Monthly Environmental Monitoring Data Report

EPL Number: 766
EPL Holder: EnergyAustralia NSW
EPL Name of Facility: WALLERAWANG POWER STATION
EPL Address of Facility: 1 MAIN STREET, WALLERAWANG, NSW 2847
EPL Website link: https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=130878&SYSUID=1&LICID=766
EPL Monitoring Locations: https://www.energyaustralia.com.au/about-us/energy-generation/mt-piper-power-station/wallerawang-epa-reports
EPL Unit of measure abbreviations: https://www.energyaustralia.com.au/about-us/energy-generation/mt-piper-power-station/wallerawang-epa-reports
EPL Period monitored: 1 – 31 March 2020
Monthly Summary Status: Complete: all monitoring data obtained

Discharge to water

Table 1 – Monthly monitoring at EPL Point 1

2020	Samples required by EPL (during discharge)	No. of samples during month	Aluminium (dissolved) (mg/L)		Arsenic (dissolved) (mg/L)		Boron (mg/L)		Copper (dissolved) (mg/L)		Electrical Conductivity (uS/cm)		Fluoride (mg/L)		Nickel (dissolved) (mg/L)		pH		Selenium (mg/L)		Sulfate (mg/L)		Zinc (dissolved) (mg/L)		Compliant
			Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	
January	1	Not sampled due to no flow / no discharge	NR	-	NR	0.024	NR	1.0	NR	-	NR	2900	NR	3.0	NR	0.06	NR	6.5-9.0	NR	-	NR	1600	NR	-	Yes
February	1	Not sampled due to no flow / no discharge	NR	-	NR	0.024	NR	1.0	NR	-	NR	2900	NR	3.0	NR	0.06	NR	6.5-9.0	NR	-	NR	1600	NR	-	Yes
March	1	Not sampled due to no flow / no discharge	NR	-	NR	0.024	NR	1.0	NR	-	NR	2900	NR	3.0	NR	0.06	NR	6.5-9.0	NR	-	NR	1600	NR	-	Yes
April	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		-		1600		-	
May	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		-		1600		-	
June	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		-		1600		-	
July	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		-		1600		-	
August	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		-		1600		-	
September	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		-		1600		-	
October	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		-		1600		-	
November	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		-		1600		-	
December	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		-		1600		-	

Table 2 – Monthly monitoring at EPL Point 3

2020	Samples required by EPL (during discharge)	No. of samples during month	Boron (Mg/L)		Electrical Conductivity (uS/cm)		Filt. Iron (mg/L)		Filt. Manganese (mg/L)		Fluoride (mg/L)		pH		Selenium (mg/L)		Sulfate (mg/L)		Total Suspended Solids (mg/L)		Compliant
			Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	
January	1	Not sampled due to no flow / no discharge	NR	-	NR	-	NR	-	NR	-	NR	-	NR	6.5-8.5	NR	-	NR	1200	NR	30	Yes
February	1	Not sampled due to no flow / no discharge	NR	-	NR	-	NR	-	NR	-	NR	-	NR	6.5-8.5	NR	-	NR	1200	NR	30	Yes
March	1	Not sampled due to no flow / no discharge	NR	-	NR	-	NR	-	NR	-	NR	-	NR	6.5-8.5	NR	-	NR	1200	NR	30	Yes
April	1			-		-		-		-		-		6.5-8.5		-		1200		30	
May	1			-		-		-		-		-		6.5-8.5		-		1200		30	
June	1			-		-		-		-		-		6.5-8.5		-		1200		30	
July	1			-		-		-		-		-		6.5-8.5		-		1200		30	
August	1			-		-		-		-		-		6.5-8.5		-		1200		30	
September	1			-		-		-		-		-		6.5-8.5		-		1200		30	
October	1			-		-		-		-		-		6.5-8.5		-		1200		30	
November	1			-		-		-		-		-		6.5-8.5		-		1200		30	
December	1			-		-		-		-		-		6.5-8.5		-		1200		30	

Report Creation date: 15 April 2020

NR = No Result

Table 3 – Monthly monitoring at EPL Point 4

2020	Samples required by EPL (during discharge)	No. of samples during month	Aluminium (dissolved) (mg/L)		Arsenic (dissolved) (mg/L)		Boron (mg/L)		Copper (dissolved) (mg/L)		Electrical Conductivity (uS/cm)		Fluoride (mg/L)		Nickel (dissolved) (mg/L)		pH		Selenium (mg/L)		Sulfate (mg/L)		Total Suspended Solids (mg/L)		Turbidity		Zinc (dissolved) (mg/L)		Compliant
			Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	
January	1	Not sampled due to no flow / no discharge	NR	-	NR	0.024	NR	1.0	NR	-	NR	2900	NR	3.0	NR	0.06	NR	6.5-9.0	NR	-	NR	1600	NR	30	NR	25	NR	-	Yes
February	1	Not sampled due to no flow / no discharge	NR	-	NR	0.024	NR	1.0	NR	-	NR	2900	NR	3.0	NR	0.06	NR	6.5-9.0	NR	-	NR	1600	NR	30	NR	25	NR	-	Yes
March	1	Not sampled due to no flow / no discharge	NR	-	NR	0.024	NR	1.0	NR	-	NR	2900	NR	3.0	NR	0.06	NR	6.5-9.0	NR	-	NR	1600	NR	30	NR	25	NR	-	Yes
April	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		-		1600		30		25		-	
May	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		-		1600		30		25		-	
June	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		-		1600		30		25		-	
July	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		-		1600		30		25		-	
August	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		-		1600		30		25		-	
September	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		-		1600		30		25		-	
October	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		-		1600		30		25		-	
November	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		-		1600		30		25		-	
December	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		-		1600		30		25		-	

Table 4 – Monthly monitoring at EPL Point 5

2020	Samples required by EPL (during discharge)	No. of samples during month	Electrical Conductivity (uS/cm)		Oil and Grease (mg/L)		pH		Total Suspended Solids (mg/L)		Compliant
			Result	Limit	Result	Limit	Result	Limit	Result	Limit	
January	1	Not sampled due to no flow / no discharge	NR	-	NR	10	NR	6.5-8.5	NR	-	Yes
February	1	Flow / Discharge recorded week of 08/02/2020-14/02/2020	155.1	-	<5	10	8.13	6.5-8.5	9.6	-	Yes
March	1	Flow / Discharge recorded week of 28/03/2020 – 03/04/2020	159	-	<5	10	7.12	6.5-8.5	10	-	Yes
April	1			-		10		6.5-8.5		-	
May	1			-		10		6.5-8.5		-	
June	1			-		10		6.5-8.5		-	
July	1			-		10		6.5-8.5		-	
August	1			-		10		6.5-8.5		-	
September	1			-		10		6.5-8.5		-	
October	1			-		10		6.5-8.5		-	
November	1			-		10		6.5-8.5		-	
December	1			-		10		6.5-8.5		-	

Report Creation date: 15 April 2020

NR = No Result

Table 5 – Monthly monitoring at EPL Point 18

2020	Samples required by EPL (during discharge)	No. of samples during month	Electrical Conductivity (uS/cm)		Oil and Grease (mg/L)		pH		Total Suspended Solids (mg/L)		Compliant
			Result	Limit	Result	Limit	Result	Limit	Result	Limit	
January	1	Not sampled due to no flow / no discharge	NR	-	NR	10	NR	6.5-8.5	NR	30	Yes
February	1	Flow / Discharge recorded week of 08/02/2020-14/02/2020	753	-	5	10	7.77	6.5-8.5	8	30	Yes
March	1	Flow / Discharge recorded week of 28/03/2020 – 03/04/2020	377	-	<5	10	7.42	6.5-8.5	18	30	Yes
April	1			-		10		6.5-8.5		30	
May	1			-		10		6.5-8.5		30	
June	1			-		10		6.5-8.5		30	
July	1			-		10		6.5-8.5		30	
August	1			-		10		6.5-8.5		30	
September	1			-		10		6.5-8.5		30	
October	1			-		10		6.5-8.5		30	
November	1			-		10		6.5-8.5		30	
December	1			-		10		6.5-8.5		30	

Table 6 – Monthly monitoring at EPL Point 21

2020	Samples required by EPL (during discharge)	No. of samples during month	Aluminium (dissolved) (mg/L)		Arsenic (dissolved) (mg/L)		Boron (mg/L)		Copper (dissolved) (mg/L)		Electrical Conductivity (uS/cm)		Fluoride (mg/L)		Nickel (dissolved) (mg/L)		pH		Sulfate (mg/L)		Total Suspended Solids (mg/L)		Zinc (dissolved) (mg/L)		Compliant
			Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	Result	Limit	
January	1	Not sampled due to no flow / no discharge	NR	-	NR	0.024	NR	1.0	NR	-	NR	2900	NR	3.0	NR	0.06	NR	6.5-9.0	NR	1600	NR	-	NR	-	Yes
February	1	Not sampled due to no flow / no discharge	NR	-	NR	0.024	NR	1.0	NR	-	NR	2900	NR	3.0	NR	0.06	NR	6.5-9.0	NR	1600	NR	-	NR	-	Yes
March	1	Not sampled due to no flow / no discharge	NR	-	NR	0.024	NR	1.0	NR	-	NR	2900	NR	3.0	NR	0.06	NR	6.5-9.0	NR	1600	NR	-	NR	-	Yes
April	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		1600		-		-	
May	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		1600		-		-	
June	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		1600		-		-	
July	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		1600		-		-	
August	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		1600		-		-	
September	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		1600		-		-	
October	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		1600		-		-	
November	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		1600		-		-	
December	1			-		0.024		1.0		-		2900		3.0		0.06		6.5-9.0		1600		-		-	

Report Creation date: 15 April 2020

NR = No Result

Air Emissions

Table 7 – Stack emissions monitoring

2020	No. of samples required by EPL	EPL Point	Samples taken during year	Result	Limit	Compliant	Comment
Cadmium (mg/m^3)	1 per year	13	NIL	NR	1.0	N/A	Not sampled: due to non-operational facility / unit
		14	NIL	NR			
Carbon dioxide (%)	1 per year	13	NIL	NR	-	N/A	
		14	NIL	NR			
Chlorine (mg/m^3)	1 per year	13	NIL	NR	200	N/A	
		14	NIL	NR			
Copper (mg/m3)	1 per year	13	NIL	NR	-	N/A	
		14	NIL	NR			
Dry gas density (kg/m^3)	4 per year	13	NIL	NR	-	N/A	
		14	NIL	NR			
Hydrogen chloride (mg/m^3)	1 per year	13	NIL	NR	100	N/A	
		14	NIL	NR			
Mercury (mg/m^3)	1 per year	13	NIL	NR	1.0	N/A	
		14	NIL	NR			
Moisture Content (%)	4 per year	13	NIL	NR	-	N/A	
		14	NIL	NR			
Molecular weight of stack gases (mg/m^3)	4 per year	13	NIL	NR	-	N/A	
		14	NIL	NR			
Nitrogen Oxides (g/m^3)	4 per year	13	NIL	NR	1500	N/A	
		14	NIL	NR			
Oxygen (O2) (%)	4 per year	13	NIL	NR	-	N/A	
		14	NIL	NR			
Solid particles (mg/m^3)	4 per year	13	NIL	NR	250	N/A	
		14	NIL	NR			
Sulfuric acid mist and sulfur trioxide (as SO3) (mg/m^3)	1 per year	13	NIL	NR	100	N/A	
		14	NIL	NR			
Sulphur dioxide (mg/m^3)	4 per year	13	NIL	NR	-	N/A	
		14	NIL	NR			
Temperature (° C)	4 per year	13	NIL	NR	-	N/A	
		14	NIL	NR			
Total Fluoride (mg/m^3)	1 per year	13	NIL	NR	50	N/A	
		14	NIL	NR			
Type 1 and type 2 substances in aggregate (mg/m^3)	1 per year	13	NIL	NR	5.0	N/A	
		14	NIL	NR			
Velocity (m/s)	4 per year	13	NIL	NR	-	N/A	
		14	NIL	NR			
Volumetric flowrate (m^3/s)	4 per year	13	NIL	NR	-	N/A	
		14	NIL	NR			