# 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	January 2023	
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 Exceed Collected 8 **Date Sampled** Lowest Sample Mean of **Highest Sample** Concentration Concentration 100% Limit Month Pollutant Unit of Measure Sample/Measurement Frequency Analysed Value Value Limit (yes/no) Comments Samples Limit Jan-23 Cadmium (mg/m3) Every 6 months 0.2 Jan-23 Chlorine (mg/m3) Every 6 months 20 Jan-23 Fluorine (mg/m3) Every 6 months 30 Every 6 months 50 Jan-23 Hydrogen chloride (mg/m3) Mercury 0.05 Jan-23 (mg/m3) Every 6 months 93.4% Jan-23 397 633 730 850 980 No Jan-23 Nitrogen Oxides (mg/m3) Continuous Jan-23 Solid Particles (mg/m3) Quarterly 50 Jan-23 Sulfur dioxide (mg/m3) Continuous 93.4% Jan-23 587 854 1277 1400 1700 No Sulfuric acid mist and sulfur trioxide (as SO3) Jan-23 (mg/m3) 100 Every 6 months Jan-23 Type 1 and Type 2 substances in aggregate (mg/m3) Every 6 months 0.75 VOC's as n-propane equivalent (mg/m3) Jan-23 10 Every 6 months

POINT 3	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 Plans ("VX837351-1 AND "VX837351-2" 03/06/2020 EPA REFERENCE DOC20/476695 AND DOC20/476695-1).													
				Samples					99 Percentile	100 Percentile	Exceed			
				Collected &		Lowest Sample	Mean of	<b>Highest Sample</b>	Concentration	Concentration	100% Limit			
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments		
Jan-23	Cadmium	(mg/m3)	Every 6 months							0.2				
Jan-23	Chlorine	(mg/m3)	Every 6 months							20				
Jan-23	Fluorine	(mg/m3)	Every 6 months							30				
Jan-23	Hydrogen chloride	(mg/m3)	Every 6 months							50				
Jan-23	Mercury	(mg/m3)	Every 6 months							0.05				
Jan-23	Nitrogen Oxides	(mg/m3)	Continuous	99.6%	Jan-23	289	602	709	850	980	No			
Jan-23	Solid Particles	(mg/m3)	Quarterly							50				
Jan-23	Sulfur dioxide	(mg/m3)	Continuous	99.6%	Jan-23	457	892	1322	1400	1700	No			
Jan-23	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months							100				
Jan-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months							0.75				
Jan-23	VOC's as n-propane equivalent	(mg/m3)	Every 6 months							10				

POINT 4 Boiler number 5 exhaust - duct A marked and shown as EPA ID 4 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
Jan-23	Cadmium	(mg/m3)	Every 6 months									
Jan-23	Carbon dioxide	(%)	Every 6 months									
Jan-23	Chlorine	(mg/m3)	Every 6 months									
Jan-23	Fluorine	(mg/m3)	Every 6 months									
Jan-23	Hydrogen chloride	(mg/m3)	Every 6 months									
Jan-23	Mercury	(mg/m3)	Every 6 months									
Jan-23	Solid Particles	(mg/m3)	Quarterly									
Jan-23	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months									
Jan-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									
Jan-23	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 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	<b>Highest Sample</b>	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jan-23	Cadmium	(mg/m3)	Every 6 months									
Jan-23	Mercury	(mg/m3)	Every 6 months									
Jan-23	Solid Particles	(mg/m3)	Quarterly									
Jan-23	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	<b>Highest Sample</b>	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jan-23	Cadmium	(mg/m3)	Every 6 months									
Jan-23	Carbon dioxide	(%)	Every 6 months									
Jan-23	Chlorine	(mg/m3)	Every 6 months									
Jan-23	Fluorine	(mg/m3)	Every 6 months									
Jan-23	Hydrogen chloride	(mg/m3)	Every 6 months									
Jan-23	Mercury	(mg/m3)	Every 6 months									
Jan-23	Solid Particles	(mg/m3)	Quarterly									
Jan-23	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months									
Jan-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									
Jan-23	VOC's as n-propane equivalent	(mg/m3)	Every 6 months									

POINT 7	Boiler number 5 exhaust - duct D marked and sho	wn as EPA ID 7 on Th	ne Plans ("VX837351-1 AND "VX8373	51-2" 03/06/2	020 EPA REFEREN	ICE DOC20/47669	5 AND DOC20/47	/6695-1).				
				Samples					99 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	<b>Highest Sample</b>	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jan-23	Cadmium	(mg/m3)	Every 6 months									
Jan-23	Mercury	(mg/m3)	Every 6 months									
Jan-23	Solid Particles	(mg/m3)	Quarterly									
Jan-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									

POINT 8 Boiler number 6 exhaust - duct A marked and shown as EPA ID 8 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	<b>Highest Sample</b>	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jan-23	Cadmium	(mg/m3)	Every 6 months									
Jan-23	Carbon dioxide	(%)	Every 6 months									
Jan-23	Chlorine	(mg/m3)	Every 6 months									
Jan-23	Fluorine	(mg/m3)	Every 6 months									
Jan-23	Hydrogen chloride	(mg/m3)	Every 6 months									
Jan-23	Mercury	(mg/m3)	Every 6 months									
Jan-23	Solid Particles	(mg/m3)	Quarterly									
Jan-23	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months									
Jan-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									
Jan-23	VOC's as n-propane equivalent	(mg/m3)	Every 6 months									

#### POINT 9 Boiler number 6 exhaust - duct B marked and shown as EPA ID 9 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	100 Percentile Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jan-23	Cadmium	(mg/m3)	Every 6 months									
Jan-23	Mercury	(mg/m3)	Every 6 months									
Jan-23	Solid Particles	(mg/m3)	Quarterly									
Jan-23	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	<b>Highest Sample</b>	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jan-23	Cadmium	(mg/m3)	Every 6 months									
Jan-23	Carbon dioxide	(%)	Every 6 months									
Jan-23	Chlorine	(mg/m3)	Every 6 months									
Jan-23	Fluorine	(mg/m3)	Every 6 months									
Jan-23	Hydrogen chloride	(mg/m3)	Every 6 months									
Jan-23	Mercury	(mg/m3)	Every 6 months									
Jan-23	Solid Particles	(mg/m3)	Quarterly									
Jan-23	Sulfuric acid mist and sulfur trioxide (as SO3)	(mg/m3)	Every 6 months									
Jan-23	Type 1 and Type 2 substances in aggregate	(mg/m3)	Every 6 months									
Jan-23	VOC's as n-propane equivalent	(mg/m3)	Every 6 months									

POINT 11	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					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		
Jan-23	Cadmium	(mg/m3)	Every 6 months											
Jan-23	Mercury	(mg/m3)	Every 6 months											
Jan-23	Solid Particles	(mg/m3)	Quarterly											
Jan-23	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	iviean of	Hignest Sample	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jan-23	Nitrogen Oxides	(mg/m3)	Continuous	92.4%	Jan-23	319	596	693			N/A	
Jan-23	Sulfur dioxide	(mg/m3)	Continuous	92.4%	Jan-23	528	785	1168			N/A	

## 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 Sample	Mean of	Highest Sample	99 Percentile Concentration	100 Percentile Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jan-23	Nitrogen Oxides	(mg/m3)	Continuous	94.5%	Jan-23	344	670	800			N/A	
Jan-23	Sulfur dioxide	(mg/m3)	Continuous	94.5%	Jan-23	614	922	1385			N/A	

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	<b>Highest Sample</b>	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jan-23	Nitrogen Oxides	(mg/m3)	Continuous	99.6%	Jan-23	334	650	792			N/A	
Jan-23	Sulfur dioxide	(mg/m3)	Continuous	99.6%	Jan-23	439	913	1350			N/A	

## 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					99 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	<b>Highest Sample</b>	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jan-23	Nitrogen Oxides	(mg/m3)	Continuous	99.6%	Jan-23	244	555	718			N/A	
Jan-23	Sulfur dioxide	(mg/m3)	Continuous	99.6%	Jan-23	475	870	1294			N/A	

POINT 22	Discharge of cooling water from the cooling wate	r outlet canal to Wye	e Bay marked and shown as EPA ID 2	2 on The Plans	("VX837351-1 AI	ND "VX837351-2"	03/06/2020 EPA	A REFERENCE DOC2	0/476695 AND I	00C20/476695-1	).	
				Samples Collected &		Lowest Sample	Mean of	Highest Sample	98.5 Percentile Concentration	100 Percentile Concentration	Exceed 100%	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	Limit (yes/no)	Comments
Jan-23	Chlorine (free residual)	(mg/L)	Monthly during discharge	1	4/01/2023	<0.1	<0.1	<0.1		0.2	No	
Jan-23	Copper	(mg/L)	Monthly during discharge	1	4/01/2023	0.002	0.002	0.002		0.005	No	
Jan-23	Iron	(mg/L)	Monthly during discharge	1	4/01/2023	0.120	0.120	0.120		0.3	No	
Jan-23	Oil and Grease	Visible	Continuous during discharge	100%	Jan-23	NIL	NIL	NIL				
Jan-23	Selenium	(mg/L)	Monthly during discharge	1	4/01/2023	0.001	0.001	0.001		0.005	No	
Jan-23	Temperature	(°C)	Continuous during discharge	100%	Jan-23	26.8	31.3	36.2	35	37.5	No	

POINT 23	Discharge of supernatant water from the ash dam	to the cooling wate	r outlet canal to Wyee Bay marked ar	nd shown as EF	PA ID 23 on The Pl	ans ("VX837351-1	AND "VX837351	1-2" 03/06/2020 E	POINT 23 Discharge of supernatant water from the ash dam to the cooling water outlet canal to Wyee Bay marked and shown as EPA ID 23 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	<b>Highest Sample</b>	Concentration	Concentration	Exceedance											
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments										
Jan-23	Aluminium	(mg/L)	Monthly during discharge	1	4/01/2023	0.05	0.05	0.05														
Jan-23	Ammonia	(mg/L)	Monthly during discharge	1	4/01/2023	0.2	0.2	0.2														
Jan-23	Arsenic (III)	(mg/L)	Monthly during discharge	1	4/01/2023	< 0.001	< 0.001	< 0.001														
Jan-23	Arsenic (V)	(mg/L)	Monthly during discharge	1	4/01/2023	0.016	0.016	0.016														
Jan-23	Cadmium	(mg/L)	Monthly during discharge	1	4/01/2023	< 0.0002	< 0.0002	< 0.0002														
Jan-23	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	4/01/2023	<0.005	< 0.005	< 0.005														
Jan-23	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	4/01/2023	0.020	0.020	0.020														
Jan-23	Copper	(mg/L)	Monthly during discharge	1	4/01/2023	0.001	0.001	0.001														
Jan-23	Iron	(mg/L)	Monthly during discharge	1	4/01/2023	0.051	0.051	0.051														
Jan-23	Lead	(mg/L)	Monthly during discharge	1	4/01/2023	< 0.001	< 0.001	< 0.001														
Jan-23	Manganese	(mg/L)	Monthly during discharge	1	4/01/2023	<0.005	<0.005	< 0.005														
Jan-23	Nickel	(mg/L)	Monthly during discharge	1	4/01/2023	0.045	0.045	0.045														
Jan-23	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	4/01/2023	0.01	0.01	0.01														
Jan-23	Nitrogen	(mg/L)	Monthly during discharge	1	4/01/2023	0.50	0.50	0.50														
Jan-23	рН	рН	Monthly during discharge	1	4/01/2023	8.21	8.21	8.21		6.5 - 9.5	No											
Jan-23	Phosphorus	(mg/L)	Monthly during discharge	1	4/01/2023	<0.05	<0.05	< 0.05														
Jan-23	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	4/01/2023	0.09	0.09	0.09														
Jan-23	Selenium	(mg/L)	Monthly during discharge	1	4/01/2023	0.098	0.098	0.098														
Jan-23	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	4/01/2023	0.5	0.5	0.5														
Jan-23	Total Suspended Solids	(mg/L)	Monthly during discharge	1	4/01/2023	<5	<5	<5		50	No											
Jan-23	Vanadium	(mg/L)	Monthly during discharge	1	4/01/2023	0.15	0.15	0.15														
Jan-23	Zinc	(mg/L)	Monthly during discharge	1	4/01/2023	0.012	0.012	0.012														

# 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).

1011124	Discharge of seepage water from the ash dam ren	abilitation area to it	annering buy marked and shown as		ne 1 lans ( 17.057.	551-1 AND \$7.057	331-2 03/00/2	LOZO EI A REI EREIR	E DOC20/4/003	SAND DOCLO/4	0055-11.	
				Samples					Discharge	100 Percentile		
				Collected &		Lowest Sample	Mean of	Highest Sample	Discharge	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	(yes/no)	Limit	(yes/no)	Comments
Jan-23	Aluminium	(mg/L)	Monthly during discharge	1	4/01/2023				No			
Jan-23	Ammonia	(mg/L)	Monthly during discharge	1	4/01/2023				No			
Jan-23	Arsenic (III)	(mg/L)	Monthly during discharge	1	4/01/2023				No			
Jan-23	Arsenic (V)	(mg/L)	Monthly during discharge	1	4/01/2023				No			
Jan-23	Cadmium	(mg/L)	Monthly during discharge	1	4/01/2023				No			
Jan-23	Chromium (trivalent)	(mg/L)	Monthly during discharge	1	4/01/2023				No			
Jan-23	Chromium (VI) Compounds	(mg/L)	Monthly during discharge	1	4/01/2023				No			
Jan-23	Copper	(mg/L)	Monthly during discharge	1	4/01/2023				No			
Jan-23	Iron	(mg/L)	Monthly during discharge	1	4/01/2023				No			
Jan-23	Lead	(mg/L)	Monthly during discharge	1	4/01/2023				No			
Jan-23	Manganese	(mg/L)	Monthly during discharge	1	4/01/2023				No			No discharge from EPA Point 24 during January 2023
Jan-23	Nickel	(mg/L)	Monthly during discharge	1	4/01/2023				No			
Jan-23	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Monthly during discharge	1	4/01/2023				No			
Jan-23	Nitrogen	(mg/L)	Monthly during discharge	1	4/01/2023				No			
Jan-23	pH	pH	Monthly during discharge	1	4/01/2023				No	6.5 - 9.5	No	
Jan-23	Phosphorus	(mg/L)	Monthly during discharge	1	4/01/2023				No			
Jan-23	Reactive Phosphorus	(mg/L)	Monthly during discharge	1	4/01/2023				No			
Jan-23	Selenium	(mg/L)	Monthly during discharge	1	4/01/2023				No			
Jan-23	Total Kjeldahl Nitrogen	(mg/L)	Monthly during discharge	1	4/01/2023				No			
Jan-23	Total Suspended Solids	(mg/L)	Monthly during discharge	1	4/01/2023				No	50	No	
Jan-23	Vanadium	(mg/L)	Monthly during discharge	1	4/01/2023				No			
Jan-23	Zinc	(mg/L)	Monthly during discharge	1	4/01/2023				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	<b>Highest Sample</b>	Uscharge	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	(yes/no)	Limit	(yes/no)	Comments
Jan-23	Aluminium	(mg/L)	Daily for any discharge >2 hrs						No			
Jan-23	Ammonia	(mg/L)	Daily for any discharge >2 hrs						No			
Jan-23	Arsenic (III)	(mg/L)	Daily for any discharge >2 hrs						No			
Jan-23	Arsenic (V)	(mg/L)	Daily for any discharge >2 hrs						No			
Jan-23	Cadmium	(mg/L)	Daily for any discharge >2 hrs						No			
Jan-23	Chromium (trivalent)	(mg/L)	Daily for any discharge >2 hrs						No			
Jan-23	Chromium (VI) Compounds	(mg/L)	Daily for any discharge >2 hrs						No			
Jan-23	Copper	(mg/L)	Daily for any discharge >2 hrs						No			
Jan-23	Iron	(mg/L)	Daily for any discharge >2 hrs						No			
Jan-23	Lead	(mg/L)	Daily for any discharge >2 hrs						No			
Jan-23	Manganese	(mg/L)	Daily for any discharge >2 hrs						No			No discharge from EPA Point 25 during January 2023
Jan-23	Nickel	(mg/L)	Daily for any discharge >2 hrs						No			
Jan-23	Nitrate + nitrite (oxidised nitrogen)	(mg/L)	Daily for any discharge >2 hrs						No			
Jan-23	Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Jan-23	pH	рН	Daily for any discharge >2 hrs						No	6.5 - 9.5	No	
Jan-23	Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Jan-23	Reactive Phosphorus	(mg/L)	Daily for any discharge >2 hrs						No			
Jan-23	Selenium	(mg/L)	Daily for any discharge >2 hrs						No			
Jan-23	Total Kjeldahl Nitrogen	(mg/L)	Daily for any discharge >2 hrs						No			
Jan-23	Total Suspended Solids	(mg/L)	Daily for any discharge >2 hrs						No	50	No	
Jan-23	Vanadium	(mg/L)	Daily for any discharge >2 hrs						No			
Jan-23	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).

FOINT 30													
				Samples					99 Percentile	100 Percentile			
				Collected &		Lowest Sample	Mean of	<b>Highest Sample</b>	Concentration	Concentration	Exceedance		
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments	
Jan-23	Aluminium	(mg/L)	Quarterly	1	4/01/2023	0.15	0.15	0.15					
Jan-23	Ammonia	(mg/L)	Quarterly	1	4/01/2023	4.6	4.6	4.6					
Jan-23	Arsenic (III)	(mg/L)	Quarterly	1	4/01/2023	0.003	0.003	0.003					
Jan-23	Arsenic (V)	(mg/L)	Quarterly	1	4/01/2023	0.004	0.004	0.004					
Jan-23	Cadmium	(mg/L)	Quarterly	1	4/01/2023	0.0002	0.0002	0.0002					
Jan-23	Chromium (trivalent)	(mg/L)	Quarterly	1	4/01/2023	< 0.005	<0.005	< 0.005					
Jan-23	Chromium (VI) Compounds	(mg/L)	Quarterly	1	4/01/2023	< 0.005	<0.005	< 0.005					
Jan-23	Copper	(mg/L)	Quarterly	1	4/01/2023	< 0.001	< 0.001	< 0.001					
Jan-23	Electrical Conductivity	(us/cm)	Quarterly	1	4/01/2023	33000	33000	33000					
Jan-23	Iron	(mg/L)	Quarterly	1	4/01/2023	81.0	81.0	81.0				Next sample scheduled for April 2023	
Jan-23	Lead	(mg/L)	Quarterly	1	4/01/2023	0.002	0.002	0.002					
Jan-23	Magnesium	(mg/L)	Quarterly	1	4/01/2023	800	800	800					
Jan-23	Manganese	(mg/L)	Quarterly	1	4/01/2023	6.0	6.0	6.0					
Jan-23	Nickel	(mg/L)	Quarterly	1	4/01/2023	0.027	0.027	0.027					
Jan-23	рН	рН	Quarterly	1	4/01/2023	5.66	5.66	5.66					
Jan-23	Potassium	(mg/L)	Quarterly	1	4/01/2023	110	110	110					
Jan-23	Selenium	(mg/L)	Quarterly	1	4/01/2023	< 0.001	< 0.001	< 0.001					
Jan-23	Sodium	(mg/L)	Quarterly	1	4/01/2023	6000	6000	6000					
Jan-23	Standing Water Level	(m)	Quarterly	1	4/01/2023	3.93	3.93	3.93					
Jan-23	Vanadium	(mg/L)	Quarterly	1	4/01/2023	< 0.002	< 0.002	< 0.002					
Jan-23	Zinc	(mg/L)	Quarterly	1	4/01/2023	0.012	0.012	0.012					

POINT 31	Groundwater quality monitoring bore marked an	d shown as EPA ID 31	1 on The Plans ("VX837351-1 AND "V	X837351-2" 03	3/06/2020 EPA RE	FERENCE DOC20/4	76695 AND DOC	20/476695-1).				
				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
Jan-23	Aluminium	(mg/L)	Quarterly	1	4/01/2023	2.00	2.00	2.00				
Jan-23	Ammonia	(mg/L)	Quarterly	1	4/01/2023	1.60	1.60	1.60				
Jan-23	Arsenic (III)	(mg/L)	Quarterly	1	4/01/2023	0.001	0.001	0.001				
Jan-23	Arsenic (V)	(mg/L)	Quarterly	1	4/01/2023	< 0.001	< 0.001	< 0.001				
Jan-23	Cadmium	(mg/L)	Quarterly	1	4/01/2023	< 0.0001	< 0.0001	< 0.0001				
Jan-23	Chromium (trivalent)	(mg/L)	Quarterly	1	4/01/2023	< 0.005	<0.005	< 0.005				
Jan-23	Chromium (VI) Compounds	(mg/L)	Quarterly	1	4/01/2023	< 0.005	<0.005	< 0.005				
Jan-23	Copper	(mg/L)	Quarterly	1	4/01/2023	0.008	0.008	0.008				
Jan-23	Electrical Conductivity	(us/cm)	Quarterly	1	4/01/2023	24000	24000	24000				
Jan-23	Iron	(mg/L)	Quarterly	1	4/01/2023	220	220	220				
Jan-23	Lead	(mg/L)	Quarterly	1	4/01/2023	0.009	0.009	0.009				Next sample scheduled for April 2023
Jan-23	Magnesium	(mg/L)	Quarterly	1	4/01/2023	680	680	680				
Jan-23	Manganese	(mg/L)	Quarterly	1	4/01/2023	3.1	3.1	3.1				
Jan-23	Nickel	(mg/L)	Quarterly	1	4/01/2023	0.069	0.069	0.069				
Jan-23	pH	рН	Quarterly	1	4/01/2023	5.24	5.24	5.24				
Jan-23	Potassium	(mg/L)	Quarterly	1	4/01/2023	36.0	36.0	36.0				
Jan-23	Selenium	(mg/L)	Quarterly	1	4/01/2023	0.002	0.002	0.002				
Jan-23	Sodium	(mg/L)	Quarterly	1	4/01/2023	4300	4300	4300				
Jan-23	Standing Water Level	(m)	Quarterly	1	4/01/2023	1.73	1.73	1.73				
Jan-23	Vanadium	(mg/L)	Quarterly	1	4/01/2023	0.004	0.004	0.004				
Jan-23	Zinc	(mg/L)	Quarterly	1	4/01/2023	0.46	0.46	0.46				

#### 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).

FOINT 32	Groundwater quality monitoring bore marked an	u shown as LFA ID 32	LOIT THE FIAIIS ( VX857551-1 AND V	x837331-2 0.	3/00/2020 LFA KL	FERENCE DOC20/4	170033 AND DOV	.20/4/0093-1).				
				Samples					99 Percentile	100 Percentile		
				Collected &		Lowest Sample	Mean of	<b>Highest Sample</b>	Concentration	Concentration	Exceedance	
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Analysed	Date Sampled	Value	Samples	Value	Limit	Limit	(yes/no)	Comments
Jan-23	Aluminium	(mg/L)	Quarterly	1	4/01/2023	2.70	2.70	2.70				
Jan-23	Ammonia	(mg/L)	Quarterly	1	4/01/2023	0.05	0.05	0.05				
Jan-23	Arsenic (III)	(mg/L)	Quarterly	1	4/01/2023	< 0.001	<0.001	< 0.001				
Jan-23	Arsenic (V)	(mg/L)	Quarterly	1	4/01/2023	< 0.001	< 0.001	< 0.001				
Jan-23	Cadmium	(mg/L)	Quarterly	1	4/01/2023	< 0.0001	< 0.0001	< 0.0001				
Jan-23	Chromium (trivalent)	(mg/L)	Quarterly	1	4/01/2023	< 0.005	< 0.005	< 0.005				
Jan-23	Chromium (VI) Compounds	(mg/L)	Quarterly	1	4/01/2023	< 0.005	< 0.005	< 0.005				
Jan-23	Copper	(mg/L)	Quarterly	1	4/01/2023	0.003	0.003	0.003				
Jan-23	Electrical Conductivity	(us/cm)	Quarterly	1	4/01/2023	370	370	370				
Jan-23	Iron	(mg/L)	Quarterly	1	4/01/2023	15	15	15				
Jan-23	Lead	(mg/L)	Quarterly	1	4/01/2023	0.004	0.004	0.004				Next sample scheduled for April 2023
Jan-23	Magnesium	(mg/L)	Quarterly	1	4/01/2023	14	14	14				
Jan-23	Manganese	(mg/L)	Quarterly	1	4/01/2023	0.097	0.097	0.097				
Jan-23	Nickel	(mg/L)	Quarterly	1	4/01/2023	0.003	0.003	0.003				
Jan-23	pH	pН	Quarterly	1	4/01/2023	5.63	5.63	5.63				
Jan-23	Potassium	(mg/L)	Quarterly	1	4/01/2023	2.0	2.0	2.0				
Jan-23	Selenium	(mg/L)	Quarterly	1	4/01/2023	0.001	0.001	0.001				
Jan-23	Sodium	(mg/L)	Quarterly	1	4/01/2023	57	57	57				
Jan-23	Standing Water Level	(m)	Quarterly	1	4/01/2023	3.88	3.88	3.88				
Jan-23	Vanadium	(mg/L)	Quarterly	1	4/01/2023	0.002	0.002	0.002				
Jan-23	Zinc	(mg/L)	Quarterly	1	4/01/2023	0.018	0.018	0.018				

POINT 33	Groundwater quality monitoring bore marked an	d shown as EPA ID 33	3 on The Plans ("VX837351-1 AND "V	x837351-2" 03	8/06/2020 EPA RE	FERENCE DOC20/4	176695 AND DOC	20/476695-1).				
Month	Pollutant	Unit of Measure	Sample/Measurement Frequency	Samples Collected & Analysed	Date Sampled	Lowest Sample Value	Mean of Samples	Highest Sample Value	99 Percentile Concentration Limit	100 Percentile Concentration Limit	Exceedance (yes/no)	Comments
Jan-23	Aluminium	(mg/L)	Quarterly	1	4/01/2023	11	11	11				
Jan-23	Ammonia	(mg/L)	Quarterly	1	4/01/2023	0.22	0.22	0.22				
Jan-23	Arsenic (III)	(mg/L)	Quarterly	1	4/01/2023	< 0.001	< 0.001	< 0.001				
Jan-23	Arsenic (V)	(mg/L)	Quarterly	1	4/01/2023	< 0.001	< 0.001	< 0.001				
Jan-23	Cadmium	(mg/L)	Quarterly	1	4/01/2023	0.0003	0.0003	0.0003				
Jan-23	Chromium (trivalent)	(mg/L)	Quarterly	1	4/01/2023	< 0.005	<0.005	< 0.005				
Jan-23	Chromium (VI) Compounds	(mg/L)	Quarterly	1	4/01/2023	< 0.005	<0.005	< 0.005				
Jan-23	Copper	(mg/L)	Quarterly	1	4/01/2023	0.014	0.014	0.014				
Jan-23	Electrical Conductivity	(us/cm)	Quarterly	1	4/01/2023	46000	46000	46000				
Jan-23	Iron	(mg/L)	Quarterly	1	4/01/2023	96	96	96				Next sample scheduled for April 2023
Jan-23	Lead	(mg/L)	Quarterly	1	4/01/2023	0.023	0.023	0.023				
Jan-23	Magnesium	(mg/L)	Quarterly	1	4/01/2023	1400	1400	1400				
Jan-23	Manganese	(mg/L)	Quarterly	1	4/01/2023	0.68	0.68	0.68				
Jan-23	Nickel	(mg/L)	Quarterly	1	4/01/2023	0.01	0.01	0.01				
Jan-23	рН	рН	Quarterly	1	4/01/2023	6.28	6.28	6.28				
Jan-23	Potassium	(mg/L)	Quarterly	1	4/01/2023	380	380	380				
Jan-23	Selenium	(mg/L)	Quarterly	1	4/01/2023	0.001	0.001	0.001				
Jan-23	Sodium	(mg/L)	Quarterly	1	4/01/2023	11000	11000	11000				
Jan-23	Standing Water Level	(m)	Quarterly	1	4/01/2023	0.54	0.54	0.54				
Jan-23	Vanadium	(mg/L)	Quarterly	1	4/01/2023	0.019	0.019	0.019				
Jan-23	Zinc	(mg/L)	Quarterly	1	4/01/2023	0.085	0.085	0.085				

# 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).

				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
Jan-23	Aluminium	(mg/L)	Quarterly	1	4/01/2023	9.00	9.00	9.00				
Jan-23	Ammonia	(mg/L)	Quarterly	1	4/01/2023	0.02	0.02	0.02				
Jan-23	Arsenic (III)	(mg/L)	Quarterly	1	4/01/2023	0.002	0.002	0.002				
Jan-23	Arsenic (V)	(mg/L)	Quarterly	1	4/01/2023	< 0.001	< 0.001	< 0.001				
Jan-23	Cadmium	(mg/L)	Quarterly	1	4/01/2023	<0.0001	<0.0001	< 0.0001				
Jan-23	Chromium (trivalent)	(mg/L)	Quarterly	1	4/01/2023	<0.005	<0.005	< 0.005				
Jan-23	Chromium (VI) Compounds	(mg/L)	Quarterly	1	4/01/2023	<0.005	<0.005	< 0.005				
Jan-23	Copper	(mg/L)	Quarterly	1	4/01/2023	0.020	0.020	0.020				
Jan-23	Electrical Conductivity	(us/cm)	Quarterly	1	4/01/2023	690	690	690				
Jan-23	Iron	(mg/L)	Quarterly	1	4/01/2023	15	15	15				Next sample scheduled for April 2023
Jan-23	Lead	(mg/L)	Quarterly	1	4/01/2023	0.016	0.016	0.016				
Jan-23	Magnesium	(mg/L)	Quarterly	1	4/01/2023	19	19	19				
Jan-23	Manganese	(mg/L)	Quarterly	1	4/01/2023	0.082	0.082	0.082				
Jan-23	Nickel	(mg/L)	Quarterly	1	4/01/2023	0.009	0.009	0.009				
Jan-23	рН	рН	Quarterly	1	4/01/2023	4.51	4.51	4.51				
Jan-23	Potassium	(mg/L)	Quarterly	1	4/01/2023	4	4	4				
Jan-23	Selenium	(mg/L)	Quarterly	1	4/01/2023	0.001	0.001	0.001				
Jan-23	Sodium	(mg/L)	Quarterly	1	4/01/2023	150	150	150				
Jan-23	Standing Water Level	(m)	Quarterly	1	4/01/2023	0.72	0.72	0.72				
Jan-23	Vanadium	(mg/L)	Quarterly	1	4/01/2023	0.05	0.05	0.05				
Jan-23	Zinc	(mg/L)	Quarterly	1	4/01/2023	0.036	0.036	0.036				

GENERAL COMMENTS

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