Vales Point Power Station Monthly Environmental Data Summary

LICENCE NO	761	http://www.epa.nsw.gov.au/prpoeoapp/
LICENCE HOLDER	SUNSET POWER INTERNATIONAL PTY LTD	
REPORTING PERIOD	July 2020	
ADDRESS	VALES ROAD, MANNERING PARK NSW	



POINT 2	Combined air emissions from boiler 5 via Points 4 to	7 to Point 1 marked a	nd shown as EPA ID 2 on The Plans	("VX837351-1	AND "VX837351-	2" 03/06/2020 EP	A REFERENCE DO	C20/476695 AND D	OC20/476695-1).		
				Samples					99 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-20	Cadmium	(mg/m3)	Every 6 months							0.2		
Jul-20	Chlorine	(mg/m3)	Every 6 months							20		
Jul-20	Fluorine	(mg/m3)	Every 6 months							30		
Jul-20	Hydrogen chloride	(mg/m3)	Every 6 months							50		
Jul-20	Mercury	(mg/m3)	Every 6 months							0.05		
Jul-20	Nitrogen Oxides	(mg/m3)	Continuous	99.73%	Jul-20	480	673	810	1100	1500	No	
Jul-20	Solid Particles	(mg/m3)	Quarterly							50		
Jul-20	Sulfur dioxide	(mg/m3)	Continuous	99.73%	Jul-20	169	208	236	1400	1700	No	
Jul-20	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months				-			100		
Jul-20	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.75		

POINT 3	T3 Combined air emissions from boiler 6 via Points 8 to 11 to Point 1 marked and shown as EPA ID 3 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).											
				Samples					99 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-20	Cadmium	(mg/m3)	Every 6 months							0.2		
Jul-20	Chlorine	(mg/m3)	Every 6 months							20		
Jul-20	Fluorine	(mg/m3)	Every 6 months							30		
Jul-20	Hydrogen chloride	(mg/m3)	Every 6 months							50		
Jul-20	Mercury	(mg/m3)	Every 6 months							0.05		
Jul-20	Nitrogen Oxides	(mg/m3)	Continuous	100%	Jul-20	498	734	885	1100	1500	No	The 99th percentile limit does not apply until 31/1/2021
Jul-20	Solid Particles	(mg/m3)	Quarterly							50		
Jul-20	Sulfur dioxide	(mg/m3)	Continuous	100%	Jul-20	147	190	217	1400	1700	No	
Jul-20	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							100		
Jul-20	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.75		
Jul-20	VOC's as n-propane equivalent	(mg/m3)	Every 6 months							10		

				Samples Collected &		Lowest Sample	Mean of	Highest Sample		100 Percentile Concentration		
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency		Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-20	Cadmium	(mg/m3)	Every 6 months									
Jul-20	Carbon dioxide	(%)	Every 6 months									
Jul-20	Chlorine	(mg/m3)	Every 6 months									
Jul-20	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Jul-20	Fluorine	(mg/m3)	Every 6 months									
Jul-20	Hydrogen chloride	(mg/m3)	Every 6 months									
Jul-20	Mercury	(mg/m3)	Every 6 months									
Jul-20	Moisture	(%)	Continuous									Not required until 31 October 2021
Jul-20	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Jul-20	Solid Particles	(mg/m3)	Quarterly									
Jul-20	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months									
Jul-20	Temperature	(°C)	Continuous									Not required until 31 October 2021
Jul-20	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									
Jul-20	VOC's as n-propane equivalent	(mg/m3)	Every 6 months									

POINT 5	Boiler number 5 exhaust - duct B marked and shown	as EPA ID 5 on The Pl	ans ("VX837351-1 AND "VX837351-	2" 03/06/202	O EPA REFERENCE	DOC20/476695 AN	ID DOC20/47669	5-1).				
				Samples					99 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-20	Cadmium	(mg/m3)	Every 6 months									
Jul-20	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Jul-20	Mercury	(mg/m3)	Every 6 months									
Jul-20	Moisture	(%)	Continuous									Not required until 31 October 2021
Jul-20	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Jul-20	Solid Particles	(mg/m3)	Quarterly									
Jul-20	Temperature	(°C)	Continuous				-					Not required until 31 October 2021
Jul-20	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									

POINT 6													
				Samples					99 Percentile	100 Percentile			
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance		
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments	
Jul-20	Cadmium	(mg/m3)	Every 6 months										
Jul-20	Carbon dioxide	(%)	Every 6 months										
Jul-20	Chlorine	(mg/m3)	Every 6 months										
Jul-20	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021	
Jul-20	Fluorine	(mg/m3)	Every 6 months										
Jul-20	Hydrogen chloride	(mg/m3)	Every 6 months										
Jul-20	Mercury	(mg/m3)	Every 6 months										
Jul-20	Moisture	(%)	Continuous									Not required until 31 October 2021	
Jul-20	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021	
Jul-20	Solid Particles	(mg/m3)	Quarterly										
Jul-20	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months										
Jul-20	Temperature	(°C)	Continuous									Not required until 31 October 2021	
Jul-20	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months										
Jul-20	VOC's as n-propane equivalent	(mg/m3)	Every 6 months										

POINT 7												
				Samples					99 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-20	Cadmium	(mg/m3)	Every 6 months									
Jul-20	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Jul-20	Mercury	(mg/m3)	Every 6 months									
Jul-20	Moisture	(%)	Continuous									Not required until 31 October 2021
Jul-20	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Jul-20	Solid Particles	(mg/m3)	Quarterly									
Jul-20	Temperature	(°C)	Continuous									Not required until 31 October 2021
Jul-20	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									

POINT 8	Boiler number 6 exhaust - duct A marked and show	n as EPA ID 8 on The P	lans ("VX837351-1 AND "VX837351-	2" 03/06/202	O EPA REFERENCE	DOC20/476695 AN	ID DOC20/47669	5-1).				
				Samples					99 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-20	Cadmium	(mg/m3)	Every 6 months									
Jul-20	Carbon dioxide	(%)	Every 6 months									
Jul-20	Chlorine	(mg/m3)	Every 6 months									
Jul-20	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Jul-20	Fluorine	(mg/m3)	Every 6 months									
Jul-20	Hydrogen chloride	(mg/m3)	Every 6 months									
Jul-20	Mercury	(mg/m3)	Every 6 months									
Jul-20	Moisture	(%)	Continuous									Not required until 31 October 2021
Jul-20	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Jul-20	Solid Particles	(mg/m3)	Quarterly									
Jul-20	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months									
Jul-20	Temperature	(°C)	Continuous									Not required until 31 October 2021
Jul-20	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									
Jul-20	VOC's as n-propane equivalent	(mg/m3)	Every 6 months				•					·

POINT 9	Boiler number 6 exhaust - duct B marked and show	n as EPA ID 9 on The P	19112 (AV02123T-T WIAD AV02123T-		O LI A ILLI LILLIACE	DUC20/4/0033 AN	D DOC20/47003	5-1).				
				Samples		_			99 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-20	Cadmium	(mg/m3)	Every 6 months									
Jul-20	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Jul-20	Mercury	(mg/m3)	Every 6 months									
Jul-20	Moisture	(%)	Continuous									Not required until 31 October 2021
Jul-20	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Jul-20	Solid Particles	(mg/m3)	Quarterly									
Jul-20	Temperature	(°C)	Continuous									Not required until 31 October 2021
Jul-20	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									
		504 10 40 W		/ /				n= 4\				
POINT 10	Boiler number 6 exhaust - duct C marked and show	n as EPA ID 10 on The I	Plans ("VX83/351-1 AND "VX83/351		ZU EPA KEFEKENCE	DOC20/4/6695 A	ND DOC20/4766	95-1).	l			
				Samples					99 Percentile	100 Percentile		
	Pallistant.	11-ih -f \$4	S	Collected &	Data Camadad	Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance	Comments
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency Every 6 months	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-20	Cadmium	(mg/m3)										
Jul-20 Jul-20	Carbon dioxide Chlorine	(%) (mg/m3)	Every 6 months Every 6 months					1				
Jul-20 Jul-20	Chlorine Flow rate	(mg/m3) (m3/s)	Continuous									Not required until 31 October 2021
Jul-20 Jul-20		(m3/s) (mg/m3)						1				Not required until 31 October 2021
Jul-20 Jul-20	Fluorine		Every 6 months									
Jul-20 Jul-20	Hydrogen chloride	(mg/m3)	Every 6 months Every 6 months									
Jul-20 Jul-20	Mercury Moisture	(mg/m3)	Continuous									Not required until 31 October 2021
Jul-20 Jul-20	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021 Not required until 31 October 2021
Jul-20 Jul-20	Oxygen (O2) Solid Particles	(%) (mg/m3)	Quarterly									NOT required until 31 October 2021
Jul-20 Jul-20	Sulfuric acid mist and sulfur trioxide (as SO3)		Every 6 months									
Jul-20 Jul-20		(mg/m3) (°C)	Continuous									Not required until 31 October 2021
	Temperature Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									Not required until 31 October 2021
Jul-20												
Jul-20	VOC's as n-propane equivalent	(mg/m3)	Every 6 months									
				Samples						100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance	
*1011611	Pollutant	Unit of Measure	Sample/Measurement Frequency	Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	Concentration Limit	Concentration Limit	Exceedance (yes/no)	Comments
Jul-20	Cadmium	(mg/m3)	Every 6 months		Date Sampled							
Jul-20 Jul-20	Cadmium Flow rate	(mg/m3) (m3/s)	Every 6 months Continuous		Date Sampled							Comments Not required until 31 October 2021
Jul-20 Jul-20 Jul-20	Cadmium Flow rate Mercury	(mg/m3) (m3/s) (mg/m3)	Every 6 months Continuous Every 6 months		Date Sampled							Not required until 31 October 2021
Jul-20 Jul-20 Jul-20 Jul-20	Cadmium Flow rate Mercury Moisture	(mg/m3) (m3/s) (mg/m3) (%)	Every 6 months Continuous Every 6 months Continuous		Date Sampled							Not required until 31 October 2021 Not required until 31 October 2021
Jul-20 Jul-20 Jul-20 Jul-20 Jul-20	Cadmium Flow rate Mercury Moisture Oxygen (02)	(mg/m3) (m3/s) (mg/m3) (%)	Every 6 months Continuous Every 6 months Continuous Continuous		Date Sampled							Not required until 31 October 2021
Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20	Cadmium Flow rate Mercury Moisture Oxygen (O2) Solid Particles	(mg/m3) (m3/s) (mg/m3) (%) (%) (mg/m3)	Every 6 months Continuous Every 6 months Continuous Continuous Quarterly		Date Sampled							Not required until 31 October 2021 Not required until 31 October 2021 Not required until 31 October 2021
Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20	Cadmium Flow rate Mercury Moisture Oxygen (02) Solid Particles Temperature	(mg/m3) (m3/s) (mg/m3) (%) (%) (mg/m3) (°C)	Every 6 months Continuous Every 6 months Continuous Continuous Quarterly Continuous		Date Sampled							Not required until 31 October 2021 Not required until 31 October 2021
Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20	Cadmium Flow rate Mercury Moisture Oxygen (O2) Solid Particles	(mg/m3) (m3/s) (mg/m3) (%) (%) (mg/m3)	Every 6 months Continuous Every 6 months Continuous Continuous Quarterly		Date Sampled							Not required until 31 October 2021 Not required until 31 October 2021 Not required until 31 October 2021
Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20	Cadmium Flow rate Mercury Moisture Oxygen (02) Solid Particles Temperature Type 1 and Type 2 substances in aggregate	(mg/m3) (m3/s) (mg/m3) (%) (%) (mg/m3) (°C) (mg/m3)	Every 6 months Continuous Every 6 months Continuous Continuous Continuous Quarterly Continuous Every 6 months	Analysed		Value	Samples	Value	Limit	Limit		Not required until 31 October 2021 Not required until 31 October 2021 Not required until 31 October 2021
Month Jul-20 OINT 12	Cadmium Flow rate Mercury Moisture Oxygen (02) Solid Particles Temperature	(mg/m3) (m3/s) (mg/m3) (%) (%) (mg/m3) (°C) (mg/m3)	Every 6 months Continuous Every 6 months Continuous Continuous Continuous Quarterly Continuous Every 6 months	Analysed		Value	Samples	Value	Limit	Limit		Not required until 31 October 2021 Not required until 31 October 2021 Not required until 31 October 2021
Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20	Cadmium Flow rate Mercury Moisture Oxygen (02) Solid Particles Temperature Type 1 and Type 2 substances in aggregate	(mg/m3) (m3/s) (mg/m3) (%) (%) (mg/m3) (°C) (mg/m3)	Every 6 months Continuous Every 6 months Continuous Continuous Continuous Quarterly Continuous Every 6 months	Analysed		Value	Samples	Value	Limit	Limit		Not required until 31 October 2021 Not required until 31 October 2021 Not required until 31 October 2021
Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20	Cadmium Flow rate Mercury Moisture Oxygen (02) Solid Particles Temperature Type 1 and Type 2 substances in aggregate	(mg/m3) (m3/s) (mg/m3) (%) (%) (mg/m3) (°C) (mg/m3)	Every 6 months Continuous Every 6 months Continuous Continuous Continuous Quarterly Continuous Every 6 months	Analysed		Value	Samples	Value	Limit D DOC20/476699	Limit		Not required until 31 October 2021 Not required until 31 October 2021 Not required until 31 October 2021
Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20	Cadmium Flow rate Mercury Moisture Oxygen (02) Solid Particles Temperature Type 1 and Type 2 substances in aggregate	(mg/m3) (m3/s) (mg/m3) (%) (%) (mg/m3) (°C) (mg/m3)	Every 6 months Continuous Every 6 months Continuous Continuous Continuous Quarterly Continuous Every 6 months	Analysed Ins ("VX83735 Samples		Value 1-2" 03/06/2020	Samples PA REFERENCE I	Value 000000000000000000000000000000000000	D DOC20/476695	Limit 5-1). 100 Percentile	(yes/no)	Not required until 31 October 2021 Not required until 31 October 2021 Not required until 31 October 2021
Jul-20	Cadmium Flow rate Mercury Moisture Oxygen (O2) Solid Particles Temperature Type 1 and Type 2 substances in aggregate Boiler number 5 combined exhaust - duct A and B ((mg/m3) (m3/s) (m3/s) (mg/m3) (%) (%) (%) (mg/m3) (°C) (mg/m3) points 4 and 5) marked	Every 6 months Continuous Every 6 months Continuous Continuous Quarterly Continuous Every 6 months	Analysed Analysed One ("VX83735 Samples Collected &	1-1 AND "VX83735	Value 1-2" 03/06/2020 Lowest Sample	Samples EPA REFERENCE (Mean of	Value OC20/476695 ANI Highest Sample	D DOC20/476699	Limit 5-1). 100 Percentile Concentration	(yes/no)	Not required until 31 October 2021
Jul-20 Jul-21 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20	Cadmium Flow rate Mercury Moisture Oxygen (O2) Solid Particles Temperature Type 1 and Type 2 substances in aggregate Boiler number 5 combined exhaust - duct A and B ((mg/m3) (m3/s) (mg/m3) (%) (%) (%) (mg/m3) (°C) (mg/m3) points 4 and 5) marked	Every 6 months Continuous Every 6 months Continuous Continuous Continuous Quarterly Continuous Every 6 months and shown as EPA ID 12 on The Pla	Analysed ins ("VX83735 Samples Collected & Analysed	1-1 AND "VX83735	Value 1-2" 03/06/2020 Lowest Sample Value	Samples PA REFERENCE I Mean of Samples	Value OOC20/476695 ANI Highest Sample Value	D DOC20/476699	Limit 5-1). 100 Percentile Concentration	(yes/no)	Not required until 31 October 2021
	Cadmium Flow rate Mercury Moisture Oxygen (O2) Solid Particles Temperature Type 1 and Type 2 substances in aggregate Boiler number 5 combined exhaust - duct A and B (Pollutant Nitrogen Oxides	(mg/m3) (m3/s) (mg/m3) (%) (%) (%) (mg/m3) (°C) (mg/m3) points 4 and 5) marked	Every 6 months Continuous Every 6 months Continuous Continuous Continuous Quarterly Continuous Every 6 months Land shown as EPA ID 12 on The Pla Sample/Measurement Frequency Continuous	Analysed Ins ("VX83735 Samples Collected & Analysed 100%	1-1 AND "VX83735 Date Sampled Jul-20	Value 1-2" 03/06/2020 Lowest Sample Value	Samples EPA REFERENCE I Mean of Samples 665	Value OOC20/476695 ANI Highest Sample Value 802	D DOC20/476699	Limit 5-1). 100 Percentile Concentration	(yes/no)	Not required until 31 October 2021
Jul-20	Cadmium Flow rate Mercury Moisture Oxygen (O2) Solid Particles Temperature Type 1 and Type 2 substances in aggregate Boiler number 5 combined exhaust - duct A and B (Pollutant Nitrogen Oxides	(mg/m3) (m3/s) (m3/s) (mg/m3) (%) (%) (mg/m3) (°C) (mg/m3) points 4 and 5) marked Unit of Measure (mg/m3) (mg/m3)	Every 6 months Continuous Every 6 months Continuous Continuous Continuous Quarterly Continuous Every 6 months and shown as EPA ID 12 on The Pla Sample/Measurement Frequency Continuous Continuous Continuous	Analysed Analysed Samples Collected & Analysed 100%	Date Sampled Jul-20 Jul-20	Value 1-2" 03/06/2020 Lowest Sample Value	Samples PA REFERENCE I Mean of Samples 665 488	Value DOC20/476695 ANI Highest Sample Value 802 552	Limit D DOC20/476695 99 Percentile Concentration Limit	Limit 5-1). 100 Percentile Concentration Limit	(yes/no)	Not required until 31 October 2021
Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20	Cadmium Flow rate Mercury Moisture Oxygen (O2) Solid Particles Temperature Type 1 and Type 2 substances in aggregate Boiler number 5 combined exhaust - duct A and B (Pollutant Nitrogen Oxides Sulfur dioxide	(mg/m3) (m3/s) (m3/s) (mg/m3) (%) (%) (mg/m3) (°C) (mg/m3) points 4 and 5) marked Unit of Measure (mg/m3) (mg/m3)	Every 6 months Continuous Every 6 months Continuous Continuous Continuous Quarterly Continuous Every 6 months and shown as EPA ID 12 on The Pla Sample/Measurement Frequency Continuous Continuous Continuous	Analysed Analysed Samples Collected & Analysed 100%	Date Sampled Jul-20 Jul-20	Value 1-2" 03/06/2020 Lowest Sample Value	Samples PA REFERENCE I Mean of Samples 665 488	Value DOC20/476695 ANI Highest Sample Value 802 552	Limit D DOC20/476695 99 Percentile Concentration Limit	Limit 5-1). 100 Percentile Concentration Limit	(yes/no)	Not required until 31 October 2021
Jul-20	Cadmium Flow rate Mercury Moisture Oxygen (O2) Solid Particles Temperature Type 1 and Type 2 substances in aggregate Boiler number 5 combined exhaust - duct A and B (Pollutant Nitrogen Oxides Sulfur dioxide	(mg/m3) (m3/s) (m3/s) (mg/m3) (%) (%) (mg/m3) (°C) (mg/m3) points 4 and 5) marked Unit of Measure (mg/m3) (mg/m3)	Every 6 months Continuous Every 6 months Continuous Continuous Continuous Quarterly Continuous Every 6 months and shown as EPA ID 12 on The Pla Sample/Measurement Frequency Continuous Continuous Continuous	Analysed Analysed Samples Collected & Analysed 100% 100% 100% Samples Samples	Date Sampled Jul-20 Jul-20	Value 1-2" 03/06/2020 1 Lowest Sample Value 457 401 1-2" 03/06/2020 E	Mean of Samples 665 488 PA REFERENCE D	Value DOC20/476695 AND Highest Sample Value 802 552 DOC20/476695 AND	Limit D DOC20/476695 99 Percentile Concentration Limit	Limit 5-1). 100 Percentile Concentration Limit	Exceedance (yes/no)	Not required until 31 October 2021
Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 DINT 12	Cadmium Flow rate Mercury Moisture Oxygen (O2) Solid Particles Temperature Type 1 and Type 2 substances in aggregate Boiler number 5 combined exhaust - duct A and B (Pollutant Nitrogen Oxides Sulfur dioxide	(mg/m3) (m3/s) (m3/s) (mg/m3) (%) (%) (mg/m3) (°C) (mg/m3) points 4 and 5) marked Unit of Measure (mg/m3) (mg/m3)	Every 6 months Continuous Every 6 months Continuous Continuous Continuous Quarterly Continuous Every 6 months and shown as EPA ID 12 on The Pla Sample/Measurement Frequency Continuous Continuous Continuous	Analysed Analysed Collected & Analysed 100% 100%	Date Sampled Jul-20 Jul-20	Value 1-2" 03/06/2020 Lowest Sample Value	Samples PA REFERENCE I Mean of Samples 665 488	Value DOC20/476695 ANI Highest Sample Value 802 552	D DOC20/476695	Limit 5-1). 100 Percentile Concentration Limit	(yes/no)	Not required until 31 October 2021
	Cadmium Flow rate Mercury Moisture Oxygen (O2) Solid Particles Temperature Type 1 and Type 2 substances in aggregate Boiler number 5 combined exhaust - duct A and B (Pollutant Nitrogen Oxides Sulfur dioxide Boiler number 5 combined exhaust - duct C and D ((mg/m3) (m3/s) (m3/s) (mg/m3) (%) (%) (mg/m3) (°C) (mg/m3) points 4 and 5) marked Unit of Measure (mg/m3) (mg/m3)	Every 6 months Continuous Every 6 months Continuous Continuous Continuous Quarterly Continuous Every 6 months and shown as EPA ID 12 on The Pla Sample/Measurement Frequency Continuous Continuous Continuous	Analysed Analysed Collected & Analysed 100% 100% Samples Collected & Analysed Analysed Analysed	Date Sampled Jul-20 Jul-20	Value 1-2" 03/06/2020 Lowest Sample Value 457 401 Lowest Sample Value 457 401	Mean of Samples PA REFERENCE D Mean of Samples Mean of Samples	Value OOC20/476695 ANI Highest Sample Value 802 552 OC20/476695 AND Highest Sample Value	D DOC20/476695 99 Percentile Concentration Limit	Limit 100 Percentile Concentration Limit 100 Percentile	Exceedance (yes/no)	Not required until 31 October 2021
Month Month Month Month Month	Cadmium Flow rate Mercury Moisture Oxygen (O2) Solid Particles Temperature Type 1 and Type 2 substances in aggregate Boiler number 5 combined exhaust - duct A and B (Pollutant Nitrogen Oxides Sulfur dioxide Boiler number 5 combined exhaust - duct C and D ((mg/m3) (m3/s) (m3/s) (mg/m3) (%) (%) (mg/m3) (°C) (mg/m3) points 4 and 5) marked Unit of Measure (mg/m3) (mg/m3) points 6 and 7) marked	Every 6 months Continuous Every 6 months Continuous Continuous Continuous Quarterly Continuous Every 6 months and shown as EPA ID 12 on The Pla Sample/Measurement Frequency Continuous Continuous Continuous And shown as EPA ID 13 on The Pla	Analysed ans ("VX83735 Samples Collected & Analysed 100% 100% Samples Collected & Colle	Date Sampled Jul-20 Jul-20 Jul-20 Jul-20 Jul-20	Value 1-2" 03/06/2020 E Lowest Sample Value 457 401 L-2" 03/06/2020 E Lowest Sample Value 503	Mean of Samples PA REFERENCE D Mean of Samples 665 488 PA REFERENCE D Mean of Samples 682	Value DOC20/476695 ANI Highest Sample Value 802 552 DOC20/476695 AND Highest Sample Value 862	D DOC20/476695 99 Percentile Concentration Limit D DOC20/476695 99 Percentile Concentration	Limit 5-1). 100 Percentile Concentration Limit 100 Percentile Concentration	Exceedance (yes/no)	Not required until 31 October 2021 Comments
Jul-20	Cadmium Flow rate Mercury Moisture Oxygen (O2) Solid Particles Temperature Type 1 and Type 2 substances in aggregate Boiler number 5 combined exhaust - duct A and B (Pollutant Nitrogen Oxides Sulfur dioxide Boiler number 5 combined exhaust - duct C and D ((mg/m3) (m3/s) (m3/s) (mg/m3) (%) (%) (%) (mg/m3) (°C) (mg/m3) points 4 and 5) marked Unit of Measure Unit of Measure Unit of Measure	Every 6 months Continuous Every 6 months Continuous Continuous Continuous Quarterly Continuous Every 6 months I and shown as EPA ID 12 on The Pla Sample/Measurement Frequency Continuous Continuous Continuous Continuous	Analysed Analysed Collected & Analysed 100% 100% Samples Collected & Analysed Analysed Analysed	Date Sampled Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Date Sampled	Value 1-2" 03/06/2020 Lowest Sample Value 457 401 Lowest Sample Value 457 401	Mean of Samples PA REFERENCE D Mean of Samples Mean of Samples	Value OOC20/476695 ANI Highest Sample Value 802 552 OC20/476695 AND Highest Sample Value	D DOC20/476695 99 Percentile Concentration Limit D DOC20/476695 99 Percentile Concentration	Limit 5-1). 100 Percentile Concentration Limit 100 Percentile Concentration	Exceedance (yes/no)	Not required until 31 October 2021 Comments
Jul-20 Ju	Cadmium Flow rate Mercury Moisture Oxygen (O2) Solid Particles Temperature Type 1 and Type 2 substances in aggregate Boiler number 5 combined exhaust - duct A and B (Pollutant Nitrogen Oxides Sulfur dioxide Pollutant Nitrogen Oxides Sulfur dioxide Sulfur dioxide	(mg/m3) (m3/s) (m3/s) (mg/m3) (%) (%) (%) (rc) (mg/m3) (°C) (mg/m3) points 4 and 5) marked Unit of Measure (mg/m3) (mg/m3) Unit of Measure (mg/m3) (mg/m3)	Every 6 months Continuous Every 6 months Continuous Continuous Continuous Quarterly Continuous Every 6 months I and shown as EPA ID 12 on The Pla Sample/Measurement Frequency Continuous	Analysed Analysed Collected & Analysed 100% 100% Samples Collected & Analysed 99.46% 99.46%	Date Sampled Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20	Value 1-2" 03/06/2020 Lowest Sample Value 457 401 Lowest Sample Value 503 483	Mean of Samples Mean of Samples 665 488 PA REFERENCE D Mean of Samples 682 603	Highest Sample Value 802 552 OC20/476695 AND Highest Sample Value 862 684	D DOC20/476695 99 Percentile Concentration Limit D DOC20/476695 99 Percentile Concentration Limit	Limit 5-1). 100 Percentile Concentration Limit 100 Percentile Concentration Limit	Exceedance (yes/no)	Not required until 31 October 2021 Comments
Jul-20	Cadmium Flow rate Mercury Moisture Oxygen (02) Solid Particles Temperature Type 1 and Type 2 substances in aggregate Boiler number 5 combined exhaust - duct A and B (Pollutant Nitrogen Oxides Sulfur dioxide Boiler number 5 combined exhaust - duct C and D (Pollutant Nitrogen Oxides	(mg/m3) (m3/s) (m3/s) (mg/m3) (%) (%) (%) (rc) (mg/m3) (°C) (mg/m3) points 4 and 5) marked Unit of Measure (mg/m3) (mg/m3) Unit of Measure (mg/m3) (mg/m3)	Every 6 months Continuous Every 6 months Continuous Continuous Continuous Quarterly Continuous Every 6 months I and shown as EPA ID 12 on The Pla Sample/Measurement Frequency Continuous	Analysed Analysed Collected & Analysed 100% 100% Samples Collected & Analysed 99.46% 99.46%	Date Sampled Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20	Value 1-2" 03/06/2020 Lowest Sample Value 457 401 Lowest Sample Value 503 483	Mean of Samples Mean of Samples 665 488 PA REFERENCE D Mean of Samples 682 603	Highest Sample Value 802 552 OC20/476695 AND Highest Sample Value 862 684	D DOC20/476695 99 Percentile Concentration Limit D DOC20/476695 99 Percentile Concentration Limit	Limit 5-1). 100 Percentile Concentration Limit 100 Percentile Concentration Limit	Exceedance (yes/no)	Not required until 31 October 2021 Comments
Jul-20	Cadmium Flow rate Mercury Moisture Oxygen (O2) Solid Particles Temperature Type 1 and Type 2 substances in aggregate Boiler number 5 combined exhaust - duct A and B (Pollutant Nitrogen Oxides Sulfur dioxide Pollutant Nitrogen Oxides Sulfur dioxide Sulfur dioxide	(mg/m3) (m3/s) (m3/s) (mg/m3) (%) (%) (%) (rc) (mg/m3) (°C) (mg/m3) points 4 and 5) marked Unit of Measure (mg/m3) (mg/m3) Unit of Measure (mg/m3) (mg/m3)	Every 6 months Continuous Every 6 months Continuous Continuous Continuous Quarterly Continuous Every 6 months I and shown as EPA ID 12 on The Pla Sample/Measurement Frequency Continuous	Analysed Analysed Collected & Analysed 100% 100% Samples Collected & Analysed 99.46% 99.46%	Date Sampled Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20	Value 1-2" 03/06/2020 Lowest Sample Value 457 401 Lowest Sample Value 503 483	Mean of Samples Mean of Samples 665 488 PA REFERENCE D Mean of Samples 682 603	Highest Sample Value 802 552 OC20/476695 AND Highest Sample Value 862 684	D DOC20/476695 99 Percentile Concentration Limit D DOC20/476695 99 Percentile Concentration Limit	Limit 5-1). 100 Percentile Concentration Limit 100 Percentile Concentration Limit	Exceedance (yes/no)	Not required until 31 October 2021 Comments
Jul-20	Cadmium Flow rate Mercury Moisture Oxygen (O2) Solid Particles Temperature Type 1 and Type 2 substances in aggregate Boiler number 5 combined exhaust - duct A and B (Pollutant Nitrogen Oxides Sulfur dioxide Pollutant Nitrogen Oxides Sulfur dioxide Sulfur dioxide	(mg/m3) (m3/s) (m3/s) (mg/m3) (%) (%) (%) (rc) (mg/m3) (°C) (mg/m3) points 4 and 5) marked Unit of Measure (mg/m3) (mg/m3) Unit of Measure (mg/m3) (mg/m3)	Every 6 months Continuous Every 6 months Continuous Continuous Continuous Quarterly Continuous Every 6 months I and shown as EPA ID 12 on The Pla Sample/Measurement Frequency Continuous	Analysed Analysed Samples Collected & Analysed 100% 100% Samples Collected & Analysed 99.46% 99.46% Samples Samples Samples Samples	Date Sampled Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20	Value 1-2" 03/06/2020 Lowest Sample Value 457 401 Lowest Sample Value 503 483	Mean of Samples Mean of Samples 665 488 PA REFERENCE D Mean of Samples 682 603	Highest Sample Value 802 552 OC20/476695 AND Highest Sample Value 862 684	D DOC20/476695 99 Percentile Concentration Limit D DOC20/476695 99 Percentile Concentration Limit	Limit 5-1). 100 Percentile Concentration Limit 100 Percentile Concentration Limit	Exceedance (yes/no)	Not required until 31 October 2021 Comments
Jul-20	Cadmium Flow rate Mercury Moisture Oxygen (O2) Solid Particles Temperature Type 1 and Type 2 substances in aggregate Boiler number 5 combined exhaust - duct A and B (Pollutant Nitrogen Oxides Sulfur dioxide Pollutant Nitrogen Oxides Sulfur dioxide Sulfur dioxide	(mg/m3) (m3/s) (m3/s) (mg/m3) (%) (%) (%) (rc) (mg/m3) (°C) (mg/m3) points 4 and 5) marked Unit of Measure (mg/m3) (mg/m3) Unit of Measure (mg/m3) (mg/m3)	Every 6 months Continuous Every 6 months Continuous Continuous Continuous Quarterly Continuous Every 6 months I and shown as EPA ID 12 on The Pla Sample/Measurement Frequency Continuous	Analysed Analysed Samples Collected & Analysed 100% 100% Samples Collected & Analysed 99.46% 99.46%	Date Sampled Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20	Value 1-2" 03/06/2020 Lowest Sample Value 457 401 Lowest Sample Value 503 483	Mean of Samples Mean of Samples 665 488 PA REFERENCE D Mean of Samples 682 603	Highest Sample Value 802 552 OC20/476695 AND Highest Sample Value 862 684	D DOC20/476695 99 Percentile Concentration Limit D DOC20/476695	Limit 100 Percentile Concentration Limit 100 Percentile Concentration Limit	Exceedance (yes/no)	Not required until 31 October 2021 Comments
Juli-20 Juli-2	Cadmium Flow rate Mercury Moisture Oxygen (O2) Solid Particles Temperature Type 1 and Type 2 substances in aggregate Boiler number 5 combined exhaust - duct A and B (Pollutant Nitrogen Oxides Sulfur dioxide Pollutant Nitrogen Oxides Sulfur dioxide Sulfur dioxide	(mg/m3) (m3/s) (m3/s) (mg/m3) (%) (%) (%) (rc) (mg/m3) (°C) (mg/m3) points 4 and 5) marked Unit of Measure (mg/m3) (mg/m3) Unit of Measure (mg/m3) (mg/m3)	Every 6 months Continuous Every 6 months Continuous Continuous Continuous Quarterly Continuous Every 6 months I and shown as EPA ID 12 on The Pla Sample/Measurement Frequency Continuous	Analysed Analysed Samples Collected & Analysed 100% 100% Samples Collected & Analysed 99.46% 99.46% Samples Samples Samples Samples	Date Sampled Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20 Jul-20	Value 1-2" 03/06/2020 Lowest Sample Value 457 401 1-2" 03/06/2020 E Lowest Sample Value 503 483	Mean of Samples 665 488 PA REFERENCE D Mean of Samples 662 603 PA REFERENCE D	Value	DOC20/476695 99 Percentile Concentration Limit DOC20/476695 99 Percentile Concentration Limit DOC20/476695	Limit 100 Percentile Concentration Limit 100 Percentile Concentration Limit 100 Percentile 100 Percentile	Exceedance (yes/no) Exceedance (yes/no)	Not required until 31 October 2021 Comments
Jul-20	Cadmium Flow rate Mercury Moisture Oxygen (02) Solid Particles Temperature Type 1 and Type 2 substances in aggregate Boiler number 5 combined exhaust - duct A and B (Pollutant Nitrogen Oxides Sulfur dioxide Boiler number 5 combined exhaust - duct C and D (Pollutant Nitrogen Oxides Sulfur dioxide Boiler number 6 combined exhaust - duct A and B ((mg/m3) (m3/s) (m3/s) (mg/m3) (%) (%) (%) ("C) (mg/m3) ("C) (mg/m3) points 4 and 5) marked Unit of Measure (mg/m3) (mg/m3) points 6 and 7) marked	Every 6 months Continuous Every 6 months Continuous Continuous Quarterly Continuous Every 6 months Every 6 months I and shown as EPA ID 12 on The Pla Sample/Measurement Frequency Continuous Continuous I and shownas EPA ID 13 on The Pla Sample/Measurement Frequency Continuous Continuous Continuous Land shownas EPA ID 13 on The Pla Sample/Measurement Frequency Continuous Continuous Land shownas EPA ID 14 on The Pla	Analysed Analysed Samples Collected & Analysed 100% 100% Samples Collected & Analysed 99.46% 99.46% 99.46% Samples Collected & Analysed Collected & C	Date Sampled Jul-20	Value 1-2" 03/06/2020 E Lowest Sample Value 457 401 Lowest Sample Value 503 483 Lowest Sample Value 503 483 Lowest Sample	Mean of Samples Mean of Samples 665 488 PA REFERENCE D Mean of Samples 682 603 PA REFERENCE D Mean of Samples	Value DOC20/476695 ANI Highest Sample Value 802 552 OC20/476695 AND Highest Sample Value 862 684 OC20/476695 AND Highest Sample	DOC20/476695 DOC20/476695 DOC20/476695 DOC20/476695 DOC20/476695	Limit 100 Percentile Concentration Limit 100 Percentile Concentration Limit 100 Percentile Concentration Limit	Exceedance (yes/no) Exceedance (yes/no) Exceedance (yes/no)	Not required until 31 October 2021 Comments Comments
onth il-20 NT 12	Cadmium Flow rate Mercury Moisture Oxygen (O2) Solid Particles Temperature Type 1 and Type 2 substances in aggregate Boiler number 5 combined exhaust - duct A and B (Pollutant Nitrogen Oxides Sulfur dioxide Boiler number 5 combined exhaust - duct C and D (Pollutant Nitrogen Oxides Sulfur dioxide Boiler number 6 combined exhaust - duct A and B (Pollutant Nitrogen Oxides Sulfur dioxide	(mg/m3) (m3/s) (m3/s) (mg/m3) (%) (%) (%) (mg/m3) (°C) (mg/m3) points 4 and 5) marked Unit of Measure (mg/m3) (mg/m3) points 6 and 7) marked Unit of Measure (mg/m3) (mg/m3) points 8 and 9) marked	Every 6 months Continuous Every 6 months Continuous Continuous Continuous Quarterly Continuous Every 6 months I and shown as EPA ID 12 on The Pla Sample/Measurement Frequency Continuous Continuous Continuous Continuous and shownas EPA ID 13 on The Pla Sample/Measurement Frequency Continuous Continuous Continuous Continuous Continuous Continuous	Analysed Analysed Samples Collected & Analysed 100% 100% Samples Collected & Analysed 99.46% Samples Collected & Analysed 99.46% Analysed Collected & Analysed Analysed Analysed Analysed Analysed Analysed Analysed	Date Sampled Jul-20	Value 1-2" 03/06/2020 Lowest Sample Value 457 401 L-2" 03/06/2020 Lowest Sample Value 503 483 1-2" 03/06/2020 Lowest Sample Value	Mean of Samples Mean of Samples 665 488 PA REFERENCE D Mean of Samples 602 Mean of Samples 603	Highest Sample Value 802 552 Highest Sample Value 862 662 664 OC20/476695 AND Highest Sample Value 462 674 Highest Sample Value 464 Highest Sample Value 464 Highest Sample Value 464 Highest Sample Value Highest Sample	DOC20/476695 DOC20/476695 DOC20/476695 DOC20/476695 DOC20/476695	Limit 100 Percentile Concentration Limit 100 Percentile Concentration Limit 100 Percentile Concentration Limit	Exceedance (yes/no) Exceedance (yes/no) Exceedance (yes/no)	Not required until 31 October 2021 Comments

POINT 15	Boiler number 6 combined exhaust - duct C and D (po	oints 10 and 11) mark	ed and shownas EPA ID 12 on The F	Plans ("VX8373	51-1 AND "VX8373	351-2" 03/06/202	O EPA REFERENCE	DOC20/476695 AM	ND DOC20/47669	95-1).		
				Samples					99 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-20	Nitrogen Oxides	(mg/m3)	Continuous	100%	Jul-20	555	796	959				
Jul-20	Sulfur dioxide	(mg/m3)	Continuous	100%	Jul-20	361	496	575				

POINT 22												
				Samples					97 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-20	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	8/7/2020	<0.1	<0.1	<0.1		0.2	No	
Jul-20	Copper	(mg/L)	Monthly during discharge	1	8/7/2020	0.004	0.004	0.004		0.005	No	
Jul-20	Iron	(mg/L)	Monthly during discharge	1	8/7/2020	0.1	0.1	0.1		0.3	No	
Jul-20	Oil and Grease	Visible	Continuous during discharge	100%	Jul-20							
Jul-20	Selenium	(mg/L)	Monthly during discharge	1	8/7/2020	<0.002	<0.002	<0.002		0.005	No	
Jul-20	Temperature	(°C)	Continuous during discharge	100%	Jul-20				35	37.5	No	

POINT 23	Discharge of supernatant water from the ash dam to	the cooling water ou	tlet canal to Wyee Bay marked and	shown as EPA	ID 23 on The Plan	s ("VX837351-1 AI	ND "VX837351-2	" 03/06/2020 EPA I	REFERENCE DOC	20/476695 AND	DOC20/47669	5-1).
				Samples					99 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-20	Aluminium	(mg/L)	Monthly during discharge	1	8/7/2020	0.036	0.036	0.036				
Jul-20	Ammonia	(mg/L)	Monthly during discharge	1	8/7/2020	0.04	0.04	0.04				
Jul-20	Arsenic (III)	(mg/L)	Monthly during discharge	1	8/7/2020	<0.0050	<0.0050	<0.0050				
Jul-20	Arsenic (V)	(mg/L)	Monthly during discharge	1	8/7/2020	<0.0050	<0.0050	<0.0050				
Jul-20	Cadmium	(mg/L)	Monthly during discharge	1	8/7/2020	<0.0002	<0.0002	<0.0002				
Jul-20	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	8/7/2020	< 0.001	< 0.001	< 0.001				
Jul-20	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	8/7/2020	0.01	0.01	0.01				
Jul-20	Copper	(mg/L)	Monthly during discharge	1	8/7/2020	< 0.001	< 0.001	< 0.001				
Jul-20	Iron	(mg/L)	Monthly during discharge	1	8/7/2020	0.036	0.036	0.036				
Jul-20	Lead	(mg/L)	Monthly during discharge	1	8/7/2020	<0.0002	<0.0002	<0.0002				
Jul-20	Manganese	(mg/L)	Monthly during discharge	1	8/7/2020	0.0041	0.0041	0.0041				
Jul-20	Nickel	(mg/L)	Monthly during discharge	1	8/7/2020	< 0.0005	<0.0005	<0.0005				
Jul-20	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	8/7/2020	0.03	0.03	0.03				
Jul-20	Nitrogen	(mg/L)	Monthly during discharge	1	8/7/2020	<0.5	<0.5	<0.5				
Jul-20	pH	pН	Monthly during discharge	1	8/7/2020	8.77	8.77	8.77		6.5 - 9.5	No	
Jul-20	Phosphorus	(mg/L)	Monthly during discharge	1	8/7/2020	<0.05	< 0.05	<0.05				
Jul-20	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	8/7/2020	0.01	0.01	0.01				
Jul-20	Selenium	(mg/L)	Monthly during discharge	1	8/7/2020	0.042	0.042	0.042				
Jul-20	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	8/7/2020	<0.5	<0.5	<0.5				
Jul-20	Total Suspended Solids	(mg/L)	Monthly during discharge	1	8/7/2020	3	3	3		50	No	
Jul-20	Vanadium	(mg/L)	Monthly during discharge	1	8/7/2020	0.0334	0.0334	0.0334				
Jul-20	Zinc	(mg/L)	Monthly during discharge	1	8/7/2020	<0.005	< 0.005	<0.005				

POINT 24	Discharge of seepage water from the ash dam rehab	ilitation area to Manr	nering Bay marked and shown as EF	PA ID 24 on The	Plans ("VX83735	1-1 AND "VX83735	1-2" 03/06/2020	EPA REFERENCE D	OC20/476695 A	ND DOC20/4766	595-1).	
				Samples					99 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-20	Aluminium	(mg/L)	Monthly during discharge	1	8/7/2020							
Jul-20	Ammonia	(mg/L)	Monthly during discharge	1	8/7/2020							
Jul-20	Arsenic (III)	(mg/L)	Monthly during discharge	1	8/7/2020							
Jul-20	Arsenic (V)	(mg/L)	Monthly during discharge	1	8/7/2020							
Jul-20	Cadmium	(mg/L)	Monthly during discharge	1	8/7/2020							
Jul-20	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	8/7/2020							
Jul-20	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	8/7/2020							
Jul-20	Copper	(mg/L)	Monthly during discharge	1	8/7/2020							
Jul-20	Iron	(mg/L)	Monthly during discharge	1	8/7/2020							
Jul-20	Lead	(mg/L)	Monthly during discharge	1	8/7/2020							
Jul-20	Manganese	(mg/L)	Monthly during discharge	1	8/7/2020							No discharge from EPA Point 24 during July 2020
Jul-20	Nickel	(mg/L)	Monthly during discharge	1	8/7/2020							
Jul-20	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	8/7/2020							
Jul-20	Nitrogen	(mg/L)	Monthly during discharge	1	8/7/2020							
Jul-20	рН	pH	Monthly during discharge	1	8/7/2020					6.5 - 9.5		
Jul-20	Phosphorus	(mg/L)	Monthly during discharge	1	8/7/2020							
Jul-20	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	8/7/2020							
Jul-20	Selenium	(mg/L)	Monthly during discharge	1	8/7/2020							
Jul-20	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	8/7/2020							
Jul-20	Total Suspended Solids	(mg/L)	Monthly during discharge	1	8/7/2020					50		
Jul-20	Vanadium	(mg/L)	Monthly during discharge	1	8/7/2020							
Jul-20	Zinc	(mg/L)	Monthly during discharge	1	8/7/2020							

POINT 25	Discharge of over boarded water from the ash dam to Mannering Bay marked and shown as EPA ID 25 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).												
				Samples					99 Percentile	100 Percentile			
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance		
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments	
Jul-20	Aluminium	(mg/L)	Daily for any discharge >2 hrs	1									
Jul-20	Ammonia	(mg/L)	Daily for any discharge >2 hrs	1									
Jul-20	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs	1									
Jul-20	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs	1									
Jul-20	Cadmium	(mg/L)	Daily for any discharge >2 hrs	1									
Jul-20	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs	1									
Jul-20	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs	1									
Jul-20	Copper	(mg/L)	Daily for any discharge >2 hrs	1									
Jul-20	Iron	(mg/L)	Daily for any discharge >2 hrs	1									
Jul-20	Lead	(mg/L)	Daily for any discharge >2 hrs	1									
Jul-20	Manganese	(mg/L)	Daily for any discharge >2 hrs	1								No discharge from EPA Point 25 during July 2020	
Jul-20	Nickel	(mg/L)	Daily for any discharge >2 hrs	1									
Jul-20	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs	1									
Jul-20	Nitrogen	(mg/L)	Daily for any discharge >2 hrs	1									
Jul-20	pH	pН	Daily for any discharge >2 hrs	1						6.5 - 9.5			
Jul-20	Phosphorus	(mg/L)	Daily for any discharge >2 hrs	1									
Jul-20	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs	1									
Jul-20	Selenium	(mg/L)	Daily for any discharge >2 hrs	1									
Jul-20	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs	1									
Jul-20	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs	1						50			
Jul-20	Vanadium	(mg/L)	Daily for any discharge >2 hrs	1									
Jul-20	Zinc	(mg/L)	Daily for any discharge >2 hrs	1									

POINT 30	Groundwater quality monitoring bore marked and sh	own as EPA ID 30 on	The Plans ("VX837351-1 AND "VX8	37351-2" 03/0	6/2020 EPA REFER	ENCE DOC20/4766	95 AND DOC20/	476695-1).				
				Samples Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	100 Percentile Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-20	Aluminium	(mg/L)	Quarterly	1	8/7/2020	0.451	0.451	0.451				
Jul-20	Ammonia	(mg/L)	Quarterly	1	8/7/2020	4.26	4.26	4.26				
Jul-20	Arsenic (III)	(mg/L)	Quarterly	1	8/7/2020	<0.0050	<0.0050	<0.0050				
Jul-20	Arsenic (V)	(mg/L)	Quarterly	1	8/7/2020	<0.0050	<0.0050	<0.0050				
Jul-20	Cadmium	(mg/L)	Quarterly	1	8/7/2020	<0.0002	<0.0002	<0.0002				
Jul-20	Chromium (trivalent)	(mg/L)	Quarterly	1	8/7/2020	<0.001	< 0.001	<0.001				
Jul-20	Chromium (VI) Compounds	(mg/L)	Quarterly	1	8/7/2020	<0.001	< 0.001	<0.001				
Jul-20	Copper	(mg/L)	Quarterly	1	8/7/2020	0.004	0.004	0.004				
Jul-20	Electrical Conductivity	(us/cm)	Quarterly	1	8/7/2020	35800	35800	35800				
Jul-20	Iron	(mg/L)	Quarterly	1	8/7/2020	81.8	81.8	81.8				
Jul-20	Lead	(mg/L)	Quarterly	1	8/7/2020	0.0015	0.0015	0.0015				
Jul-20	Magnesium	(mg/L)	Quarterly	1	8/7/2020	909	909	909				
Jul-20	Manganese	(mg/L)	Quarterly	1	8/7/2020	5.41	5.41	5.41				
Jul-20	Nickel	(mg/L)	Quarterly	1	8/7/2020	0.0217	0.0217	0.0217				
Jul-20	pH	pH	Quarterly	1	8/7/2020	5.63	5.63	5.63				
Jul-20	Potassium	(mg/L)	Quarterly	1	8/7/2020	95	95	95				
Jul-20	Selenium	(mg/L)	Quarterly	1	8/7/2020	<0.002	<0.002	<0.002				
Jul-20	Sodium	(mg/L)	Quarterly	1	8/7/2020	6180	6180	6180				
Jul-20	Standing Water Level	(m)	Quarterly	1	8/7/2020	3.87	3.87	3.87				
Jul-20	Vanadium	(mg/L)	Quarterly	1	8/7/2020	<0.0005	<0.0005	<0.0005				
Jul-20	Zinc	(mg/L)	Quarterly	1	8/7/2020	0.021	0.021	0.021				

POINT 31	Groundwater quality monitoring bore marked and shown as EPA ID 31 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).													
				Samples					99 Percentile	100 Percentile				
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance			
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments		
Jul-20	Aluminium	(mg/L)	Quarterly	1	8/7/2020	1.15	1.15	1.15						
Jul-20	Ammonia	(mg/L)	Quarterly	1	8/7/2020	0.03	0.03	0.03						
Jul-20	Arsenic (III)	(mg/L)	Quarterly	1	8/7/2020	0.0009	0.0009	0.0009						
Jul-20	Arsenic (V)	(mg/L)	Quarterly	1	8/7/2020	<0.0005	<0.0005	<0.0005						
Jul-20	Cadmium	(mg/L)	Quarterly	1	8/7/2020	0.00015	0.00015	0.00015						
Jul-20	Chromium (trivalent)	(mg/L)	Quarterly	1	8/7/2020	0.002	0.002	0.002						
Jul-20	Chromium (VI) Compounds	(mg/L)	Quarterly	1	8/7/2020	<0.001	< 0.001	<0.001						
Jul-20	Copper	(mg/L)	Quarterly	1	8/7/2020	0.0201	0.0201	0.0201						
Jul-20	Electrical Conductivity	(us/cm)	Quarterly	1	8/7/2020	3020	3020	3020						
Jul-20	Iron	(mg/L)	Quarterly	1	8/7/2020	2.56	2.56	2.56						
Jul-20	Lead	(mg/L)	Quarterly	1	8/7/2020	0.0056	0.0056	0.0056						
Jul-20	Magnesium	(mg/L)	Quarterly	1	8/7/2020	42	42	42						
Jul-20	Manganese	(mg/L)	Quarterly	1	8/7/2020	0.0696	0.0696	0.0696						
Jul-20	Nickel	(mg/L)	Quarterly	1	8/7/2020	0.0076	0.0076	0.0076						
Jul-20	pH	pН	Quarterly	1	8/7/2020	5.72	5.72	5.72						
Jul-20	Potassium	(mg/L)	Quarterly	1	8/7/2020	5	5	5						
Jul-20	Selenium	(mg/L)	Quarterly	1	8/7/2020	0.0008	0.0008	0.0008						
Jul-20	Sodium	(mg/L)	Quarterly	1	8/7/2020	446	446	446						
Jul-20	Standing Water Level	(m)	Quarterly	1	8/7/2020	0.66	0.66	0.66						
Jul-20	Vanadium	(mg/L)	Quarterly	1	8/7/2020	0.0026	0.0026	0.0026						
Jul-20	Zinc	(mg/L)	Quarterly	1	8/7/2020	1.94	1.94	1.94						

POINT 32	Groundwater quality monitoring bore marked and sh	nown as EPA ID 32 on	The Plans ("VX837351-1 AND "VX8	37351-2" 03/0	6/2020 EPA REFER	RENCE DOC20/4766	95 AND DOC20/	476695-1).				
Month	Pollutant	Unit of Moasure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value		100 Percentile Concentration Limit		Comments
Jul-20	Aluminium	(mg/L)	Quarterly	1	8/7/2020	0.866	0.866	0.866	Lillie	Lillie	(903/110)	Comments
Jul-20	Ammonia	(mg/L)	Quarterly	1	8/7/2020	0.01	0.01	0.01				
Jul-20	Arsenic (III)	(mg/L)	Quarterly	1	8/7/2020	<0.0005	<0.0005	<0.0005				
Jul-20	Arsenic (V)	(mg/L)	Quarterly	1	8/7/2020	<0.0005	<0.0005	<0.0005				
Jul-20	Cadmium	(mg/L)	Quarterly	1	8/7/2020	<0.00005	<0.00005	<0.00005				
Jul-20	Chromium (trivalent)	(mg/L)	Quarterly	1	8/7/2020	0.002	0.002	0.002				
Jul-20	Chromium (VI) Compounds	(mg/L)	Quarterly	1	8/7/2020	< 0.001	<0.001	<0.001				
Jul-20	Copper	(mg/L)	Quarterly	1	8/7/2020	0.0044	0.0044	0.0044				
Jul-20	Electrical Conductivity	(us/cm)	Quarterly	1	8/7/2020	939	939	939				
Jul-20	Iron	(mg/L)	Quarterly	1	8/7/2020	7.30	7.30	7.30				
Jul-20	Lead	(mg/L)	Quarterly	1	8/7/2020	0.0015	0.0015	0.0015				
Jul-20	Magnesium	(mg/L)	Quarterly	1	8/7/2020	11	11	11				
Jul-20	Manganese	(mg/L)	Quarterly	1	8/7/2020	0.0778	0.0778	0.0778				
Jul-20	Nickel	(mg/L)	Quarterly	1	8/7/2020	0.0056	0.0056	0.0056				
Jul-20	рН	pH	Quarterly	1	8/7/2020	6.19	6.19	6.19				
Jul-20	Potassium	(mg/L)	Quarterly	1	8/7/2020	2	2	2				
Jul-20	Selenium	(mg/L)	Quarterly	1	8/7/2020	<0.0002	<0.0002	<0.0002				
Jul-20	Sodium	(mg/L)	Quarterly	1	8/7/2020	64	64	64				
Jul-20	Standing Water Level	(m)	Quarterly	1	8/7/2020	2.47	2.47	2.47				
Jul-20	Vanadium	(mg/L)	Quarterly	1	8/7/2020	0.0015	0.0015	0.0015				
Jul-20	Zinc	(mg/L)	Quarterly	1	8/7/2020	0.015	0.015	0.015				

POINT 33	Groundwater quality monitoring bore marked and sh	own as EPA ID 33 on	The Plans ("VX837351-1 AND "VX8	37351-2" 03/0	6/2020 EPA REFER	ENCE DOC20/4766	595 AND DOC20/	476695-1).				
				Samples					99 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-20	Aluminium	(mg/L)	Quarterly	1	8/7/2020	1.37	1.37	1.37				
Jul-20	Ammonia	(mg/L)	Quarterly	1	8/7/2020	0.44	0.44	0.44				
Jul-20	Arsenic (III)	(mg/L)	Quarterly	1	8/7/2020	<0.0050	<0.0050	<0.0050				
Jul-20	Arsenic (V)	(mg/L)	Quarterly	1	8/7/2020	<0.0050	<0.0050	<0.0050				
Jul-20	Cadmium	(mg/L)	Quarterly	1	8/7/2020	<0.0002	<0.0002	<0.0002				
Jul-20	Chromium (trivalent)	(mg/L)	Quarterly	1	8/7/2020	0.002	0.002	0.002				
Jul-20	Chromium (VI) Compounds	(mg/L)	Quarterly	1	8/7/2020	<0.001	< 0.001	<0.001				
Jul-20	Copper	(mg/L)	Quarterly	1	8/7/2020	0.003	0.003	0.003				
Jul-20	Electrical Conductivity	(us/cm)	Quarterly	1	8/7/2020	51700	51700	51700				
Jul-20	Iron	(mg/L)	Quarterly	1	8/7/2020	435	435	435				
Jul-20	Lead	(mg/L)	Quarterly	1	8/7/2020	0.0033	0.0033	0.0033				
Jul-20	Magnesium	(mg/L)	Quarterly	1	8/7/2020	1490	1490	1490				
Jul-20	Manganese	(mg/L)	Quarterly	1	8/7/2020	0.584	0.584	0.584				
Jul-20	Nickel	(mg/L)	Quarterly	1	8/7/2020	0.0044	0.0044	0.0044				
Jul-20	pH	pH	Quarterly	1	8/7/2020	6.24	6.24	6.24				
Jul-20	Potassium	(mg/L)	Quarterly	1	8/7/2020	340	340	340				
Jul-20	Selenium	(mg/L)	Quarterly	1	8/7/2020	0.002	0.002	0.002				
Jul-20	Sodium	(mg/L)	Quarterly	1	8/7/2020	10800	10800	10800				
Jul-20	Standing Water Level	(m)	Quarterly	1	8/7/2020	0.13	0.13	0.13				
Jul-20	Vanadium	(mg/L)	Quarterly	1	8/7/2020	0.004	0.004	0.004				
Jul-20	Zinc	(mg/L)	Quarterly	1	8/7/2020	0.054	0.054	0.054				

POINT 34	Groundwater quality monitoring bore marked and sh	own as EPA ID 33 on	The Plans ("VX837351-1 AND "VX83	37351-2" 03/0	06/2020 EPA REFER	ENCE DOC20/4766	95 AND DOC20/	476695-1).				
				Samples					99 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jul-20	Aluminium	(mg/L)	Quarterly	1	8/7/2020	2.63	2.63	2.63				
Jul-20	Ammonia	(mg/L)	Quarterly	1	8/7/2020	0.02	0.02	0.02				
Jul-20	Arsenic (III)	(mg/L)	Quarterly	1	8/7/2020	<0.0005	< 0.0005	<0.0005				
Jul-20	Arsenic (V)	(mg/L)	Quarterly	1	8/7/2020	<0.0005	<0.0005	<0.0005				
Jul-20	Cadmium	(mg/L)	Quarterly	1	8/7/2020	0.00006	0.00006	0.00006				
Jul-20	Chromium (trivalent)	(mg/L)	Quarterly	1	8/7/2020	0.005	0.005	0.005				
Jul-20	Chromium (VI) Compounds	(mg/L)	Quarterly	1	8/7/2020	<0.001	< 0.001	< 0.001				
Jul-20	Copper	(mg/L)	Quarterly	1	8/7/2020	0.0068	0.0068	0.0068				
Jul-20	Electrical Conductivity	(us/cm)	Quarterly	1	8/7/2020	1610	1610	1610				
Jul-20	Iron	(mg/L)	Quarterly	1	8/7/2020	4.92	4.92	4.92				
Jul-20	Lead	(mg/L)	Quarterly	1	8/7/2020	0.0053	0.0053	0.0053				
Jul-20	Magnesium	(mg/L)	Quarterly	1	8/7/2020	12	12	12				
Jul-20	Manganese	(mg/L)	Quarterly	1	8/7/2020	0.108	0.108	0.108				
Jul-20	Nickel	(mg/L)	Quarterly	1	8/7/2020	0.0083	0.0083	0.0083				
Jul-20	pH	pH	Quarterly	1	8/7/2020	5.53	5.53	5.53				
Jul-20	Potassium	(mg/L)	Quarterly	1	8/7/2020	2	2	2				
Jul-20	Selenium	(mg/L)	Quarterly	1	8/7/2020	0.0003	0.0003	0.0003				
Jul-20	Sodium	(mg/L)	Quarterly	1	8/7/2020	118	118	118				
Jul-20	Standing Water Level	(m)	Quarterly	1	8/7/2020	-0.05	-0.05	-0.05				
Jul-20	Vanadium	(mg/L)	Quarterly	1	8/7/2020	0.0111	0.0111	0.0111				
Jul-20	Zinc	(mg/L)	Quarterly	1	8/7/2020	0.054	0.054	0.054				

GENERAL COMMENTS

The EPA issued a new version of the Vales Point Power Station Environment Protection Licence on 23 July 2020. The new licence includes some additional analytes, changes to some sampling frequencies and changed sampling point ID's.