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	September 2020	
ADDRESS	VALES ROAD, MANNERING PARK NSW	



POINT 2 Combined air emissions from boiler 5 via Points 4 to 7 to Point 1 marked and shown as EPA ID 2 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
Sep-20	Cadmium	(mg/m3)	Every 6 months							0.2		
Sep-20	Chlorine	(mg/m3)	Every 6 months							20		
Sep-20	Fluorine	(mg/m3)	Every 6 months							30		
Sep-20	Hydrogen chloride	(mg/m3)	Every 6 months							50		
Sep-20	Mercury	(mg/m3)	Every 6 months							0.05		
Sep-20	Nitrogen Oxides	(mg/m3)	Continuous	100%	Sep-20	395	556	722	1100	1500	No	
Sep-20	Solid Particles	(mg/m3)	Quarterly							50		
Sep-20	Sulfur dioxide	(mg/m3)	Continuous	100%	Sep-20	496	630	924	1400	1700	No	
Sep-20	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							100		
Sep-20	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.75		
Sep-20	VOC's as n-propane equivalent	(mg/m3)	Every 6 months							10		

POINT 3	Combined air emissions from boiler 6 via Points 8 to	11 to Point 1 marked	and shown as EPA ID 3 on The Plan	s ("VX837351-	1 AND "VX837351	-2" 03/06/2020 EF	A REFERENCE D	DC20/476695 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
Sep-20	Cadmium	(mg/m3)	Every 6 months							0.2		
Sep-20	Chlorine	(mg/m3)	Every 6 months							20		
Sep-20	Fluorine	(mg/m3)	Every 6 months							30		
Sep-20	Hydrogen chloride	(mg/m3)	Every 6 months							50		
Sep-20	Mercury	(mg/m3)	Every 6 months							0.05		
Sep-20	Nitrogen Oxides	(mg/m3)	Continuous	100%	Sep-20	429	674	882	1100	1500	No	The 99th percentile limit does not apply until 31/1/2021
Sep-20	Solid Particles	(mg/m3)	Quarterly							50		
Sep-20	Sulfur dioxide	(mg/m3)	Continuous	100%	Sep-20	376	562	658	1400	1700	No	
Sep-20	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							100		
Sep-20	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.75		
Sep-20	VOC's as n-propane equivalent	(mg/m3)	Every 6 months							10		

POINT 4	Boiler number 5 exhaust - duct A marked and show	n as EPA ID 4 on The P	lans ("VX837351-1 AND "VX837351-	2" 03/06/202	0 EPA REFERENCE	DOC20/476695 AN	ND 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
Sep-20	Cadmium	(mg/m3)	Every 6 months									
Sep-20	Carbon dioxide	(%)	Every 6 months									
Sep-20	Chlorine	(mg/m3)	Every 6 months									
Sep-20	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Sep-20	Fluorine	(mg/m3)	Every 6 months									
Sep-20	Hydrogen chloride	(mg/m3)	Every 6 months									
Sep-20	Mercury	(mg/m3)	Every 6 months									
Sep-20	Moisture	(%)	Continuous									Not required until 31 October 2021
Sep-20	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Sep-20	Solid Particles	(mg/m3)	Quarterly									
Sep-20	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months									
Sep-20	Temperature	(°C)	Continuous									Not required until 31 October 2021
Sep-20	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									
Sep-20	VOC's as n-propane equivalent	(mg/m3)	Every 6 months									

POINT 5	Boiler number 5 exhaust - duct B marked and show	n as EPA ID 5 on The P	lans ("VX837351-1 AND "VX837351-	2" 03/06/202	0 EPA REFERENCE	DOC20/476695 AN	D 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
Sep-20	Cadmium	(mg/m3)	Every 6 months									
Sep-20	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Sep-20	Mercury	(mg/m3)	Every 6 months									
Sep-20	Moisture	(%)	Continuous									Not required until 31 October 2021
Sep-20	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Sep-20	Solid Particles	(mg/m3)	Quarterly									
Sep-20	Temperature	(°C)	Continuous									Not required until 31 October 2021
Sep-20	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									

POINT 6 Boiler number 5 exhaust - duct C marked and shown as EPA ID 6 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
Sep-20	Cadmium	(mg/m3)	Every 6 months									
Sep-20	Carbon dioxide	(%)	Every 6 months									
Sep-20	Chlorine	(mg/m3)	Every 6 months									
Sep-20	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Sep-20	Fluorine	(mg/m3)	Every 6 months									
Sep-20	Hydrogen chloride	(mg/m3)	Every 6 months									
Sep-20	Mercury	(mg/m3)	Every 6 months									
Sep-20	Moisture	(%)	Continuous									Not required until 31 October 2021
Sep-20	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Sep-20	Solid Particles	(mg/m3)	Quarterly									
Sep-20	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months									
Sep-20	Temperature	(°C)	Continuous									Not required until 31 October 2021
Sep-20	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									
Sep-20	VOC's as n-propane equivalent	(mg/m3)	Every 6 months									

POINT 7 Boiler number 5 exhaust - duct D marked and shown as EPA ID 7 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
Sep-20	Cadmium	(mg/m3)	Every 6 months									
Sep-20	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Sep-20	Mercury	(mg/m3)	Every 6 months									
Sep-20	Moisture	(%)	Continuous									Not required until 31 October 2021
Sep-20	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Sep-20	Solid Particles	(mg/m3)	Quarterly									
Sep-20	Temperature	(°C)	Continuous									Not required until 31 October 2021
Sep-20	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									

PUINT 6	boller number o exhaust - duct A marked and shown	as LFA ID 8 UIT THE F	1113 V V V V V V V V V V V V V V V V V V	2 03/00/202	O LFA KEFEKENCE	D0C20/470033 AN	D D0C20/4/003.	3- 1 <i>j</i> .				
				Samples Collected &		Lowest Sample	Mean of	Highest Sample		100 Percentile Concentration		
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Sep-20	Cadmium	(mg/m3)	Every 6 months									
Sep-20	Carbon dioxide	(%)	Every 6 months									
Sep-20	Chlorine	(mg/m3)	Every 6 months									
Sep-20	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Sep-20	Fluorine	(mg/m3)	Every 6 months									
Sep-20	Hydrogen chloride	(mg/m3)	Every 6 months									
Sep-20	Mercury	(mg/m3)	Every 6 months									
Sep-20	Moisture	(%)	Continuous									Not required until 31 October 2021
Sep-20	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Sep-20	Solid Particles	(mg/m3)	Quarterly									
Sep-20	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months									
Sep-20	Temperature	(°C)	Continuous									Not required until 31 October 2021
Sep-20	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									
Sep-20	VOC's as n-propane equivalent	(mg/m3)	Every 6 months									

POINT 9	"VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

101113	boller humber o exhaust - duct b marked and show		415 1 1.007 551 1 AND V/(057551-		C LI JI MEI ERENCE	50020, 170055 A	12 20020/4/005	5 <u>- 1</u> .				
				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
Sep-20	Cadmium	(mg/m3)	Every 6 months									
Sep-20	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Sep-20	Mercury	(mg/m3)	Every 6 months									
Sep-20	Moisture	(%)	Continuous									Not required until 31 October 2021
Sep-20	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Sep-20	Solid Particles	(mg/m3)	Quarterly									
Sep-20	Temperature	(°C)	Continuous									Not required until 31 October 2021
Sep-20	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									

POINT 10 Boiler number 6 exhaust - duct C marked and shown as EPA ID 10 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
Sep-20	Cadmium	(mg/m3)	Every 6 months									
Sep-20	Carbon dioxide	(%)	Every 6 months									
Sep-20	Chlorine	(mg/m3)	Every 6 months									
Sep-20	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Sep-20	Fluorine	(mg/m3)	Every 6 months									
Sep-20	Hydrogen chloride	(mg/m3)	Every 6 months									
Sep-20	Mercury	(mg/m3)	Every 6 months									
Sep-20	Moisture	(%)	Continuous									Not required until 31 October 2021
Sep-20	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Sep-20	Solid Particles	(mg/m3)	Quarterly									
Sep-20	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months									
Sep-20	Temperature	(°C)	Continuous									Not required until 31 October 2021
Sep-20	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									
Sep-20	VOC's as n-propane equivalent	(mg/m3)	Every 6 months									

POINT 11 Boiler number 6 exhaust - duct D marked and shown as EPA ID 11 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

				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
Sep-20	Cadmium	(mg/m3)	Every 6 months									
Sep-20	Flow rate	(m3/s)	Continuous									Not required until 31 October 2021
Sep-20	Mercury	(mg/m3)	Every 6 months									
Sep-20	Moisture	(%)	Continuous									Not required until 31 October 2021
Sep-20	Oxygen (O2)	(%)	Continuous									Not required until 31 October 2021
Sep-20	Solid Particles	(mg/m3)	Quarterly									
Sep-20	Temperature	(°C)	Continuous									Not required until 31 October 2021
Sep-20	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									

POINT 12 Boiler number 5 combined exhaust - duct A and B (points 4 and 5) marked and shown as EPA ID 12 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
Sep-20	Nitrogen Oxides	(mg/m3)	Continuous	100%	Sep-20	360	519	692			No	
Sep-20	Sulfur dioxide	(mg/m3)	Continuous	100%	Sep-20	435	554	854			No	

POINT 13 Boiler number 5 combined exhaust - duct C and D (points 6 and 7) marked and shownas EPA ID 13 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

				Samples Collected &		Lowest Comple	Mean of	Highest Sample	99 Percentile		Evenedence	
						Lowest Sample		· ·				
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Sep-20	Nitrogen Oxides	(mg/m3)	Continuous	100%	Sep-20	430	592	887			No	
Sep-20	Sulfur dioxide	(mg/m3)	Continuous	100%	Sep-20	550	706	995			No	

POINT 14	Boiler number 6 combined exhaust - duct A and B (points 8 and 9) marked and shownas EPA ID 14 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		
Sep-20	Nitrogen Oxides	(mg/m3)	Continuous	100%	Sep-20	349	620	849			No			
Sep-20	Sulfur dioxide	(mg/m3)	Continuous	100%	Sep-20	398	575	682			No			

POINT 15 Boiler number 6 combined exhaust - duct C and D (points 10 and 11) marked and shownas EPA ID 12 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

				Samples Collected &		Lowest Sample	Mean of	Highest Sample	99 Percentile Concentration			
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Sep-20	Nitrogen Oxides	(mg/m3)	Continuous	100%	Sep-20	510	729	919			No	
Sep-20	Sulfur dioxide	(mg/m3)	Continuous	100%	Sep-20	354	548	664			No	

POINT 22	Discharge of cooling water from the cooling water outlet canal to Wyee Bay marked and shown as EPA ID 22 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).													
				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		
Sep-20	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	7/9/2020	<0.1	<0.1	<0.1		0.2	No			
Sep-20	Copper	(mg/L)	Monthly during discharge	1	7/9/2020	0.003	0.003	0.003		0.005	No			
Sep-20	Iron	(mg/L)	Monthly during discharge	1	7/9/2020	0.098	0.098	0.098		0.3	No			
Sep-20	Oil and Grease	Visible	Continuous during discharge	100%	Sep-20	NIL	NIL	NIL						
Sep-20	Selenium	(mg/L)	Monthly during discharge	1	7/9/2020	0.002	0.002	0.002		0.005	No			
Sep-20	Temperature	(°C)	Continuous during discharge	100%	Sep-20	19.3	26.0	32.9	35	37.5	No			

POINT 23													
				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	
Sep-20	Aluminium	(mg/L)	Monthly during discharge	1	7/9/2020	0.044	0.044	0.044					
Sep-20	Ammonia	(mg/L)	Monthly during discharge	1	7/9/2020	0.17	0.17	0.17					
Sep-20	Arsenic (III)	(mg/L)	Monthly during discharge	1	7/9/2020	0.0012	0.0012	0.0012					
Sep-20	Arsenic (V)	(mg/L)	Monthly during discharge	1	7/9/2020	0.0016	0.0016	0.0016					
Sep-20	Cadmium	(mg/L)	Monthly during discharge	1	7/9/2020	< 0.0002	<0.0002	< 0.0002					
Sep-20	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	7/9/2020	< 0.001	<0.001	< 0.001					
Sep-20	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	7/9/2020	0.008	0.008	0.008					
Sep-20	Copper	(mg/L)	Monthly during discharge	1	7/9/2020	0.001	0.001	0.001					
Sep-20	Iron	(mg/L)	Monthly during discharge	1	7/9/2020	0.04	0.04	0.04					
Sep-20	Lead	(mg/L)	Monthly during discharge	1	7/9/2020	0.0002	0.0002	0.0002					
Sep-20	Manganese	(mg/L)	Monthly during discharge	1	7/9/2020	0.009	0.009	0.009					
Sep-20	Nickel	(mg/L)	Monthly during discharge	1	7/9/2020	0.0007	0.0007	0.0007					
Sep-20	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	7/9/2020	0.08	0.08	0.08					
Sep-20	Nitrogen	(mg/L)	Monthly during discharge	1	7/9/2020	0.70	0.70	0.70					
Sep-20	рН	рН	Monthly during discharge	1	7/9/2020	8.15	8.15	8.15		6.5 - 9.5	No		
Sep-20	Phosphorus	(mg/L)	Monthly during discharge	1	7/9/2020	0.1	0.1	0.1					
Sep-20	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	7/9/2020	0.01	0.01	0.01					
Sep-20	Selenium	(mg/L)	Monthly during discharge	1	7/9/2020	0.030	0.030	0.030					
Sep-20	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	7/9/2020	0.6	0.6	0.6					
Sep-20	Total Suspended Solids	(mg/L)	Monthly during discharge	1	7/9/2020	2	2	2		50	No		
Sep-20	Vanadium	(mg/L)	Monthly during discharge	1	7/9/2020	0.0202	0.0202	0.0202					
Sep-20	Zinc	(mg/L)	Monthly during discharge	1	7/9/2020	< 0.005	<0.005	< 0.005					

POINT 24	Discharge of seepage water from the ash dam rehabilitation area to Mannering Bay marked and shown as EPA ID 24 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1)	

POINT 24												
				Samples					Discharge	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	(yes/no)	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	(yes/110)	Limit	(yes/no)	Comments
Sep-20	Aluminium	(mg/L)	Monthly during discharge	1	7/9/2020				No			
Sep-20	Ammonia	(mg/L)	Monthly during discharge	1	7/9/2020				No			
Sep-20	Arsenic (III)	(mg/L)	Monthly during discharge	1	7/9/2020				No			
Sep-20	Arsenic (V)	(mg/L)	Monthly during discharge	1	7/9/2020				No			
Sep-20	Cadmium	(mg/L)	Monthly during discharge	1	7/9/2020				No			
Sep-20	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	7/9/2020				No			
Sep-20	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	7/9/2020				No			
Sep-20	Copper	(mg/L)	Monthly during discharge	1	7/9/2020				No			
Sep-20	Iron	(mg/L)	Monthly during discharge	1	7/9/2020				No			
Sep-20	Lead	(mg/L)	Monthly during discharge	1	7/9/2020				No			
Sep-20	Manganese	(mg/L)	Monthly during discharge	1	7/9/2020				No			No discharge from EPA Point 24 during September 2020
Sep-20	Nickel	(mg/L)	Monthly during discharge	1	7/9/2020				No			
Sep-20	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	7/9/2020				No			
Sep-20	Nitrogen	(mg/L)	Monthly during discharge	1	7/9/2020				No			
Sep-20	pH	рН	Monthly during discharge	1	7/9/2020				No	6.5 - 9.5		
Sep-20	Phosphorus	(mg/L)	Monthly during discharge	1	7/9/2020				No			
Sep-20	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	7/9/2020				No			
Sep-20	Selenium	(mg/L)	Monthly during discharge	1	7/9/2020				No			
Sep-20	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	7/9/2020				No			
Sep-20	Total Suspended Solids	(mg/L)	Monthly during discharge	1	7/9/2020				No	50		
Sep-20	Vanadium	(mg/L)	Monthly during discharge	1	7/9/2020				No			
Sep-20	Zinc	(mg/L)	Monthly during discharge	1	7/9/2020				No			

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					Discharge	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	(yes/no)	Concentration		
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	(903/110)	Limit	(yes/no)	Comments
Sep-20	Aluminium	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-20	Ammonia	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-20	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-20	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-20	Cadmium	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-20	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-20	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-20	Copper	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-20	Iron	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-20	Lead	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-20	Manganese	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-20	Nickel	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-20	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-20	Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-20	рН	pН	Daily for any discharge >2 hrs						No	6.5 - 9.5	No	
Sep-20	Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-20	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-20	Selenium	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-20	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-20	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs						No	50	No	
Sep-20	Vanadium	(mg/L)	Daily for any discharge >2 hrs						No			
Sep-20	Zinc	(mg/L)	Daily for any discharge >2 hrs						No			

POINT 30 Groundwater quality monitoring bore marked and shown as EPA ID 30 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

POINT 30	Groundwater quality monitoring bore marked and s	hown as EPA ID 30 on	The Plans ("VX837351-1 AND "VX8	37351-2" 03/0	06/2020 EPA REFE	RENCE DOC20/476	695 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
Sep-20	Aluminium	(mg/L)	Quarterly									
Sep-20	Ammonia	(mg/L)	Quarterly									
Sep-20	Arsenic (III)	(mg/L)	Quarterly									
Sep-20	Arsenic (V)	(mg/L)	Quarterly									
Sep-20	Cadmium	(mg/L)	Quarterly									
Sep-20	Chromium (trivalent)	(mg/L)	Quarterly									
Sep-20	Chromium (VI) Compounds	(mg/L)	Quarterly									
Sep-20	Copper	(mg/L)	Quarterly									
Sep-20	Electrical Conductivity	(us/cm)	Quarterly									
Sep-20	Iron	(mg/L)	Quarterly									
Sep-20	Lead	(mg/L)	Quarterly									(next quarterly sample scheduled for October 2020)
Sep-20	Magnesium	(mg/L)	Quarterly									
Sep-20	Manganese	(mg/L)	Quarterly									
Sep-20	Nickel	(mg/L)	Quarterly									
Sep-20	рН	pН	Quarterly									
Sep-20	Potassium	(mg/L)	Quarterly									
Sep-20	Selenium	(mg/L)	Quarterly									
Sep-20	Sodium	(mg/L)	Quarterly									
Sep-20	Standing Water Level	(m)	Quarterly									
Sep-20	Vanadium	(mg/L)	Quarterly									
Sep-20	Zinc	(mg/L)	Quarterly									

POINT 31													
				Samples Collected &		Lowest Sample		Highest Sample	Concentration				
Month	Pollutant		Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments	
Sep-20	Aluminium	(mg/L)	Quarterly										
Sep-20	Ammonia	(mg/L)	Quarterly										
Sep-20	Arsenic (III)	(mg/L)	Quarterly										
Sep-20	Arsenic (V)	(mg/L)	Quarterly										
Sep-20	Cadmium	(mg/L)	Quarterly										
Sep-20	Chromium (trivalent)	(mg/L)	Quarterly										
Sep-20	Chromium (VI) Compounds	(mg/L)	Quarterly										
Sep-20	Copper	(mg/L)	Quarterly										
Sep-20	Electrical Conductivity	(us/cm)	Quarterly										
Sep-20	Iron	(mg/L)	Quarterly										
Sep-20	Lead	(mg/L)	Quarterly									(next quarterly sample scheduled for October 2020)	
Sep-20	Magnesium	(mg/L)	Quarterly										
Sep-20	Manganese	(mg/L)	Quarterly										
Sep-20	Nickel	(mg/L)	Quarterly										
Sep-20	рН	pН	Quarterly										
Sep-20	Potassium	(mg/L)	Quarterly										
Sep-20	Selenium	(mg/L)	Quarterly										
Sep-20	Sodium	(mg/L)	Quarterly										
Sep-20	Standing Water Level	(m)	Quarterly										
Sep-20	Vanadium	(mg/L)	Quarterly										
Sep-20	Zinc	(mg/L)	Quarterly										

POINT 32 Groundwater quality monitoring bore marked and shown as EPA ID 32 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

POINT 32	Groundwater quality monitoring bore marked and sh	iown as EPA ID 32 on	The Plans ("VX837351-1 AND "VX8	3/351-2" 03/0	06/2020 EPA REFER	ENCE DOC20/4/6	95 AND DOC20/	476695-1).				
				Samples						100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample		Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Sep-20	Aluminium	(mg/L)	Quarterly									
Sep-20	Ammonia	(mg/L)	Quarterly									
Sep-20	Arsenic (III)	(mg/L)	Quarterly									
Sep-20	Arsenic (V)	(mg/L)	Quarterly									
Sep-20	Cadmium	(mg/L)	Quarterly									
Sep-20	Chromium (trivalent)	(mg/L)	Quarterly									
Sep-20	Chromium (VI) Compounds	(mg/L)	Quarterly									
Sep-20	Copper	(mg/L)	Quarterly									
Sep-20	Electrical Conductivity	(us/cm)	Quarterly									
Sep-20	Iron	(mg/L)	Quarterly									
Sep-20	Lead	(mg/L)	Quarterly									(next quarterly sample scheduled for October 2020)
Sep-20	Magnesium	(mg/L)	Quarterly									
Sep-20	Manganese	(mg/L)	Quarterly									
Sep-20	Nickel	(mg/L)	Quarterly									
Sep-20	pH	рН	Quarterly									
Sep-20	Potassium	(mg/L)	Quarterly									
Sep-20	Selenium	(mg/L)	Quarterly									
Sep-20	Sodium	(mg/L)	Quarterly									
Sep-20	Standing Water Level	(m)	Quarterly									
Sep-20	Vanadium	(mg/L)	Quarterly									
Sep-20	Zinc	(mg/L)	Quarterly									

POINT 33	POINT 33 Groundwater quality monitoring bore marked and shown as EPA ID 33 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).											
				Samples Collected &		Lowest Sample	Mean of	Highest Sample		100 Percentile Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Sep-20	Aluminium	(mg/L)	Quarterly									
Sep-20	Ammonia	(mg/L)	Quarterly									
Sep-20	Arsenic (III)	(mg/L)	Quarterly									
Sep-20	Arsenic (V)	(mg/L)	Quarterly									
Sep-20	Cadmium	(mg/L)	Quarterly									
Sep-20	Chromium (trivalent)	(mg/L)	Quarterly									
Sep-20	Chromium (VI) Compounds	(mg/L)	Quarterly									
Sep-20	Copper	(mg/L)	Quarterly									
Sep-20	Electrical Conductivity	(us/cm)	Quarterly									
Sep-20	Iron	(mg/L)	Quarterly									
Sep-20	Lead	(mg/L)	Quarterly									(next quarterly sample scheduled for October 2020)
Sep-20	Magnesium	(mg/L)	Quarterly									
Sep-20	Manganese	(mg/L)	Quarterly									
Sep-20	Nickel	(mg/L)	Quarterly									
Sep-20	рН	рН	Quarterly									
Sep-20	Potassium	(mg/L)	Quarterly									
Sep-20	Selenium	(mg/L)	Quarterly									
Sep-20	Sodium	(mg/L)	Quarterly									
Sep-20	Standing Water Level	(m)	Quarterly									
Sep-20	Vanadium	(mg/L)	Quarterly									
Sep-20	Zinc	(mg/L)	Quarterly									

POINT 34 Groundwater quality monitoring bore marked and shown as EPA ID 33 on The Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).

Vonth	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
Sep-20	Aluminium	(mg/L)	Quarterly								()/	
ep-20	Ammonia	(mg/L)	Quarterly									
Sep-20	Arsenic (III)	(mg/L)	Quarterly									
ep-20	Arsenic (V)	(mg/L)	Quarterly									
ep-20	Cadmium	(mg/L)	Quarterly									
ep-20	Chromium (trivalent)	(mg/L)	Quarterly									
ep-20	Chromium (VI) Compounds	(mg/L)	Quarterly									
ep-20	Copper	(mg/L)	Quarterly									
ep-20	Electrical Conductivity	(us/cm)	Quarterly									
ep-20	Iron	(mg/L)	Quarterly									(next quarterly sample scheduled for October 2020)
ep-20	Lead	(mg/L)	Quarterly									
ep-20	Magnesium	(mg/L)	Quarterly									
Sep-20	Manganese	(mg/L)	Quarterly									
Sep-20	Nickel	(mg/L)	Quarterly									
ep-20	рН	рН	Quarterly									
ep-20	Potassium	(mg/L)	Quarterly									
ep-20	Selenium	(mg/L)	Quarterly									
ep-20	Sodium	(mg/L)	Quarterly									
ep-20	Standing Water Level	(m)	Quarterly									
ep-20	Vanadium	(mg/L)	Quarterly									
ep-20	Zinc	(mg/L)	Quarterly									

GENERAL COMMENTS