	15.2
<b>Brown Fibre Rejects</b>	764	650	1,022	702	330	661	836	661	1,011	692	609	619	713	981	12.2
<b>Effluent Sludge</b>	671	1,239	1,084	1,146	1,022	1,424	1,755	826	671	557	83	217	891	481	15.2
<b>Other</b>	0	0	41	0	0	21	0	0	0	0	0	0	5	46	0.1
<b>Gravel</b>	0	0	0	0	0	0	0	0	0	10	10	0	2	0	

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

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	Projected	2013
<b>TOTAL (excl. gravel)</b>	5,279	5,211	7,265	6,166	4,726	6,263	6,068	7,607	6,883	5,341	5,187	4,361	5,863	70,358	58,422

TARGET: <80,000 cubic metres/year PERMIT: <91,250 cubic metres/year

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**Table 4. Air Emissions**

			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	2013	Target	Permit
<b>Power Boiler</b>	<b>PM</b>	mg/m3		17				8			9		15		12	11	<100	115***
	<b>SO2</b>	mg/m3	137	115	169	150	30	136	185	191	175	133	154	177	146	138	<200	300
	<b>NOx*</b>	mg/m3	222	146	201	185	125	121	182	205	226	217	228	215	189	199		300
	<b>NOx**</b>	mg/m3	235	160	237	255	175	133	200	231	242	249	244	233	216	230		450
<b>Recovery Boiler</b>	<b>TRS</b>	mg/m3	0.9	1.4	0.9	0.8	0.9	2.4	1.8	1.8	2.4	2.3	0.9	1.7	1.5	1.4	<1.0	5.0
	<b>PM</b>	mg/m3		55				55			55		75		60.1	52.2	<50	150
<b>Kiln</b>	<b>PM</b>	mg/m3		27				9			35		74		36.1	21.9	<20	100
<b>Smelt Tk.</b>	<b>PM</b>	mg/m3		73				75			75		54		69	120	<125	200
<b>Misc.</b>	<b>TRS</b>	g/adut	0.3	0.3	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	4.3	<75	110
<b>CNCG</b>	<b>vent</b>	min	0	1	1	100	76	17	199	25	257	279	9	0	964	720		
<b>DNCG</b>	<b>vent</b>	min	507	7,060	1,722	2,222	4,118	3,958	#####	395	2,865	4,586	2,760	1,287	46,342	27,417		
<b>Langdale</b>	<b>TRS</b>	hrs>A	2	2	5	0	0	1	1	0	8	4	0	0	23	34		

\* 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