

## 2019 Annual Report

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The 2019 Annual Report was sent to the Ministry of Environment and Climate Change Strategy on March 27, 2020.









Trace Organics Tests:			Unit 2	
PCDD/PCDF	ng/dscm	0.08	0.0023	
Chlorophenols	ug/dscm	1	0.0086	
Chlorobenzenes	ug/dscm	1	0.5945	
PAH's	ug/dscm	5	0.0738	
PCB	ug/dscm	1	0.0114	
Manual Stack Tests:	Units	Annual Average		
		Unit 1	Unit 2	Unit 3
Particulate Matter	mg/dscm	1.79	0.51	2.35
HF	mg/dscm	0.03	0.03	0.01
Hg	ug/dscm	1.1	0.9	0.8
Cd	ug/dscm	0.1	0.1	1.0
Sum of Lead (Pb), Arsenic (As), Chromium (Cr)	ug/dscm	5.6	2.5	4.2

## 5. SHUTDOWN REPORT

Reason	Hours		
	Unit 1	Unit 2	Unit 3
Annual Scheduled Maintenance Outages	447	426	328
Unplanned Maintenance Outages	63	317	274
Waste Quality	1	3	3

## 6. FACILITY BYPASS AND EMERGENCY/SPILL EVENT REPORT

Date/Time	Duration	Cause	Action Taken

## 7. OVERVIEW OF PLANT PERFORMANCE AND OPERATIONAL INFORMATION

Summaries/interpretation of compliance and complaints information	<p>17 transient condition exceedances reported in section 2. No other compliance issues reported.</p> <p>A complaint was received on May 21, 2019 regarding a purple plume on May 17, 2019. The purple colour resolved quickly without intervention. A second complaint was received on July 4th regarding odours which started on June 24th, which the complainant felt were due to the Phillipines waste. Phillipines waste was not received onsite until June 30th. Waste was processed as quickly as possible, and no odours were detected at property line.</p>
Status of Operations and Maintenance of Various Equipment	Scheduled outages were completed on all three boilers. The turbogenerator ran with an annual availability of 99.71%. There were a total of 20 turbogenerator outages resulting in 25.75 hours offline.
Incidences of Emergencies and Response Measures Implemented	No incidents reported.

Evaluation of monitoring programs	All monitoring programs were completed as per the Operational Certificate. Manual stack testing was completed on February 11-15, 2019, May 6-9, 2019, August 12-15, 2019, August 19-21, 2019 (semi-volatile organics) and November 4-7, 2019																													
Bottom ash and fly ash disposal method	<p>Both bottom and fly ash are treated with a patented system used throughout the industry to inhibit metals leaching.</p> <p>Bottom ash was beneficially used at the Coquitlam Landfill until August 6, 2019, and at the Vancouver Landfill from August 7, 2019.</p> <p>Fly ash was disposed at the Columbia Ridge Landfill and Recycling Center located in Arlington, Oregon. Prior to hauling, each fly ash load is tested by an independent laboratory to confirm the material meets disposal criteria. Six loads did not meet the criteria for disposal and were reprocessed on site. The failed loads resulted from an inconsistent fly ash flow which impacted the fly ash to phosphoric acid mixing ratio. The remaining fly ash loads were released for disposal.</p>																													
Overview of Plant Performance	<table border="1"> <tr><td>Plant Availability</td><td>%</td><td><b>93.1%</b></td></tr> <tr><td>Waste Received</td><td>Tonnes</td><td><b>253,184</b></td></tr> <tr><td>Waste Processed</td><td>Tonnes</td><td><b>259,918</b></td></tr> <tr><td>Energy Generated</td><td>MWh</td><td><b>172,604</b></td></tr> <tr><td>Natural Gas Consumed</td><td>GJ</td><td><b>40,240</b></td></tr> <tr><td>Bottom Ash</td><td>Tonnes</td><td><b>42,242</b></td></tr> <tr><td>Fly Ash</td><td>Tonnes</td><td><b>9,888</b></td></tr> <tr><td>Ferrous Metal</td><td>Tonnes</td><td><b>5,599</b></td></tr> <tr><td>Non-Ferrous Metal</td><td>Tonnes</td><td><b>371</b></td></tr> </table>	Plant Availability	%	<b>93.1%</b>	Waste Received	Tonnes	<b>253,184</b>	Waste Processed	Tonnes	<b>259,918</b>	Energy Generated	MWh	<b>172,604</b>	Natural Gas Consumed	GJ	<b>40,240</b>	Bottom Ash	Tonnes	<b>42,242</b>	Fly Ash	Tonnes	<b>9,888</b>	Ferrous Metal	Tonnes	<b>5,599</b>	Non-Ferrous Metal	Tonnes	<b>371</b>		
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